

XRT Timeline to be uploaded on 2024/09/17

Period: 2024/09/17 11:59:00 - 2024/09/21 10:57:00

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Normal mode

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XOB #1C97: AR - Filter-Ratio with thin-Be (long/short pairs) and Med-Be (short) with PFB, 384x384 at 1064 1048, with G-band (1ms/1ms VLS=CLS), 60 cad

Term	Pointing (x, y)	Comment
09/17 12:12:00 - 09/17 17:59:54	Track (-214.4, -401.8) ^{@ 09/17 12:09:00}	# OP start + 10min + HOP409 + AR13825
09/17 18:13:00 - 09/18 03:59:54	Track (-161.9, -402.9) ^{@ 09/17 18:10:00}	HOP409 + AR13825
09/18 18:08:00 - 09/19 03:59:54	Track (49.9, -403.7) ^{@ 09/18 18:05:00}	HOP409 + AR13825

PROG= 09 Inf.-time(s)

Subr=	1-time(s)	2.0sec										
Subr= 1												
Seqn= 92												
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	384x384 (1064, 1048)	DPCM	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	384x384 (1064, 1048)	DPCM	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	16.0s	Obs	1x1	384x384 (1064, 1048)	Q=98	0	0	2.0sec
Subr= 2												
Seqn= 37												
thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	2	0	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
med-Be/Open	Open/thick-Al	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
Seqn= 59												
thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	1	2.0sec
med-Be/Open	Open/thick-Al	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	1	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	2	2.0sec
med-Be/Open	Open/thick-Al	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	2	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #1D19: Synoptic 8 Filter w/ Al-mesh(3/128/723), Al-poly(5/181/1443), Thin-Be(24/512/4096), Thick-Be(32768), Med-Al(181/5795/32768), Med-Be(88/4096)

Term	Pointing (x, y)	Comment
09/17 18:03:00 - 09/17 18:09:54	Fixed (0.0, 0.0)	synoptic
09/18 05:23:00 - 09/18 05:30:30	Fixed (0.0, 0.0)	HOP349 + synoptic, shifted 8.5 min
09/18 17:58:00 - 09/18 18:04:54	Fixed (0.0, 0.0)	synoptic, shifted -5.0 min
09/19 05:23:00 - 09/19 05:48:24	Fixed (0.0, 0.0)	HOP349 + synoptic, shifted -21.5 min

PROG= 06 1-time(s)

Subr=	1-time(s)	2.0sec										
Subr= 1												
Seqn= 5												
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= 55												
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	2ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	125ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	707ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 98												
Al-poly/Open	Al-poly/Open	close	Safe	Norm	5ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Al-poly/Open	Al-poly/Open	close	Safe	Norm	177ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	1.41s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 76												
thin-Be/Open	thin-Be/Open	close	Safe	Norm	24ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	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												
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												
Seqn= 41												
Open/thick-Be	Open/thick-Be	close	Safe	Norm	32.0s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Seqn= 18												
med-Al/Open	med-Al/thick-Al	close	Safe	Norm	177ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
med-Al/Open	med-Al/Open	close	Safe	Norm	5.66s	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= 86												
med-Be/Open	Open/thick-Al	close	Safe	Norm	86ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
med-Be/Open	med-Be/Open	close	Safe	Norm	4.00s	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= 54												
Al-poly/Ti-poly	Al-poly/thick-Al	close	Safe	Norm	12ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Al-poly/Ti-poly	Al-poly/thick-Al	close	Safe	Norm	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #1CD1: HOP349 - 3-filter Synoptics (Al-mesh[2/128/723], Al-poly[12/181/1443], thin-Be[24/512/3897] with 512x512 G-band+Leak - 375min cad) + CME w

Term	Pointing (x, y)	Comment
09/18 04:23:00 - 09/18 05:19:54	Fixed (0.0, 0.0)	HOP349 + synoptic, shifted 8.5 min
09/19 04:03:00 - 09/19 05:19:54	Fixed (0.0, 0.0)	HOP349 + synoptic, shifted -21.5 min

PROG= 13 Inf.-time(s)													
Subr= 1 1-time(s) 300.0sec													
Seqn= 55 1-time(s) 2.0sec													
	Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	2ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
	Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	125ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
	Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	707ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 15 1-time(s) 2.0sec													
	Al-poly/Open	Al-poly/Open	close	Safe	Norm	12ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
	Al-poly/Open	Al-poly/Open	close	Safe	Norm	177ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
	Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	1.41s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 79 1-time(s) 2.0sec													
	thin-Be/Open	thin-Be/Open	close	Safe	Norm	16ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
	thin-Be/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
	thin-Be/Open	thin-Be/Open	close	Safe	Norm	2.83s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 30 1-time(s) 2.0sec													
	Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	512x512 (1024, 1024)	Q=90	0	0	2.0sec
	Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	512x512 (1024, 1024)	Q=95	0	0	2.0sec
Subr= 2 15-time(s) 1500.0sec													
Seqn= 8 1-time(s) 2.0sec													
	thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	4x4	2048x2048 (1024, 1024)	Q=98	3	0	2.0sec
	thin-Be/Open	med-Be/Open	close	Safe	Norm	1.41s	Obs	4x4	2048x2048 (1024, 1024)	DPCM	2	0	2.0sec
Seqn= 74 1-time(s) 2.0sec													
	med-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	3	0	2.0sec
	med-Be/Open	med-Be/Open	close	Safe	Norm	2.00s	Obs	4x4	2048x2048 (1024, 1024)	Q=98	2	0	2.0sec
Seqn= 6 1-time(s) 2.0sec													
	Al-poly/Open	Al-poly/Open	close	Safe	Norm	125ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	3	0	2.0sec
	Al-poly/Open	Al-poly/Open	close	Safe	Norm	1.00s	Obs	4x4	2048x2048 (1024, 1024)	DPCM	2	0	2.0sec
Seqn= 29 1-time(s) 2.0sec													
	Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	125ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	3	0	2.0sec
	Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	250ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	2	0	2.0sec
	Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #1CE7: AR - Filter-Ratio with thin-Be (long/short pairs) and Med-Be (short) with PFB, 384x384 at 1064 1048, with G-band (1ms/1ms VLS=CLS), 180 cad

Term	Pointing (x, y)	Comment
09/18 06:21:30 - 09/18 08:29:54	Track (-54.6, -404.1) @ 09/18 06:18:30	AR13825
09/19 05:51:30 - 09/19 10:43:30	Track (153.1, -401.8) @ 09/19 05:48:30	AR13825

PROG= 08 Inf.-time(s)													
Subr= 1 1-time(s) 2.0sec													
Seqn= 92 1-time(s) 2.0sec													
	Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	384x384 (1064, 1048)	DPCM	0	0	2.0sec
	Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	384x384 (1064, 1048)	DPCM	0	0	2.0sec
	Open/Ti-poly	Open/thick-Al	close	Safe	Dark	16.0s	Obs	1x1	384x384 (1064, 1048)	Q=98	0	0	2.0sec
Subr= 2 60-time(s) 180.0sec													
Seqn= 37 1-time(s) 2.0sec													
	thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	2	0	2.0sec
	thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
	med-Be/Open	Open/thick-Al	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
Seqn= 59 1-time(s) 2.0sec													
	thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	1	2.0sec
	med-Be/Open	Open/thick-Al	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	1	2.0sec
	thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	2	2.0sec
	med-Be/Open	Open/thick-Al	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	2	2.0sec
	Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #1C8B: AR Standard-A(Filter-Ratio with Al/poly and thin-Be) with PFB, 384x384 at 1064 1048, thin-Be, thick-Al, Al/Poly context, with G-band (1ms/1ms

Term	Pointing (x, y)	Comment
09/18 08:33:00 - 09/18 10:30:30	Track (-35.1, -404.1) @ 09/18 08:30:00	AR13825

PROG= 18 Inf.-time(s)													
Subr= 1 1-time(s) 2.0sec													
Seqn= 92 1-time(s) 2.0sec													
	Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	384x384 (1064, 1048)	DPCM	0	0	2.0sec
	Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	384x384 (1064, 1048)	DPCM	0	0	2.0sec
	Open/Ti-poly	Open/thick-Al	close	Safe	Dark	16.0s	Obs	1x1	384x384 (1064, 1048)	Q=98	0	0	2.0sec
Seqn= 42 3-time(s) 2.0sec													
	Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
	thin-Be/Open	med-Be/Open	close	Safe	Norm	5.66s	Obs	1x1	512x512 (1064, 1048)	Q=95	3	0	2.0sec
	Open/thick-Al	Open/thick-Al	close	Safe	Norm	16.0s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
Seqn= 62 60-time(s) 60.0sec													
	thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
	Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	14.0sec
	thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	1	2.0sec
	Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	1	14.0sec
	thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	2	2.0sec
	Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	2	2.0sec
	Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #1CE6: HOP81/206 1-filter - Al/poly 6s, 120s cadence, G-band - 384x384 1ms

Term	Pointing (x, y)	Comment
09/18 10:53:00 - 09/18 17:30:30	Fixed (-22.0, 877.0)	HOP206
PROG= 02 Inf-time(s)		
Subr= 1 1-time(s) 2.0sec		
Seqn= 16 2-time(s) 2.0sec		
Open/G-band Open/G-band close Safe Norm 1ms Obs 1x1 384x384 (1064, 1048) DPCM 0 0 2.0sec		
Subr= 2 1-time(s) 2.0sec		
Seqn= 90 1-time(s) 30.0sec		
Open/G-band Open/G-band open Safe Norm 1ms Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec		
Subr= 3 60-time(s) 60.0sec		
Seqn= 24 1-time(s) 120.0sec		
Al-poly/Open Al-poly/Open close Safe Norm 5.66s Obs 1x1 384x384 (1064, 1048) Q=90 0 0 2.0sec		
Default Filter Thicker Filter VLS mode image Exp. CCD Bin ROI: size (center) Comp. AEC Buffer Interval		

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Flare mode

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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
09/17 12:12:00 - 09/17 17:59:54	Track (-214.4, -401.8) ^{Ⓢ 09/17 12:09:00}	# OP start + 10min + HOP409 + AR13825
09/17 18:13:00 - 09/18 03:59:54	Track (-161.9, -402.9) ^{Ⓢ 09/17 18:10:00}	HOP409 + AR13825
09/18 04:23:00 - 09/18 05:19:54	Fixed (0.0, 0.0)	HOP349 + synoptic, shifted 8.5 min
09/18 06:21:30 - 09/18 08:29:54	Track (-54.6, -404.1) ^{Ⓢ 09/18 06:18:30}	AR13825
09/18 08:33:00 - 09/18 10:30:30	Track (-35.1, -404.1) ^{Ⓢ 09/18 08:30:00}	AR13825
09/18 10:53:00 - 09/18 17:30:30	Fixed (-22.0, 877.0)	HOP206
09/18 18:08:00 - 09/19 03:59:54	Track (49.9, -403.7) ^{Ⓢ 09/18 18:05:00}	HOP409 + AR13825
09/19 04:03:00 - 09/19 05:19:54	Fixed (0.0, 0.0)	HOP349 + synoptic, shifted -21.5 min
09/19 05:51:30 - 09/19 10:43:30	Track (153.1, -401.8) ^{Ⓢ 09/19 05:48:30}	AR13825

Term	Pointing (x, y)	Comment
PROG= 14 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		

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Active Region Search

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NOT USED

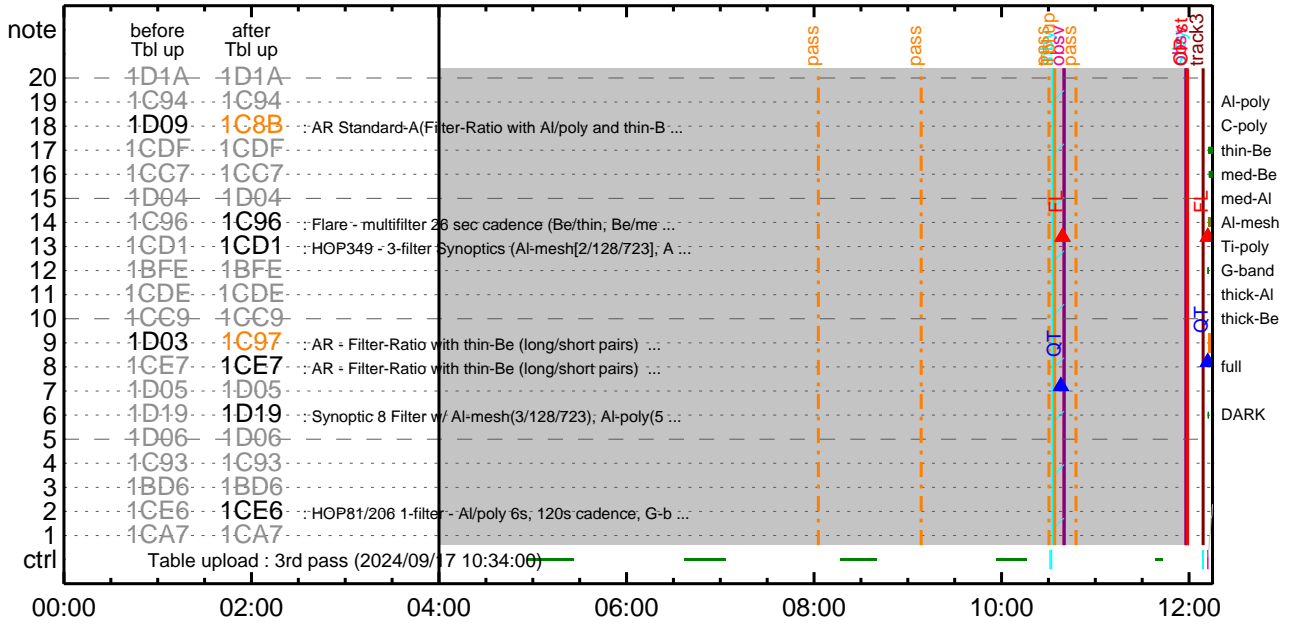
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Flare Detection

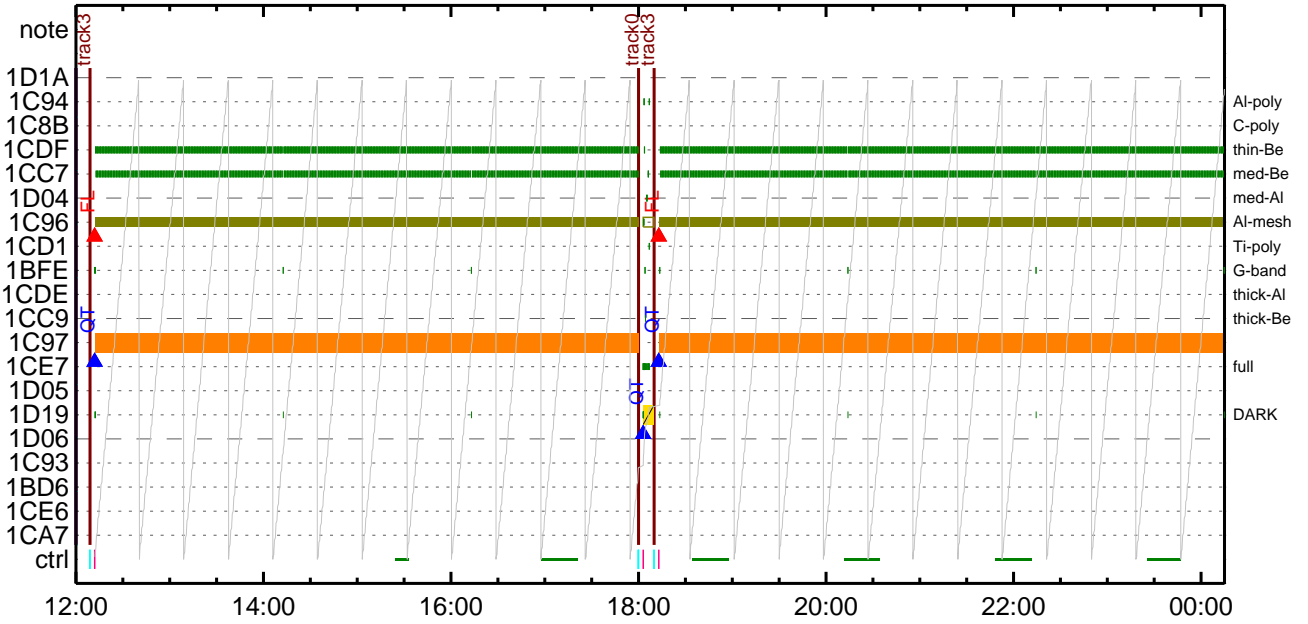
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Term	Pointing (x, y)	Comment
FLD Patrol		
09/17 10:35:00 - 09/17 18:00:18	cannot be identified	
09/17 18:10:18 - 09/18 05:20:18	Track (-161.9, -402.9) ^{Ⓢ 09/17 18:10:00}	HOP409 + AR13825
09/18 06:18:48 - 09/18 17:55:18	Track (-54.6, -404.1) ^{Ⓢ 09/18 06:18:30}	AR13825
09/18 18:05:18 - 09/19 05:20:18	Track (49.9, -403.7) ^{Ⓢ 09/18 18:05:00}	HOP409 + AR13825
09/19 05:48:48 - 09/21 10:57:00	Track (153.1, -401.8) ^{Ⓢ 09/19 05:48:30}	AR13825
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		

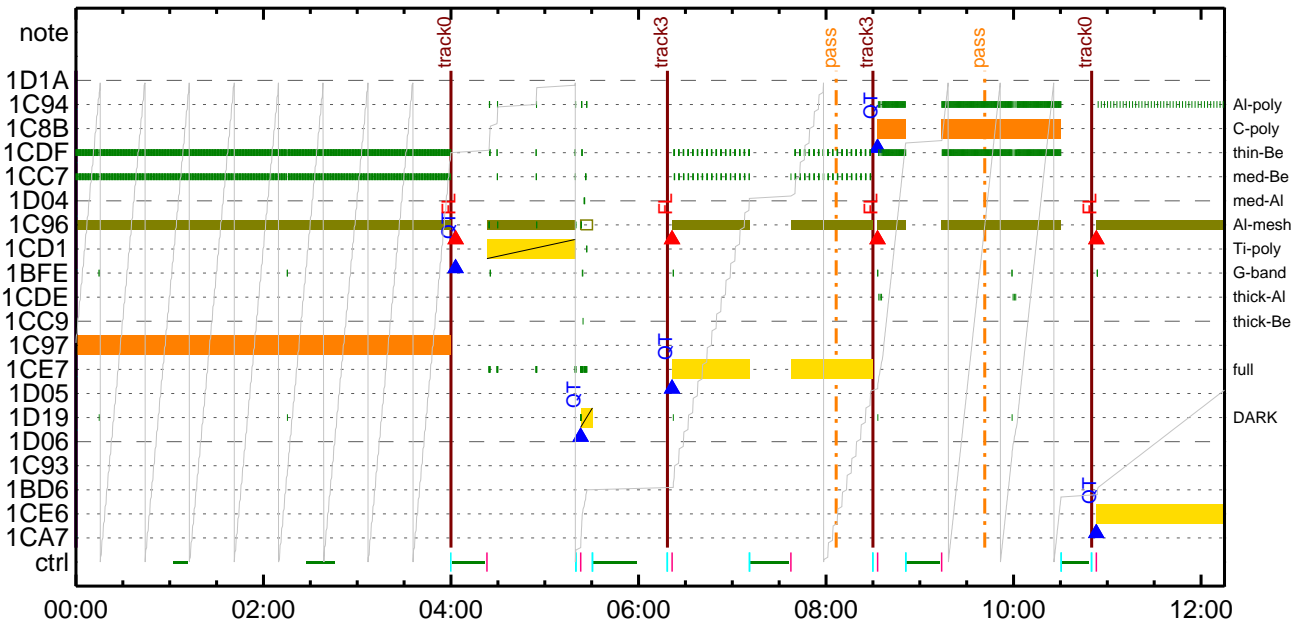
CMDI #0093 2024/09/17



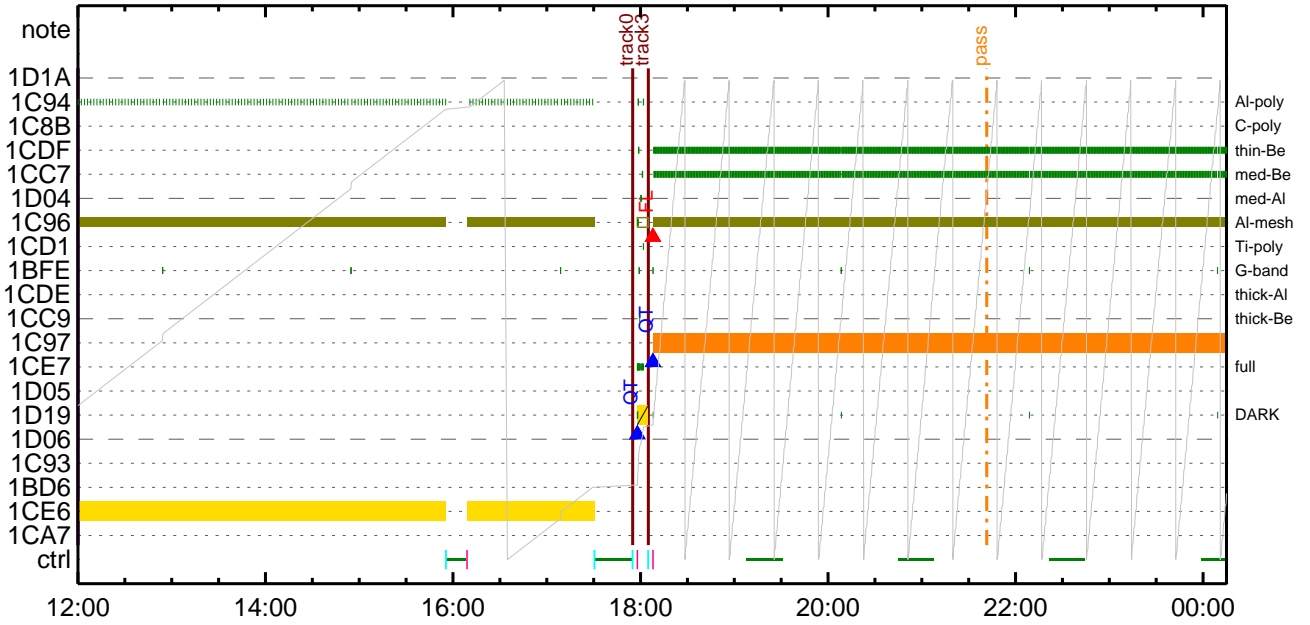
CMDI #0093 2024/09/17



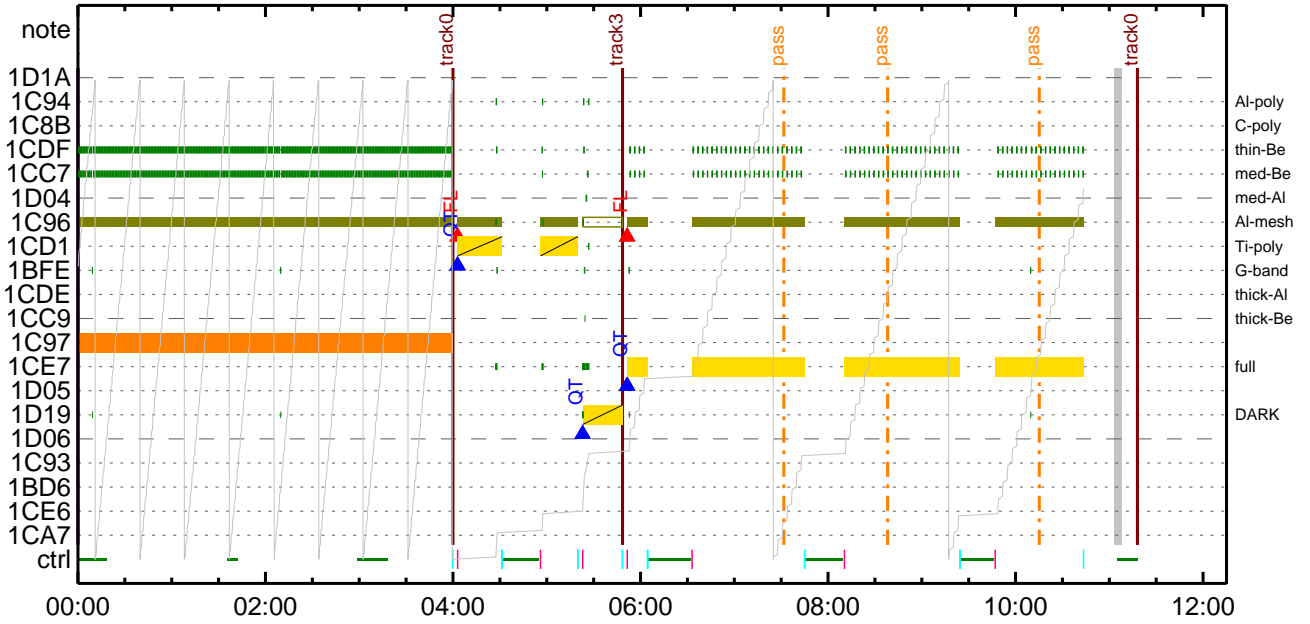
CMDI #0093 2024/09/18



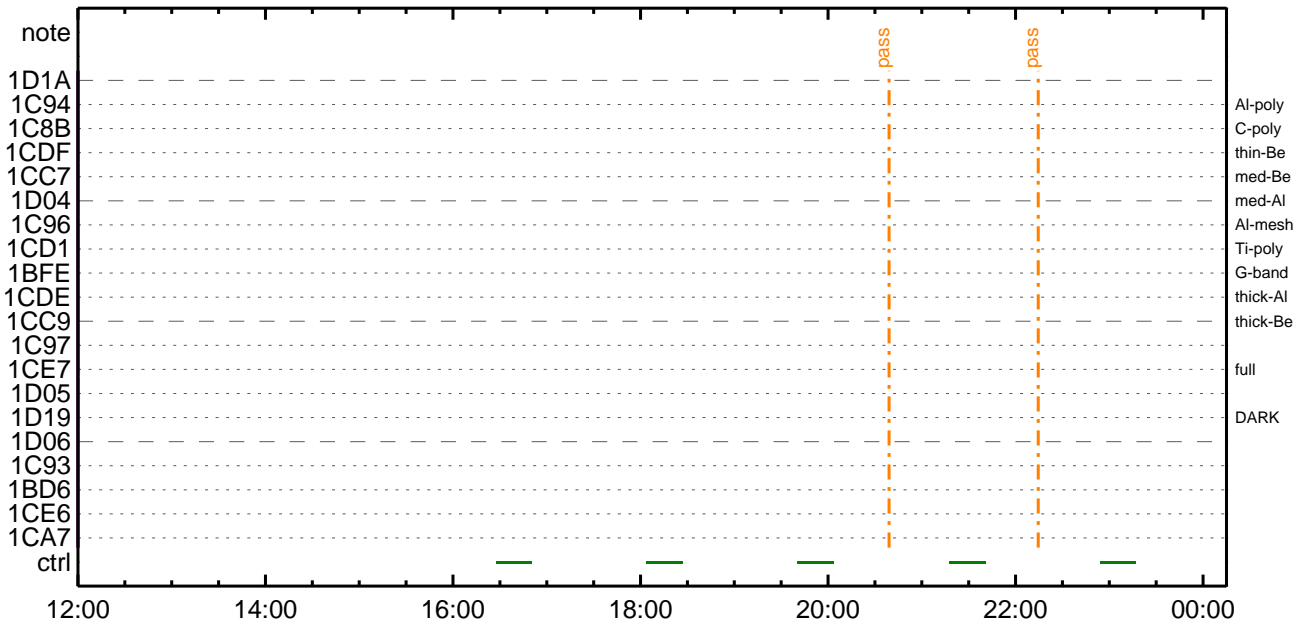
CMDI #0093 2024/09/18



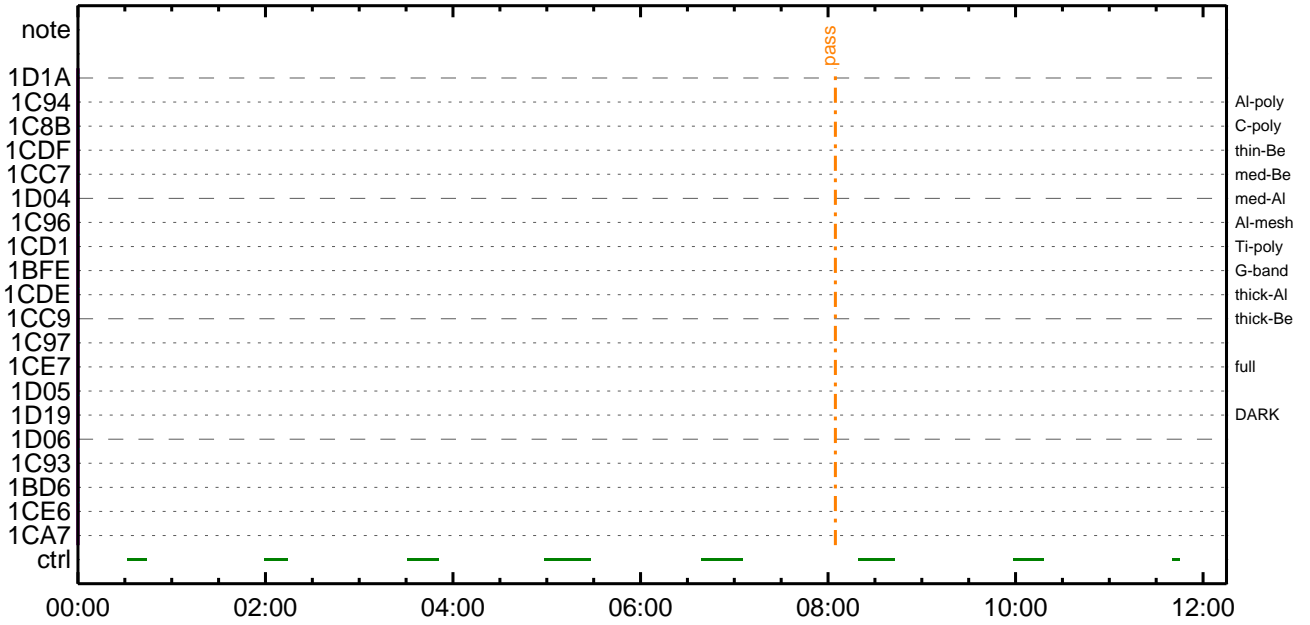
CMDI #0093 2024/09/19



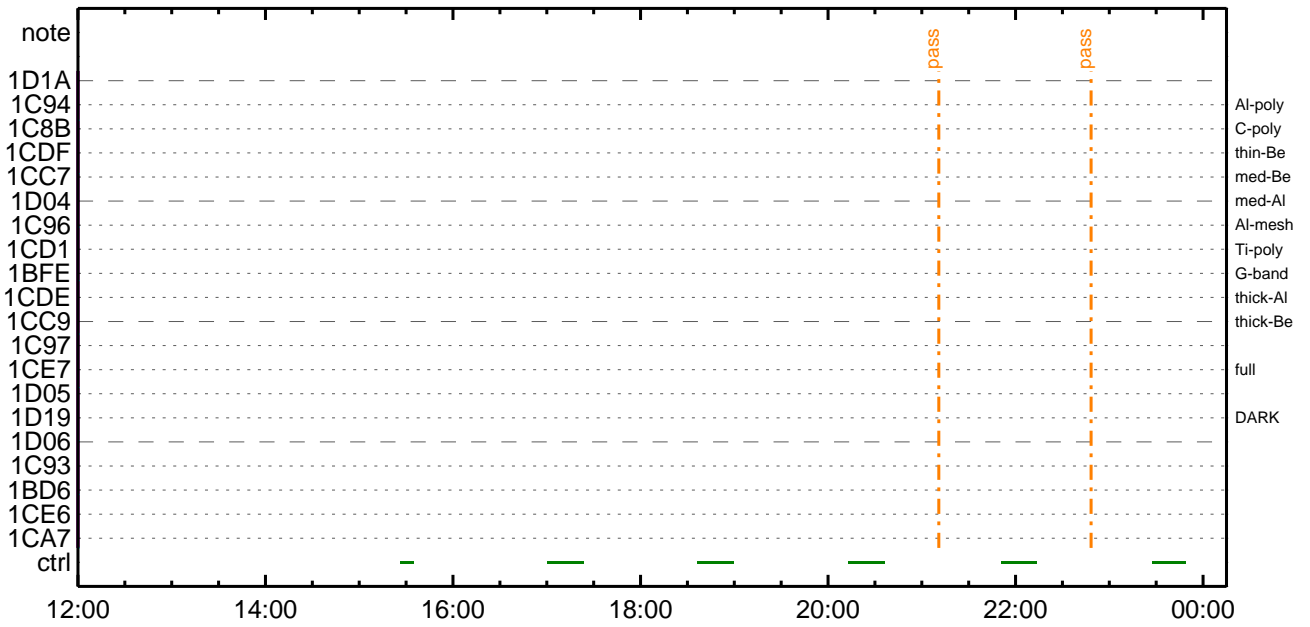
CMDI #0093 2024/09/19



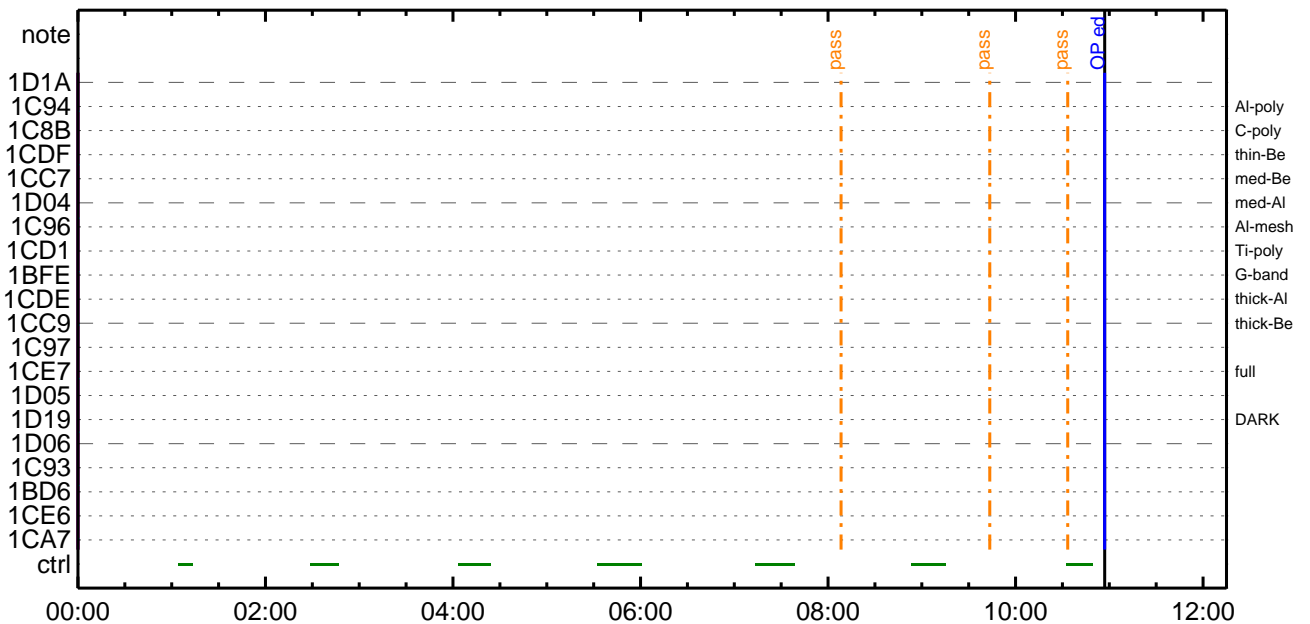
CMDI #0093 2024/09/20



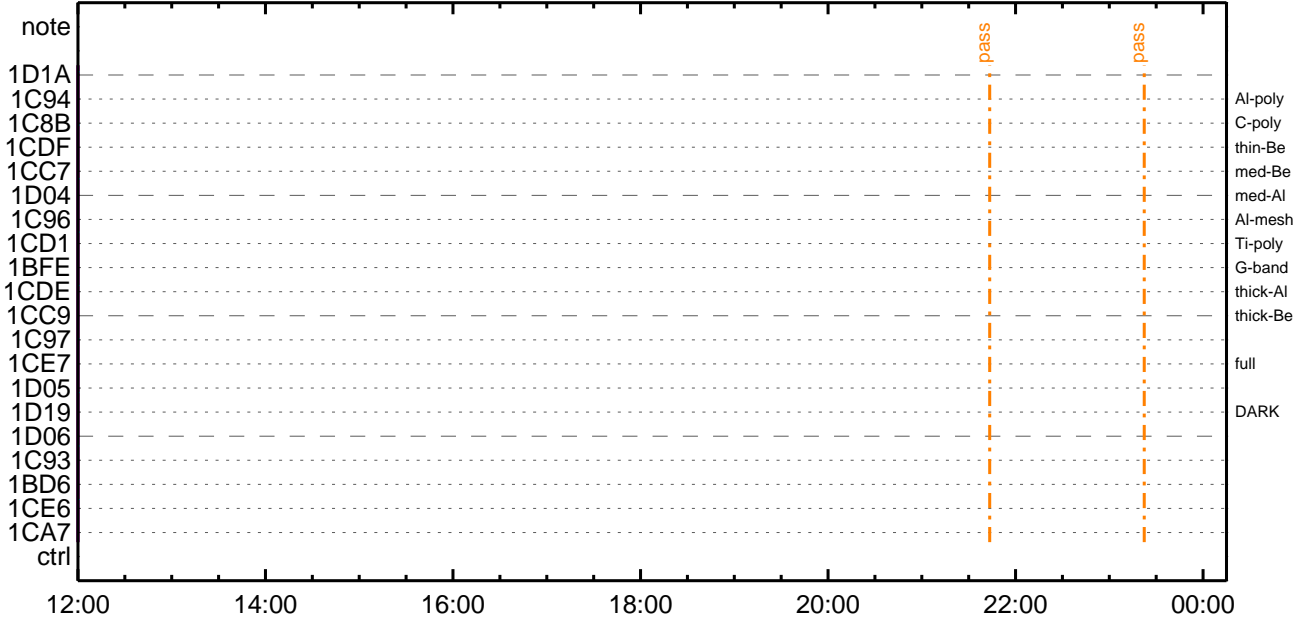
CMDI #0093 2024/09/20



CMDI #0093 2024/09/21



CMDI #0093 2024/09/21



(a) Spacecraft Operation Procedure (real-commands)

```
main-814 2024-09-17 13:51:59 178 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSÿÄÿ$ÿÄÿ-¼Ä»Ü;ä
0005 C.
0006 C. ÿÄÿß;¼ÿ³ÿDÿóÿÉÁ÷¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Äí;Ë»¿»Ä»•µ°»Í×ÄÇ»ÍÿçÿÿÄÿ×ÿÿí;¼ÿÉ;ËËËµ•íÉ;Ë»É¼°ÇÖ»•»¿¼í¹Ç»Í;¿Ä®, ù»¹»È»D»¿Ä÷¿®»»»È»»»»»»»È;£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. OP/OGÿí;¼ÿË;ÿÿÿÄÿóÿ×
0016 C. *****
0017 C.
0018 . C. ;ãOP/OGÿí;¼ÿË;ä
0019 . S. OP op-814:OP
0020 ()
0021 . S. OG og-814:OG
0022 ()
0023 C.
0024 . C. ;änMOG&OPî°èÿÿÄÿóÿ×;ä
0025 C. NMOG(0x200000-0x207FFF;$ 32 kbyte)
0026 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0027 BC (20 00 7f 01 02)
0028 C. ¢¢[HK1_DMP_TOP_ADRS_1] EQ 40
0029 C. ¢¢[HK1_DMP_TOP_ADRS_0] EQ 0
0030 C. ¢¢[HK1_DMP_BLOCK_NUM] EQ 127
0031 C. ¢¢[HK1_DMP_REPEAT_NUM] EQ 0
0032 C. ¢¢[HK1_DMA_DMP_PIM] EQ DHU
0033 +. DC 01-22 DHU_MODE_CHNG
0034 BC (07 0b f8)
0035 C. ¢¢[HK1_PKT_FORM_NO] EQ 7
0036 C. ¢¢[HK1_PKT_GEN_TIME] EQ 0.25 s
0037 C. ¢¢[HK1_S_TLM_BIT_RATE] EQ 32k
0038 C. ¢¢[HK1_X_TLM_BIT_RATE] EQ 4M
0039 C. ¢¢[HK1_DMP_CHK_FLG] EQ EXEC
0040 . C. ÿÄÿóÿ×½ªí»»»»³ÍÇ$
0041 C. ¢¢[HK1_DMP_CHK_FLG] EQ NON
0042 . C. RAM ID=NMOG»í¾É¹Ç•ë²ÍOK»»»³ÍÇ$
0043 C.
0044 C. NMOG(0x208000-0x20FFFF;$ 32 kbyte)
0045 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0046 BC (20 80 7f 01 02)
0047 C. ¢¢[HK1_DMP_TOP_ADRS_1] EQ 41
0048 C. ¢¢[HK1_DMP_TOP_ADRS_0] EQ 0
0049 C. ¢¢[HK1_DMP_BLOCK_NUM] EQ 127
0050 C. ¢¢[HK1_DMP_REPEAT_NUM] EQ 0
0051 C. ¢¢[HK1_DMA_DMP_PIM] EQ DHU
0052 +. DC 01-22 DHU_MODE_CHNG
0053 BC (07 0b f8)
0054 C. ¢¢[HK1_PKT_FORM_NO] EQ 7
0055 C. ¢¢[HK1_PKT_GEN_TIME] EQ 0.25 s
0056 C. ¢¢[HK1_S_TLM_BIT_RATE] EQ 32k
0057 C. ¢¢[HK1_X_TLM_BIT_RATE] EQ 4M
0058 C. ¢¢[HK1_DMP_CHK_FLG] EQ EXEC
0059 . C. ÿÄÿóÿ×½ªí»»»»³ÍÇ$
0060 C. ¢¢[HK1_DMP_CHK_FLG] EQ NON
0061 . C. RAM ID=NMOG»í¾É¹Ç•ë²ÍOK»»»³ÍÇ$
0062 C.
0063 C. NMOG(0x210000-0x2100FF;$ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0064 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0065 BC (21 00 41 01 02)
0066 C. ¢¢[HK1_DMP_TOP_ADRS_1] EQ 42
0067 C. ¢¢[HK1_DMP_TOP_ADRS_0] EQ 0
0068 C. ¢¢[HK1_DMP_BLOCK_NUM] EQ 65
0069 C. ¢¢[HK1_DMP_REPEAT_NUM] EQ 0
0070 C. ¢¢[HK1_DMA_DMP_PIM] EQ DHU
0071 +. DC 01-22 DHU_MODE_CHNG
0072 BC (07 0b f8)
0073 C. ¢¢[HK1_PKT_FORM_NO] EQ 7
0074 C. ¢¢[HK1_PKT_GEN_TIME] EQ 0.25 s
0075 C. ¢¢[HK1_S_TLM_BIT_RATE] EQ 32k
0076 C. ¢¢[HK1_X_TLM_BIT_RATE] EQ 4M
0077 C. ¢¢[HK1_DMP_CHK_FLG] EQ EXEC
0078 . C. ÿÄÿóÿ×½ªí»»»»³ÍÇ$
0079 C. ¢¢[HK1_DMP_CHK_FLG] EQ NON
0080 . C. RAM ID=NMOG, RAM ID=OP»í¾É¹Ç•ë²ÍOK»»»³ÍÇ$
0081 C.
0082 . C. ***** °É²¼»í¾Ä¹¼°»ÈË-»°Ä÷¿® (¾äµ-ÿÄÿóÿ×½ªé½Ç»»»»¾Ä»»»Ç½ªµ-»»»¾¼í¹Ç»»Ç»»») *****
0083 C. DHUÿä;¼ÿË;Ë¼ÿ½ÿÿí;¼ÿË;Ë»»»Í»µ¹
0084 +. DC 01-22 DHU_MODE_CHNG
0085 BC (02 0a f8)
0086 C. ¢¢[HK1_PKT_FORM_NO] EQ 2
0087 C. ¢¢[HK1_PKT_GEN_TIME] EQ 0.5S
0088 C. ¢¢[HK1_S_TLM_BIT_RATE] EQ 32k
0089 C. ¢¢[HK1_X_TLM_BIT_RATE] EQ 4M
0090 C.
0091 . C. *****
0092 C. TI-CMD SET (OPOG STOP/COPY/START)
0093 C. *****
0094 C.
0095 . C. NOTICE ;$ OPOG UPLOAD»-Ä÷¿®»NG»í¾É¹Ç;¿°É²¼»ÍTI-CMDÄ÷¿®»í¾Ä¹Ö»»»È»»»»»»»È;£
```


(a) Spacecraft Operation Procedure (real-commands)

```
main-815 2024-09-17 13:51:59 315 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSÝÁÝSÝÁÝ-¼Ä»Û;ä
0005 C.
0006 C. ÝÀÝß;¼Ý³ÝÐÝÓÝÉÄ÷ç®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Äí;ËçµÄñ•µ°Ë>Í×ÄÇñÍÝçÝÁÝ×Ýí;¼ÝÉ;ËËèµ•ííË;ËËÈ¼°ÇÔñ•ñç¼í¹çñí;çÄ®, ùñ¹ñèñÐñÇÄ÷ç®ñ•ñËñññ³ñÈ;£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. XÁ÷ç®µ;ON
0016 C. *****
0017 C. ç¨ °ËÄ, í×ËÝñÄLOSñÐñÇñí»p´Ôñò¹íí,ñ•;çÉÔÍ×ñËXÄÓONñí¹ÔñËñíñËñññ³ñÈ;£
0018 C.
0019 +. DC 03-B4 TCIA_XPA_ON/HI
0020 M. WAIT_SEC 1
0021 + DC 03-84 TCIA_XMOD_ON
0022 M. WAIT_SEC 1
0023 + DC 03-95 TCIA_XMOD_QPSK
0024 C. çç [HK1_XPA_ON/OFF] EQ ON
0025 C. çç [HK1_XPA_PWR_HI/LO] EQ HI
0026 C. çç [HK1_XMOD_ON/OFF] EQ ON
0027 C. çç [HK1_XMOD_QPSK/PM] EQ QPSK
0028 C.
0029 . C. XÝÐÝÓÝÉÝíÝÁÝ-¾ÔÄÖñ-°ÄÄèñ•ñç;ç°Ë²¼ñí°ËÄ,¼è½çñò¼Ä¹Ôñ¹ñÈ;£
0030 C.
0031 . C. *****
0032 C. DR PT1 Äí¼í°ËÄ,
0033 C. *****
0034 C. ç¨ RESTART;ËPT1;Ëñ•ñç¼ñ¼í¹çñí;ç°Ë²¼ñí¼Ä¹Ôññ°;çDCBC-150ñØçËèñà;£
0035 C.
0036 . C. ;ãPT1°ËÄ,³«»í;ä
0037 +. DC 01-29 DHU_S/X_VC4_OFF
0038 + DC 06-C8 DR_PT1_REP_SEL
0039 BC (01 00)
0040 + DC 06-B3 DR_REP_START
0041 + DC 01-32 DHU_X_VC4_ON
0042 C. çç [HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ô,;¼Ú)
0043 C. çç [HK1_REP_STA/STP] EQ START (¼Ä¹Ô,;¼Ú)
0044 C. çç [HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô,;¼Ú)
0045 C.
0046 . C. ;ãÝçÝóÝËÝËÄÜÄØ;ËÄ•Ä°²óÈò;Ë,ãñí°ËÄ,°Ë³«;ä
0047 +. DC 06-B3 DR_REP_START
0048 + DC 01-32 DHU_X_VC4_ON
0049 C. çç [HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ô,;¼Ú)
0050 C. çç [HK1_REP_STA/STP] EQ START (¼Ä¹Ô,;¼Ú)
0051 C. çç [HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô,;¼Ú)
0052 C.
0053 C.
0054 . C. PT1°ËÄ,ñ-¼«Ë°Äã»ññ•ñç,ã;ç°Ë²¼ñò¼Ä¹Ôñ¹ñÈ;£
0055 C. ÝçÝóÝËÝËÄÜÄØñÄÄ•Ä°²óÈòñ-¶áñ¼í¹çñí´°í»ñ¹ñèñÐñÇÄñÄ;£
0056 C.
0057 . C. *****
0058 C. DR PT2 Äí¼í°ËÄ,
0059 C. *****
0060 C. ç¨ RESTART;ËPT2;Ëñ•ñç¼ñ¼í¹çñí;ç°Ë²¼ñí¼Ä¹Ôññ°;çDCBC-151ñØçËèñà;£
0061 C.
0062 . C. ;ãPT2°ËÄ,³«»í;ä
0063 +. DC 01-29 DHU_S/X_VC4_OFF
0064 + DC 06-C8 DR_PT2_REP_SEL
0065 BC (02 00)
0066 + DC 06-B3 DR_REP_START
0067 + DC 01-32 DHU_X_VC4_ON
0068 C. çç [HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ô,;¼Ú)
0069 C. çç [HK1_REP_STA/STP] EQ START (¼Ä¹Ô,;¼Ú)
0070 C. çç [HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô,;¼Ú)
0071 C.
0072 . C. ;ãÝçÝóÝËÝËÄÜÄØ;ËÄ•Ä°²óÈò;Ë,ãñí°ËÄ,°Ë³«;ä
0073 +. DC 06-B3 DR_REP_START
0074 + DC 01-32 DHU_X_VC4_ON
0075 C. çç [HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ô,;¼Ú)
0076 C. çç [HK1_REP_STA/STP] EQ START (¼Ä¹Ô,;¼Ú)
0077 C. çç [HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ô,;¼Ú)
0078 C.
0079 . C. *****
0080 C. DR°ËÄ,Äã»ñ;çXÁ÷ç®µ;OFF
0081 C. *****
0082 C.
0083 . C. ;ãDR°ËÄ,Äã»ñ;ä
0084 +. DC 06-B4 DR_REP_STOP
0085 + DC 01-29 DHU_S/X_VC4_OFF
0086 C. çç [HK1_REP_STA/STP] EQ STOP
0087 C. çç [HK1_S_VC4_ON/OFF] EQ OFF
0088 C. çç [HK1_X_VC4_ON/OFF] EQ OFF
0089 C.
0090 . C. ;ãXÁ÷ç®µ;OFF;ä
0091 +. DC 03-85 TCIA_XMOD_OFF
0092 M. WAIT_SEC 1
0093 + DC 03-B5 TCIA_XPA_OFF
0094 C. çç [HK1_XMOD_ON/OFF] EQ OFF
0095 C. çç [HK1_XPA_ON/OFF] 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 STATUS] ADRS = 070000 [ ]
0110 C.
0111 C.
0112 C. Change the TLMFormatNo for the AOCs Dump Format
0113 +. DC 01-22 DHU_MODE_CHNG
0114 BC (04 0b f8)
0115 C.
0116 C. Wait for AOCSDUMP to end
0117 C.
0118 . C. Check the dump memory
0119 C.
0120 C. Result = OK [ ]
0121 C.
0122 +. DC 01-22 DHU_MODE_CHNG
0123 BC (02 0a f8)
0124 C.
0125 C. <A_***>[TLM STS] FMT = 2 [ ]
0126 C.
0127 +. DC 02-8E AOCU_ORB_UPD
0128 . C.
0129 . C. ***** AOCs Commands (Orbital Element Update) *****
0130 C. Update the orbital element
0131 +. DC 02-50 AOCU_ORB_PRPGT_START
0132 BC (16)
0133 + DC 02-8E AOCU_ORB_UPD
0134 C.
0135 C. <A_ORB>[ORBIT] EPC = 5202089.1 +- 1.0 (s) [ ]
0136 C.
0137 . C.
0138 C. Change EIS mode to MANU
0139 . C. Change mode to Manual
0140 +. DC 07-FC EIS_MODE_MANU
0141 BC (21 02)
0142 C. Confirm EIS_MODE = MANU
0143 . C.
0144 C. Change EIS mode to STBY
0145 +. DC 07-FC EIS_MODE_STBY
0146 BC (21 01)
0147 C. Wait for 10 sec / Confirm EIS_MODE = STBY
0148 C. The reset command must be send twice, no pause - Critical command
0149 +. DC 07-FC EIS_ICU_SOFT_RESET
0150 BC (f5)
0151 + DC 07-FC EIS_ICU_SOFT_RESET
0152 BC (f5)
0153 . C. Confirm that the ICU is in BOOT mode (EIS_MODE = BOOT)
0154 C. Copy ICU software from EEPROM 0 to ICU RAM
0155 +. DC 07-FC EIS_COPY_ICU_SW0
0156 BC (2b 00)
0157 C. Confirm EIS_CMD_BC1/_BC2 = 0x 2B 00
0158 C.
0159 C. Change EIS mode to STBY
0160 +. DC 07-FC EIS_MODE_STBY
0161 BC (21 01)
0162 C. Wait for 10 sec / Confirm EIS_MODE = STBY
0163 C. Confirm ICU_SW_MAIN_ID=0x02, ICU_SW_SUB_ID=0x04
0164 C.
0165 +. DC 07-F0 MDP_STS_EIS_ERR_CLR
0166 BC (f0)
0167 C. Confirm MDP_STS_EIS_ERR = OK
0168 +. DC 07-FC EIS_ICU_MON_DIS
0169 BC (25 02)
0170 C. Confirm EIS_ICU_MON_FLG = DIS
0171 C.
0172 . C. ### STS_CHK OFF ###
0173 +. DC 07-FC EIS_DUMP_HKTBL
0174 BC (0f 07 00 00 00 02 80)
0175 C. Error happens in comparison at ISAS EGSE.
0176 . C. Register dumped data to ISAS EGSE as default HK memory data
0177 C. Upload RAM-sub ID= 881 (EIS_HKTBL)
0178 . S. RAM ram-881:EIS_HKTBL
0179 ()
0180 C.
0181 +. DC 07-FC EIS_DUMP_HKTBL
0182 BC (0f 07 00 00 00 02 80)
0183 . C. OK
0184 C. Error must not happen.
0185 . C. ### STS_CHK ON ###
0186 C.
0187 +. DC 07-FC EIS_ICU_MON_ENA
0188 BC (25 01)
0189 C. Confirm EIS_ICU_MON_FLG = ENA
0190 C.
0191 . C. Load ICU MHC parameters
0192 +. DC 07-FC EIS_SET_MHC_OPEPAR
0193 BC (87 02 58 00 01 e0 70 00)

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0194 BC (00 80 fc 41)
0195 BC (33 14 6d 00 96 02 bc 06)
0196 BC (f4 01 27)
0197 C. Confirm parameters 0x 00 96 with EIS Java-QL in ISAS 2F operation room
0198 C.
0199 . C. Enable mode change command
0200 +. DC 07-FC EIS_MODE_CHG_ENA
0201 BC (20)
0202 C. Confirm EIS_MODE_CHG_FLG = ENA
0203 C. Change EIS mode to MANU
0204 . C. Change mode to Manual
0205 +. DC 07-FC EIS_MODE_MANU
0206 BC (21 02)
0207 C. Confirm EIS_MODE = MANU
0208 . C.
0209 +. DC 07-FC EIS_CAM_IDLE
0210 BC (41)
0211 C. Confirm EIS_CAM_VLD_FLG = VLD
0212 C.
0213 C. MHC in PROM mode
0214 +. DC 07-FC EIS_MHC_WATDOG_ENA
0215 BC (76 c0 a9 00 02 00 01)
0216 C.
0217 . C. LOAD MHC code from EEPROM bank 3d to MHC RAM
0218 +. DC 07-FC EIS_LOAD_MHC_SOFT3
0219 BC (2c 03)
0220 C. New: Confirm EIS_MHC_LOAD_STS = LOAD
0221 . C. It takes 2 min to complete.
0222 C. New: Confirm EIS_MHC_LOAD_STS = IDLE
0223 C.
0224 +. DC 07-FC EIS_DUMP_MHCRAM
0225 BC (0a 07 00 00 00 80 00)
0226 C. New: Confirm EIS_MEM_DUMP_STS = DUMP
0227 . C. It takes 2 min to complete.
0228 C. New: Confirm EIS_MEM_DUMP_STS = IDLE
0229 C.
0230 +. DC 07-FC EIS_MHC_MODE_RAM
0231 BC (6b 88 11 00 02 ff ff)
0232 C. Wait 10sec: Wait time is required after EIS_MHC_MODE_RAM.
0233 +. DC 07-FC EIS_MHC_ABORT
0234 BC (51 e8 81)
0235 C.
0236 C. Confirm EIS_MHC_VLD_FLG = VLD, EIS_MHC_MEM_MODE = RAM
0237 C.
0238 +. DC 07-FC EIS_CLR_ICU_ERR
0239 BC (23)
0240 C. Confirm EIS_MHC_IF_ERR= 0x0000
0241 C.
0242 C. Confirm EIS_CAM_IF_ERR= 0x0000
0243 C.
0244 +. DC 07-FC EIS_MHC_WATDOG_ENA
0245 BC (76 c0 a9 00 02 00 01)
0246 C.
0247 C. Config MHC heaters - Default setting -
0248 C.
0249 + DC 07-FC EIS_UPLOAD_MHCPAR
0250 BC (6f c0 95 00 04 21 2e 24)
0251 BC (92)
0252 + DC 07-FC EIS_UPLOAD_MHCPAR
0253 BC (6f c0 95 00 04 c9 af 36)
0254 BC (db)
0255 + DC 07-FC EIS_UPLOAD_MHCPAR
0256 BC (6f c0 95 00 04 a9 30 24)
0257 BC (92)
0258 + DC 07-FC EIS_UPLOAD_MHCPAR
0259 BC (6f c0 95 00 04 41 b1 36)
0260 BC (db)
0261 + DC 07-FC EIS_UPLOAD_MHCPAR
0262 BC (6f c0 95 00 04 81 b2 12)
0263 BC (49)
0264 + DC 07-FC EIS_UPLOAD_MHCPAR
0265 BC (6f c0 95 00 04 69 33 24)
0266 BC (92)
0267 + DC 07-FC EIS_UPLOAD_MHCPAR
0268 BC (6f c0 95 00 04 e1 b4 12)
0269 BC (49)
0270 + DC 07-FC EIS_UPLOAD_MHCPAR
0271 BC (6f c0 95 00 04 09 35 1b)
0272 BC (6d)
0273 + DC 07-FC EIS_UPLOAD_MHCPAR
0274 BC (6f c0 95 00 04 c9 36 09)
0275 BC (24)
0276 + DC 07-FC EIS_UPLOAD_MHCPAR
0277 BC (6f c0 95 00 04 21 b7 09)
0278 BC (24)
0279 + DC 07-FC EIS_UPLOAD_MHCPAR
0280 BC (6f c0 95 00 04 21 b8 24)
0281 BC (92)
0282 + DC 07-FC EIS_UPLOAD_MHCPAR
0283 BC (6f c0 95 00 04 c9 39 00)
0284 BC (00)
0285 C. Set heaters duty cycle
0286 C.
0287 +. DC 07-FC EIS_UPLOAD_MHCPAR
0288 BC (6f c0 95 00 04 09 3a 03)
0289 BC (e8)
0290 C. Dump MHC parameter table
0291 +. DC 07-FC EIS_DUMP_MHCPAR

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0292 BC (0c 07 02 00 00 00 cc)
0293 +. DC 07-FC EIS_OPE_HTR_ALL_ON
0294 BC (6a 28 8d 00 02 0f ff)
0295 C. Confirm EIS_OPE_HTR##_PWR = sometimes ON
0296 C. New: Enable MHC safe mode (auto-safe)
0297 +. DC 07-FC EIS_MHC_SAFE_ENA
0298 BC (5f c0 9a 00 02 00 01)
0299 C. The next daily plan MUST start with mhc_init, default_htrs1_6, default_htrs7_12, and trace_dump
0300 C.
0301 . C. ***** MDP `ûÃÎñÎ»ö¼ÝñËÃÐñ¹ñèDCBC•x²è *****
0302 . C. (¼Å°ì¥Ó¥Ã¥Ë¥Ð¥Ë¥Á¥ç¥èñË¼ñ¼Å»Ûñ¹ñè)
0303 . S. DC-BC dcbc-402:DCBC
0304 (MDP_known_event)
0305 C.
0306 C.
0307 . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑñË´Øñ¹ñèDCBC•x²è *****
0308 . S. DC-BC dcbc-153:DCBC
0309 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0310 C.
0311 C.
0312 . C. ;ãLOS¥Á¥S¥Ã¥´¼Å»Û;ã
0313 C.
0314 . C. ***** LOS *****
0315 C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-816 2024-09-17 13:51:59 199 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY~¼Á»Ü;ä
0005 C.
0006 C. YÁY$;¼Y³YD¥óYÉÁ÷¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Ë¼¿¼Áñ•µ°È»Í×ÁÇ¼ÍYçYÁY×Yí;¼YÉ;ËËè¼µ•íË;Ë¼È¼°ÇÒ¼•¼¿¼¹Ç¼Í;çÁ®, ù¼¹¼è¼D¼ÇÁ÷¿®¼¼•¼È¼¼¼¼³¼È;£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 C.
0015 C. ***** XRT START *****
0016 C.
0017 +. DC 07-F0 MDP_XRT_CTRL_MANU
0018 BC (c1)
0019 +. DC 07-F0 MDP_XRT_CTRL_MANU
0020 BC (c1)
0021 + DC 07-F0 MDP_XRT_MODE_STBY
0022 BC (c3)
0023 . C. ----- Success Verify ? OK / NG____
0024 C.
0025 C. XRT Obs. Table Upload
0026 . S. RAM ram-291:MDP_OBS_X
0027 ()
0028 C.
0029 +. DC 07-F0 MDP_DUMP_XRTTBL
0030 BC (84 07 00 00 00 3a d4)
0031 . C. ----- Comparison Check ? OK / ERR ____
0032 C.
0033 C.
0034 +. DC 07-F0 MDP_XRT_ROI_SET
0035 BC (cd 01 b1 b1 04 04)
0036 + DC 07-F0 MDP_XRT_ROI_SET
0037 BC (cd 02 b1 b1 08 08)
0038 + DC 07-F0 MDP_XRT_ROI_SET
0039 BC (cd 03 b1 b1 08 08)
0040 + DC 07-F0 MDP_XRT_ROI_SET
0041 BC (cd 04 b1 b1 06 06)
0042 + DC 07-F0 MDP_XRT_ROI_SET
0043 BC (cd 05 85 83 06 06)
0044 + DC 07-F0 MDP_XRT_ROI_SET
0045 BC (cd 06 85 83 06 06)
0046 + DC 07-F0 MDP_XRT_ROI_SET
0047 BC (cd 07 80 80 20 20)
0048 + DC 07-F0 MDP_XRT_ROI_SET
0049 BC (cd 08 80 80 20 08)
0050 + DC 07-F0 MDP_XRT_ROI_SET
0051 BC (cd 09 80 80 08 20)
0052 + DC 07-F0 MDP_XRT_ROI_SET
0053 BC (cd 0a 80 80 08 08)
0054 + DC 07-F0 MDP_XRT_ROI_SET
0055 BC (cd 0b 85 83 08 08)
0056 + DC 07-F0 MDP_XRT_ROI_SET
0057 BC (cd 0f 80 80 06 06)
0058 + DC 07-F0 MDP_XRT_ROI_SET
0059 BC (cd 10 80 80 08 08)
0060 + DC 07-F0 MDP_XRT_FLD_ENA
0061 BC (d8)
0062 + DC 07-F0 MDP_XRT_FLRCTRL_ENA
0063 BC (c8)
0064 + DC 07-F0 MDP_XRT_ARS_DIS
0065 BC (d5)
0066 + DC 07-F0 MDP_XRT_AEC_RESET
0067 BC (d0)
0068 + DC 07-F0 MDP_XRT_FLD_RESET
0069 BC (da)
0070 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0071 BC (c4 08)
0072 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0073 BC (c5 0e)
0074 . C. ----- Success Verify ? OK / NG ____
0075 C.
0076 C.
0077 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0078 C.
0079 +. DC 07-F0 MDP_XRT_MODE_OBSV
0080 BC (c2)
0081 +. TI 2024-09-17 11:58:02.0
0082 DC 07-F0 MDP_XRT_MODE_OBSV
0083 BC (c2)
0084 . C. ----- Success Verify ? OK / NG ____
0085 C.
0086 C. ***** XRT END *****
0087 C. Change EIS mode to MANU
0088 . C. Change mode to Manual
0089 +. DC 07-FC EIS_MODE_MANU
0090 BC (21 02)
0091 C. Confirm EIS_MODE = MANU
0092 . C.
0093 +. DC 07-FC EIS_CAM_IDLE
0094 BC (41)
0095 C. Confirm EIS_CAM_VLD_FLG = VLD
```

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0096 C.
0097 C. MHC in PROM mode
0098 +. DC 07-FC EIS_MHC_WATDOG_ENA
0099 BC (76 c0 a9 00 02 00 01)
0100 C.
0101 . C. LOAD MHC code from EEPROM bank 3d to MHC RAM
0102 +. DC 07-FC EIS_LOAD_MHC_SOFT3
0103 BC (2c 03)
0104 C. New: Confirm EIS_MHC_LOAD_STS = LOAD
0105 . C. It takes 2 min to complete.
0106 C. New: Confirm EIS_MHC_LOAD_STS = IDLE
0107 C.
0108 +. DC 07-FC EIS_DUMP_MHCRAM
0109 BC (0a 07 00 00 00 80 00)
0110 C. New: Confirm EIS_MEM_DUMP_STS = DUMP
0111 . C. It takes 2 min to complete.
0112 C. New: Confirm EIS_MEM_DUMP_STS = IDLE
0113 C.
0114 +. DC 07-FC EIS_MHC_MODE_RAM
0115 BC (6b 88 11 00 02 ff ff)
0116 C. Wait 10sec: Wait time is required after EIS_MHC_MODE_RAM.
0117 +. DC 07-FC EIS_MHC_ABORT
0118 BC (51 e8 81)
0119 C.
0120 C. Confirm EIS_MHC_VLD_FLG = VLD, EIS_MHC_MEM_MODE = RAM
0121 C.
0122 +. DC 07-FC EIS_CLR_ICU_ERR
0123 BC (23)
0124 C. Confirm EIS_MHC_IF_ERR= 0x0000
0125 C.
0126 C. Confirm EIS_CAM_IF_ERR= 0x0000
0127 C.
0128 +. DC 07-FC EIS_MHC_WATDOG_ENA
0129 BC (76 c0 a9 00 02 00 01)
0130 C.
0131 C. Config MHC heaters - Default setting -
0132 C.
0133 + DC 07-FC EIS_UPLOAD_MHCPAR
0134 BC (6f c0 95 00 04 21 2e 24)
0135 BC (92)
0136 + DC 07-FC EIS_UPLOAD_MHCPAR
0137 BC (6f c0 95 00 04 c9 af 36)
0138 BC (db)
0139 + DC 07-FC EIS_UPLOAD_MHCPAR
0140 BC (6f c0 95 00 04 a9 30 24)
0141 BC (92)
0142 + DC 07-FC EIS_UPLOAD_MHCPAR
0143 BC (6f c0 95 00 04 41 b1 36)
0144 BC (db)
0145 + DC 07-FC EIS_UPLOAD_MHCPAR
0146 BC (6f c0 95 00 04 81 b2 12)
0147 BC (49)
0148 + DC 07-FC EIS_UPLOAD_MHCPAR
0149 BC (6f c0 95 00 04 69 33 24)
0150 BC (92)
0151 + DC 07-FC EIS_UPLOAD_MHCPAR
0152 BC (6f c0 95 00 04 e1 b4 12)
0153 BC (49)
0154 + DC 07-FC EIS_UPLOAD_MHCPAR
0155 BC (6f c0 95 00 04 09 35 1b)
0156 BC (6d)
0157 + DC 07-FC EIS_UPLOAD_MHCPAR
0158 BC (6f c0 95 00 04 c9 36 09)
0159 BC (24)
0160 + DC 07-FC EIS_UPLOAD_MHCPAR
0161 BC (6f c0 95 00 04 21 b7 09)
0162 BC (24)
0163 + DC 07-FC EIS_UPLOAD_MHCPAR
0164 BC (6f c0 95 00 04 21 b8 24)
0165 BC (92)
0166 + DC 07-FC EIS_UPLOAD_MHCPAR
0167 BC (6f c0 95 00 04 c9 39 00)
0168 BC (00)
0169 C. Set heaters duty cycle
0170 C.
0171 +. DC 07-FC EIS_UPLOAD_MHCPAR
0172 BC (6f c0 95 00 04 09 3a 03)
0173 BC (e8)
0174 C. Dump MHC parameter table
0175 +. DC 07-FC EIS_DUMP_MHCPAR
0176 BC (0c 07 02 00 00 00 cc)
0177 +. DC 07-FC EIS_OPE_HTR_ALL_ON
0178 BC (6a 28 8d 00 02 0f ff)
0179 C. Confirm EIS_OPE_HTR##_PWR = sometimes ON
0180 C. New: Enable MHC safe mode (auto-safe)
0181 +. DC 07-FC EIS_MHC_SAFE_ENA
0182 BC (5f c0 9a 00 02 00 01)
0183 C. The next daily plan MUST start with mhc_init, default_htrs1_6, default_htrs7_12, and trace_dump
0184 C.
0185 . C. ***** MDP 'uÃi#Î»ö¼Ý#ËÄÐ#¹#èDCBC•x²è *****
0186 C. (%ã°i¥Ó¥Ã¥Ë¥Ð¥Ë¥Ä¥ç¥è#È¼¼#¼Ã»Û#¹#é)
0187 . S. DC-BC dcbc-402:DCBC
0188 (MDP_known_event)
0189 C.
0190 C.
0191 . C. ***** ¥Ð¥¹•Ï Daily±¿ÎÑ#Ë'Ø#¹#èDCBC•x²è *****
0192 . S. DC-BC dcbc-153:DCBC
0193 (SPECIAL-CMD_DAILY_OPERATIN_DCB)

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0194 C.
0195 C.
0196 . C. ;ãLOS¥Á¥S¥Ã¥~¼Â»Ü;ä
0197 C.
0198 . C. ***** LOS *****
0199 C.

(a) Spacecraft Operation Procedure (real-commands)

```
main-817 2024-09-17 13:51:59 125 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁYŞYÁY^-¼Ä»Û;ä
0005 C.
0006 C. YÀYß;¼Y³YÐYóYÉÄ÷ç®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;ËçµÄñ•µ°E>Í×ÁÇñÍYçYÁY×Yí;¼YÉ;ËËèµ•ííË;Ëñ¼°ÇÖñ•ñç¼í¹çñí;çÀ®, ùñ¹ñèñÐñÇÄ÷ç®ñ•ñËñññ³ñÈ;£
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. XÁ÷çµ;ON
0016 C. *****
0017 C. ç¨ °EÀ, Í×ËÝñÄLOSñÐñÇñí»p´Öñò¹íí, ñ•; çÉÖÍ×ñËXÁÓONñí¹ÖñËñíñËñññ³ñÈ;£
0018 C.
0019 +. DC 03-B4 TCIA_XPA_ON/HI
0020 M. WAIT_SEC 1
0021 + DC 03-84 TCIA_XMOD_ON
0022 M. WAIT_SEC 1
0023 + DC 03-95 TCIA_XMOD_QPSK
0024 C. çç [HK1_XPA_ON/OFF] EQ ON
0025 C. çç [HK1_XPA_PWR_HI/LO] EQ HI
0026 C. çç [HK1_XMOD_ON/OFF] EQ ON
0027 C. çç [HK1_XMOD_QPSK/PM] EQ QPSK
0028 C.
0029 . C. XÝÐYóYÉYíYÁY^-¾ÔÄÖñ¬°ÄÄèñ•ñç;ñé; ç°Ë²¼ñí°EÀ, ¼è¼çñò¼Ä¹Öñ¹ñè;£
0030 C.
0031 . C. *****
0032 C. DR PT1 Äí¼í°EÄ,
0033 C. *****
0034 C. ç¨ RESTART;ËPT1;Ëñ•ñç¼ññ¼í¹çñí; ç°Ë²¼ñí¼Ä¹Öñ»ñ°; çDCBC-150ñØçËñà;£
0035 C.
0036 . C. ;ãPT1°EÄ, ³«»í;ä
0037 +. DC 01-29 DHU_S/X_VC4_OFF
0038 + DC 06-C8 DR_PT1_REP_SEL
0039 BC (01 00)
0040 + DC 06-B3 DR_REP_START
0041 + DC 01-32 DHU_X_VC4_ON
0042 C. çç [HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ö, ;¼Ú)
0043 C. çç [HK1_REP_STA/STP] EQ START (¼Ä¹Ö, ;¼Ú)
0044 C. çç [HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ö, ;¼Ú)
0045 C.
0046 . C. ;ãYçYóYÉYËÄÙÄØ;ËÄ•Ä°²óÈò;Ë, äñí°EÄ, °E³«;ä
0047 +. DC 06-B3 DR_REP_START
0048 + DC 01-32 DHU_X_VC4_ON
0049 C. çç [HK1_REP_PT_1/2] EQ PT1 (¼Ä¹Ö, ;¼Ú)
0050 C. çç [HK1_REP_STA/STP] EQ START (¼Ä¹Ö, ;¼Ú)
0051 C. çç [HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ö, ;¼Ú)
0052 C.
0053 C.
0054 . C. PT1°EÄ, ñ¬¼«E°Ää»ññ•ñç, ä; ç°Ë²¼ñò¼Ä¹Öñ¹ñè;£
0055 C. YçYóYÉYËÄÙÄØñäÄ•Ä°²óÈòñ¬¾áññ¼í¹çñí´°í»ñ¹ñèñÐñÇÄÖñÄ;£
0056 C.
0057 . C. *****
0058 C. DR PT2 Äí¼í°EÄ,
0059 C. *****
0060 C. ç¨ RESTART;ËPT2;Ëñ•ñç¼ññ¼í¹çñí; ç°Ë²¼ñí¼Ä¹Öñ»ñ°; çDCBC-151ñØçËñà;£
0061 C.
0062 . C. ;ãPT2°EÄ, ³«»í;ä
0063 +. DC 01-29 DHU_S/X_VC4_OFF
0064 + DC 06-C8 DR_PT2_REP_SEL
0065 BC (02 00)
0066 + DC 06-B3 DR_REP_START
0067 + DC 01-32 DHU_X_VC4_ON
0068 C. çç [HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ö, ;¼Ú)
0069 C. çç [HK1_REP_STA/STP] EQ START (¼Ä¹Ö, ;¼Ú)
0070 C. çç [HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ö, ;¼Ú)
0071 C.
0072 . C. ;ãYçYóYÉYËÄÙÄØ;ËÄ•Ä°²óÈò;Ë, äñí°EÄ, °E³«;ä
0073 +. DC 06-B3 DR_REP_START
0074 + DC 01-32 DHU_X_VC4_ON
0075 C. çç [HK1_REP_PT_1/2] EQ PT2 (¼Ä¹Ö, ;¼Ú)
0076 C. çç [HK1_REP_STA/STP] EQ START (¼Ä¹Ö, ;¼Ú)
0077 C. çç [HK1_X_VC4_ON/OFF] EQ ON (¼Ä¹Ö, ;¼Ú)
0078 C.
0079 . C. *****
0080 C. DR°EÄ, Ää»ñ; çXÁ÷çµ;OFF
0081 C. *****
0082 C.
0083 . C. ;ãDR°EÄ, Ää»ñ;ä
0084 +. DC 06-B4 DR_REP_STOP
0085 + DC 01-29 DHU_S/X_VC4_OFF
0086 C. çç [HK1_REP_STA/STP] EQ STOP
0087 C. çç [HK1_S_VC4_ON/OFF] EQ OFF
0088 C. çç [HK1_X_VC4_ON/OFF] EQ OFF
0089 C.
0090 . C. ;ãXÁ÷çµ;OFF;ä
0091 +. DC 03-85 TCIA_XMOD_OFF
0092 M. WAIT_SEC 1
0093 + DC 03-B5 TCIA_XPA_OFF
0094 C. çç [HK1_XMOD_ON/OFF] EQ OFF
0095 C. çç [HK1_XPA_ON/OFF] EQ OFF
```

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0096 C.
0097 C.
0098 C. Initialize the on-board OBSTBL data to all 0xFF
0099 +. DC 07-FC EIS_LOAD_INIT_TBL1
0100 BC (26 01)
0101 C. Confirm EIS_CMD_BC1/_BC2 = 0x 26 01
0102 C.
0103 C. Dump on-board OBSTBL to the ground
0104 +. DC 07-FC EIS_DUMP_OBSTBL
0105 BC (07 07 07 00 00 70 00)
0106 C. Confirm EIS_MEM_DUMP_STS = DUMP
0107 C. Error happens in comparison at ISAS EGSE.
0108 . C. ### Register dumped data to ISAS EGSE as default OBSTBL memory data ###
0109 . C. Confirm the registration of OBSTBL in the ISAS EGSE to the operator.
0110 C.
0111 . C. ***** MDP 'ûÃÎ»ò¼Ý«ËÂÐ»¹«èDCBC•x²è *****
0112 C. (¼â°ìÝÓÝÃÝÈÝÐÝËÝáÝçÝè«È½¼»¼Â»Û»¹«è)
0113 . S. DC-BC dcbc-402:DCBC
0114 (MDP_known_event)
0115 C.
0116 C.
0117 . C. ***** ÝÐÝ¹•Ï Daily±¿Î»«Ë´Ø»¹«èDCBC•x²è *****
0118 . S. DC-BC dcbc-153:DCBC
0119 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0120 C.
0121 C.
0122 . C. ;ãLOSÝÁÝSÝÃÝ´¼Â»Û;ä
0123 C.
0124 . C. ***** LOS *****
0125 C.
```

*** OP Sequence for XRT ***

```

2024/09/17 12:08:54.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2024/09/17 12:08:56.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2024/09/17 12:08:58.0 XRT_FOCUS_POSITION_410_OG [0x19a]
                        XRT_FOCUS_POSITION 4 07-F8 22 fe 97 00
2024/09/17 12:09:00.0 AOCS_Ore-point_Start_1_OG [0x097]
                        AOCU_NM 5 02-76 03 03 ce 01 f3
2024/09/17 12:09:18.0 XRT_FLD_ENA_411_OG [0x19b]
                        MDP_XRT_FLD_ENA 1 07-F0 d8
2024/09/17 12:09:20.0 XRT_FLRCTRL_ENA_412_OG [0x19c]
                        MDP_XRT_FLRCTRL_ENA 1 07-F0 c8
2024/09/17 12:09:22.0 XRT_AEC_RESET_448_OG [0x1c0]
                        MDP_XRT_AEC_RESET 1 07-F0 d0
2024/09/17 12:09:24.0 XRT_ARS_DIS_423_OG [0x1a7]
                        MDP_XRT_ARS_DIS 1 07-F0 d5
2024/09/17 12:09:26.0 XRT_FLD_RESET_434_OG [0x1b2]
                        MDP_XRT_FLD_RESET 1 07-F0 da
2024/09/17 12:11:56.0 XRT_QT_PROG_SET_443_OG [0x1bb]
                        MDP_XRT_QT_PROG_SET 2 07-F0 c4 09
2024/09/17 12:11:58.0 XRT_FL_PROG_SET_439_OG [0x1b7]
                        MDP_XRT_FL_PROG_SET 2 07-F0 c5 0e
2024/09/17 12:12:00.0 XRT_CTRL_AUTO_408_OG [0x198]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2024/09/17 17:59:54.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2024/09/17 17:59:56.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2024/09/17 17:59:58.0 XRT_FOCUS_POSITION_406_OG [0x196]
                        XRT_FOCUS_POSITION 4 07-F8 22 ff aa 00
2024/09/17 18:00:00.0 AOCS_Ore-point_Start_2_OG [0x098]
                        AOCU_NM 5 02-76 00 00 00 00 00
2024/09/17 18:00:18.0 XRT_FLD_DIS_409_OG [0x199]
                        MDP_XRT_FLD_DIS 1 07-F0 d9
2024/09/17 18:00:20.0 XRT_FLRCTRL_DIS_413_OG [0x19d]
                        MDP_XRT_FLRCTRL_DIS 1 07-F0 c9
2024/09/17 18:00:22.0 XRT_ARS_DIS_435_OG [0x1b3]
                        MDP_XRT_ARS_DIS 1 07-F0 d5
2024/09/17 18:02:58.0 XRT_QT_PROG_SET_401_OG [0x191]
                        MDP_XRT_QT_PROG_SET 2 07-F0 c4 06
2024/09/17 18:03:00.0 XRT_CTRL_AUTO_408_OG [0x198]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2024/09/17 18:09:54.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2024/09/17 18:09:56.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2024/09/17 18:09:58.0 XRT_FOCUS_POSITION_410_OG [0x19a]
                        XRT_FOCUS_POSITION 4 07-F8 22 fe 97 00
2024/09/17 18:10:00.0 AOCS_Ore-point_Start_1_OG [0x097]
                        AOCU_NM 5 02-76 03 03 ce 01 f3
2024/09/17 18:10:18.0 XRT_FLD_ENA_411_OG [0x19b]
                        MDP_XRT_FLD_ENA 1 07-F0 d8
2024/09/17 18:10:20.0 XRT_FLRCTRL_ENA_412_OG [0x19c]
                        MDP_XRT_FLRCTRL_ENA 1 07-F0 c8
2024/09/17 18:10:22.0 XRT_AEC_RESET_448_OG [0x1c0]
                        MDP_XRT_AEC_RESET 1 07-F0 d0
2024/09/17 18:10:24.0 XRT_ARS_DIS_423_OG [0x1a7]
                        MDP_XRT_ARS_DIS 1 07-F0 d5
2024/09/17 18:10:26.0 XRT_FLD_RESET_434_OG [0x1b2]
                        MDP_XRT_FLD_RESET 1 07-F0 da
2024/09/17 18:12:56.0 XRT_QT_PROG_SET_443_OG [0x1bb]
                        MDP_XRT_QT_PROG_SET 2 07-F0 c4 09
2024/09/17 18:12:58.0 XRT_FL_PROG_SET_439_OG [0x1b7]
                        MDP_XRT_FL_PROG_SET 2 07-F0 c5 0e
2024/09/17 18:13:00.0 XRT_CTRL_AUTO_408_OG [0x198]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2024/09/18 03:59:54.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2024/09/18 03:59:56.0 XRT_FOCUS_POSITION_406_OG [0x196]
                        XRT_FOCUS_POSITION 4 07-F8 22 ff aa 00
2024/09/18 04:00:00.0 AOCS_Ore-point_Start_2_OG [0x098]
                        AOCU_NM 5 02-76 00 00 00 00 00
2024/09/18 04:00:16.0 XRT_FLD_ENA_411_OG [0x19b]
                        MDP_XRT_FLD_ENA 1 07-F0 d8
2024/09/18 04:00:18.0 XRT_FLRCTRL_ENA_412_OG [0x19c]
                        MDP_XRT_FLRCTRL_ENA 1 07-F0 c8
2024/09/18 04:00:20.0 XRT_AEC_RESET_448_OG [0x1c0]
                        MDP_XRT_AEC_RESET 1 07-F0 d0
2024/09/18 04:00:22.0 XRT_ARS_DIS_423_OG [0x1a7]
                        MDP_XRT_ARS_DIS 1 07-F0 d5
2024/09/18 04:00:24.0 XRT_FLD_RESET_428_OG [0x1ac]
                        MDP_XRT_FLD_RESET 1 07-F0 da
2024/09/18 04:02:56.0 XRT_QT_PROG_SET_440_OG [0x1b8]
                        MDP_XRT_QT_PROG_SET 2 07-F0 c4 0d
2024/09/18 04:02:58.0 XRT_FL_PROG_SET_439_OG [0x1b7]
                        MDP_XRT_FL_PROG_SET 2 07-F0 c5 0e
2024/09/18 04:22:00.0 XRT_Custom_430_OG [0x1ae]
2024/09/18 04:23:00.0 XRT_CTRL_AUTO_424_OG [0x1a8]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2024/09/18 05:19:54.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1

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2024/09/18	05:19:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2024/09/18	05:19:58.0	XRT_FOCUS_POSITION_406_OG [0x196]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa	00
2024/09/18	05:20:18.0	XRT_FLD_DIS_409_OG [0x199]	MDP_XRT_FLD_DIS	1	07-F0	d9	
2024/09/18	05:20:20.0	XRT_FLRCTRL_DIS_413_OG [0x19d]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9	
2024/09/18	05:20:22.0	XRT_ARS_DIS_435_OG [0x1b3]	MDP_XRT_ARS_DIS	1	07-F0	d5	
2024/09/18	05:22:58.0	XRT_QT_PROG_SET_401_OG [0x191]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	06
2024/09/18	05:23:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2024/09/18	05:30:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2024/09/18	05:30:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2024/09/18	05:30:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da	
2024/09/18	05:30:36.0	XRT_PREFLR_STRT_417_OG [0x1a1]	MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2024/09/18	05:33:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2024/09/18	06:18:24.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2024/09/18	06:18:26.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2024/09/18	06:18:28.0	XRT_FOCUS_POSITION_410_OG [0x19a]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97	00
2024/09/18	06:18:30.0	AOCS_ORe-point_Start_1_OG [0x097]	AOCU_NM	5	02-76	03 03 ce 01	f3
2024/09/18	06:18:48.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8	
2024/09/18	06:18:50.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8	
2024/09/18	06:18:52.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0	
2024/09/18	06:18:54.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5	
2024/09/18	06:18:56.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_FLD_RESET	1	07-F0	da	
2024/09/18	06:21:26.0	XRT_QT_PROG_SET_437_OG [0x1b5]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	08
2024/09/18	06:21:28.0	XRT_FL_PROG_SET_439_OG [0x1b7]	MDP_XRT_FL_PROG_SET	2	07-F0	c5	0e
2024/09/18	06:21:30.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2024/09/18	07:11:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2024/09/18	07:11:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2024/09/18	07:11:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da	
2024/09/18	07:11:06.0	XRT_PREFLR_STRT_417_OG [0x1a1]	MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2024/09/18	07:14:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2024/09/18	07:36:30.0	XRT_Custom_430_OG [0x1ae]					
2024/09/18	07:37:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2024/09/18	08:29:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2024/09/18	08:29:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2024/09/18	08:29:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97	00
2024/09/18	08:30:00.0	AOCS_ORe-point_Start_1_OG [0x097]	AOCU_NM	5	02-76	03 03 ce 01	f3
2024/09/18	08:30:18.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8	
2024/09/18	08:30:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8	
2024/09/18	08:30:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0	
2024/09/18	08:30:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5	
2024/09/18	08:30:26.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_FLD_RESET	1	07-F0	da	
2024/09/18	08:32:56.0	XRT_QT_PROG_SET_444_OG [0x1bc]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	12
2024/09/18	08:32:58.0	XRT_FL_PROG_SET_439_OG [0x1b7]	MDP_XRT_FL_PROG_SET	2	07-F0	c5	0e
2024/09/18	08:33:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2024/09/18	08:51:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2024/09/18	08:51:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2024/09/18	08:51:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da	
2024/09/18	08:51:06.0	XRT_PREFLR_STRT_417_OG [0x1a1]	MDP_XRT_PREFLR_STRT	1	07-F0	e8	

2024/09/18	08:54:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2024/09/18	09:13:00.0	XRT_Custom_430_OG [0x1ae]							
2024/09/18	09:14:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2024/09/18	10:30:30.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2024/09/18	10:30:32.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2024/09/18	10:30:34.0	XRT_FLD_RESET_415_OG [0x19f]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2024/09/18	10:30:36.0	XRT_PREFLR_STRT_417_OG [0x1a1]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2024/09/18	10:33:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2024/09/18	10:49:54.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2024/09/18	10:49:56.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2024/09/18	10:49:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2024/09/18	10:50:00.0	AOCS_ORe-point_Start_3_OG [0x099]							
		AOCU_NM	5	02-76	00 b2 0d 01 f3				
2024/09/18	10:50:18.0	XRT_FLD_ENA_411_OG [0x19b]							
		MDP_XRT_FLD_ENA	1	07-F0	d8				
2024/09/18	10:50:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]							
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8				
2024/09/18	10:50:22.0	XRT_AEC_RESET_448_OG [0x1c0]							
		MDP_XRT_AEC_RESET	1	07-F0	d0				
2024/09/18	10:50:24.0	XRT_ARS_DIS_423_OG [0x1a7]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2024/09/18	10:50:26.0	XRT_FLD_RESET_434_OG [0x1b2]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2024/09/18	10:52:56.0	XRT_QT_PROG_SET_438_OG [0x1b6]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 02				
2024/09/18	10:52:58.0	XRT_FL_PROG_SET_439_OG [0x1b7]							
		MDP_XRT_FL_PROG_SET	2	07-F0	c5 0e				
2024/09/18	10:53:00.0	XRT_CTRL_AUTO_408_OG [0x198]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2024/09/18	15:55:30.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2024/09/18	15:55:32.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2024/09/18	15:55:34.0	XRT_FLD_RESET_415_OG [0x19f]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2024/09/18	15:55:36.0	XRT_PREFLR_STRT_417_OG [0x1a1]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2024/09/18	15:58:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2024/09/18	16:08:00.0	XRT_Custom_430_OG [0x1ae]							
2024/09/18	16:09:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2024/09/18	17:30:30.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2024/09/18	17:30:32.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2024/09/18	17:30:34.0	XRT_FLD_RESET_415_OG [0x19f]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2024/09/18	17:30:36.0	XRT_PREFLR_STRT_417_OG [0x1a1]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2024/09/18	17:33:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2024/09/18	17:54:54.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2024/09/18	17:54:56.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2024/09/18	17:54:58.0	XRT_FOCUS_POSITION_406_OG [0x196]							
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00				
2024/09/18	17:55:00.0	AOCS_ORe-point_Start_2_OG [0x098]							
		AOCU_NM	5	02-76	00 00 00 00 00				
2024/09/18	17:55:18.0	XRT_FLD_DIS_409_OG [0x199]							
		MDP_XRT_FLD_DIS	1	07-F0	d9				
2024/09/18	17:55:20.0	XRT_FLRCTRL_DIS_413_OG [0x19d]							
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9				
2024/09/18	17:55:22.0	XRT_ARS_DIS_435_OG [0x1b3]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2024/09/18	17:57:58.0	XRT_QT_PROG_SET_401_OG [0x191]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 06				
2024/09/18	17:58:00.0	XRT_CTRL_AUTO_408_OG [0x198]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2024/09/18	18:04:54.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2024/09/18	18:04:56.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2024/09/18	18:04:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2024/09/18	18:05:00.0	AOCS_ORe-point_Start_1_OG [0x097]							
		AOCU_NM	5	02-76	03 03 ce 01 f3				
2024/09/18	18:05:18.0	XRT_FLD_ENA_411_OG [0x19b]							
		MDP_XRT_FLD_ENA	1	07-F0	d8				
2024/09/18	18:05:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]							
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8				
2024/09/18	18:05:22.0	XRT_AEC_RESET_448_OG [0x1c0]							

2024/09/18	18:05:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_AEC_RESET	1	07-F0	d0
			MDP_XRT_ARS_DIS	1	07-F0	d5
2024/09/18	18:05:26.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_FLD_RESET	1	07-F0	da
2024/09/18	18:07:56.0	XRT_QT_PROG_SET_443_OG [0x1bb]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 09
2024/09/18	18:07:58.0	XRT_FL_PROG_SET_439_OG [0x1b7]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 0e
2024/09/18	18:08:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2024/09/19	03:59:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2024/09/19	03:59:56.0	XRT_FOCUS_POSITION_406_OG [0x196]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2024/09/19	04:00:00.0	AOCs_OrE-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00 00
2024/09/19	04:00:16.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8
2024/09/19	04:00:18.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2024/09/19	04:00:20.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0
2024/09/19	04:00:22.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5
2024/09/19	04:00:24.0	XRT_FLD_RESET_428_OG [0x1ac]	MDP_XRT_FLD_RESET	1	07-F0	da
2024/09/19	04:02:56.0	XRT_QT_PROG_SET_440_OG [0x1b8]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 0d
2024/09/19	04:02:58.0	XRT_FL_PROG_SET_439_OG [0x1b7]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 0e
2024/09/19	04:03:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2024/09/19	04:31:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2024/09/19	04:31:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2024/09/19	04:31:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da
2024/09/19	04:31:36.0	XRT_PREFLR_STRT_417_OG [0x1a1]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2024/09/19	04:34:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2024/09/19	04:55:00.0	XRT_Custom_430_OG [0x1ae]				
2024/09/19	04:56:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2024/09/19	05:19:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2024/09/19	05:19:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2024/09/19	05:19:58.0	XRT_FOCUS_POSITION_406_OG [0x196]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2024/09/19	05:20:18.0	XRT_FLD_DIS_409_OG [0x199]	MDP_XRT_FLD_DIS	1	07-F0	d9
2024/09/19	05:20:20.0	XRT_FLRCTRL_DIS_413_OG [0x19d]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2024/09/19	05:20:22.0	XRT_ARS_DIS_435_OG [0x1b3]	MDP_XRT_ARS_DIS	1	07-F0	d5
2024/09/19	05:22:58.0	XRT_QT_PROG_SET_401_OG [0x191]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 06
2024/09/19	05:23:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2024/09/19	05:48:24.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2024/09/19	05:48:26.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2024/09/19	05:48:28.0	XRT_FOCUS_POSITION_410_OG [0x19a]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2024/09/19	05:48:30.0	AOCs_OrE-point_Start_1_OG [0x097]	AOCU_NM	5	02-76	03 03 ce 01 f3
2024/09/19	05:48:48.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8
2024/09/19	05:48:50.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2024/09/19	05:48:52.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0
2024/09/19	05:48:54.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5
2024/09/19	05:48:56.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_FLD_RESET	1	07-F0	da
2024/09/19	05:51:26.0	XRT_QT_PROG_SET_437_OG [0x1b5]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 08
2024/09/19	05:51:28.0	XRT_FL_PROG_SET_439_OG [0x1b7]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 0e
2024/09/19	05:51:30.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2024/09/19	06:04:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2024/09/19	06:04:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2024/09/19	06:04:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da
2024/09/19	06:04:36.0	XRT_PREFLR_STRT_417_OG [0x1a1]				

2024/09/19	06:07:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
			MDP_XRT_PREFLR_STOP	1	07-F0	e9
2024/09/19	06:32:00.0	XRT_Custom_430_OG [0x1ae]				
2024/09/19	06:33:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2024/09/19	07:45:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2024/09/19	07:45:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2024/09/19	07:45:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da
2024/09/19	07:45:06.0	XRT_PREFLR_STRT_417_OG [0x1a1]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2024/09/19	07:48:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2024/09/19	08:09:30.0	XRT_Custom_430_OG [0x1ae]				
2024/09/19	08:10:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2024/09/19	09:24:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2024/09/19	09:24:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2024/09/19	09:24:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da
2024/09/19	09:24:36.0	XRT_PREFLR_STRT_417_OG [0x1a1]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2024/09/19	09:27:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2024/09/19	09:46:00.0	XRT_Custom_430_OG [0x1ae]				
2024/09/19	09:47:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2024/09/19	10:43:30.5	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2024/09/19	11:18:00.0	AOCS_Or-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00 00