XRT Timeline to be uploaded on 2019/08/27

Period: 2019/08/27 10:15:00 - 2019/08/31 10:25:00

* * * * * **Normal mode** * * * * *

XOB #1BC7: CCD Monitor During Bakeout - G-band 1ms - 1kx1k - Q90 - 1st Quadrant -Al/mesh(2048ms), Al/Poly(4096ms) - w leak image-1ms

Term	Pointing (x, y)	Comment
08/28 21:08:00 - 08/28 21:14:54	Fixed (-528.4, -528.4)	XRT post-bakeout 4-quadrant obs(1/4)

PROG= 06 1-time(s)

Subr= 1 1-time(s) 2.0sec

Seqn= 51 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	1024x1024 (1536, 1536)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	1024x1024 (1536, 1536)	Q=90	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	1ms	Obs	1x1	1024x1024 (1536, 1536)	Q=98	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	1ms	Obs	1x1	1024x1024 (1536, 1536)	Q=98	0	0	2.0sec

Subr= 2 1-time(s) 2.0sec

Seqn= 3 2-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	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Al-poly/Open	Al-poly/Open	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Subr= 3 2-time(s) 2.0sec

Seqn= 34 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	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

XOB #1BC8: CCD Monitor During Bakeout - G-Band 1ms - 1kx1k - Q90 - 2nd Quadrant - Al/mesh (2048ms), Al/Poly (4096ms) - w leak image-1 ms

Term	Pointing (x, y)	Comment
08/28 21:18:00 - 08/28 21:24:54	Fixed (582.4, -528.4)	2/4

PROG= 16 1-time(s)

Subr= 1 1-time(s) 2.0sec

Seqn= 38 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	1024x1024 (512, 1536)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	1024x1024 (512, 1536)	Q=90	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	1ms	Obs	1x1	1024x1024 (512, 1536)	Q=98	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	1ms	Obs	1x1	1024x1024 (512, 1536)	Q=98	0	0	2.0sec

Subr= 2 1-time(s) 2.0sec

Seqn= 3 2-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	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Al-poly/Open	Al-poly/Open	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Subr= 3 2-time(s) 2.0sec

Seqn= 34 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	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

XOB #1BC9: CCD Monitor During Bakeout - G-Band 1ms - 1kx1k - Q90 - 3rd Quadrant - Al/mesh (2048ms), Al/Poly (4096ms) - w leak image-1 ms

Term	Pointing (x, y)	Comment
08/28 21:28:05 - 08/28 21:34:54	Fixed (528.4, 528.4)	3/4

PROG= 03 1-time(s)

Subr= 1 1-time(s) 2.0sec

Seqn= 21 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	1024x1024 (512, 512)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	1024x1024 (512, 512)	Q=90	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	1ms	Obs	1x1	1024x1024 (512, 512)	Q=98	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	1ms	Obs	1x1	1024x1024 (512, 512)	Q=98	0	0	2.0sec

Subr= 2 1-time(s) 2.0sec

Seqn= 3 2-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	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Al-poly/Open	Al-poly/Open	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec

Subr= 3 2-time(s) 2.0sec

Seqn= 34 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	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

XOB #1BCA: CCD Monitor During Bakeout - G-Band 1ms - 1kx1k - Q90 - 4th Quadrant - Al/mesh (2048ms), Al/Poly (4096ms) - w leak image-1 ms

Term	Pointing (x, y)	Comment
08/28 21:38:00 - 08/28 21:44:54	Fixed (-528.4, 528.4)	4/4

PROG= 15 1-time(s)

Subr= 1 1-time(s) 2.0sec

Seqn= 14 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	1024x1024 (1536, 512)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	1024x1024 (1536, 512)	Q=90	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	1ms	Obs	1x1	1024x1024 (1536, 512)	Q=98	0	0	2.0sec
Open/thick-Be	Open/thick-Be	close	Safe	Dark	1ms	Obs	1x1	1024x1024 (1536, 512)	Q=98	0	0	2.0sec

Subr= 2 1-time(s) 2.0sec

Seqn= 3 2-time(s) 2.0sec														
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec		
Al-poly/Open	Al-poly/Open	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec		
Subr= 3 2-time(s) 2.0sec														
Seqn= 34 1-time(s) 2.0sec														
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=90	0	0	2.0sec		
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec		
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval		

XOB #1C56: Synoptic 7 Filter w/ Al-mesh(512/2048/5795), Al-poly(512/5795/11571), Thin-Be(3897/16384/32768) - Thick-Be(65536), Al-poly+Ti-poly(4096/2314

Term	Pointing (x, y)	Comment
08/28 21:48:00 - 08/28 21:54:54	Fixed (0.0, 0.0)	Post bakeout synoptic

PROG= 14 1-time(s)

Subr= 1 1-time(s) 2.0sec

Seqn= 5 1-time(s) 2.0sec														
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec		
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec		
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	8x8	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec		
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	1x1	2048x512 (1024, 1024)	DPCM	0	0	2.0sec		
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	1x1	512x2048 (1024, 1024)	DPCM	0	0	2.0sec		
Seqn= 78 1-time(s) 2.0sec														
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec		
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec		
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	5.66s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec		
Seqn= 91 1-time(s) 2.0sec														
Al-poly/Open	Al-poly/Open	close	Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec		
Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	5.66s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec		
Al-poly/Open	Al-poly/Open	close	Safe	Norm	11.3s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec		
Seqn= 52 1-time(s) 2.0sec														
thin-Be/Open	thin-Be/Open	close	Safe	Norm	2.83s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec		
thin-Be/Open	thin-Be/Open	close	Safe	Norm	16.0s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec		
thin-Be/Open	thin-Be/Open	close	Safe	Norm	32.0s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec		
Seqn= 23 1-time(s) 4.0sec														
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=90	0	0	2.0sec		
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec		

Subr= 2 1-time(s) 2.0sec

Seqn= 46 1-time(s) 2.0sec														
Open/thick-Be	Open/thick-Be	close	Safe	Norm	64.0s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec		
Seqn= 17 1-time(s) 2.0sec														
med-Al/Open	med-Al/Open	close	Safe	Norm	5.66s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec		
med-Al/Open	med-Al/Open	close	Safe	Norm	64.0s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec		
Seqn= 97 1-time(s) 2.0sec														
Al-poly/Ti-poly	Al-poly/thick-Al	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec		
Al-poly/Ti-poly	Al-poly/thick-Al	close	Safe	Norm	22.6s	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 #1AEC: G-Band Alignment with North Pole Q90 2x2 (G-band and VLS=CLS) - 1msec (Al/poly) - 4096msec - 5min cadence - Partial Sun-wNGT

Term	Pointing (x, y)	Comment
08/28 22:10:00 - 08/28 23:54:54	Fixed (0.0, 930.0)	Co-alignment at N-pole

PROG= 11 1-time(s)

Subr= 1 24-time(s) 300.0sec

Seqn= 98 1-time(s) 2.0sec														
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	2x2	2048x1536 (1024, 768)	Q=90	0	0	2.0sec		
Seqn= 63 1-time(s) 2.0sec														
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	2x2	2048x1536 (1024, 768)	Q=90	0	0	2.0sec		
Seqn= 45 1-time(s) 2.0sec														
Al-poly/Open	med-Be/Open	close	Safe	Norm	4.00s	Obs	2x2	2048x1536 (1024, 768)	Q=95	0	0	2.0sec		
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval		

XOB #1AED: G-Band Alignment with East limb Q90 2x2 (G-band and VLS=CLS) - 1msec - (Al/poly) 1443msec - 8 min cadence-wNGT

Term	Pointing (x, y)	Comment
08/29 00:10:05 - 08/29 01:54:54	Fixed (-970.0, 0.0)	Co-alignment at E-limb

PROG= 17 1-time(s)

Subr= 1 15-time(s) 480.0sec

Seqn= 19 1-time(s) 2.0sec														
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	2x2	1536x2048 (1280, 1024)	Q=90	0	0	2.0sec		
Seqn= 43 1-time(s) 2.0sec														
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	2x2	1536x2048 (1280, 1024)	Q=90	0	0	2.0sec		
Seqn= 70 1-time(s) 2.0sec														
Al-poly/Open	med-Be/Open	close	Safe	Norm	1.41s	Obs	2x2	1536x2048 (1280, 1024)	Q=95	0	0	2.0sec		
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval		

XOB #1C44: HOP349 - 3-filter Synoptics (Al-mesh[128/1024/5795], Al-poly[256/4096/8192], thin-Be[2048/16384/32768] with 512x512 G-band+Leak(1064,1048

Term	Pointing (x, y)	Comment
08/29 01:58:00 - 08/29 06:39:54	Fixed (0.0, 0.0)	HOP366, 349 and synoptic

PROG= 10 Inf.-time(s)

Subr= 1 1-time(s) 300.0sec													
Seqn= 88 1-time(s) 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	1.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	5.66s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 50 1-time(s) 2.0sec													
Al-poly/Open	Al-poly/Open	close	Safe	Norm	250ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Al-poly/Open	Al-poly/Open	close	Safe	Norm	8.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 56 1-time(s) 2.0sec													
thin-Be/Open	thin-Be/Open	close	Safe	Norm	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	16.0s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	32.0s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 81 1-time(s) 2.0sec													
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	1024x1024 (1536, 1536)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	1024x1024 (1536, 1536)	Q=95	0	0	2.0sec
Subr= 2 15-time(s) 180.0sec													
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= 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 #1C0C: Synoptic Q95 2x2 - Al/mesh(512/2048/4096) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Al-poly(512/4096/8192

Term	Pointing (x, y)	Comment
08/29 06:43:00 - 08/29 06:49:54	Fixed (0.0, 0.0)	HOP366, 349 and synoptic

PROG= 20 1-time(s)													
Subr= 1 1-time(s) 2.0sec													
Seqn= 5 1-time(s) 2.0sec													
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	4x4	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	8x8	2048x2048 (1024, 1024)	Q=98	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	1x1	2048x512 (1024, 1024)	DPCM	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	1x1	512x2048 (1024, 1024)	DPCM	0	0	2.0sec
Seqn= 12 1-time(s) 2.0sec													
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	500ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	2.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	4.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 82 1-time(s) 2.0sec													
Al-poly/Open	Al-poly/Open	close	Safe	Norm	500ms	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
Al-poly/Open	Al-poly/Open	close	Safe	Norm	8.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 52 1-time(s) 2.0sec													
thin-Be/Open	thin-Be/Open	close	Safe	Norm	2.83s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	16.0s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	32.0s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 23 1-time(s) 2.0sec													
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval	

XOB #1B95: CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al-poly) - G-band (1x1,512x512,1ms) - Leak (1x1,512x512,1ms) - 90s cad (G-band/Leak first)

Term	Pointing (x, y)	Comment
08/29 06:53:00 - 08/29 10:12:00	Track (521.5, 151.3) @ 08/29 06:50:00	HOP383 filament obs

PROG= 09 Inf.-time(s)													
Subr= 1 1-time(s) 2.0sec													
Seqn= 30 1-time(s) 2.0sec													
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	1024x1024 (512, 1536)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	1024x1024 (512, 1536)	Q=95	0	0	2.0sec
Subr= 2 40-time(s) 90.0sec													
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= 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
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval	

* * * * * **Flare mode** * * * * *

XOB #1B8E: Flare - multifilter 26 sec cadence (Be/thin, Be/med, Al/thick), AEC 3(thin-Be AEC2), 384x384 + context (med-Al,thick-Be -384x384 + Al-poly 512

Term	Pointing (x, y)	Comment

08/29 01:58:00 - 08/29 06:39:54 Fixed (0.0, 0.0) HOP366, 349 and synoptic
08/29 06:53:00 - 08/29 10:12:00 Track (521.5, 151.3) @ 08/29 06:50:00 HOP383 filament obs

PROG= 13 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=100 1-time(s) 10.0sec**
    - thin-Be/Open med-Be/Open close Safe Norm 125ms Obs 1x1 384x384 (1024, 1024) Q=95 2 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-Al Open/thick-Be close Safe Norm 1.00s 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** * * * * *

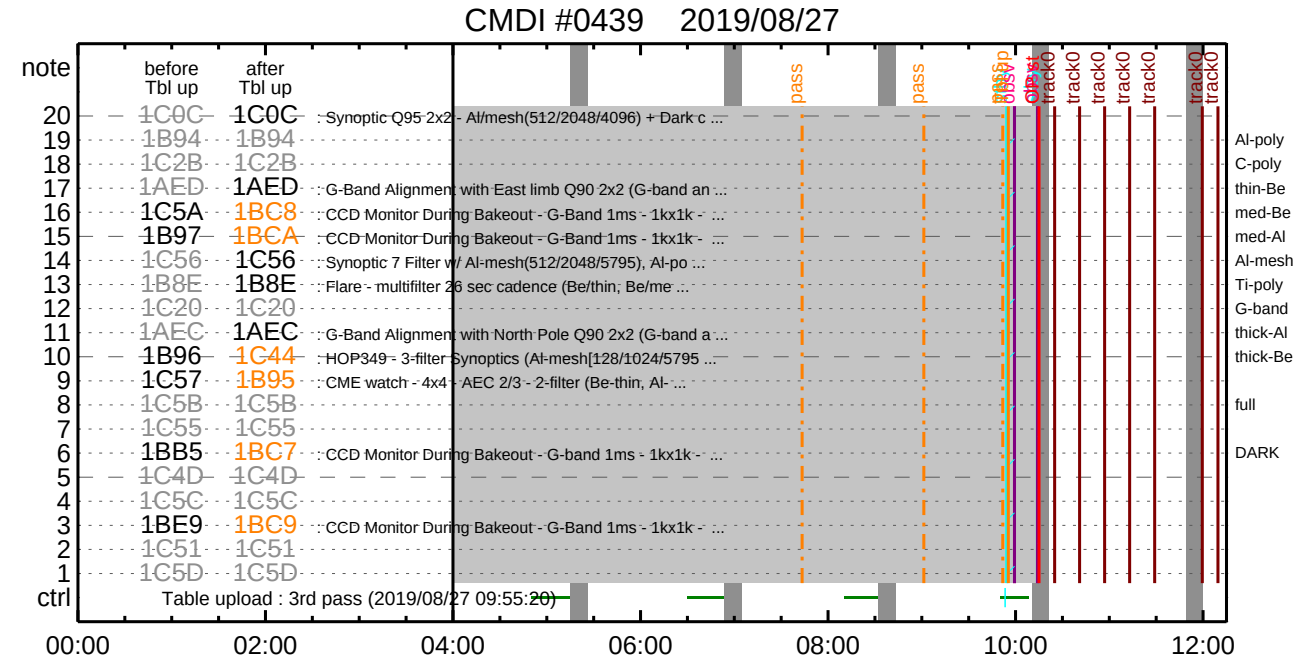
NOT USED

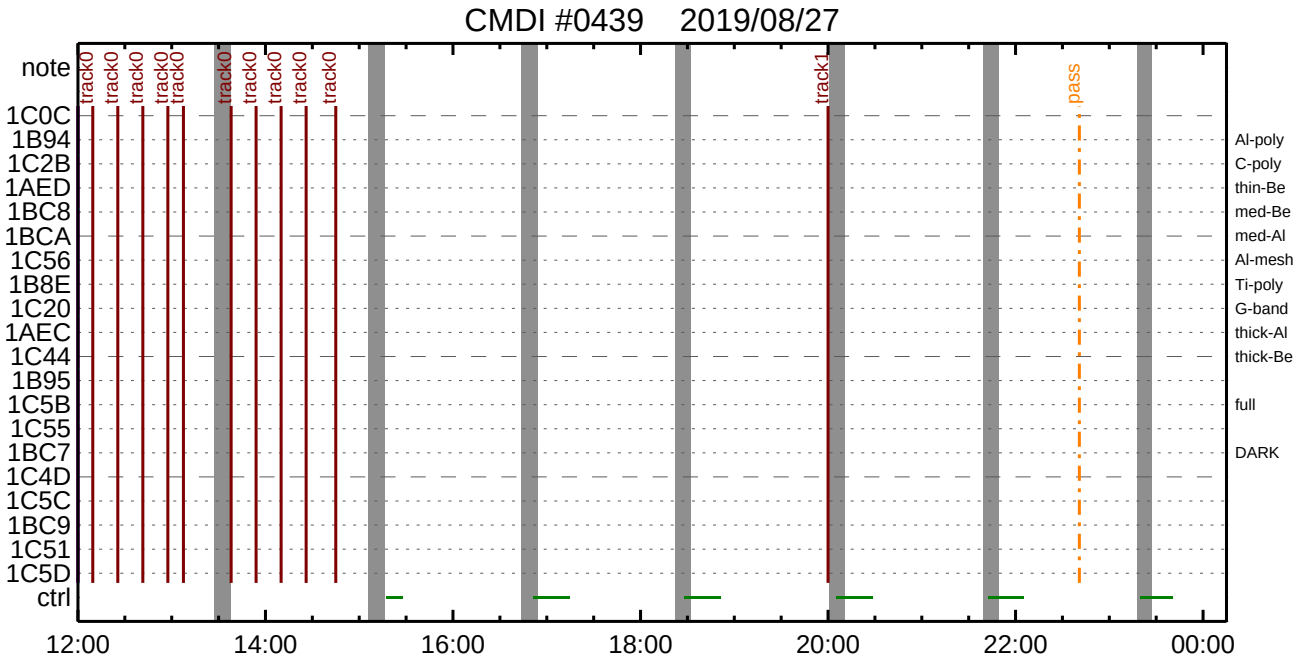
* * * * * **Flare Detection** * * * * *

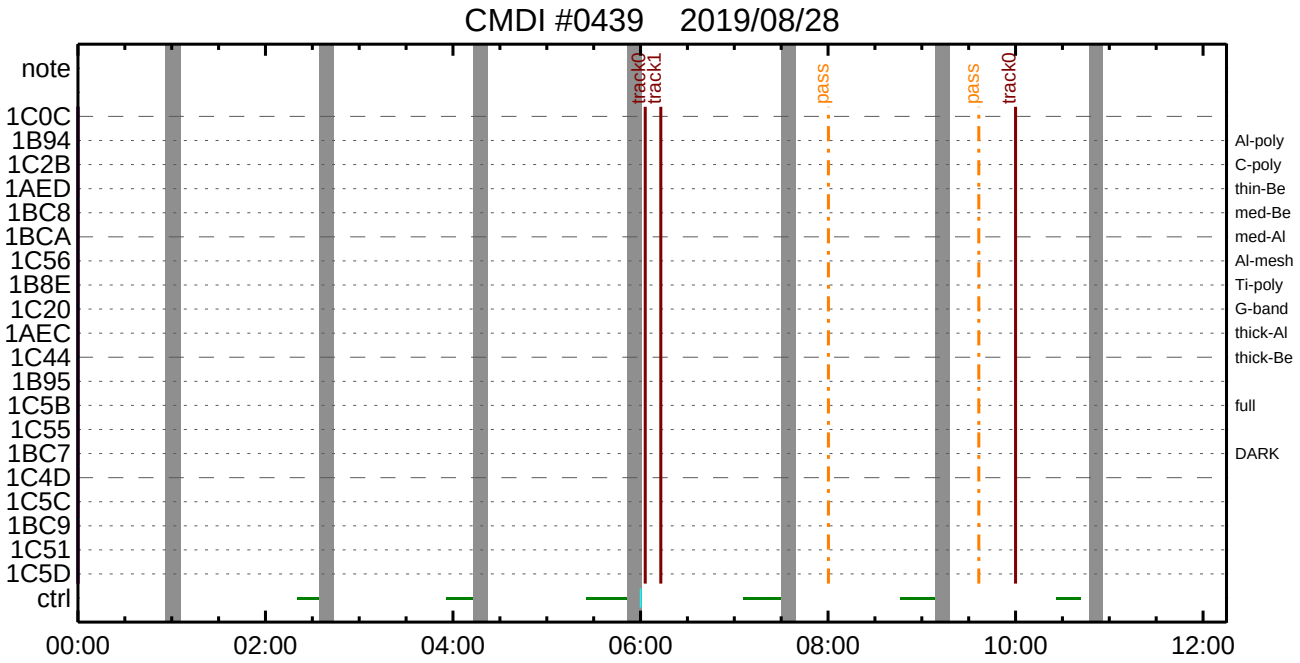
FLD Patrol

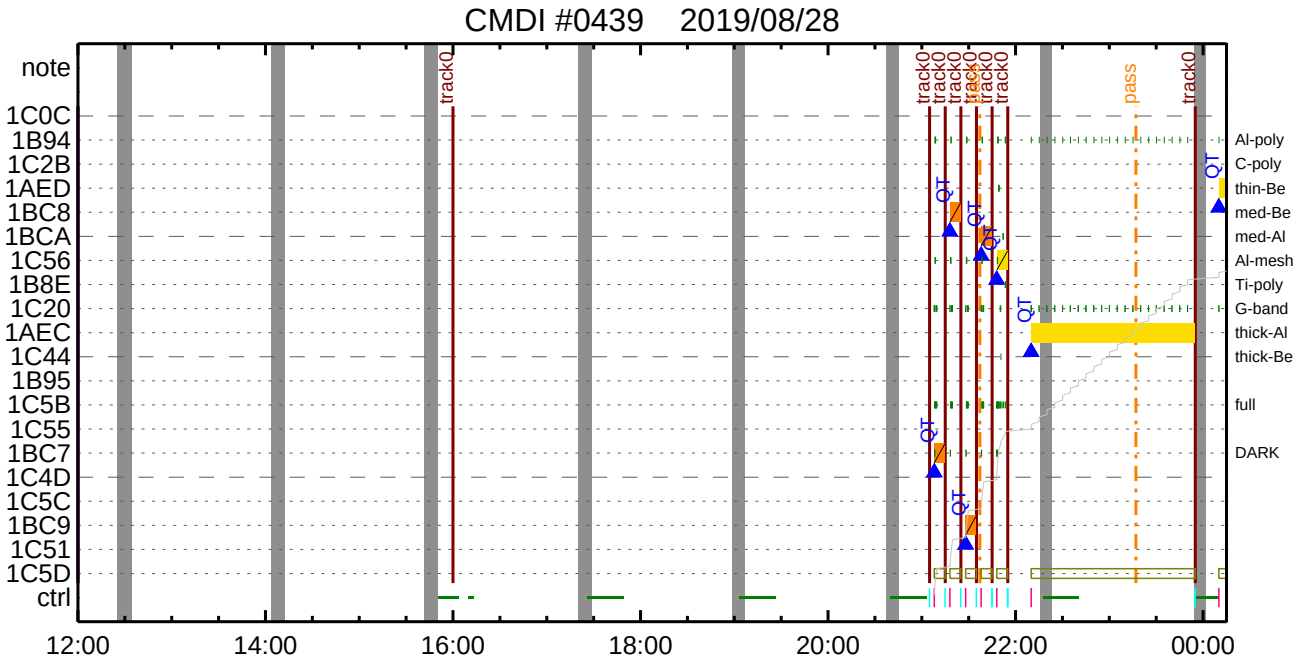
Term	Pointing (x, y)	Comment
08/29 01:55:18 - 08/29 06:40:18	Fixed (0.0, 0.0)	HOP366, 349 and synoptic
08/29 06:50:18 - 08/31 10:25:00	Track (521.5, 151.3) @ 08/29 06:50:00	HOP383 filament obs

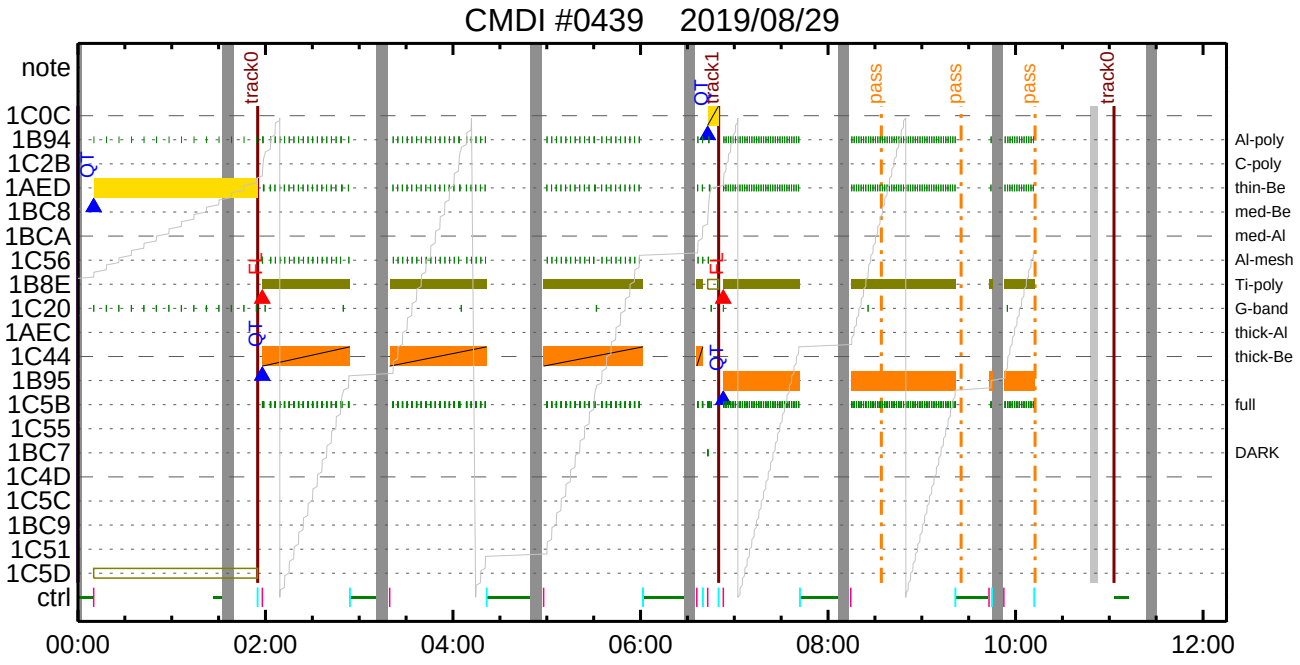
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC	Buffer	Interval
Al-poly/Open	Al-poly/Open	close	Safe	Norm	8ms	Obs	8x8		Q=50			30sec

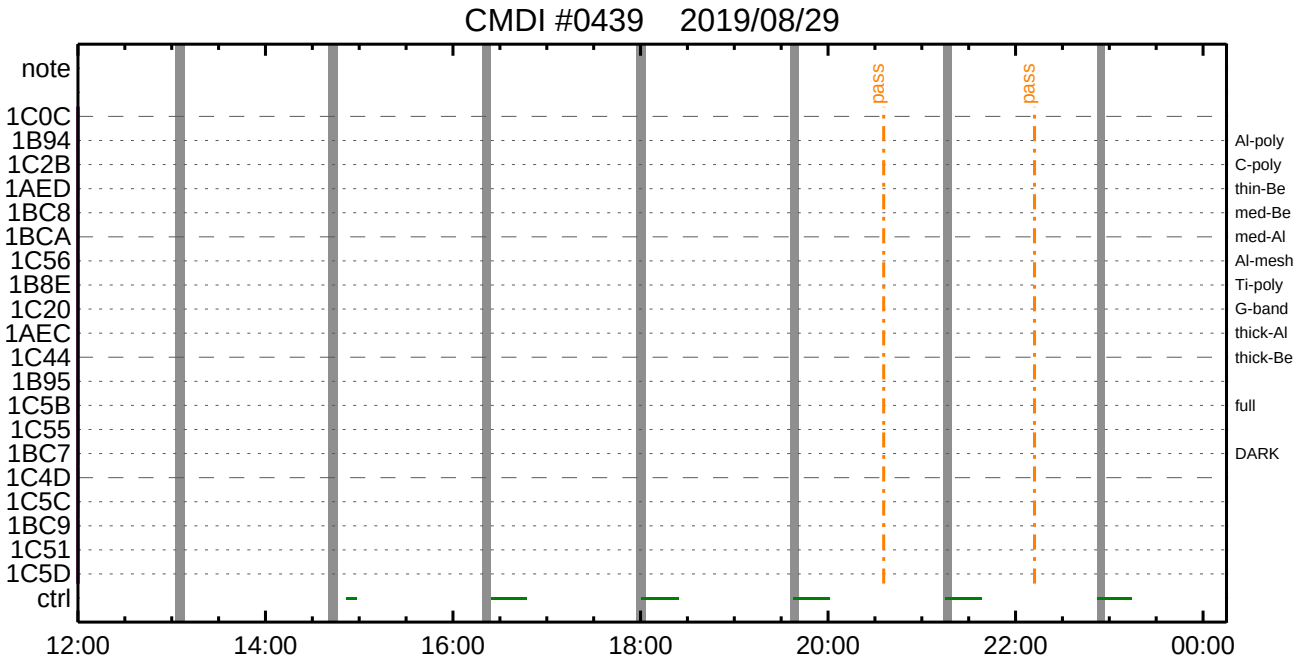

CMDI #0439 2019/08/27
note
before Tbl up
after Tbl up
20 1C0C 1C0C : Synoptic Q95 2x2 - Al/mesh(512/2048/4096) + Dark c ...
19 1B94 1B94
18 1C2B 1C2B
17 1AED 1AED : G-Band Alignment with East limb Q90 2x2 (G-band an ...
16 1C5A 1BC8 : CCD Monitor During Bakeout - G-Band 1ms - 1kx1k - ...
15 1B97 1BCA : CCD Monitor During Bakeout - G-Band 1ms - 1kx1k - ...
14 1C56 1C56 : Synoptic 7 Filter w/ Al-mesh(512/2048/5795), Al-po ...
13 1B8E 1B8E : Flare - multifilter 26 sec cadence (Be/thin, Be/me ...
12 1C20 1C20
11 1AEC 1AEC : G-Band Alignment with North Pole Q90 2x2 (G-band a ...
10 1B96 1C44 : HOP349 - 3-filter Synoptics (Al-mesh[128/1024/5795 ...
9 1C57 1B95 : CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al- ...
8 1C5B 1C5B
7 1C55 1C55
6 1BB5 1BC7 : CCD Monitor During Bakeout - G-band 1ms - 1kx1k - ...
5 1C4D 1C4D
4 1C5C 1C5C
3 1BE9 1BC9 : CCD Monitor During Bakeout - G-Band 1ms - 1kx1k - ...
2 1C51 1C51
1 1C5D 1C5D
ctrl Table upload : 3rd pass (2019/08/27 09:55:20)
pass
pass
track0
track0
track0
track0
track0
00:00
02:00
04:00
06:00
08:00
10:00
12:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK

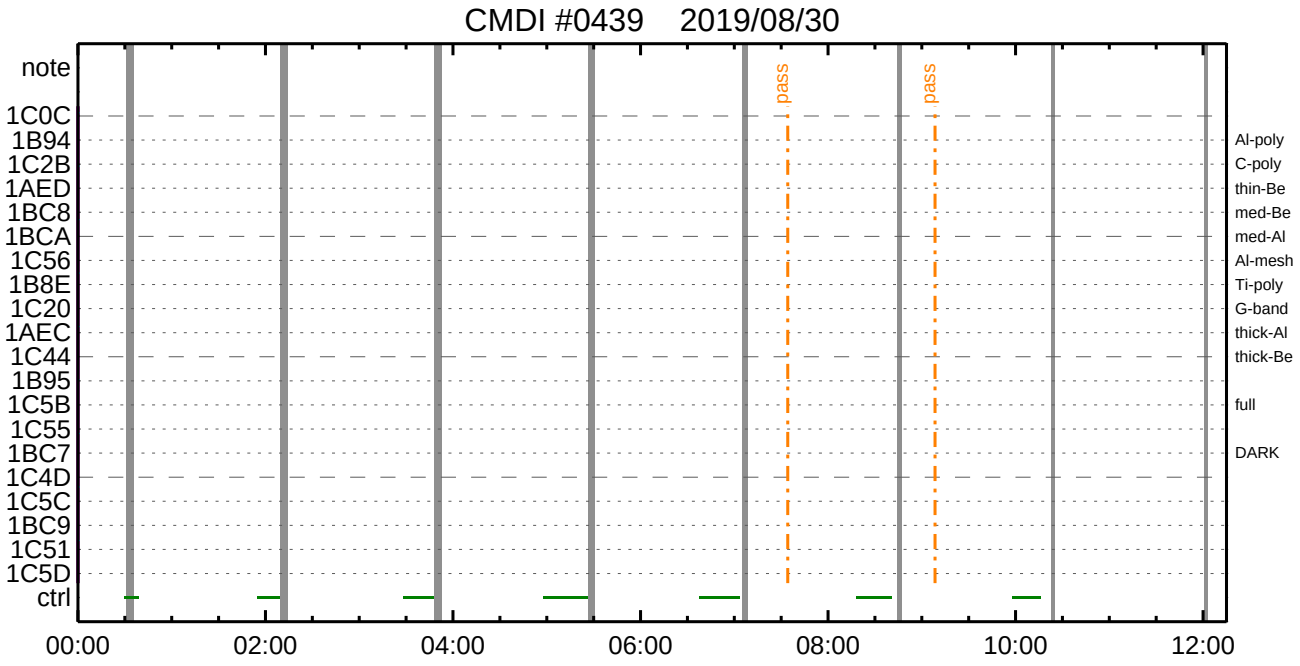

CMDI #0439 2019/08/27
note
track0
track1
pass
1C0C
1B94
1C2B
1AED
1BC8
1BCA
1C56
1B8E
1C20
1AEC
1C44
1B95
1C5B
1C55
1BC7
1C4D
1C5C
1BC9
1C51
1C5D
ctrl
12:00
14:00
16:00
18:00
20:00
22:00
00:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK

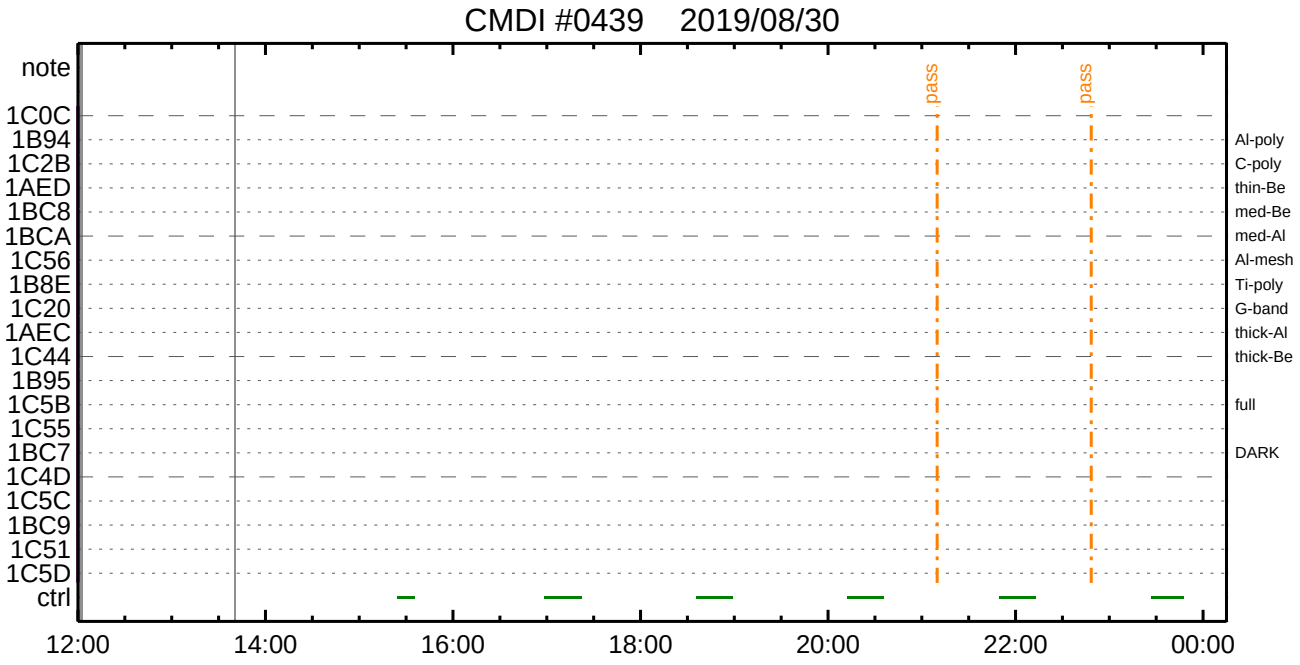

CMDI #0439 2019/08/28
note
track0
track1
pass
pass
track0
1C0C
1B94
1C2B
1AED
1BC8
1BCA
1C56
1B8E
1C20
1AEC
1C44
1B95
1C5B
1C55
1BC7
1C4D
1C5C
1BC9
1C51
1C5D
ctrl
00:00
02:00
04:00
06:00
08:00
10:00
12:00
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK

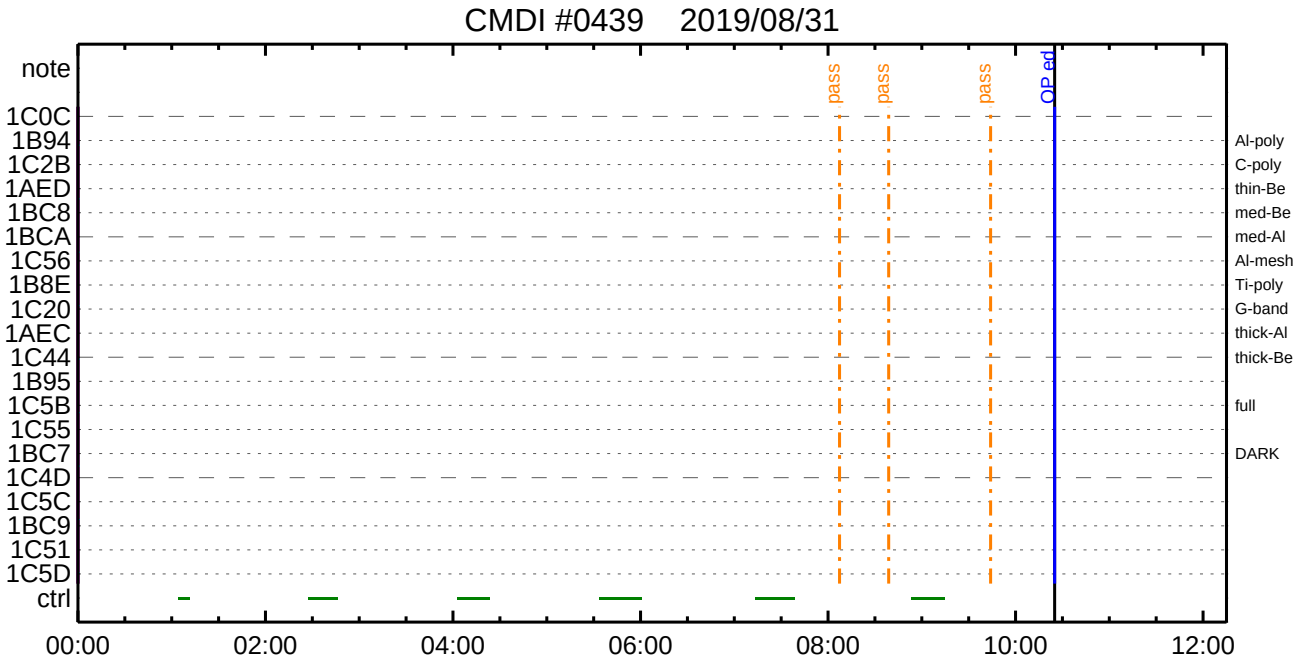

CMDI #0439 2019/08/28
note
1C0C
1B94
1C2B
1AED
1BC8
1BCA
1C56
1B8E
1C20
1AEC
1C44
1B95
1C5B
1C55
1BC7
1C4D
1C5C
1BC9
1C51
1C5D
ctrl
track0
pass
QT
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
12:00
14:00
16:00
18:00
20:00
22:00
00:00

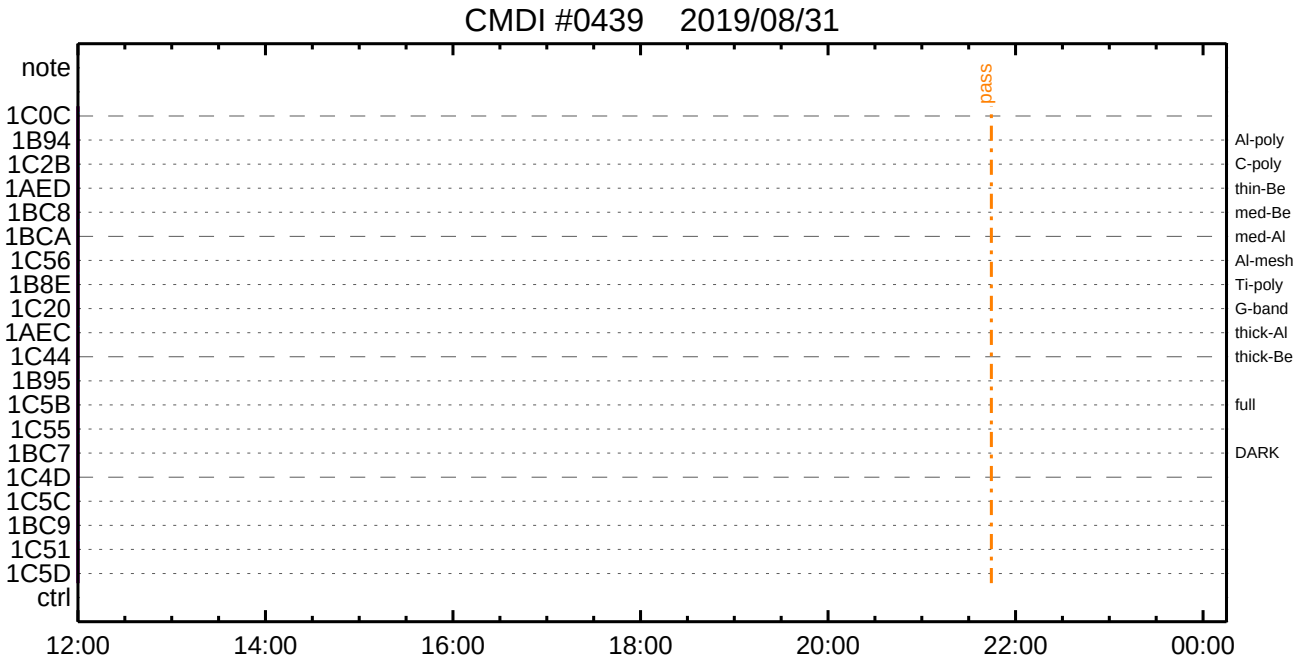

CMDI #0439 2019/08/29
note
1C0C
1B94
1C2B
1AED
1BC8
1BCA
1C56
1B8E
1C20
1AEC
1C44
1B95
1C5B
1C55
1BC7
1C4D
1C5C
1BC9
1C51
1C5D
ctrl
track0
track1
pass
QT
FL
Al-poly
C-poly
thin-Be
med-Be
med-Al
Al-mesh
Ti-poly
G-band
thick-Al
thick-Be
full
DARK
00:00
02:00
04:00
06:00
08:00
10:00
12:00


CMDI #0439 2019/08/29
note
1C0C
1B94
1C2B
1AED
1BC8
1BCA
1C56
1B8E
1C20
1AEC
1C44
1B95
1C5B
1C55
1BC7
1C4D
1C5C
1BC9
1C51
1C5D
ctrl
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 #0439 2019/08/30
note
1C0C
1B94
1C2B
1AED
1BC8
1BCA
1C56
1B8E
1C20
1AEC
1C44
1B95
1C5B
1C55
1BC7
1C4D
1C5C
1BC9
1C51
1C5D
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 #0439 2019/08/30
note
1C0C
1B94
1C2B
1AED
1BC8
1BCA
1C56
1B8E
1C20
1AEC
1C44
1B95
1C5B
1C55
1BC7
1C4D
1C5C
1BC9
1C51
1C5D
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 #0439 2019/08/31
note
1C0C
1B94
1C2B
1AED
1BC8
1BCA
1C56
1B8E
1C20
1AEC
1C44
1B95
1C5B
1C55
1BC7
1C4D
1C5C
1BC9
1C51
1C5D
ctrl
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 #0439 2019/08/31
note
1C0C
1B94
1C2B
1AED
1BC8
1BCA
1C56
1B8E
1C20
1AEC
1C44
1B95
1C5B
1C55
1BC7
1C4D
1C5C
1BC9
1C51
1C5D
ctrl
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-302 2019-08-27 11:48:11 194 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¤Ë¼ºÇÔ¤•¤¿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. OP/OG¥í¡¼¥É¡¦¥À¥ó¥×
0016     C. ****************************
0017     C.
0018   . C. ¡ãOP/OG¥í¡¼¥É¡ä
0019   . S. OP    op-302:OP
0020     ()
0021   . S. OG    og-302:OG
0022     ()
0023     C.
0024   . C. ¡ãNMOG&OPÎÎ°è¥À¥ó¥×¡ä
0025     C. NMOG(0x200000-0x207FFF¡§ 32 kbyte)
0026   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0027     BC       (20 00 7f 01 02)
0028     C.                       ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     40
0029     C.                       ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0030     C.                       ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
0031     C.                       ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0032     C.                       ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0033   +. DC 01-22 DHU_MODE_CHNG
0034     BC       (07 0b f8)
0035     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     7
0036     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0037     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0038     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0039     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0040   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0041     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0042   . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0043     C.
0044     C. NMOG(0x208000-0x20FFFF¡§ 32 kbyte)
0045   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0046     BC       (20 80 7f 01 02)
0047     C.                       ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     41
0048     C.                       ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0049     C.                       ¢¢[HK1_DMP_BLOCK_NUM]           EQ     127
0050     C.                       ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0051     C.                       ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0052   +. DC 01-22 DHU_MODE_CHNG
0053     BC       (07 0b f8)
0054     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     7
0055     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0056     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0057     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0058     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0059   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0060     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0061   . C. RAM ID=NMOG¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0062     C.
0063     C. NMOG(0x210000-0x2100FF¡§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0064   +. DC 01-23 DHU_DMA_DMP_PRM_SET
0065     BC       (21 00 41 01 02)
0066     C.                       ¢¢[HK1_DMP_TOP_ADRS_1]          EQ     42
0067     C.                       ¢¢[HK1_DMP_TOP_ADRS_0]          EQ     0
0068     C.                       ¢¢[HK1_DMP_BLOCK_NUM]           EQ     65
0069     C.                       ¢¢[HK1_DMP_REPEAT_NUM]          EQ     0
0070     C.                       ¢¢[HK1_DMA_DMP_PIM]             EQ     DHU
0071   +. DC 01-22 DHU_MODE_CHNG
0072     BC       (07 0b f8)
0073     C.                       ¢¢[HK1_PKT_FORM_NO]             EQ     7
0074     C.                       ¢¢[HK1_PKT_GEN_TIME]            EQ     0.25 s
0075     C.                       ¢¢[HK1_S_TLM_BIT_RATE]          EQ     32k
0076     C.                       ¢¢[HK1_X_TLM_BIT_RATE]          EQ     4M
0077     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     EXEC
0078   . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
0079     C.                       ¢¢[HK1_DMP_CHK_FLG]             EQ     NON
0080   . C. RAM ID=NMOG,RAM ID=OP¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
0081     C.
0082   . C. ***** °Ê²¼¤Ï¾Ã´¶Á°¤ËÉ¬¤ºÁ÷¿® (¾åµ-¥À¥ó¥×¼ê½ç¤òÅÓÃæ¤Ç½ª¤¨¤ë¾ì¹ç¤Ç¤â) *****
0083     C. DHU¥â¡¼¥É¡Ê¼ý¸¥ì¡¼¥È¡Ë¤òÌá¤¹
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¤¬Á÷¿®NG¤Î¾ì¹ç¡¢°Ê²¼¤ÎTI-CMDÁ÷¿®¤Ï¼Â¹Ô¤•¤Ê¤¤¤³¤È¡£
```

```
   C.          ¤Þ¤¿¡¢SET¤ÈDUMP¤ÏÆ±°ì¥Ñ¥¹¤Ç¹Ô¤¦¤³¤È¡£
   C.
 . C. TI¥³¥Þ¥ó¥É¤òÅÐÏ¿(UT)
+. TI 2019-08-27 10:10:00.0
   DC 01-B3 DHU_OP_STOP
   C.                      ¢¢[HK1_TI_CMD_NUM]             EQ     1COUNTUP
   C.
+. TI 2019-08-27 10:10:01.0
   DC 01-B4 DHU_OP_COPY
   C.                      ¢¢[HK1_TI_CMD_NUM]             EQ     1COUNTUP
   C.
+. TI 2019-08-27 10:10:01.0
   DC 01-B5 DHU_OPOG_COPY
   C.                      ¢¢[HK1_TI_CMD_NUM]             EQ     1COUNTUP
   C.
+. TI 2019-08-27 10:14:59.5
   DC 01-B2 DHU_OP_START
   C.                      ¢¢[HK1_TI_CMD_NUM]             EQ     1COUNTUP
   C.
   C. °Ê²¼¤ÏÄê¾ïÍÑ¤Î¥Á¥§¥Ã¥¯¹àÌÜ
   C.                      ¢¢[HK1_TI_CMD_ENA/DIS]         EQ     ENA
   C.                      ¢¢[HK1_TI_CMD_NUM]             EQ     4
   C.                      ¢¢[HK1_NEXT_EXEC_PIM]          EQ     DHU
   C.                      ¢¢[HK1_NEXT_EXEC_DC]           EQ     0xB3
   C.
 . C. ****************************
   C. TIÎÎ°è¥À¥ó¥×
   C. ****************************
   C.
   C. TI_TBL(0x03AB00-0x03AEFF¡§ 1024byte)
+. DC 01-23 DHU_DMA_DMP_PRM_SET
   BC       (03 ab 03 01 02)
   C.                      ¢¢[HK1_DMP_TOP_ADRS_1]         EQ     07
   C.                      ¢¢[HK1_DMP_TOP_ADRS_0]         EQ     2B
   C.                      ¢¢[HK1_DMP_BLOCK_NUM]          EQ     3
   C.                      ¢¢[HK1_DMP_REPEAT_NUM]         EQ     0
   C.                      ¢¢[HK1_DMA_DMP_PIM]            EQ     DHU
+. DC 01-22 DHU_MODE_CHNG
   BC       (07 0b f8)
   C.                      ¢¢[HK1_PKT_FORM_NO]            EQ     7
   C.                      ¢¢[HK1_PKT_GEN_TIME]           EQ     0.25 s
   C.                      ¢¢[HK1_S_TLM_BIT_RATE]         EQ     32k
   C.                      ¢¢[HK1_X_TLM_BIT_RATE]         EQ     4M
   C.                      ¢¢[HK1_DMP_CHK_FLG]            EQ     EXEC
   C.
 . C. ¥À¥ó¥×½ªÎ»¤ò³ÎÇ§
   C.                      ¢¢[HK1_DMP_CHK_FLG]            EQ     NON
   C.
 . C. RAM ID=TI_TBL¤Î¾È¹ç•ë²ÌOK¤ò³ÎÇ§
   C.
 . C. DHU¥â¡¼¥É¡Ê¼ý½¸¥ì¡¼¥È¡Ë¤òÌá¤¹
+. DC 01-22 DHU_MODE_CHNG
   BC       (02 0a f8)
   C.                      ¢¢[HK1_PKT_FORM_NO]            EQ     2
   C.                      ¢¢[HK1_PKT_GEN_TIME]           EQ     0.5S
   C.                      ¢¢[HK1_S_TLM_BIT_RATE]         EQ     32K
   C.                      ¢¢[HK1_X_TLM_BIT_RATE]         EQ     4M
   C.
   C.
   C. ************ XRT START ***********
   C. Execute, after the success of OP upload.
+. TI 2019-08-27 10:14:00.0
   DC 07-F0 MDP_XRT_MODE_STBY
   BC       (c3)
 . C.                       [   ]  [HK1_TI_CMD_NUM]     EQ    1COUNTUP
   C.
   C. ************ XRT END ***********
 . C. Stop EIS observation and temporarily disable EIS mode changes
   C.
   C.
   C. ********** Start EIS operation (TI set) **********
   C. Execute, after the success of OP upload.
   C. Set EIS TI-commands
+. TI 2019-08-27 10:14:30.0
   DC 07-FC EIS_MODE_MANU
   BC       (21 02)
+. TI 2019-08-27 10:14:40.0
   DC 07-FC EIS_MODE_CHG_DIS
   BC       (22)
 . C.                       [   ]  [HK1_TI_CMD_NUM]     EQ    2 COUNTUP
   C. *********** End EIS operation (TI set) ***********
   C.
   C.
   C.
 . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
   C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
 . S. DC-BC dcbc-402:DCBC
   (MDP_known_event)
   C.
   C.
 . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
 . S. DC-BC dcbc-153:DCBC
   (SPECIAL-CMD_DAILY_OPERATIN_DCB)
   C.
   C.
 . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
   C.
 . C. *********** LOS ***********
```

0194 C.

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(a) Spacecraft Operation Procedure (real-commands)

main-303 2019-08-27 11:48:11 178 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¡ËËè½µ•îÍË¡Ë¤Ë¼ºÇÔ¤•¤¿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. ¢¨ ºÆÀ¸ Í×ÈÝ¤äLOS¤Þ¤ÇºÎ»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¤ÎºÆÀ¸ ¼ê½ç¤ò¼Â¹Ô¤¹¤ë¡£
0030     C.
0031   . C. ***************
0032     C. DR PT1 ÄÌ¾ïºÆÀ¸
0033     C. ***************
0034     C. ¢¨ RESTART¡ÊPT1¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢DCBC-150¤Ø¿Ê¤à¡£
0035     C.
0036   . C. ¡ãPT1ºÆÀ¸ 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¸¡¾Ú)
0043     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0044     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0045     C.
0046   . C. ¡ã¥¢¥ó¥Æ¥ÊÀÚÂØ¡ÊÅ•Ä°²óÈò¡Ë¸å¤ÎºÆÀ¸ ºÆ³«¡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¸¡¾Ú)
0050     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0051     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0052     C.
0053     C.
0054   . C. PT1ºÆÀ¸ ¤¬¼«Æ°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 ÄÌ¾ïºÆÀ¸
0059     C. ***************
0060     C. ¢¨ RESTART¡ÊPT2¡Ë¤•¤¿¤¤¾ì¹ç¤Ï¡¢°Ê²¼¤Ï¼Â¹Ô¤»¤º¡¢DCBC-151¤Ø¿Ê¤à¡£
0061     C.
0062   . C. ¡ãPT2ºÆÀ¸ 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¸¡¾Ú)
0069     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0070     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0071     C.
0072   . C. ¡ã¥¢¥ó¥Æ¥ÊÀÚÂØ¡ÊÅ•Ä°²óÈò¡Ë¸å¤ÎºÆÀ¸ ºÆ³«¡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¸¡¾Ú)
0076     C.                      ¢¢[HK1_REP_STA/STP]             EQ     START  (¼Â¹Ô¸¡¾Ú)
0077     C.                      ¢¢[HK1_X_VC4_ON/OFF]            EQ     ON     (¼Â¹Ô¸¡¾Ú)
0078     C.
0079   . C. ****************************
0080     C. DRºÆÀ¸ Ää»ß¡¢XÁ÷¿®µ¡OFF
0081     C. ****************************
0082     C.
0083   . C. ¡ãDRºÆÀ¸ 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. ***** 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 = 4917216.9 +- 1.0 (s) [ ]
0136     C.
0137    . C.
0138    . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0139   +. DC 07-FC EIS_MODE_CHG_ENA
0140     BC       (20)
0141    . C. Verify EIS_MODE_CHG_FLG is ENA
0142   +. DC 07-FC EIS_MODE_MANU
0143     BC       (21 02)
0144    . C. Verify EIS in MANUAL mode
0145    . C. Estimated OBSTBL upload time is 1m16s
0146     C. ********************************
0147     C. EIS START OBSTBL LOAD
0148     C. ********************************
0149    . S. RAM   ram-820:EIS_OBSTBL
0150     ()
0151   +. DC 07-FC EIS_DUMP_OBSTBL
0152     BC       (07 07 07 00 00 70 00)
0153     C.
0154     C. Execute, after the success of OBSTBL upload.
0155     C. Set EIS TI-commands
0156   +. TI 2019-08-27 10:14:50.0
0157     DC 07-FC EIS_MODE_CHG_ENA
0158     BC       (20)
0159    . C.                      [   ]  [HK1_TI_CMD_NUM]     EQ    1 COUNTUP
0160     C. ********************************
0161     C. EIS END OBSTBL LOAD
0162     C. ********************************
0163     C.
0164    . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0165     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0166    . S. DC-BC dcbc-402:DCBC
0167     (MDP_known_event)
0168     C.
0169     C.
0170    . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0171    . S. DC-BC dcbc-153:DCBC
0172     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0173     C.
0174     C.
0175    . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0176     C.
0177    . C. ********** LOS **********
0178     C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-304 2019-08-27 11:48:11 100 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¤¼ºÇÔ¤•¤¿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. ************ XRT START ************
0016     C.
0017   +. DC 07-F0 MDP_XRT_CTRL_MANU
0018     BC       (c1)
0019   +  DC 07-F0 MDP_XRT_MODE_STBY
0020     BC       (c3)
0021   . C. ----------- Success Verify ?              OK / NG____
0022     C.
0023     C. XRT Obs. Table Upload
0024   . S. RAM   ram-291:MDP_OBS_X
0025     ()
0026     C.
0027   +. DC 07-F0 MDP_DUMP_XRTTBL
0028     BC       (84 07 00 00 00 3a d4)
0029   . C. ----------- Comparison Check ?                        OK / ERR ____
0030     C.
0031     C.
0032   +. DC 07-F0 MDP_XRT_ROI_SET
0033     BC       (cd 01 b1 b1 04 04)
0034   +  DC 07-F0 MDP_XRT_ROI_SET
0035     BC       (cd 02 b1 b1 08 08)
0036   +  DC 07-F0 MDP_XRT_ROI_SET
0037     BC       (cd 03 b1 b1 08 08)
0038   +  DC 07-F0 MDP_XRT_ROI_SET
0039     BC       (cd 04 b1 b1 06 06)
0040   +  DC 07-F0 MDP_XRT_ROI_SET
0041     BC       (cd 06 c0 c0 10 10)
0042   +  DC 07-F0 MDP_XRT_ROI_SET
0043     BC       (cd 07 80 80 20 20)
0044   +  DC 07-F0 MDP_XRT_ROI_SET
0045     BC       (cd 08 40 c0 10 10)
0046   +  DC 07-F0 MDP_XRT_ROI_SET
0047     BC       (cd 09 40 40 10 10)
0048   +  DC 07-F0 MDP_XRT_ROI_SET
0049     BC       (cd 0a c0 40 10 10)
0050   +  DC 07-F0 MDP_XRT_ROI_SET
0051     BC       (cd 0b 80 80 20 08)
0052   +  DC 07-F0 MDP_XRT_ROI_SET
0053     BC       (cd 0c 80 80 08 20)
0054   +  DC 07-F0 MDP_XRT_ROI_SET
0055     BC       (cd 0d 80 60 20 18)
0056   +  DC 07-F0 MDP_XRT_ROI_SET
0057     BC       (cd 0e a0 80 18 20)
0058   +  DC 07-F0 MDP_XRT_ROI_SET
0059     BC       (cd 0f 80 80 06 06)
0060   +  DC 07-F0 MDP_XRT_ROI_SET
0061     BC       (cd 10 80 80 08 08)
0062   +  DC 07-F0 MDP_XRT_FLD_ENA
0063     BC       (d8)
0064   +  DC 07-F0 MDP_XRT_FLRCTRL_ENA
0065     BC       (c8)
0066   +  DC 07-F0 MDP_XRT_ARS_DIS
0067     BC       (d5)
0068   +  DC 07-F0 MDP_XRT_AEC_RESET
0069     BC       (d0)
0070   +  DC 07-F0 MDP_XRT_FLD_RESET
0071     BC       (da)
0072   . C. ---------- Success Verify ?            OK / NG ____
0073     C.
0074     C.
0075   . C. All OK?   Yes--> Please Proceed. / No --> Stop here.
0076     C.
0077   +. DC 07-F0 MDP_XRT_MODE_OBSV
0078     BC       (c2)
0079   +. TI 2019-08-27 10:14:02.0
0080     DC 07-F0 MDP_XRT_MODE_OBSV
0081     BC       (c2)
0082   . C. ---------- Success Verify ?            OK / NG ____
0083     C.
0084     C. ************ XRT END ***********
0085     C.
0086   . C. ***** MDP ´ûÃÎ¤Î»ö¾Ý¤ËÂÐ¤¹¤ëDCBC•×²è *****
0087     C. (¾å°Ì¥Ó¥Ã¥È¥Þ¥Ë¥å¥¢¥ë¤Ë½¾¤¤¼Â»Ü¤¹¤ë)
0088   . S. DC-BC dcbc-402:DCBC
0089     (MDP_known_event)
0090     C.
0091     C.
0092   . C. ***** ¥Ð¥¹•Ï Daily±¿ÍÑ¤Ë´Ø¤¹¤ëDCBC•×²è *****
0093   . S. DC-BC dcbc-153:DCBC
0094     (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0095     C.
```

```
0096     C.
0097   . C. ¡ãLOS¥Á¥§¥Ã¥¯¼Â»Ü¡ä
0098     C.
0099   . C. ********** LOS **********
0100     C.
```

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

2019/08/27  10:25:00.0  AOCS_ORe-point_Start_1_OG [0x097]
                                AOCU_NM              5 02-76 00 00 00 ac cd
2019/08/27  10:41:00.0  AOCS_ORe-point_Start_2_OG [0x098]
                                AOCU_NM              5 02-76 00 00 00 d6 67
2019/08/27  10:57:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                AOCU_NM              5 02-76 00 00 00 00 00
2019/08/27  11:13:00.0  AOCS_ORe-point_Start_4_OG [0x09a]
                                AOCU_NM              5 02-76 00 00 00 29 99
2019/08/27  11:29:00.0  AOCS_ORe-point_Start_5_OG [0x09b]
                                AOCU_NM              5 02-76 00 00 00 53 33
2019/08/27  11:59:30.0  AOCS_ORe-point_Start_6_OG [0x09c]
                                AOCU_NM              5 02-76 00 d6 36 b7 8e
2019/08/27  12:09:30.0  AOCS_ORe-point_Start_7_OG [0x09d]
                                AOCU_NM              5 02-76 00 b4 b5 db 75
2019/08/27  12:25:30.0  AOCS_ORe-point_Start_8_OG [0x09e]
                                AOCU_NM              5 02-76 00 ac 5b 00 00
2019/08/27  12:41:30.0  AOCS_ORe-point_Start_9_OG [0x09f]
                                AOCU_NM              5 02-76 00 b4 b5 24 8b
2019/08/27  12:57:30.0  AOCS_ORe-point_Start_10_OG [0x0a0]
                                AOCU_NM              5 02-76 00 d6 36 48 72
2019/08/27  13:07:30.0  AOCS_ORe-point_Start_11_OG [0x0a1]
                                AOCU_NM              5 02-76 00 29 ca b7 8e
2019/08/27  13:38:00.0  AOCS_ORe-point_Start_12_OG [0x0a2]
                                AOCU_NM              5 02-76 00 4b 4b db 75
2019/08/27  13:54:00.5  AOCS_ORe-point_Start_13_OG [0x0a3]
                                AOCU_NM              5 02-76 00 53 a5 00 00
2019/08/27  14:10:00.0  AOCS_ORe-point_Start_14_OG [0x0a4]
                                AOCU_NM              5 02-76 00 4b 4b 24 8b
2019/08/27  14:26:00.0  AOCS_ORe-point_Start_15_OG [0x0a5]
                                AOCU_NM              5 02-76 00 29 db 48 72
2019/08/27  14:45:00.0  AOCS_ORe-point_Start_16_OG [0x0a6]
                                AOCU_NM              5 02-76 00 b6 f2 00 00
2019/08/27  20:00:00.0  AOCS_ORe-point_Start_17_OG [0x0a7]
                                AOCU_NM              5 02-76 01 03 74 01 f3
2019/08/28  06:00:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/28  06:00:02.0  XRT_TCIB_XRT_S_HTR_A_DIS_441_OG [0x1b9]
                                TCIB_XRT_S_HTR_A_DIS 0 04-C0
2019/08/28  06:03:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                AOCU_NM              5 02-76 00 00 00 00 00
2019/08/28  06:13:00.0  AOCS_ORe-point_Start_17_OG [0x0a7]
                                AOCU_NM              5 02-76 01 03 74 01 f3
2019/08/28  10:00:00.0  AOCS_ORe-point_Start_18_OG [0x0a8]
                                AOCU_NM              5 02-76 00 b3 75 01 f3
2019/08/28  16:00:00.0  AOCS_ORe-point_Start_16_OG [0x0a6]
                                AOCU_NM              5 02-76 00 b6 f2 00 00
2019/08/28  21:04:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/28  21:04:56.0  XRT_FOCUS_POSITION_444_OG [0x1bc]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2019/08/28  21:05:00.0  AOCS_ORe-point_Start_19_OG [0x0a9]
                                AOCU_NM              5 02-76 00 2e f9 2e f9
2019/08/28  21:07:52.0  XRT_ARS_DIS_429_OG [0x1ad]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2019/08/28  21:07:54.0  XRT_FLRCTRL_DIS_438_OG [0x1b6]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2019/08/28  21:07:56.0  XRT_FLD_DIS_433_OG [0x1b1]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2019/08/28  21:07:58.0  XRT_QT_PROG_SET_432_OG [0x1b0]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 06
2019/08/28  21:08:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2019/08/28  21:14:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/28  21:14:56.0  XRT_FOCUS_POSITION_444_OG [0x1bc]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2019/08/28  21:15:00.0  AOCS_ORe-point_Start_20_OG [0x0aa]
                                AOCU_NM              5 02-76 00 2e f9 cc 3a
2019/08/28  21:17:52.0  XRT_ARS_DIS_429_OG [0x1ad]
                                MDP_XRT_ARS_DIS      1 07-F0 d5
2019/08/28  21:17:54.0  XRT_FLRCTRL_DIS_438_OG [0x1b6]
                                MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2019/08/28  21:17:56.0  XRT_FLD_DIS_433_OG [0x1b1]
                                MDP_XRT_FLD_DIS      1 07-F0 d9
2019/08/28  21:17:58.0  XRT_QT_PROG_SET_425_OG [0x1a9]
                                MDP_XRT_QT_PROG_SET  2 07-F0 c4 10
2019/08/28  21:18:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                MDP_XRT_CTRL_AUTO    1 07-F0 c0
2019/08/28  21:24:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/28  21:24:56.0  XRT_FOCUS_POSITION_444_OG [0x1bc]
                                XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2019/08/28  21:25:00.0  AOCS_ORe-point_Start_21_OG [0x0ab]
                                AOCU_NM              5 02-76 00 d1 07 d1 07
2019/08/28  21:27:52.0  XRT_ROI_A_428_OG [0x1ac]
                                MDP_XRT_ROI_SET      6 07-F0 cd 06 85 83 08 08
                                MDP_XRT_ROI_SET      6 07-F0 cd 07 80 80 20 20
                                MDP_XRT_ROI_SET      6 07-F0 cd 08 80 80 08 08
                                MDP_XRT_ROI_SET      6 07-F0 cd 09 40 40 10 10
                                MDP_XRT_ROI_SET      6 07-F0 cd 0a c0 40 10 10
                                MDP_XRT_ROI_SET      6 07-F0 cd 0b 80 80 20 08
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                                    MDP_XRT_ROI_SET      6 07-F0 cd 0c 80 80 08 20
                                    MDP_XRT_ROI_SET      6 07-F0 cd 0d 80 60 20 18
2019/08/28  21:27:52.5  XRT_ROI_B_403_OG [0x193]
                                    MDP_XRT_ROI_SET      6 07-F0 cd 0d 80 60 20 18
                                    MDP_XRT_ROI_SET      6 07-F0 cd 0e a0 80 18 20
                                    MDP_XRT_ROI_SET      6 07-F0 cd 0f 80 80 06 06
                                    MDP_XRT_ROI_SET      6 07-F0 cd 10 80 80 08 08
2019/08/28  21:27:57.5  XRT_ARS_DIS_429_OG [0x1ad]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2019/08/28  21:27:59.5  XRT_FLRCTRL_DIS_438_OG [0x1b6]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2019/08/28  21:28:01.5  XRT_FLD_DIS_433_OG [0x1b1]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2019/08/28  21:28:03.5  XRT_QT_PROG_SET_436_OG [0x1b4]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 03
2019/08/28  21:28:05.5  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2019/08/28  21:34:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/28  21:34:56.0  XRT_FOCUS_POSITION_444_OG [0x1bc]
                                    XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2019/08/28  21:35:00.0  AOCS_ORe-point_Start_22_OG [0x0ac]
                                    AOCU_NM              5 02-76 00 d1 07 2e f9
2019/08/28  21:37:52.0  XRT_ARS_DIS_429_OG [0x1ad]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2019/08/28  21:37:54.0  XRT_FLRCTRL_DIS_438_OG [0x1b6]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2019/08/28  21:37:56.0  XRT_FLD_DIS_433_OG [0x1b1]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2019/08/28  21:37:58.0  XRT_QT_PROG_SET_421_OG [0x1a5]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 0f
2019/08/28  21:38:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2019/08/28  21:44:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/28  21:44:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/28  21:44:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                    XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2019/08/28  21:45:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                    AOCU_NM              5 02-76 00 00 00 00 00
2019/08/28  21:45:18.0  XRT_FLD_DIS_409_OG [0x199]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2019/08/28  21:45:20.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2019/08/28  21:45:22.0  XRT_ARS_DIS_443_OG [0x1bb]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2019/08/28  21:47:58.0  XRT_QT_PROG_SET_426_OG [0x1aa]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 0e
2019/08/28  21:48:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2019/08/28  21:54:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/28  21:54:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/28  21:54:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2019/08/28  21:55:00.5  AOCS_ORe-point_Start_23_OG [0x0ad]
                                    AOCU_NM              5 02-76 00 ad 59 00 00
2019/08/28  21:55:18.0  XRT_FLD_DIS_417_OG [0x1a1]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2019/08/28  22:09:54.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2019/08/28  22:09:56.0  XRT_ARS_DIS_429_OG [0x1ad]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2019/08/28  22:09:58.0  XRT_QT_PROG_SET_418_OG [0x1a2]
                                    MDP_XRT_QT_PROG_SET  2 07-F0 c4 0b
2019/08/28  22:10:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                    MDP_XRT_CTRL_AUTO    1 07-F0 c0
2019/08/28  23:54:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/28  23:54:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                    MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/28  23:54:58.0  XRT_ROI_A_439_OG [0x1b7]
                                    MDP_XRT_ROI_SET      6 07-F0 cd 06 85 83 08 08
                                    MDP_XRT_ROI_SET      6 07-F0 cd 07 80 80 20 20
                                    MDP_XRT_ROI_SET      6 07-F0 cd 08 80 80 08 08
                                    MDP_XRT_ROI_SET      6 07-F0 cd 0b 80 80 20 08
                                    MDP_XRT_ROI_SET      6 07-F0 cd 0c 80 80 08 20
                                    MDP_XRT_ROI_SET      6 07-F0 cd 0e a0 80 18 20
                                    MDP_XRT_ROI_SET      6 07-F0 cd 0f 80 80 06 06
                                    MDP_XRT_ROI_SET      6 07-F0 cd 10 80 80 08 08
2019/08/28  23:55:00.0  AOCS_ORe-point_Start_24_OG [0x0ae]
                                    AOCU_NM              5 02-76 00 00 00 56 35
2019/08/28  23:55:03.0  XRT_FOCUS_POSITION_442_OG [0x1ba]
                                    XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2019/08/28  23:55:23.0  XRT_FLD_DIS_417_OG [0x1a1]
                                    MDP_XRT_FLD_DIS      1 07-F0 d9
2019/08/29  00:09:59.0  XRT_ARS_DIS_429_OG [0x1ad]
                                    MDP_XRT_ARS_DIS      1 07-F0 d5
2019/08/29  00:10:01.5  XRT_FLRCTRL_DIS_438_OG [0x1b6]
                                    MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2019/08/29  00:10:03.5  XRT_QT_PROG_SET_404_OG [0x194]
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                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 11
2019/08/29  00:10:05.5  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2019/08/29  01:54:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/29  01:54:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/29  01:54:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2019/08/29  01:55:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                        AOCU_NM              5 02-76 00 00 00 00 00
2019/08/29  01:55:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2019/08/29  01:55:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2019/08/29  01:55:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2019/08/29  01:55:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2019/08/29  01:55:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2019/08/29  01:57:56.0  XRT_QT_PROG_SET_416_OG [0x1a0]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 0a
2019/08/29  01:57:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2019/08/29  01:58:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2019/08/29  02:54:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/29  02:54:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/29  02:54:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2019/08/29  02:54:06.0  XRT_PREFLR_STRT_435_OG [0x1b3]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2019/08/29  02:57:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2019/08/29  03:18:30.0  XRT_Custom_430_OG [0x1ae]
2019/08/29  03:19:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2019/08/29  04:21:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/29  04:21:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/29  04:21:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2019/08/29  04:21:36.0  XRT_PREFLR_STRT_435_OG [0x1b3]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2019/08/29  04:24:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2019/08/29  04:57:00.0  XRT_Custom_430_OG [0x1ae]
2019/08/29  04:58:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2019/08/29  06:01:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/29  06:01:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/29  06:01:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2019/08/29  06:01:36.0  XRT_PREFLR_STRT_435_OG [0x1b3]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2019/08/29  06:04:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2019/08/29  06:35:00.0  XRT_Custom_430_OG [0x1ae]
2019/08/29  06:36:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2019/08/29  06:39:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/29  06:39:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/29  06:39:58.0  XRT_FOCUS_POSITION_406_OG [0x196]
                                        XRT_FOCUS_POSITION   4 07-F8 22 ff aa 00
2019/08/29  06:40:18.0  XRT_FLD_DIS_409_OG [0x199]
                                        MDP_XRT_FLD_DIS      1 07-F0 d9
2019/08/29  06:40:20.0  XRT_FLRCTRL_DIS_413_OG [0x19d]
                                        MDP_XRT_FLRCTRL_DIS  1 07-F0 c9
2019/08/29  06:40:22.0  XRT_ARS_DIS_443_OG [0x1bb]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2019/08/29  06:42:58.0  XRT_QT_PROG_SET_445_OG [0x1bd]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 14
2019/08/29  06:43:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2019/08/29  06:49:54.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/29  06:49:56.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/29  06:49:58.0  XRT_FOCUS_POSITION_410_OG [0x19a]
                                        XRT_FOCUS_POSITION   4 07-F8 22 fe 97 00
2019/08/29  06:50:00.0  AOCS_ORe-point_Start_17_OG [0x0a7]
                                        AOCU_NM              5 02-76 01 03 74 01 f3
2019/08/29  06:50:18.0  XRT_FLD_ENA_411_OG [0x19b]
                                        MDP_XRT_FLD_ENA      1 07-F0 d8
2019/08/29  06:50:20.0  XRT_FLRCTRL_ENA_412_OG [0x19c]
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                                        MDP_XRT_FLRCTRL_ENA  1 07-F0 c8
2019/08/29  06:50:22.0  XRT_AEC_RESET_448_OG [0x1c0]
                                        MDP_XRT_AEC_RESET    1 07-F0 d0
2019/08/29  06:50:24.0  XRT_ARS_DIS_423_OG [0x1a7]
                                        MDP_XRT_ARS_DIS      1 07-F0 d5
2019/08/29  06:50:26.0  XRT_FLD_RESET_434_OG [0x1b2]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2019/08/29  06:52:56.0  XRT_QT_PROG_SET_449_OG [0x1c1]
                                        MDP_XRT_QT_PROG_SET  2 07-F0 c4 09
2019/08/29  06:52:58.0  XRT_FL_PROG_SET_440_OG [0x1b8]
                                        MDP_XRT_FL_PROG_SET  2 07-F0 c5 0d
2019/08/29  06:53:00.0  XRT_CTRL_AUTO_408_OG [0x198]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2019/08/29  07:42:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/29  07:42:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/29  07:42:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2019/08/29  07:42:06.0  XRT_PREFLR_STRT_435_OG [0x1b3]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2019/08/29  07:45:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2019/08/29  08:13:30.0  XRT_Custom_430_OG [0x1ae]
2019/08/29  08:14:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2019/08/29  09:21:30.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/29  09:21:32.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/29  09:21:34.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2019/08/29  09:21:36.0  XRT_PREFLR_STRT_435_OG [0x1b3]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2019/08/29  09:24:44.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2019/08/29  09:42:00.0  XRT_Custom_430_OG [0x1ae]
2019/08/29  09:43:00.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2019/08/29  09:45:00.0  XRT_CTRL_MANU_400_OG [0x190]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/29  09:45:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/29  09:45:04.0  XRT_FLD_RESET_415_OG [0x19f]
                                        MDP_XRT_FLD_RESET    1 07-F0 da
2019/08/29  09:45:06.0  XRT_PREFLR_STRT_435_OG [0x1b3]
                                        MDP_XRT_PREFLR_STRT  1 07-F0 e8
2019/08/29  09:48:14.0  XRT_PREFLR_STOP_419_OG [0x1a3]
                                        MDP_XRT_PREFLR_STOP  1 07-F0 e9
2019/08/29  09:51:30.0  XRT_Custom_430_OG [0x1ae]
2019/08/29  09:52:30.0  XRT_CTRL_AUTO_424_OG [0x1a8]
                                        MDP_XRT_CTRL_AUTO    1 07-F0 c0
2019/08/29  10:12:00.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/29  10:12:02.0  XRT_CTRL_MANU_402_OG [0x192]
                                        MDP_XRT_CTRL_MANU    1 07-F0 c1
2019/08/29  11:03:00.0  AOCS_ORe-point_Start_3_OG [0x099]
                                        AOCU_NM              5 02-76 00 00 00 00 00
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