

XRT Timeline to be uploaded on 2019/07/16

Period: 2019/07/16 11:46:00 - 2019/07/24 11:01:00

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Normal mode

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XOB #1BA4: 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
07/16 12:02:00 - 07/16 17:51:54	Track (769.2, -506.6) ^{@ 07/16 11:56:00}	# OP start + 10min : track AR 12744
07/16 18:05:00 - 07/16 22:59:54	Track (781.7, -503.2) ^{@ 07/16 18:02:00}	# track AR 12744
07/16 23:35:30 - 07/17 01:59:54	Fixed (779.5, -505.4)	fix pointing for AR 12744

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
Seqn= 42	1-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= 96	40-time(s)	2.0sec											
Al-poly/Open	thin-Be/Open	close	Safe	Norm	250ms	Obs	1x1	384x384	(1064, 1048)	Q=95	1	0	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384	(1064, 1048)	Q=95	1	0	2.0sec
Al-poly/Open	thin-Be/Open	close	Safe	Norm	250ms	Obs	1x1	384x384	(1064, 1048)	Q=95	1	1	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384	(1064, 1048)	Q=95	1	1	2.0sec
Al-poly/Open	thin-Be/Open	close	Safe	Norm	250ms	Obs	1x1	384x384	(1064, 1048)	Q=95	1	2	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384	(1064, 1048)	Q=95	1	2	2.0sec

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

XOB #1C53: Synoptic Q95 2x2 - Al/mesh(181/1024/5795) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Al-poly(256/2897/8192)

Term	Pointing (x, y)	Comment
07/16 17:55:00 - 07/16 18:01:54	Fixed (0.0, 0.0)	synoptic, shifted -8.0 min
07/17 06:10:30 - 07/17 06:17:24	Fixed (0.0, 0.0)	synoptic, shifted 7.5 min
07/17 18:03:00 - 07/17 18:09:54	Fixed (0.0, 0.0)	synoptic
07/18 05:31:30 - 07/18 05:59:54	Fixed (0.0, 0.0)	synoptic, shifted -31.5 min
07/21 12:43:00 - 07/21 12:49:54	Fixed (0.0, 0.0)	Synoptic
07/22 18:03:00 - 07/22 18:09:54	Fixed (0.0, 0.0)	synoptic
07/23 06:24:30 - 07/24 11:01:00	Fixed (0.0, 0.0)	synoptic, shifted 21.5 min

PROG= 16 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= 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= 44	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/Open	close	Safe	Norm	2.83s	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 #1C51: 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
07/17 02:03:00 - 07/17 06:07:24	Fixed (0.0, 0.0)	HOP 349
07/18 02:03:00 - 07/18 05:28:24	Fixed (0.0, 0.0)	HOP 349
07/21 19:13:00 - 07/21 21:02:30	Fixed (0.0, 0.0)	# HOP 349
07/22 04:05:00 - 07/22 05:49:54	Fixed (0.0, 0.0)	HOP 349
07/23 04:40:00 - 07/23 06:21:24	Fixed (0.0, 0.0)	HOP 349

PROG= 18 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	512x512 (1064, 1048)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	512x512 (1064, 1048)	Q=95	0	0	2.0sec
Subr= 2 5-time(s) 420.0sec												
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 #1BD6: CME watch - 4x4 - AEC 2/3 - 2-filter (Be-thin, Al-poly) - G-band (1x1,512x512,1ms) - Leak (1x1,512x512,1ms) - 900s cad (G-band/Leak first)

Term	Pointing (x, y)	Comment
07/17 06:20:30 - 07/17 11:59:54	Fixed (-264.0, -34.0)	# HOP 312 (1st pointing)
07/17 12:03:00 - 07/17 17:59:54	Fixed (224.0, -34.0)	HOP 312 (2nd pointing)
07/17 18:13:00 - 07/18 01:59:54	Fixed (-492.0, -34.0)	# HOP 312 (3rd pointing)
07/21 13:19:30 - 07/21 18:59:54	Fixed (-20.0, -852.0)	HOP 312 (17th pointing)
07/22 18:13:00 - 07/22 21:38:00	Track (-55.0, -33.7) @ 07/22 18:10:00	# bright point around disk center

PROG= 03 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	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 8-time(s) 900.0sec												
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	

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
07/21 12:03:00 - 07/21 12:09:54	Fixed (-528.4, -528.4)	1st quadrant after XRT CCD bakeout

PROG= 15 1-time(s)

Subr= 1 1-time(s) 2.0sec												
Seqn= 51 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	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												
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 #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
07/21 12:13:00 - 07/21 12:19:54	Fixed (528.4, -528.4)	2nd quadrant after XRT CCD bakeout

PROG= 07 1-time(s)

Subr= 1 1-time(s) 2.0sec												
Seqn= 38 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	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												
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 #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
07/21 12:23:05 - 07/21 12:29:54	Fixed (528.4, 528.4)	3rd quadrant after XRT CCD bakeout

PROG= 14 1-time(s)													
└─ Subr= 1 1-time(s) 2.0sec													
└─ Seqn= 21 1-time(s) 2.0sec													
	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													
	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 #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
07/21 12:33:00 - 07/21 12:39:54	Fixed (-528.4, 528.4)	4th quadrant after XRT CCD bakeout

PROG= 09 1-time(s)													
└─ Subr= 1 1-time(s) 2.0sec													
└─ Seqn= 14 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	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													
	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 #1C13: Synoptic 7 Filter w/ Al-mesh(512/2048/4096), Al-poly(512/4096/8192), Thin-Be(3897/16384/32768) - Thick-Be(65536), Al-poly+Ti-poly(4096/23142)

Term	Pointing (x, y)	Comment
07/21 19:03:00 - 07/21 19:09:54	Fixed (0.0, 0.0)	synoptic, shifted 60.0 min
07/22 05:53:00 - 07/22 05:59:54	Fixed (0.0, 0.0)	synoptic, shifted -10.0 min

PROG= 19 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) 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 #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
07/21 21:40:31 - 07/22 00:19:00	Fixed (0.0, 900.0)	IHOP 378 - window 1 and 2 on 7/22 (JST)
07/22 00:48:00 - 07/22 03:29:30	Fixed (0.0, -900.0)	IHOP 378 - window 3 and 4 on 7/22 (JST)
07/22 22:15:01 - 07/23 00:54:30	Track (-20.8, -34.0) @ 07/22 21:54:00	IHOP 378 - window 1 and 2 on 7/23 (JST)
07/23 01:23:30 - 07/23 04:03:30	Fixed (0.0, 900.0)	IHOP 378 - window 3 and 4 on 7/23 (JST)

PROG= 04 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	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 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	

XOB #1BA9: AR - Standard Core - (Filter-Ratio with Al/poly and thin-Be long/short pairs) with PFB, 384x384 at 1064 1048, thin-Be, and Al/poly context, with

Term	Pointing (x, y)	Comment
07/22 06:03:00 - 07/22 07:59:54	Fixed (0.0, 930.0)	# Co-alignment (N-limb)
07/22 08:03:00 - 07/22 09:59:00	Fixed (-970.0, 0.0)	Co-alignment (E-limb)
07/22 10:38:00 - 07/22 13:59:54	Fixed (-20.0, 519.0)	HOP 336 - north hemisphere
07/22 14:03:00 - 07/22 17:59:54	Fixed (-20.0, -751.0)	HOP 336 - south hemisphere

PROG= 01 Inf.-time(s)

Subr= 1 1-time(s) 2.0sec												
Seqn= 92 1-time(s) 2.0sec												
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	384x384 (1064, 1048)	DPCM	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	384x384 (1064, 1048)	DPCM	0	0	2.0sec
Open/Ti-poly	Open/thick-Al	close	Safe	Dark	16.0s	Obs	1x1	384x384 (1064, 1048)	Q=98	0	0	2.0sec
Subr= 2 5-time(s) 2.0sec												
Seqn= 75 1-time(s) 2.0sec												
Al-poly/Open	thin-Be/Open	close	Safe	Norm	250ms	Obs	1x1	384x384 (1064, 1048)	Q=95	2	0	2.0sec
Al-poly/Open	thin-Be/Open	close	Safe	Norm	250ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	2	0	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
Seqn= 96 8-time(s) 30.0sec												
Al-poly/Open	thin-Be/Open	close	Safe	Norm	250ms	Obs	1x1	384x384 (1064, 1048)	Q=95	1	0	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	1	0	2.0sec
Al-poly/Open	thin-Be/Open	close	Safe	Norm	250ms	Obs	1x1	384x384 (1064, 1048)	Q=95	1	1	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	1	1	2.0sec
Al-poly/Open	thin-Be/Open	close	Safe	Norm	250ms	Obs	1x1	384x384 (1064, 1048)	Q=95	1	2	2.0sec
thin-Be/Open	med-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	1	2	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

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Flare mode

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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
07/16 12:02:00 - 07/16 17:51:54	Track (769.2, -506.6) @ 07/16 11:56:00	# OP start + 10min : track AR 12744
07/16 18:05:00 - 07/16 22:59:54	Track (781.7, -503.2) @ 07/16 18:02:00	# track AR 12744
07/16 23:35:30 - 07/17 01:59:54	Fixed (779.5, -505.4)	fix pointing for AR 12744
07/17 02:03:00 - 07/17 06:07:24	Fixed (0.0, 0.0)	HOP 349
07/17 06:20:30 - 07/17 11:59:54	Fixed (-264.0, -34.0)	# HOP 312 (1st pointing)
07/17 12:03:00 - 07/17 17:59:54	Fixed (224.0, -34.0)	HOP 312 (2nd pointing)
07/17 18:13:00 - 07/18 01:59:54	Fixed (-492.0, -34.0)	# HOP 312 (3rd pointing)
07/18 02:03:00 - 07/18 05:28:24	Fixed (0.0, 0.0)	HOP 349
07/21 13:19:30 - 07/21 18:59:54	Fixed (-20.0, -852.0)	HOP 312 (17th pointing)
07/21 19:13:00 - 07/21 21:02:30	Fixed (0.0, 0.0)	# HOP 349
07/21 21:40:31 - 07/22 00:19:00	Fixed (0.0, 900.0)	IHOP 378 - window 1 and 2 on 7/22 (JST)
07/22 00:48:00 - 07/22 03:29:30	Fixed (0.0, -900.0)	IHOP 378 - window 3 and 4 on 7/22 (JST)
07/22 04:05:00 - 07/22 05:49:54	Fixed (0.0, 0.0)	HOP 349
07/22 06:03:00 - 07/22 07:59:54	Fixed (0.0, 930.0)	# Co-alignment (N-limb)
07/22 08:03:00 - 07/22 09:59:00	Fixed (-970.0, 0.0)	Co-alignment (E-limb)
07/22 10:38:00 - 07/22 13:59:54	Fixed (-20.0, 519.0)	HOP 336 - north hemisphere
07/22 14:03:00 - 07/22 17:59:54	Fixed (-20.0, -751.0)	HOP 336 - south hemisphere
07/22 18:13:00 - 07/22 21:38:00	Track (-55.0, -33.7) @ 07/22 18:10:00	# bright point around disk center
07/22 22:15:01 - 07/23 00:54:30	Track (-20.8, -34.0) @ 07/22 21:54:00	IHOP 378 - window 1 and 2 on 7/23 (JST)

07/23 01:23:30 - 07/23 04:03:30 Fixed (0.0, 900.0) IHOP 378 - window 3 and 4 on 7/23 (JST)
 07/23 04:40:00 - 07/23 06:21:24 Fixed (0.0, 0.0) HOP 349

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	

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Active Region Search

* * * * *

NOT USED

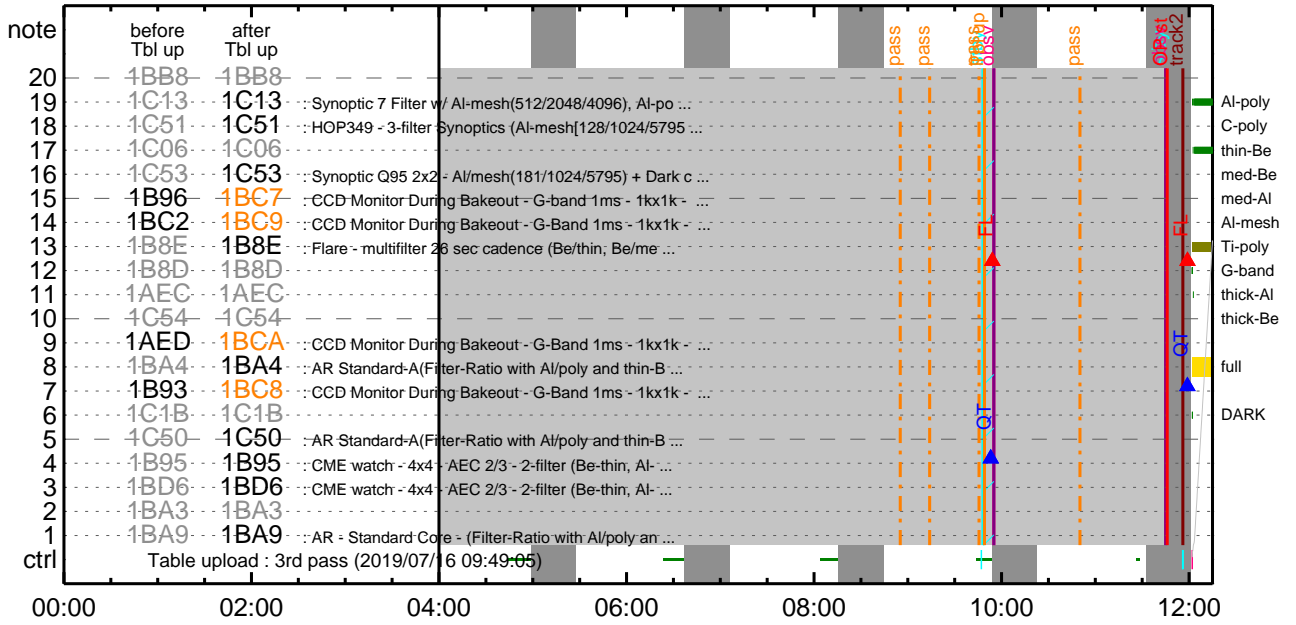
* * * * *

Flare Detection

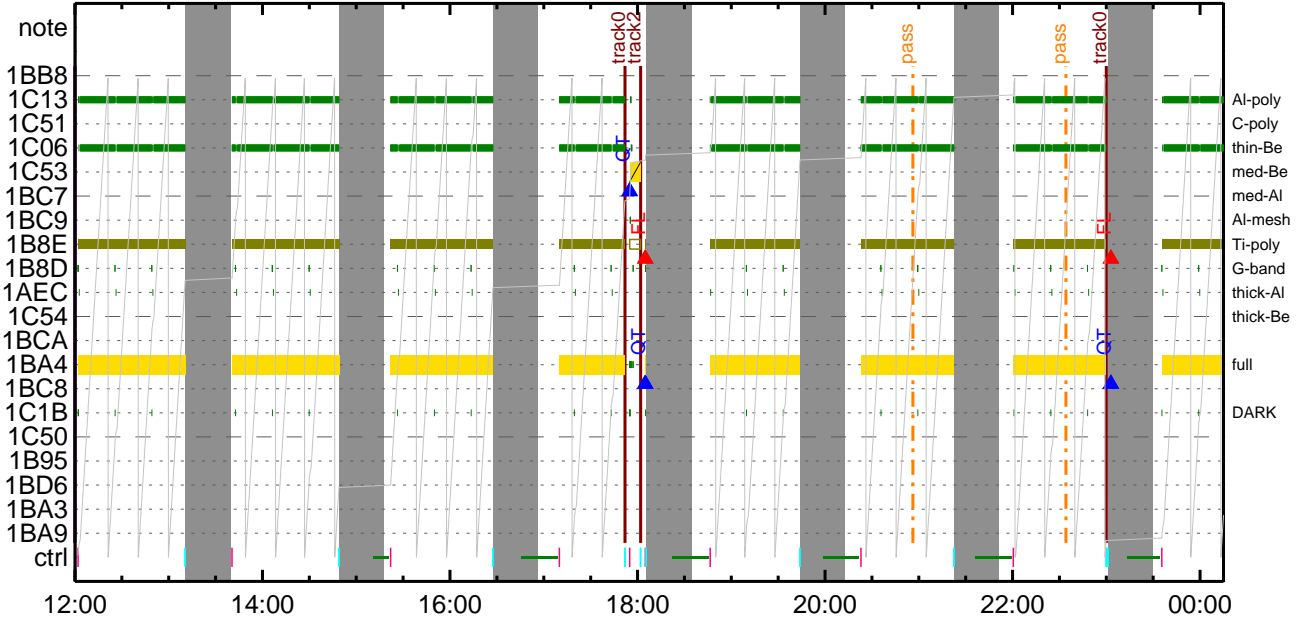
* * * * *

FLD Patrol												
Term		Pointing (x, y)						Comment				
07/16 11:56:18 - 07/16 17:52:18		Track (769.2, -506.6) @ 07/16 11:56:00						# OP start + 10min : track AR 12744				
07/16 18:02:18 - 07/17 06:07:48		Track (781.7, -503.2) @ 07/16 18:02:00						# track AR 12744				
07/17 06:17:48 - 07/17 18:00:18		Fixed (-264.0, -34.0)						# HOP 312 (1st pointing)				
07/17 18:10:18 - 07/18 05:28:48		Fixed (-492.0, -34.0)						# HOP 312 (3rd pointing)				
07/21 12:50:18 - 07/21 19:00:18		Fixed (-20.0, -852.0)						HOP 312 (17th pointing)				
07/21 19:10:18 - 07/22 05:50:18		Fixed (0.0, 0.0)						# HOP 349				
07/22 06:00:18 - 07/22 18:00:18		Fixed (0.0, 930.0)						# Co-alignment (N-limb)				
07/22 18:10:18 - 07/23 06:21:48		Track (-55.0, -33.7) @ 07/22 18:10:00						# bright point around disk center				
	Al-poly/Open	Al-poly/Open	close	Safe	Norm	8ms	Obs	8x8		Q=50		30sec
	Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval

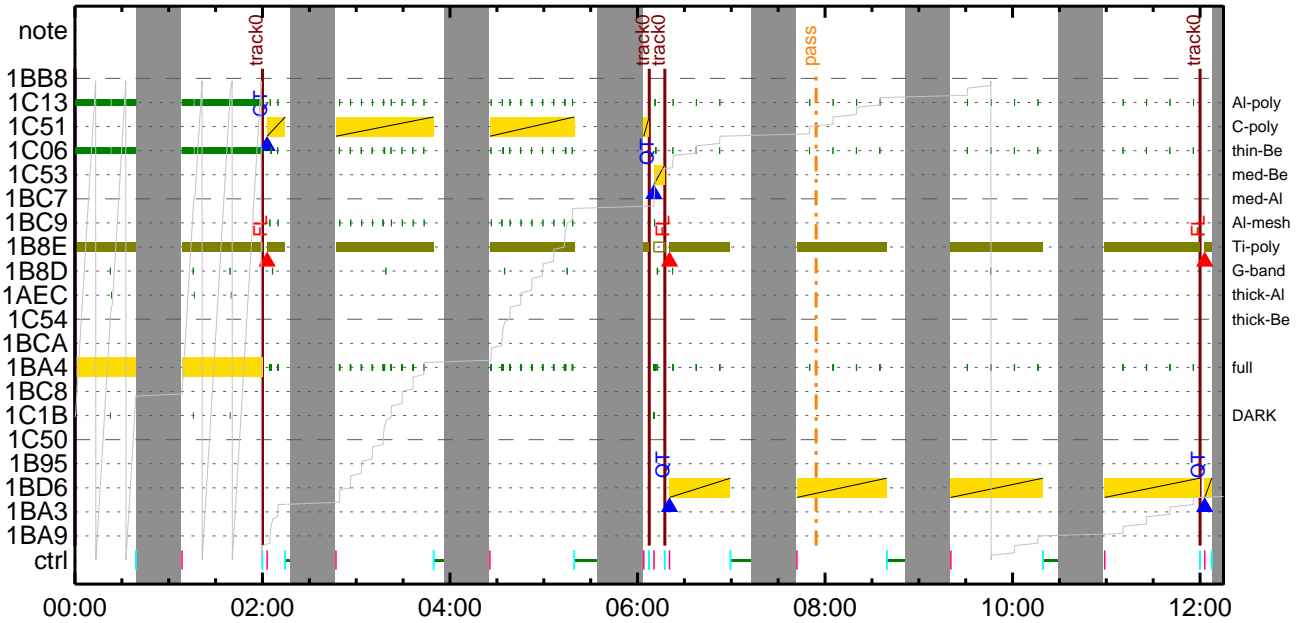
CMDI #0356 2019/07/16



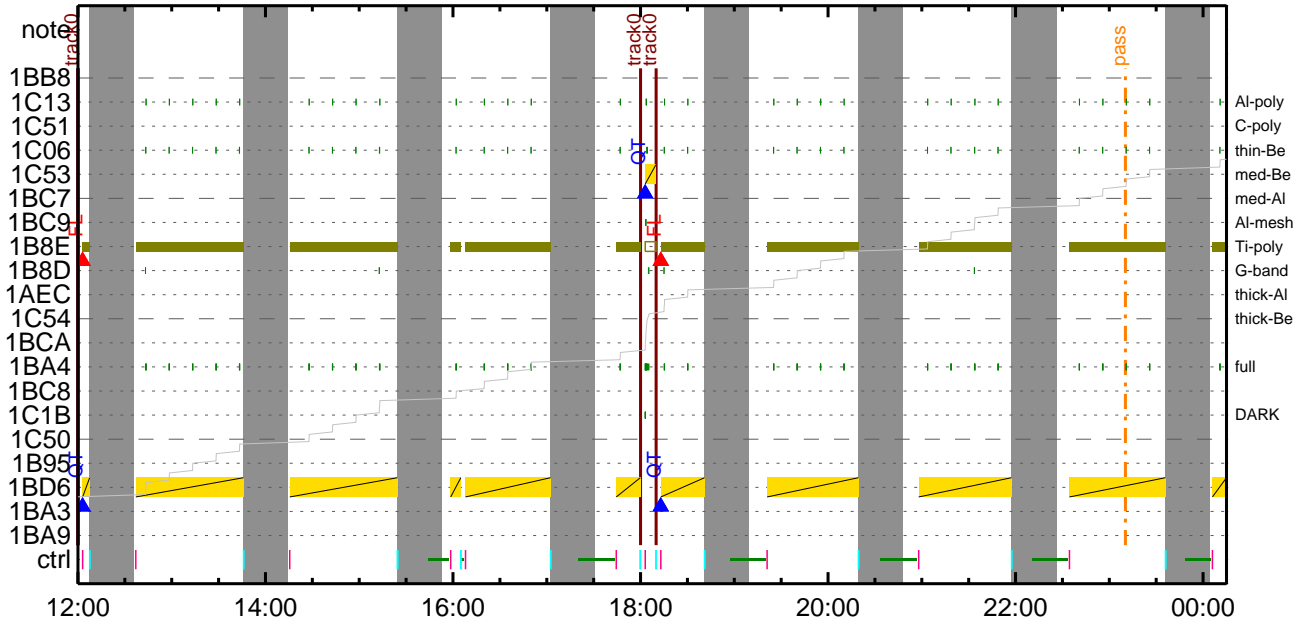
CMDI #0356 2019/07/16



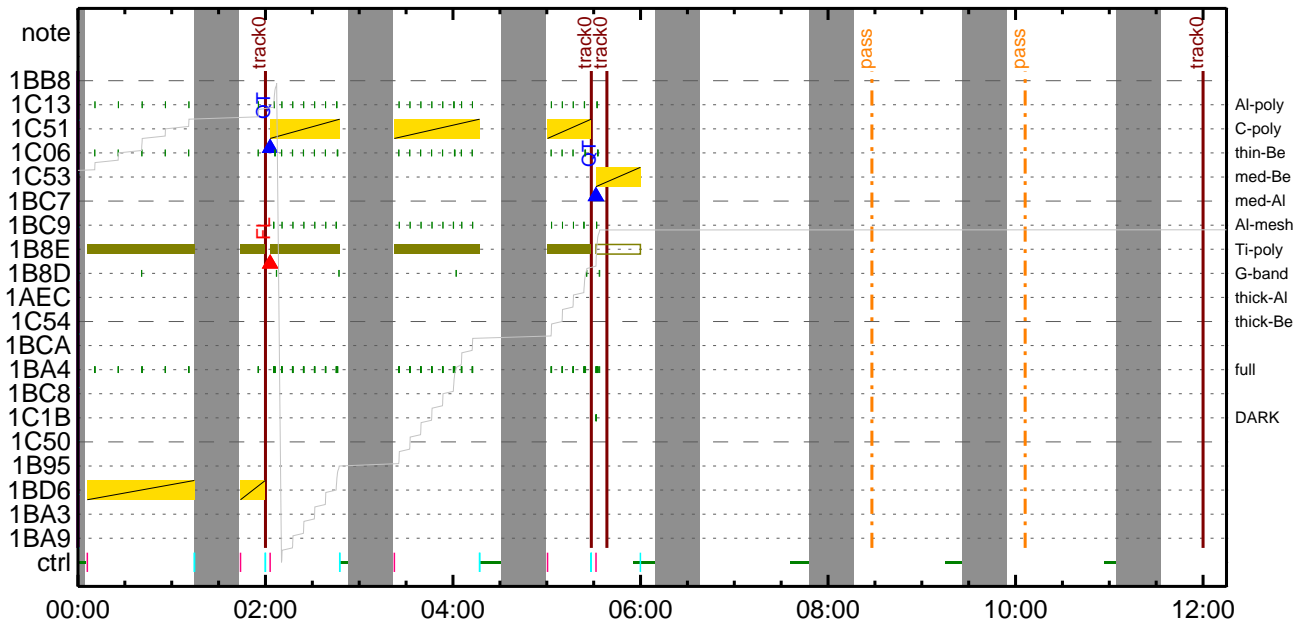
CMDI #0356 2019/07/17



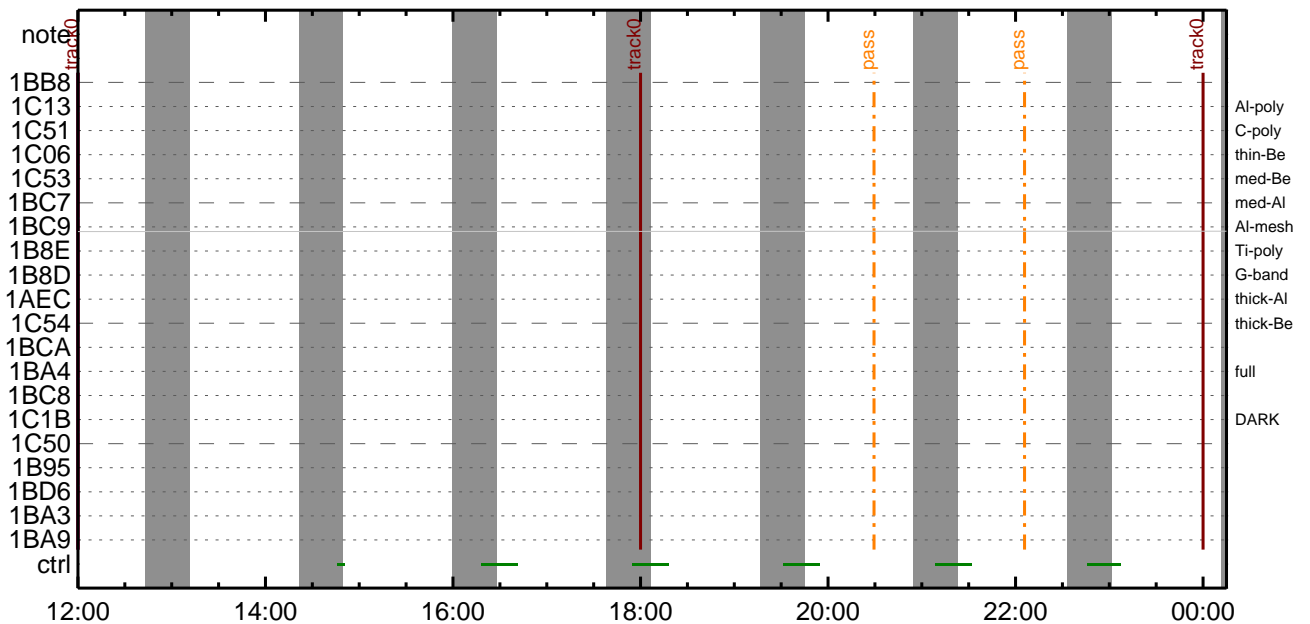
CMDI #0356 2019/07/17



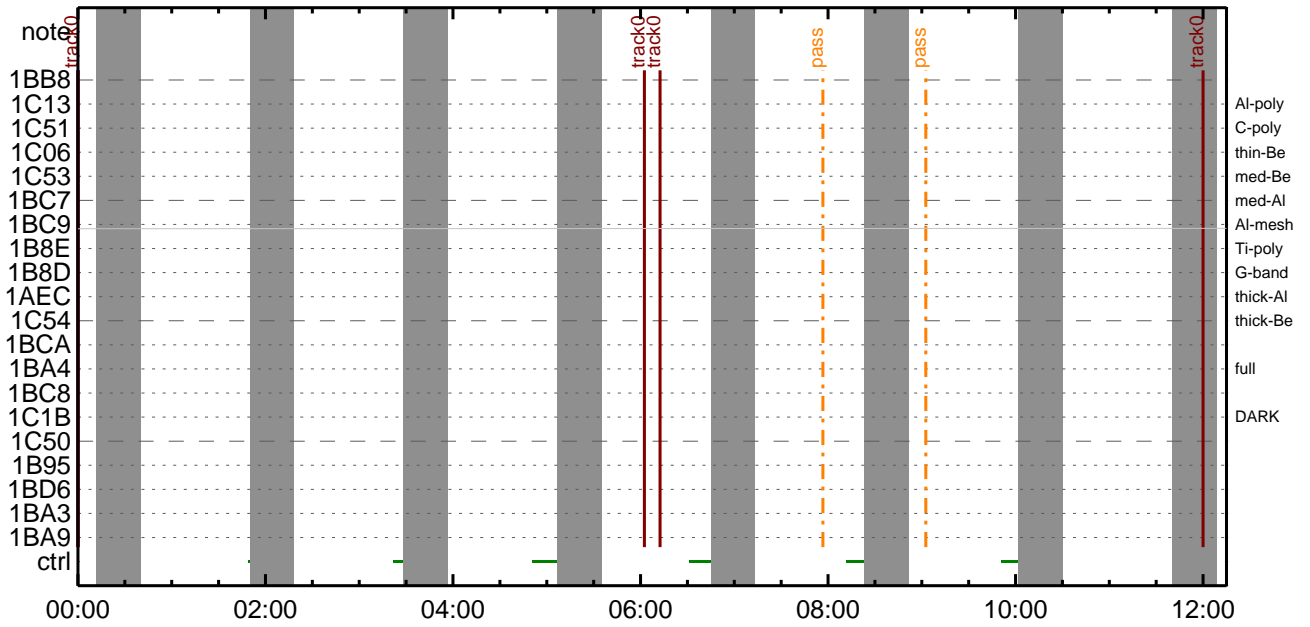
CMDI #0356 2019/07/18



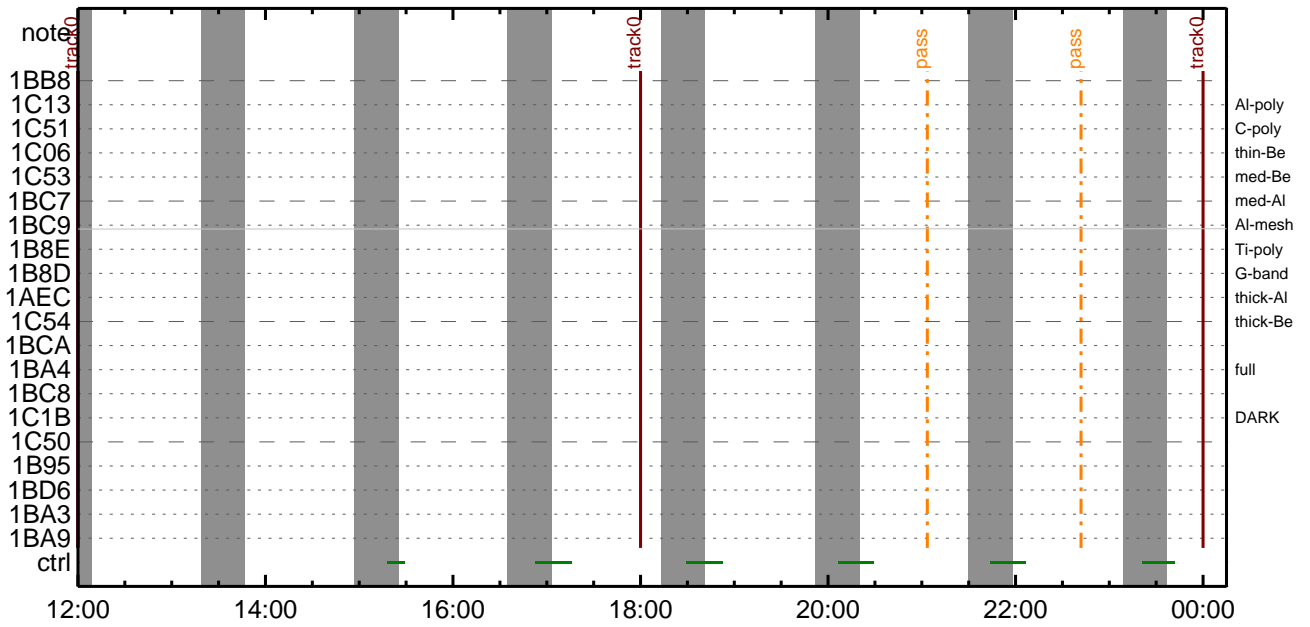
CMDI #0356 2019/07/18



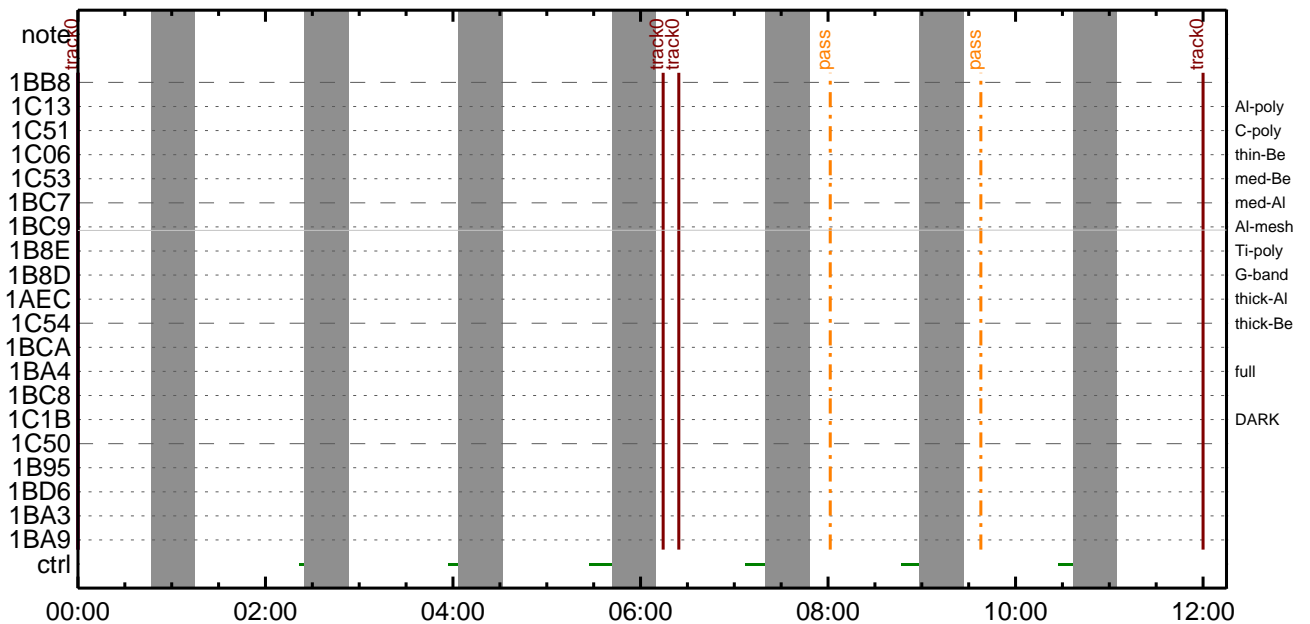
CMDI #0356 2019/07/19



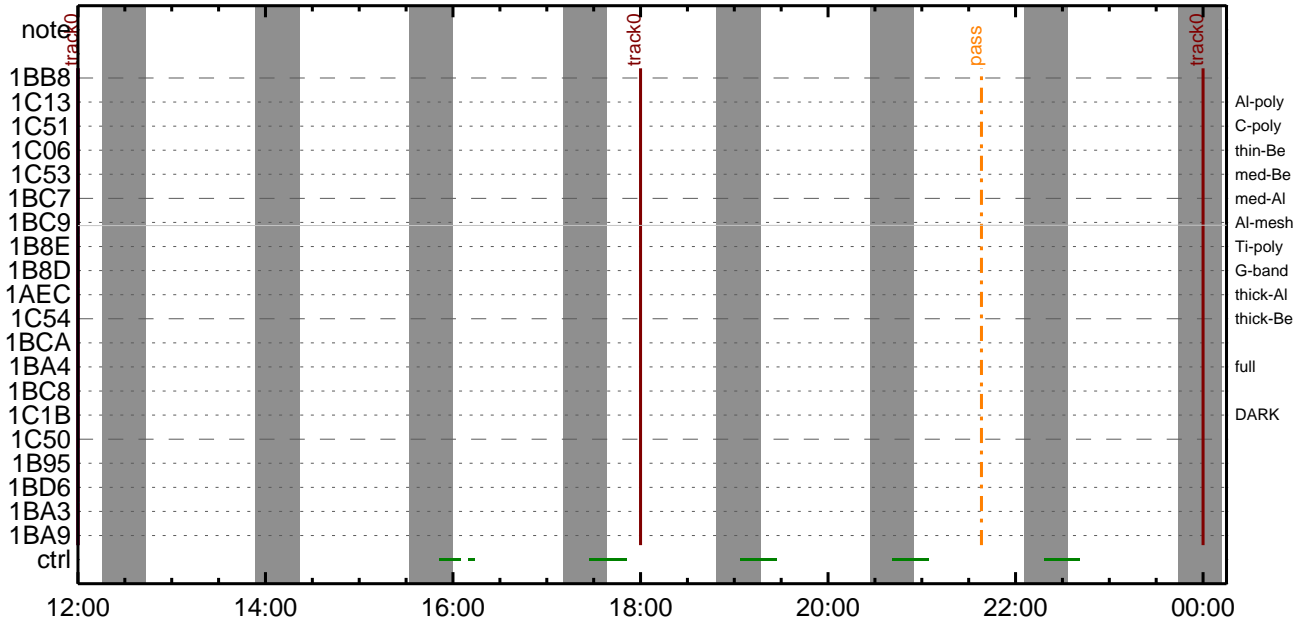
CMDI #0356 2019/07/19



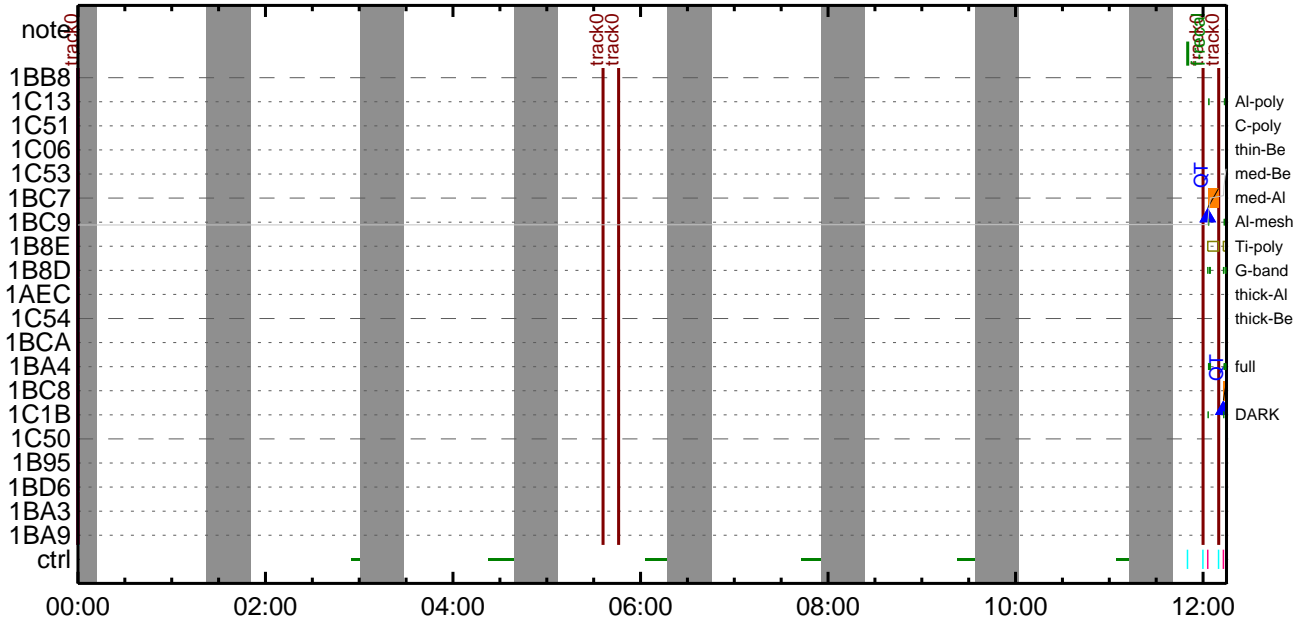
CMDI #0356 2019/07/20



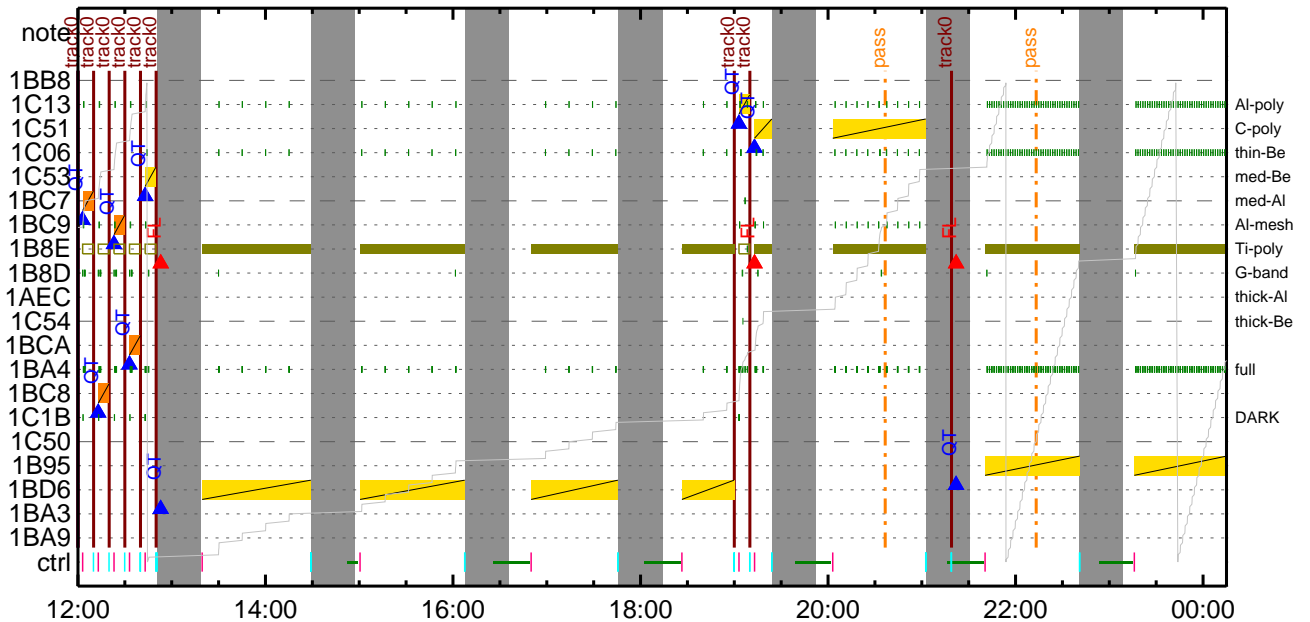
CMDI #0356 2019/07/20



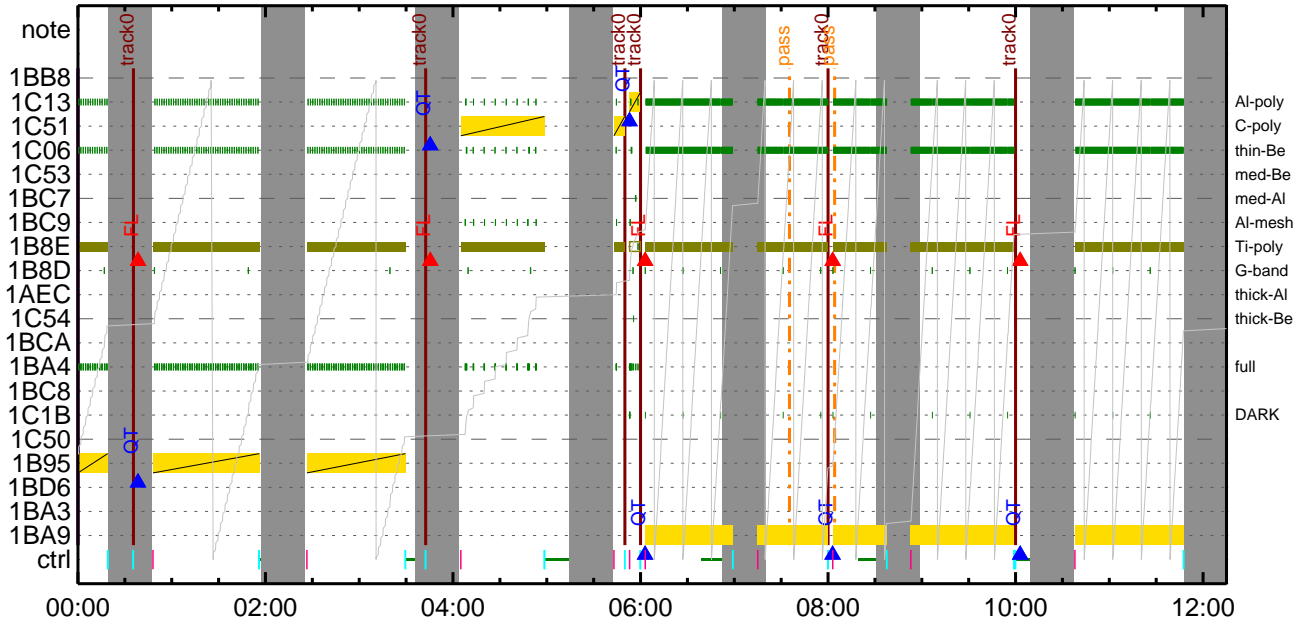
CMDI #0356 2019/07/21



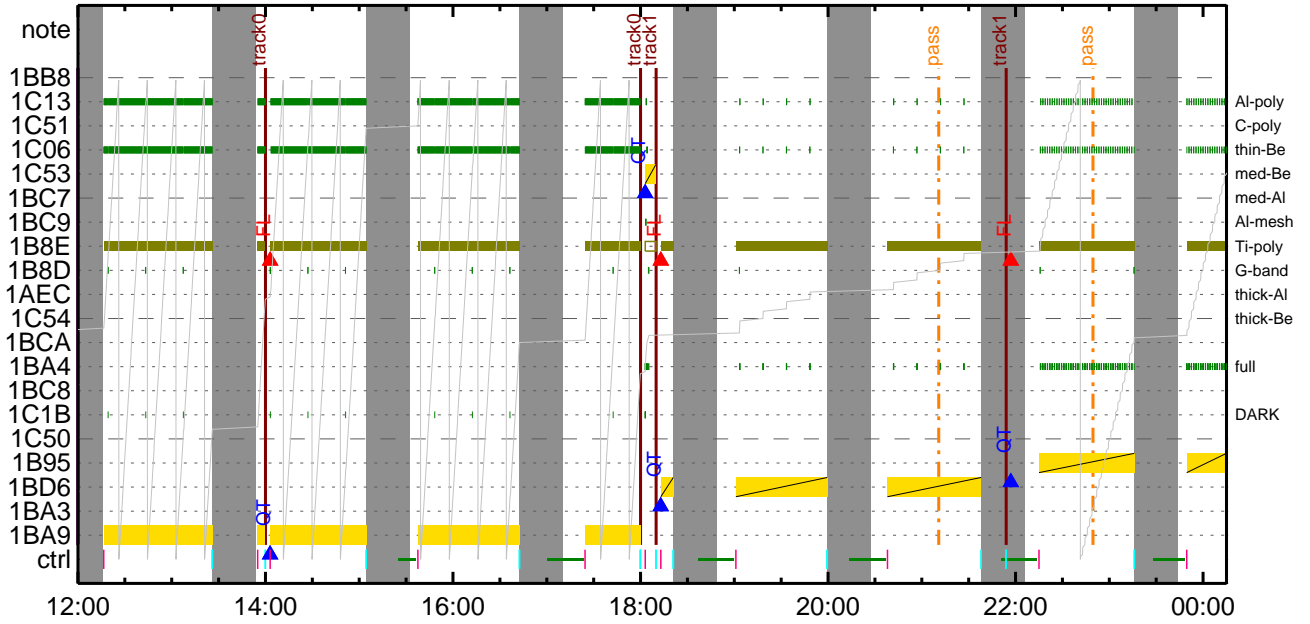
CMDI #0356 2019/07/21



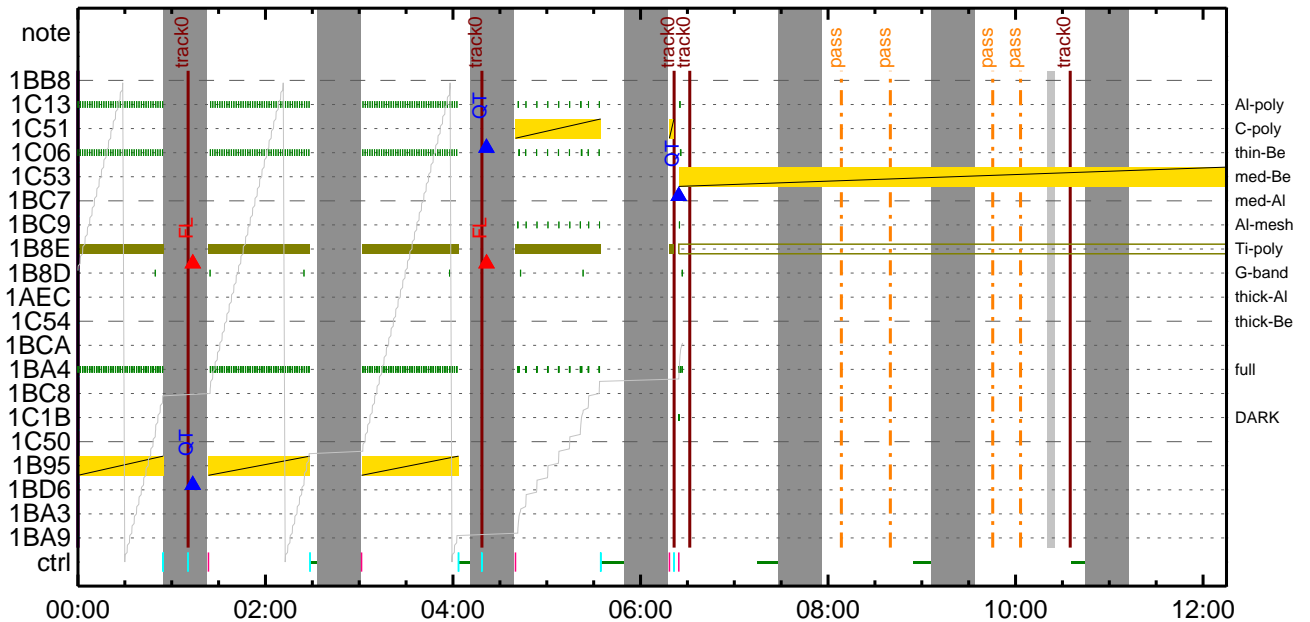
CMDI #0356 2019/07/22



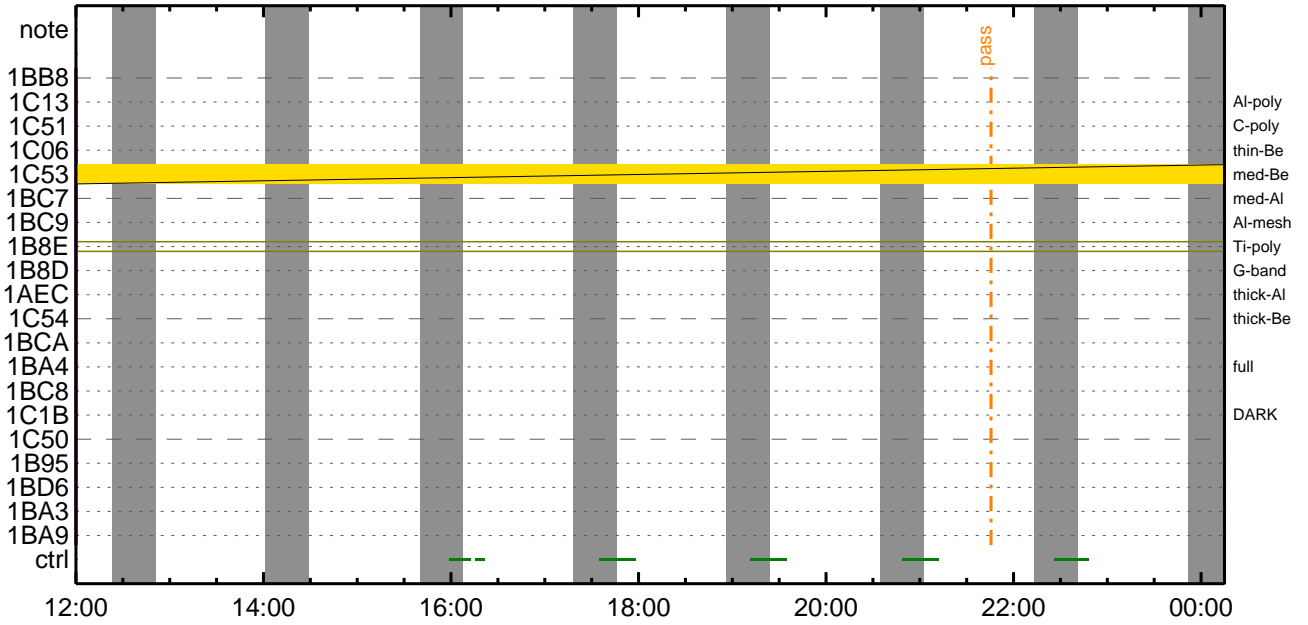
CMDI #0356 2019/07/22



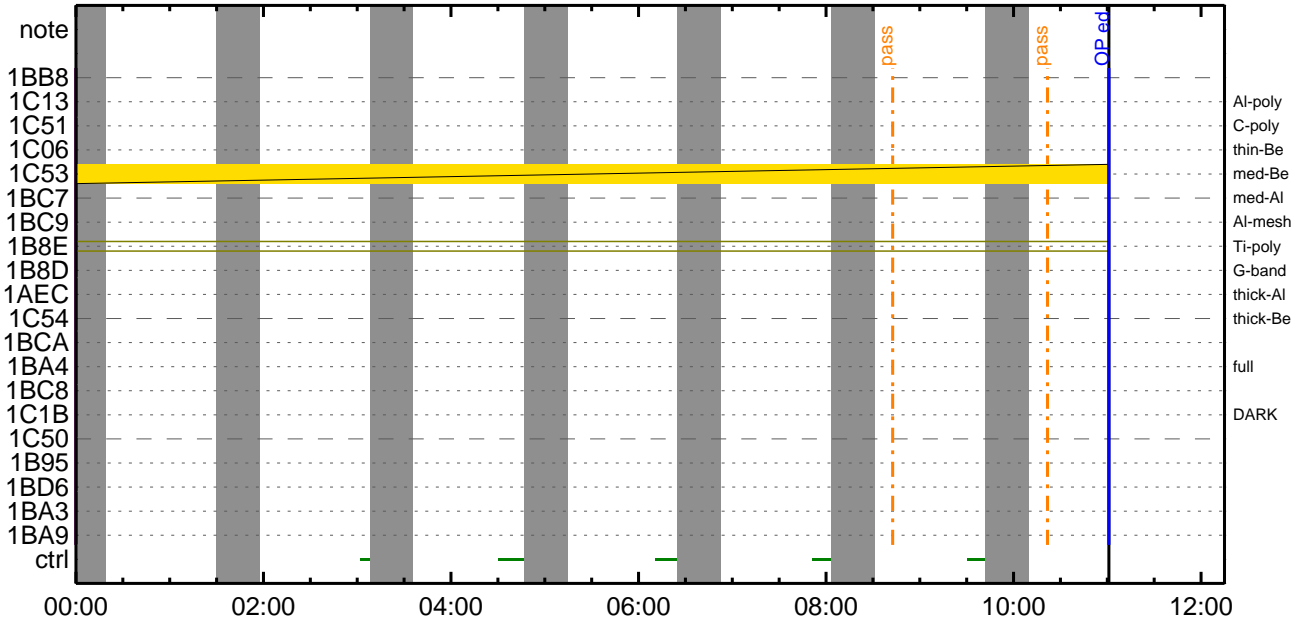
CMDI #0356 2019/07/23



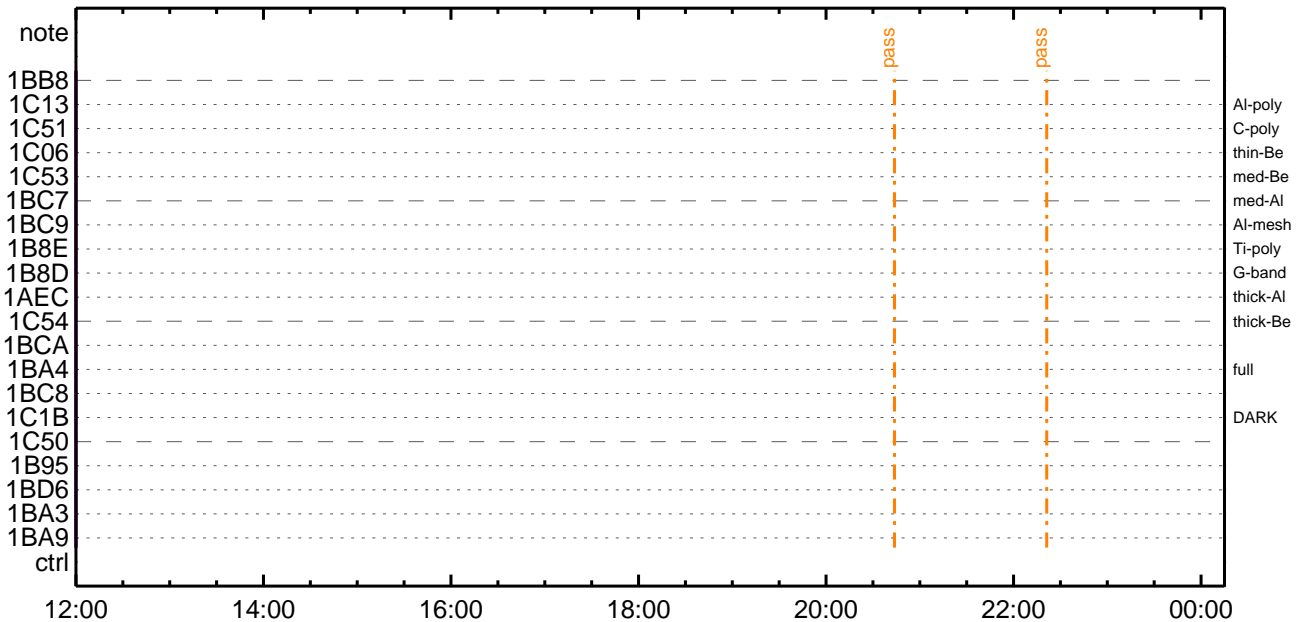
CMDI #0356 2019/07/23



CMDI #0356 2019/07/24



CMDI #0356 2019/07/24




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0096 C.
0097 C.
0098 C. *****
0099 C. OP/OGY1;4YE;|YAYOYx
0100 C. *****
0101 C.
0102 C. ;ãOP/OGY1;4YE;ã
0103 S. OP op-222:OP
0104 ( )
0105 S. OG og-222:OG
0106 ( )
0107 C.
0108 C. ;ãNMOG&OPfî°èYAYOYx;ã
0109 C. NMOG(0x200000-0x207FFF;§ 32 kbyte)
0110 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0111 BC (20 00 7f 01 02)
0112 C. çç[HK1_DMP_TOP_ADRS_1] EQ 40
0113 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0114 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0115 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0116 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0117 +. DC 01-22 DHU_MODE_CHNG
0118 BC (07 0b f8)
0119 C. çç[HK1_PKT_FORM_NO] EQ 7
0120 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0121 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0122 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0123 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0124 C. YAYOYx½ªî»ò³îÇ§
0125 C. çç[HK1_DMP_CHK_FLG] EQ NON
0126 C. RAM ID=NMOG²î½E¹ç•è²îOKò³îÇ§
0127 C.
0128 C. NMOG(0x208000-0x20FFFF;§ 32 kbyte)
0129 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0130 BC (20 80 7f 01 02)
0131 C. çç[HK1_DMP_TOP_ADRS_1] EQ 41
0132 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0133 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0134 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0135 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0136 +. DC 01-22 DHU_MODE_CHNG
0137 BC (07 0b f8)
0138 C. çç[HK1_PKT_FORM_NO] EQ 7
0139 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0140 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0141 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0142 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0143 C. YAYOYx½ªî»ò³îÇ§
0144 C. çç[HK1_DMP_CHK_FLG] EQ NON
0145 C. RAM ID=NMOG²î½E¹ç•è²îOKò³îÇ§
0146 C.
0147 C. NMOG(0x210000-0x2100FF;§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0148 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0149 BC (21 00 41 01 02)
0150 C. çç[HK1_DMP_TOP_ADRS_1] EQ 42
0151 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0152 C. çç[HK1_DMP_BLOCK_NUM] EQ 65
0153 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0154 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0155 +. DC 01-22 DHU_MODE_CHNG
0156 BC (07 0b f8)
0157 C. çç[HK1_PKT_FORM_NO] EQ 7
0158 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0159 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0160 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0161 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0162 C. YAYOYx½ªî»ò³îÇ§
0163 C. çç[HK1_DMP_CHK_FLG] EQ NON
0164 C. RAM ID=NMOG, RAM ID=OP²î½E¹ç•è²îOKò³îÇ§
0165 C.
0166 C. ***** °E²¼òî½A´¶A°EÉ¬òA÷¿@ (½âµ-YAYOYx½E½çòðAÓAæç½ª°¬²è½i¹çççâ) *****
0167 C. DHUYâ;4YE;E½Y½;Yi;4YE;Eòðîã¹
0168 +. DC 01-22 DHU_MODE_CHNG
0169 BC (02 0a f8)
0170 C. çç[HK1_PKT_FORM_NO] EQ 2
0171 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0172 C. çç[HK1_S_TLM_BIT_RATE] EQ 32K
0173 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0174 C.
0175 C. *****
0176 C. TI-CMD SET (OPOG STOP/COPY/START)
0177 C. *****
0178 C.
0179 C. NOTICE ;§ OPOG UPLOAD²¬Á÷¿@NG²î½E¹ç;ç°E²¼òî½TI-CMDÁ÷¿@²î½A¹Ô²•²E²²²³²E;f
0180 C. ²²²¿;çSET²E²DUMP²î½E¹ç•è²îOKò³îÇ§
0181 C.
0182 C. TIY³Y½YOYE²òðAî¿¿(UT)
0183 +. TI 2019-07-16 11:41:00.0
0184 DC 01-B3 DHU_OP_STOP
0185 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0186 C.
0187 +. TI 2019-07-16 11:41:01.0
0188 DC 01-B4 DHU_OP_COPY
0189 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0190 C.
0191 +. TI 2019-07-16 11:41:01.0
0192 DC 01-B5 DHU_OPOG_COPY
0193 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP

```


(a) Spacecraft Operation Procedure (real-commands)

```

main-223 2019-07-16 13:04:19 94 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY~¼Á»Û;ã
0005 C.
0006 C. YÁYB;¼Y³YFYOYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCS : Reload orbital element (send every contact) *****
0010 C. Áí;Ëõ¿òÄó•µ°È»Í×ÁÇóÍYçYÁY×Yí;¼YÉ;ËÈèµ•íÉ;ÈõÈ¼°ÇÔó•ò¿¼í¹çóÍ;çÄ®, ùò¹óèóóçÁ+¿®ó•óÈóóó³óÈ;f
0011 +. DC 02-8E AOCS_ORB_UPD
0012 C.
0013 C.
0014 . C. ***** AOCS Commands (Tracking Curve Upload) *****
0015 C. Upload the Orbit Element and the Target Attitude
0016 C. RAM-ID:TARGET_ATT
0017 . S. RAM ram-150:TARGET_ATT
0018 ( )
0019 C.
0020 C.
0021 C. Set the dump memory area of TARGET_ATT
0022 +. DC 02-48 AOCS_DUMP_SET
0023 BC (07 00 00 00 18 00)
0024 C.
0025 C. <A_STs1>[MEMORY OPERATE SATUS] ADRS = 070000 [ ]
0026 C.
0027 C.
0028 C. Change the TLMFormatNo for the AOCS Dump Format
0029 +. DC 01-22 DHU_MODE_CHNG
0030 BC (04 0b f8)
0031 C.
0032 C. Wait for AOCS_DUMP to end
0033 C.
0034 . C. Check the dump memory
0035 C.
0036 C. Result = OK [ ]
0037 C.
0038 +. DC 01-22 DHU_MODE_CHNG
0039 BC (02 0a f8)
0040 C.
0041 C. <A_***>[TLM STS] FMT = 2 [ ]
0042 C.
0043 +. DC 02-8E AOCS_ORB_UPD
0044 . C.
0045 . C. ***** AOCS Commands (Orbital Element Update) *****
0046 C. Update the orbital element
0047 +. DC 02-50 AOCS_ORB_PRPGT_START
0048 BC (16)
0049 +. DC 02-8E AOCS_ORB_UPD
0050 C.
0051 C. <A_ORB>[ORBIT] EPC = 1288390.3 +- 1.0 (s) [ ]
0052 C.
0053 . C.
0054 . C. Load OBSTBL, dump OBSTBL, enable EIS mode changes
0055 +. DC 07-FC EIS_MODE_CHG_ENA
0056 BC (20)
0057 . C. Verify EIS_MODE_CHG_FLG is ENA
0058 +. DC 07-FC EIS_MODE_MANU
0059 BC (21 02)
0060 . C. Verify EIS in MANUAL mode
0061 . C. Estimated OBSTBL upload time is 1m35s
0062 C. *****
0063 C. EIS START OBSTBL LOAD
0064 C. *****
0065 . S. RAM ram-820:EIS_OBSTBL
0066 ( )
0067 +. DC 07-FC EIS_DUMP_OBSTBL
0068 BC (07 07 07 00 00 70 00)
0069 C.
0070 C. Execute, after the success of OBSTBL upload.
0071 C. Set EIS TI-commands
0072 +. TI 2019-07-16 11:45:50.0
0073 DC 07-FC EIS_MODE_CHG_ENA
0074 BC (20)
0075 . C. [ ] [HK1_TI_CMD_NUM] EQ 1 COUNTUP
0076 C. *****
0077 C. EIS END OBSTBL LOAD
0078 C. *****
0079 C.
0080 . C. ***** MDP `ûÁÍóÍ»ò¼YóÈÁÐó¹óÈDCBC•×²è *****
0081 C. (¼á°ÍYÓYÁYÈYÉYÈYáYçYèóÈ¼¼óó¼Á»Ûó¹óè)
0082 . S. DC-BC dcbc-402:DCBC
0083 (MDP_known_event)
0084 C.
0085 C.
0086 . C. ***** YDÿ!•Í Daily±¿ÍÑóÈ`Øó¹óèDCBC•×²è *****
0087 . S. DC-BC dcbc-153:DCBC
0088 (SPECIAL-CMD_DAILY_OPERATING_DCB)
0089 C.
0090 C.
0091 . C. ;ãLOSÁY$YÁY~¼Á»Û;ã
0092 C.
0093 . C. ***** LOS *****
0094 C.

```

(a) Spacecraft Operation Procedure (real-commands)

```
main-224 2019-07-16 13:04:19 138 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁYŞYÁY~¼Á»Û;ã
0005 C.
0006 C. YÁYŞ;¼Y³YFÝÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;È¿¿ãÁß•µ°È»Í×ÁÇ¿ÍY¿Y×YÍ;¼YÉ;ÈÈè%µ•ííÈ;ÈßÈ¼°ÇÓã•ã¿¼í¹çãÍ;çÁ®, ùã¹ãèßãçÁ+¿®ã•ãÈããã³ãÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. SOT table upload
0016 C. *****
0017 . C. < Stop SP table >
0018 +. DC 07-F0 MDP_SP_CTRL_MANU
0019 BC (61)
0020 C. -----
0021 C. MDP_SP_CTRL_MODE = MANU [ ]
0022 C. -----
0023 C.
0024 . C. <Upload SP Observation Table>
0025 . S. RAM ram-288:MDP_OBS_S
0026 ( )
0027 C.
0028 . C. < Dump RAMID=MDP_OBS_S >
0029 +. DC 07-F0 MDP_DUMP_SPTBL
0030 BC (83 07 00 00 00 38 b8)
0031 C. -----
0032 C. MDP_OBS_S verify = OK/NG [ ]
0033 C. -----
0034 C.
0035 C. *****
0036 C. SOT TI command set
0037 C. *****
0038 C. Execute, after the success of TBL upload.
0039 +. TI 2019-07-16 11:45:18.0
0040 DC 07-F0 MDP_SOT_MODE_OBSV
0041 BC (40)
0042 C. -----
0043 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0044 C. -----
0045 C.
0046 C.
0047 C. ***** XRT START *****
0048 C.
0049 +. DC 07-F0 MDP_XRT_CTRL_MANU
0050 BC (c1)
0051 + DC 07-F0 MDP_XRT_MODE_STBY
0052 BC (c3)
0053 . C. ----- Success Verify ? OK / NG_____
0054 C.
0055 C. XRT Obs. Table Upload
0056 . S. RAM ram-291:MDP_OBS_X
0057 ( )
0058 C.
0059 +. DC 07-F0 MDP_DUMP_XRTTBL
0060 BC (84 07 00 00 00 3a d4)
0061 . C. ----- Comparison Check ? OK / ERR _____
0062 C.
0063 C.
0064 +. DC 07-F0 MDP_XRT_ROI_SET
0065 BC (cd 01 b1 b1 04 04)
0066 + DC 07-F0 MDP_XRT_ROI_SET
0067 BC (cd 02 b1 b1 08 08)
0068 + DC 07-F0 MDP_XRT_ROI_SET
0069 BC (cd 03 b1 b1 08 08)
0070 + DC 07-F0 MDP_XRT_ROI_SET
0071 BC (cd 04 b1 b1 06 06)
0072 + DC 07-F0 MDP_XRT_ROI_SET
0073 BC (cd 05 85 83 06 06)
0074 + DC 07-F0 MDP_XRT_ROI_SET
0075 BC (cd 06 85 83 06 06)
0076 + DC 07-F0 MDP_XRT_ROI_SET
0077 BC (cd 07 85 83 08 08)
0078 + DC 07-F0 MDP_XRT_ROI_SET
0079 BC (cd 08 80 80 20 20)
0080 + DC 07-F0 MDP_XRT_ROI_SET
0081 BC (cd 09 80 80 20 08)
0082 + DC 07-F0 MDP_XRT_ROI_SET
0083 BC (cd 0a 80 80 08 20)
0084 + DC 07-F0 MDP_XRT_ROI_SET
0085 BC (cd 0b 80 80 08 08)
0086 + DC 07-F0 MDP_XRT_ROI_SET
0087 BC (cd 0c c0 c0 10 10)
0088 + DC 07-F0 MDP_XRT_ROI_SET
0089 BC (cd 0d 40 c0 10 10)
0090 + DC 07-F0 MDP_XRT_ROI_SET
0091 BC (cd 0e 40 40 10 10)
0092 + DC 07-F0 MDP_XRT_ROI_SET
0093 BC (cd 0f 80 80 06 06)
0094 + DC 07-F0 MDP_XRT_ROI_SET
0095 BC (cd 10 80 80 08 08)
```



```
0096 + DC 07-F0 MDP_XRT_FLD_DIS
0097 BC (d9)
0098 + DC 07-F0 MDP_XRT_FLRCTRL_DIS
0099 BC (c9)
0100 + DC 07-F0 MDP_XRT_ARS_DIS
0101 BC (d5)
0102 + DC 07-F0 MDP_XRT_AEC_RESET
0103 BC (d0)
0104 + DC 07-F0 MDP_XRT_FLD_RESET
0105 BC (da)
0106 + DC 07-F0 MDP_XRT_QT_PROG_SET
0107 BC (c4 05)
0108 + DC 07-F0 MDP_XRT_FL_PROG_SET
0109 BC (c5 0d)
0110 . C. ----- Success Verify ? OK / NG ____
0111 C.
0112 C.
0113 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0114 C.
0115 + DC 07-F0 MDP_XRT_MODE_OBSV
0116 BC (c2)
0117 + TI 2019-07-16 11:45:02.0
0118 DC 07-F0 MDP_XRT_MODE_OBSV
0119 BC (c2)
0120 . C. ----- Success Verify ? OK / NG ____
0121 C.
0122 C. ***** XRT END *****
0123 C.
0124 . C. ***** MDP 'ûÃîñî»ö%ÿñÊÂðñ¹ñèDCBC•x²è *****
0125 C. (%â°îÿÓÿÃÿÈÿPÿËÿâÿçÿèñ%¼ññ¼Ã»Ûñ¹ñè)
0126 . S. DC-BC dcbc-402:DCBC
0127 (MDP_known_event)
0128 C.
0129 C.
0130 . C. ***** ÿDÿ¹•î Daily±;îññÊ'Øñ¹ñèDCBC•x²è *****
0131 . S. DC-BC dcbc-153:DCBC
0132 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0133 C.
0134 C.
0135 . C. ;ãLOSÿÃÿSÿËÿ-¼Ã»Û;ã
0136 C.
0137 . C. ***** LOS *****
0138 C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-225 2019-07-16 13:04:19 29 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY~¼Á»Û;ã
0005 C.
0006 C. YÀYB;¼Y³YBYÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;È¿²Á²•µ°Æ»Í×ÁÇ²ÍYçYÁY×Yí;¼YÉ;ÈÈèµ•íÍÉ;È²È¼°ÇÒ²•²¿¼í¹ç²Í;çÀ®, ù²¹²è²²²çÁ+¿®²•²È²²²³²È;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 C.
0015 . C. ***** MDP `úÁí²í»ò¼Y²ÈÁ²²¹²èDCBC•x²è *****
0016 C. (¼á°íYÓYÁYÈY²YÈYáYçYè²²¼²²¼Á»Û²¹²è)
0017 . S. DC-BC dcbc-402:DCBC
0018 (MDP_known_event)
0019 C.
0020 C.
0021 . C. ***** YDY¹•Ï Daily+¿ÍÑ²È´Ø²¹²èDCBC•x²è *****
0022 . S. DC-BC dcbc-153:DCBC
0023 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0024 C.
0025 C.
0026 . C. ;ãLOSÁY$YÁY~¼Á»Û;ã
0027 C.
0028 . C. ***** LOS *****
0029 C.
```

Jul 16, 19 13:04

XRT_OGLIST_0356.chk

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*** OP Sequence for XRT ***

2019/07/16	11:55:54.0	XRT_CTRL_MANU_402_OG [0x192]						
		MDP_XRT_CTRL_MANU	1	07-F0	c1			
2019/07/16	11:55:56.0	XRT_CTRL_MANU_402_OG [0x192]						
		MDP_XRT_CTRL_MANU	1	07-F0	c1			
2019/07/16	11:55:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]						
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00			
2019/07/16	11:56:00.0	AOCS_Ore-point_Start_1_OG [0x097]						
		AOCU_NM	5	02-76	02 00 00 00 00			
2019/07/16	11:56:18.0	XRT_FLD_ENA_411_OG [0x19b]						
		MDP_XRT_FLD_ENA	1	07-F0	d8			
2019/07/16	11:56:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]						
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8			
2019/07/16	11:56:22.0	XRT_AEC_RESET_448_OG [0x1c0]						
		MDP_XRT_AEC_RESET	1	07-F0	d0			
2019/07/16	11:56:24.0	XRT_ARS_DIS_423_OG [0x1a7]						
		MDP_XRT_ARS_DIS	1	07-F0	d5			
2019/07/16	11:56:26.0	XRT_FLD_RESET_434_OG [0x1b2]						
		MDP_XRT_FLD_RESET	1	07-F0	da			
2019/07/16	11:58:56.0	XRT_QT_PROG_SET_407_OG [0x197]						
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 08			
2019/07/16	11:58:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]						
		MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d			
2019/07/16	12:01:00.0	XRT_Custom_430_OG [0x1ae]						
2019/07/16	12:02:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]						
		MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2019/07/16	13:10:30.0	XRT_CTRL_MANU_400_OG [0x190]						
		MDP_XRT_CTRL_MANU	1	07-F0	c1			
2019/07/16	13:10:32.0	XRT_CTRL_MANU_402_OG [0x192]						
		MDP_XRT_CTRL_MANU	1	07-F0	c1			
2019/07/16	13:10:34.0	XRT_FLD_RESET_415_OG [0x19f]						
		MDP_XRT_FLD_RESET	1	07-F0	da			
2019/07/16	13:10:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]						
		MDP_XRT_PREFLR_STRT	1	07-F0	e8			
2019/07/16	13:13:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]						
		MDP_XRT_PREFLR_STOP	1	07-F0	e9			
2019/07/16	13:39:30.0	XRT_Custom_430_OG [0x1ae]						
2019/07/16	13:40:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]						
		MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2019/07/16	14:49:00.0	XRT_CTRL_MANU_400_OG [0x190]						
		MDP_XRT_CTRL_MANU	1	07-F0	c1			
2019/07/16	14:49:02.0	XRT_CTRL_MANU_402_OG [0x192]						
		MDP_XRT_CTRL_MANU	1	07-F0	c1			
2019/07/16	14:49:04.0	XRT_FLD_RESET_415_OG [0x19f]						
		MDP_XRT_FLD_RESET	1	07-F0	da			
2019/07/16	14:49:06.0	XRT_PREFLR_STRT_435_OG [0x1b3]						
		MDP_XRT_PREFLR_STRT	1	07-F0	e8			
2019/07/16	14:52:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]						
		MDP_XRT_PREFLR_STOP	1	07-F0	e9			
2019/07/16	15:21:00.0	XRT_Custom_430_OG [0x1ae]						
2019/07/16	15:22:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]						
		MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2019/07/16	16:27:30.0	XRT_CTRL_MANU_400_OG [0x190]						
		MDP_XRT_CTRL_MANU	1	07-F0	c1			
2019/07/16	16:27:32.0	XRT_CTRL_MANU_402_OG [0x192]						
		MDP_XRT_CTRL_MANU	1	07-F0	c1			
2019/07/16	16:27:34.0	XRT_FLD_RESET_415_OG [0x19f]						
		MDP_XRT_FLD_RESET	1	07-F0	da			
2019/07/16	16:27:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]						
		MDP_XRT_PREFLR_STRT	1	07-F0	e8			
2019/07/16	16:30:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]						
		MDP_XRT_PREFLR_STOP	1	07-F0	e9			
2019/07/16	17:09:00.0	XRT_Custom_430_OG [0x1ae]						
2019/07/16	17:10:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]						
		MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2019/07/16	17:51:54.0	XRT_CTRL_MANU_402_OG [0x192]						
		MDP_XRT_CTRL_MANU	1	07-F0	c1			
2019/07/16	17:51:56.0	XRT_CTRL_MANU_402_OG [0x192]						
		MDP_XRT_CTRL_MANU	1	07-F0	c1			
2019/07/16	17:51:58.0	XRT_FOCUS_POSITION_406_OG [0x196]						
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00			
2019/07/16	17:52:00.0	AOCS_Ore-point_Start_2_OG [0x098]						
		AOCU_NM	5	02-76	00 00 00 00 00			
2019/07/16	17:52:18.0	XRT_FLD_DIS_409_OG [0x199]						
		MDP_XRT_FLD_DIS	1	07-F0	d9			
2019/07/16	17:52:20.0	XRT_FLRCTRL_DIS_413_OG [0x19d]						
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9			
2019/07/16	17:52:22.0	XRT_ARS_DIS_443_OG [0x1bb]						
		MDP_XRT_ARS_DIS	1	07-F0	d5			
2019/07/16	17:54:58.0	XRT_QT_PROG_SET_432_OG [0x1b0]						
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 10			
2019/07/16	17:55:00.0	XRT_CTRL_AUTO_408_OG [0x198]						
		MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2019/07/16	18:01:54.0	XRT_CTRL_MANU_402_OG [0x192]						
		MDP_XRT_CTRL_MANU	1	07-F0	c1			
2019/07/16	18:01:56.0	XRT_CTRL_MANU_402_OG [0x192]						
		MDP_XRT_CTRL_MANU	1	07-F0	c1			
2019/07/16	18:01:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]						
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00			
2019/07/16	18:02:00.0	AOCS_Ore-point_Start_1_OG [0x097]						
		AOCU_NM	5	02-76	02 00 00 00 00			
2019/07/16	18:02:18.0	XRT_FLD_ENA_411_OG [0x19b]						

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2019/07/16	18:02:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLD_ENA	1	07-F0	d8	
			MDP_XRT_FLRCTRL_ENA	1	07-F0	c8	
2019/07/16	18:02:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0	
2019/07/16	18:02:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5	
2019/07/16	18:02:26.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_FLD_RESET	1	07-F0	da	
2019/07/16	18:04:56.0	XRT_QT_PROG_SET_407_OG [0x197]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	08
2019/07/16	18:04:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_FL_PROG_SET	2	07-F0	c5	0d
2019/07/16	18:05:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2019/07/16	18:05:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/16	18:05:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/16	18:05:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da	
2019/07/16	18:05:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2019/07/16	18:08:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2019/07/16	18:45:31.0	XRT_Custom_430_OG [0x1ae]					
2019/07/16	18:46:31.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2019/07/16	19:44:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/16	19:44:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/16	19:44:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da	
2019/07/16	19:44:06.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2019/07/16	19:47:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2019/07/16	20:22:00.0	XRT_Custom_430_OG [0x1ae]					
2019/07/16	20:23:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2019/07/16	21:22:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/16	21:22:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/16	21:22:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da	
2019/07/16	21:22:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2019/07/16	21:25:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2019/07/16	21:59:30.0	XRT_Custom_430_OG [0x1ae]					
2019/07/16	22:00:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2019/07/16	22:59:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/16	22:59:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/16	22:59:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]	XRT_FOCUS_POSITION	4	07-F8	22	fe 97 00
2019/07/16	23:00:00.0	AOCS_ORe-point_Start_3_OG [0x099]	AOCU_NM	5	02-76	00	2c ed ba b9
2019/07/16	23:00:18.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8	
2019/07/16	23:00:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8	
2019/07/16	23:00:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0	
2019/07/16	23:00:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5	
2019/07/16	23:00:26.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_FLD_RESET	1	07-F0	da	
2019/07/16	23:01:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/16	23:01:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/16	23:01:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da	
2019/07/16	23:01:06.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2019/07/16	23:02:56.0	XRT_QT_PROG_SET_407_OG [0x197]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	08
2019/07/16	23:02:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_FL_PROG_SET	2	07-F0	c5	0d
2019/07/16	23:04:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2019/07/16	23:34:30.0	XRT_Custom_430_OG [0x1ae]					
2019/07/16	23:35:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2019/07/17	00:39:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/17	00:39:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	

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2019/07/17	00:39:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da
2019/07/17	00:39:06.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2019/07/17	00:42:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2019/07/17	01:07:30.0	XRT_Custom_430_OG [0x1ae]				
2019/07/17	01:08:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2019/07/17	01:59:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/17	01:59:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/17	01:59:58.0	XRT_FOCUS_POSITION_406_OG [0x196]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2019/07/17	02:00:00.0	AOCS_Ore-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00 00
2019/07/17	02:00:18.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8
2019/07/17	02:00:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2019/07/17	02:00:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0
2019/07/17	02:00:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5
2019/07/17	02:00:26.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_FLD_RESET	1	07-F0	da
2019/07/17	02:02:56.0	XRT_QT_PROG_SET_405_OG [0x195]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 12
2019/07/17	02:02:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d
2019/07/17	02:03:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2019/07/17	02:14:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/17	02:14:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/17	02:14:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da
2019/07/17	02:14:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2019/07/17	02:17:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2019/07/17	02:46:00.0	XRT_Custom_430_OG [0x1ae]				
2019/07/17	02:47:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2019/07/17	03:49:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/17	03:49:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/17	03:49:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da
2019/07/17	03:49:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2019/07/17	03:52:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2019/07/17	04:24:30.0	XRT_Custom_430_OG [0x1ae]				
2019/07/17	04:25:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2019/07/17	05:19:30.5	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/17	05:19:33.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/17	05:19:35.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da
2019/07/17	05:19:37.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2019/07/17	05:22:45.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2019/07/17	06:03:00.0	XRT_Custom_430_OG [0x1ae]				
2019/07/17	06:04:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2019/07/17	06:07:24.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/17	06:07:26.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/17	06:07:28.0	XRT_FOCUS_POSITION_406_OG [0x196]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2019/07/17	06:07:30.0	AOCS_Ore-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00 00
2019/07/17	06:07:48.0	XRT_FLD_DIS_409_OG [0x199]	MDP_XRT_FLD_DIS	1	07-F0	d9
2019/07/17	06:07:50.0	XRT_FLRCTRL_DIS_413_OG [0x19d]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2019/07/17	06:07:52.0	XRT_ARS_DIS_443_OG [0x1bb]	MDP_XRT_ARS_DIS	1	07-F0	d5
2019/07/17	06:10:28.0	XRT_QT_PROG_SET_432_OG [0x1b0]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 10
2019/07/17	06:10:30.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2019/07/17	06:17:24.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/17	06:17:26.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1

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2019/07/17	06:17:28.0	XRT_FOCUS_POSITION_406_OG [0x196]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/17	06:17:30.0	AOCS_OrE-point_Start_4_OG [0x09a]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2019/07/17	06:17:48.0	XRT_FLD_ENA_411_OG [0x19b]	AOCU_NM	5	02-76	00 03 02 17 74
2019/07/17	06:17:50.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLD_ENA	1	07-F0	d8
2019/07/17	06:17:52.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2019/07/17	06:17:54.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_AEC_RESET	1	07-F0	d0
2019/07/17	06:17:56.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_ARS_DIS	1	07-F0	d5
2019/07/17	06:20:26.0	XRT_QT_PROG_SET_436_OG [0x1b4]	MDP_XRT_FLD_RESET	1	07-F0	da
2019/07/17	06:20:28.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 03
2019/07/17	06:20:30.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d
2019/07/17	06:59:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2019/07/17	06:59:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/17	06:59:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/17	06:59:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_FLD_RESET	1	07-F0	da
2019/07/17	07:02:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2019/07/17	07:41:00.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2019/07/17	07:42:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	XRT_Custom_430_OG [0x1ae]			
2019/07/17	08:39:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2019/07/17	08:39:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/17	08:39:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/17	08:39:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_FLD_RESET	1	07-F0	da
2019/07/17	08:42:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2019/07/17	09:19:30.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2019/07/17	09:20:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	XRT_Custom_430_OG [0x1ae]			
2019/07/17	10:19:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2019/07/17	10:19:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/17	10:19:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/17	10:19:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_FLD_RESET	1	07-F0	da
2019/07/17	10:22:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2019/07/17	10:58:00.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2019/07/17	10:59:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	XRT_Custom_430_OG [0x1ae]			
2019/07/17	11:59:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2019/07/17	11:59:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/17	11:59:58.0	XRT_FOCUS_POSITION_406_OG [0x196]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/17	12:00:00.0	AOCS_OrE-point_Start_5_OG [0x09b]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2019/07/17	12:00:18.0	XRT_FLD_ENA_411_OG [0x19b]	AOCU_NM	5	02-76	00 03 02 ec 19
2019/07/17	12:00:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLD_ENA	1	07-F0	d8
2019/07/17	12:00:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2019/07/17	12:00:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_AEC_RESET	1	07-F0	d0
2019/07/17	12:00:26.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_ARS_DIS	1	07-F0	d5
2019/07/17	12:02:56.0	XRT_QT_PROG_SET_436_OG [0x1b4]	MDP_XRT_FLD_RESET	1	07-F0	da
2019/07/17	12:02:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 03
2019/07/17	12:03:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d
2019/07/17	12:07:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2019/07/17	12:07:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/17	12:07:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/17	12:07:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_FLD_RESET	1	07-F0	da
2019/07/17	12:10:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8

2019/07/17	12:36:00.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2019/07/17	12:37:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]						
2019/07/17	13:46:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2019/07/17	13:46:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/17	13:46:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/17	13:46:06.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_FLD_RESET	1	07-F0	da		
2019/07/17	13:49:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2019/07/17	14:14:30.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2019/07/17	14:15:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]						
2019/07/17	15:24:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2019/07/17	15:24:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/17	15:24:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/17	15:24:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_FLD_RESET	1	07-F0	da		
2019/07/17	15:27:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2019/07/17	15:57:31.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2019/07/17	15:58:31.0	XRT_CTRL_AUTO_424_OG [0x1a8]						
2019/07/17	16:05:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2019/07/17	16:05:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/17	16:05:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/17	16:05:06.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_FLD_RESET	1	07-F0	da		
2019/07/17	16:07:00.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2019/07/17	16:08:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]						
2019/07/17	16:08:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2019/07/17	17:02:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2019/07/17	17:02:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/17	17:02:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/17	17:02:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_FLD_RESET	1	07-F0	da		
2019/07/17	17:02:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2019/07/17	17:05:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2019/07/17	17:43:30.0	XRT_Custom_430_OG [0x1ae]						
2019/07/17	17:44:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]						
2019/07/17	17:59:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2019/07/17	17:59:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/17	17:59:58.0	XRT_FOCUS_POSITION_406_OG [0x196]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/17	18:00:00.0	AOCS_Ore-point_Start_2_OG [0x098]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00		
2019/07/17	18:00:18.0	XRT_FLD_DIS_409_OG [0x199]	AOCU_NM	5	02-76	00 00 00 00 00		
2019/07/17	18:00:20.0	XRT_FLRCTRL_DIS_413_OG [0x19d]	MDP_XRT_FLD_DIS	1	07-F0	d9		
2019/07/17	18:00:22.0	XRT_ARS_DIS_443_OG [0x1bb]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2019/07/17	18:02:58.0	XRT_QT_PROG_SET_432_OG [0x1b0]	MDP_XRT_ARS_DIS	1	07-F0	d5		
2019/07/17	18:03:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 10		
2019/07/17	18:09:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2019/07/17	18:09:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/17	18:09:58.0	XRT_FOCUS_POSITION_406_OG [0x196]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/17	18:10:00.0	AOCS_Ore-point_Start_6_OG [0x09c]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00		
2019/07/17	18:10:18.0	XRT_FLD_ENA_411_OG [0x19b]	AOCU_NM	5	02-76	00 03 02 2b be		
2019/07/17	18:10:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLD_ENA	1	07-F0	d8		
2019/07/17	18:10:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8		
2019/07/17	18:10:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_AEC_RESET	1	07-F0	d0		
2019/07/17	18:10:26.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_ARS_DIS	1	07-F0	d5		
2019/07/17	18:12:56.0	XRT_QT_PROG_SET_436_OG [0x1b4]	MDP_XRT_FLD_RESET	1	07-F0	da		

2019/07/17	18:12:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	03
			MDP_XRT_FL_PROG_SET	2	07-F0	c5	0d
2019/07/17	18:13:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2019/07/17	18:41:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/17	18:41:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/17	18:41:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da	
2019/07/17	18:41:06.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2019/07/17	18:44:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2019/07/17	19:20:01.0	XRT_Custom_430_OG [0x1ae]					
2019/07/17	19:21:01.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2019/07/17	20:19:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/17	20:19:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/17	20:19:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da	
2019/07/17	20:19:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2019/07/17	20:22:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2019/07/17	20:57:00.0	XRT_Custom_430_OG [0x1ae]					
2019/07/17	20:58:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2019/07/17	21:57:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/17	21:57:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/17	21:57:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da	
2019/07/17	21:57:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2019/07/17	22:00:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2019/07/17	22:33:30.0	XRT_Custom_430_OG [0x1ae]					
2019/07/17	22:34:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2019/07/17	23:36:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/17	23:36:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/17	23:36:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da	
2019/07/17	23:36:06.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2019/07/17	23:39:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2019/07/18	00:05:00.0	XRT_Custom_430_OG [0x1ae]					
2019/07/18	00:06:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2019/07/18	01:14:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/18	01:14:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/18	01:14:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da	
2019/07/18	01:14:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2019/07/18	01:17:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2019/07/18	01:43:00.0	XRT_Custom_430_OG [0x1ae]					
2019/07/18	01:44:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2019/07/18	01:59:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/18	01:59:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/18	01:59:58.0	XRT_FOCUS_POSITION_406_OG [0x196]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa	00
2019/07/18	02:00:00.0	AOCS_OrE-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00	00
2019/07/18	02:00:18.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8	
2019/07/18	02:00:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8	
2019/07/18	02:00:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0	
2019/07/18	02:00:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5	
2019/07/18	02:00:26.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_FLD_RESET	1	07-F0	da	
2019/07/18	02:02:56.0	XRT_QT_PROG_SET_405_OG [0x195]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	12
2019/07/18	02:02:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_FL_PROG_SET	2	07-F0	c5	0d
2019/07/18	02:03:00.5	XRT_CTRL_AUTO_408_OG [0x198]					

2019/07/18	02:47:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
			MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/18	02:47:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/18	02:47:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da		
2019/07/18	02:47:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2019/07/18	02:50:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2019/07/18	03:21:30.0	XRT_Custom_430_OG [0x1ae]						
2019/07/18	03:22:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2019/07/18	04:17:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/18	04:17:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/18	04:17:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da		
2019/07/18	04:17:06.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2019/07/18	04:20:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2019/07/18	04:59:30.0	XRT_Custom_430_OG [0x1ae]						
2019/07/18	05:00:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2019/07/18	05:28:24.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/18	05:28:26.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/18	05:28:28.0	XRT_FOCUS_POSITION_406_OG [0x196]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00		
2019/07/18	05:28:30.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00 00		
2019/07/18	05:28:48.0	XRT_FLD_DIS_409_OG [0x199]	MDP_XRT_FLD_DIS	1	07-F0	d9		
2019/07/18	05:28:50.0	XRT_FLRCTRL_DIS_413_OG [0x19d]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2019/07/18	05:28:52.0	XRT_ARS_DIS_443_OG [0x1bb]	MDP_XRT_ARS_DIS	1	07-F0	d5		
2019/07/18	05:31:28.0	XRT_QT_PROG_SET_432_OG [0x1b0]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 10		
2019/07/18	05:31:30.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2019/07/18	05:38:30.0	AOCS_ORe-point_Start_7_OG [0x09d]	AOCU_NM	5	02-76	00 03 02 d7 cf		
2019/07/18	05:59:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/18	06:00:00.0	XRT_TCIB_XRT_S_HTR_A_ENA_420_OG [0x1a4]	TCIB_XRT_S_HTR_A_ENA	0	04-BC			
2019/07/18	12:00:00.0	AOCS_ORe-point_Start_8_OG [0x09e]	AOCU_NM	5	02-76	00 03 02 3d 26		
2019/07/18	18:00:00.0	AOCS_ORe-point_Start_9_OG [0x09f]	AOCU_NM	5	02-76	00 03 02 c6 67		
2019/07/19	00:00:00.0	AOCS_ORe-point_Start_10_OG [0x0a0]	AOCU_NM	5	02-76	00 03 02 4a 7e		
2019/07/19	06:02:30.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00 00		
2019/07/19	06:12:30.0	AOCS_ORe-point_Start_11_OG [0x0a1]	AOCU_NM	5	02-76	00 03 02 b9 0f		
2019/07/19	12:00:00.0	AOCS_ORe-point_Start_12_OG [0x0a2]	AOCU_NM	5	02-76	00 03 02 52 d9		
2019/07/19	18:00:00.0	AOCS_ORe-point_Start_13_OG [0x0a3]	AOCU_NM	5	02-76	00 03 02 b0 b5		
2019/07/20	00:00:00.0	AOCS_ORe-point_Start_14_OG [0x0a4]	AOCU_NM	5	02-76	00 18 b4 01 ca		
2019/07/20	06:14:30.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00 00		
2019/07/20	06:24:30.0	AOCS_ORe-point_Start_15_OG [0x0a5]	AOCU_NM	5	02-76	00 ed 59 01 ca		
2019/07/20	12:00:00.0	AOCS_ORe-point_Start_16_OG [0x0a6]	AOCU_NM	5	02-76	00 2c fd 01 ca		
2019/07/20	18:00:00.0	AOCS_ORe-point_Start_17_OG [0x0a7]	AOCU_NM	5	02-76	00 d9 0f 01 ca		
2019/07/21	00:00:00.0	AOCS_ORe-point_Start_18_OG [0x0a8]	AOCU_NM	5	02-76	00 3e 66 01 ca		
2019/07/21	05:36:00.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00 00		
2019/07/21	05:46:00.0	AOCS_ORe-point_Start_19_OG [0x0a9]	AOCU_NM	5	02-76	00 c7 a6 01 ca		
2019/07/21	06:00:00.0	XRT_TCIB_XRT_S_HTR_A_DIS_422_OG [0x1a6]	TCIB_XRT_S_HTR_A_DIS	0	04-C0			
2019/07/21	11:50:00.0	XRT_CTRL_MANU_401_OG [0x191]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/21	11:50:10.0	XRT_FOCUS_RECALIBRATE_414_OG [0x19e]	XRT_FOCUS_RECAL	2	07-F8	78 00		
2019/07/21	11:54:10.0	XRT_FOCUS_POSITION_406_OG [0x196]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00		
2019/07/21	11:59:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/21	11:59:56.0	XRT_FOCUS_POSITION_425_OG [0x1a9]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00		

2019/07/21	12:00:00.0	AOCS_ORe-point_Start_20_OG [0x0aa]	AOCU_NM	5	02-76	00	2e	f9	2e	f9
2019/07/21	12:02:52.0	XRT_ARS_DIS_429_OG [0xlad]	MDP_XRT_ARS_DIS	1	07-F0		d5			
2019/07/21	12:02:54.0	XRT_FLRCTRL_DIS_438_OG [0x1b6]	MDP_XRT_FLRCTRL_DIS	1	07-F0		c9			
2019/07/21	12:02:56.0	XRT_FLD_DIS_441_OG [0x1b9]	MDP_XRT_FLD_DIS	1	07-F0		d9			
2019/07/21	12:02:58.0	XRT_QT_PROG_SET_404_OG [0x194]	MDP_XRT_QT_PROG_SET	2	07-F0		c4	0f		
2019/07/21	12:03:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2019/07/21	12:09:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0		c1			
2019/07/21	12:09:56.0	XRT_FOCUS_POSITION_425_OG [0x1a9]	XRT_FOCUS_POSITION	4	07-F8	22	ff	aa	00	
2019/07/21	12:10:00.0	AOCS_ORe-point_Start_21_OG [0x0ab]	AOCU_NM	5	02-76	00	2e	f9	d1	07
2019/07/21	12:12:52.0	XRT_ARS_DIS_429_OG [0xlad]	MDP_XRT_ARS_DIS	1	07-F0		d5			
2019/07/21	12:12:54.0	XRT_FLRCTRL_DIS_438_OG [0x1b6]	MDP_XRT_FLRCTRL_DIS	1	07-F0		c9			
2019/07/21	12:12:56.0	XRT_FLD_DIS_441_OG [0x1b9]	MDP_XRT_FLD_DIS	1	07-F0		d9			
2019/07/21	12:12:58.0	XRT_QT_PROG_SET_446_OG [0x1be]	MDP_XRT_QT_PROG_SET	2	07-F0		c4	07		
2019/07/21	12:13:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2019/07/21	12:19:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0		c1			
2019/07/21	12:19:56.0	XRT_FOCUS_POSITION_425_OG [0x1a9]	XRT_FOCUS_POSITION	4	07-F8	22	ff	aa	00	
2019/07/21	12:20:00.0	AOCS_ORe-point_Start_22_OG [0x0ac]	AOCU_NM	5	02-76	00	d1	07	d1	07
2019/07/21	12:22:52.0	XRT_ROI_A_444_OG [0x1bc]	MDP_XRT_ROI_SET	6	07-F0	cd	05	85	83	06
			MDP_XRT_ROI_SET	6	07-F0	cd	06	85	83	06
			MDP_XRT_ROI_SET	6	07-F0	cd	07	85	83	08
			MDP_XRT_ROI_SET	6	07-F0	cd	08	80	80	20
			MDP_XRT_ROI_SET	6	07-F0	cd	09	80	80	20
			MDP_XRT_ROI_SET	6	07-F0	cd	0a	80	80	08
			MDP_XRT_ROI_SET	6	07-F0	cd	0b	80	80	08
			MDP_XRT_ROI_SET	6	07-F0	cd	0c	c0	40	10
2019/07/21	12:22:52.5	XRT_ROI_B_421_OG [0x1a5]	MDP_XRT_ROI_SET	6	07-F0	cd	0c	c0	40	10
			MDP_XRT_ROI_SET	6	07-F0	cd	0e	40	40	10
			MDP_XRT_ROI_SET	6	07-F0	cd	0f	80	80	06
			MDP_XRT_ROI_SET	6	07-F0	cd	10	80	80	08
2019/07/21	12:22:57.5	XRT_ARS_DIS_429_OG [0xlad]	MDP_XRT_ARS_DIS	1	07-F0		d5			
2019/07/21	12:22:59.5	XRT_FLRCTRL_DIS_438_OG [0x1b6]	MDP_XRT_FLRCTRL_DIS	1	07-F0		c9			
2019/07/21	12:23:01.5	XRT_FLD_DIS_441_OG [0x1b9]	MDP_XRT_FLD_DIS	1	07-F0		d9			
2019/07/21	12:23:03.5	XRT_QT_PROG_SET_426_OG [0x1aa]	MDP_XRT_QT_PROG_SET	2	07-F0		c4	0e		
2019/07/21	12:23:05.5	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2019/07/21	12:29:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0		c1			
2019/07/21	12:29:56.0	XRT_FOCUS_POSITION_425_OG [0x1a9]	XRT_FOCUS_POSITION	4	07-F8	22	ff	aa	00	
2019/07/21	12:30:00.0	AOCS_ORe-point_Start_23_OG [0x0ad]	AOCU_NM	5	02-76	00	d1	07	2e	f9
2019/07/21	12:32:52.0	XRT_ARS_DIS_429_OG [0xlad]	MDP_XRT_ARS_DIS	1	07-F0		d5			
2019/07/21	12:32:54.0	XRT_FLRCTRL_DIS_438_OG [0x1b6]	MDP_XRT_FLRCTRL_DIS	1	07-F0		c9			
2019/07/21	12:32:56.0	XRT_FLD_DIS_441_OG [0x1b9]	MDP_XRT_FLD_DIS	1	07-F0		d9			
2019/07/21	12:32:58.0	XRT_QT_PROG_SET_449_OG [0x1c1]	MDP_XRT_QT_PROG_SET	2	07-F0		c4	09		
2019/07/21	12:33:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2019/07/21	12:39:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0		c1			
2019/07/21	12:39:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0		c1			
2019/07/21	12:39:58.0	XRT_FOCUS_POSITION_406_OG [0x196]	XRT_FOCUS_POSITION	4	07-F8	22	ff	aa	00	
2019/07/21	12:40:00.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00	00	00	00	00
2019/07/21	12:40:18.0	XRT_FLD_DIS_409_OG [0x199]	MDP_XRT_FLD_DIS	1	07-F0		d9			
2019/07/21	12:40:20.0	XRT_FLRCTRL_DIS_413_OG [0x19d]	MDP_XRT_FLRCTRL_DIS	1	07-F0		c9			
2019/07/21	12:40:22.0	XRT_ARS_DIS_443_OG [0x1bb]	MDP_XRT_ARS_DIS	1	07-F0		d5			
2019/07/21	12:42:58.0	XRT_QT_PROG_SET_432_OG [0x1b0]	MDP_XRT_QT_PROG_SET	2	07-F0		c4	10		
2019/07/21	12:43:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0		c0			
2019/07/21	12:49:54.0	XRT_CTRL_MANU_402_OG [0x192]								

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2019/07/21	12:49:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/21	12:49:58.0	XRT_FOCUS_POSITION_406_OG [0x196]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/21	12:50:00.0	AOCS_Orе-point_Start_24_OG [0x0ae]	XRT_FOCUS_POSITION	4	07-F8	22	ff	aa 00
2019/07/21	12:50:18.0	XRT_FLD_ENA_411_OG [0x19b]	AOCU_NM	5	02-76	00	4b	be 01 ca
2019/07/21	12:50:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLD_ENA	1	07-F0	d8		
2019/07/21	12:50:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8		
2019/07/21	12:50:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_AEC_RESET	1	07-F0	d0		
2019/07/21	12:50:26.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_ARS_DIS	1	07-F0	d5		
2019/07/21	12:50:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_FLD_RESET	1	07-F0	da		
2019/07/21	12:50:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/21	12:50:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/21	12:50:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_FLD_RESET	1	07-F0	da		
2019/07/21	12:52:56.0	XRT_QT_PROG_SET_436_OG [0x1b4]	MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2019/07/21	12:52:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	03	
2019/07/21	12:53:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_FL_PROG_SET	2	07-F0	c5	0d	
2019/07/21	13:18:30.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2019/07/21	13:19:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_Custom_430_OG [0x1ae]	1	07-F0	c0		
2019/07/21	14:29:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2019/07/21	14:29:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/21	14:29:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/21	14:29:06.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_FLD_RESET	1	07-F0	da		
2019/07/21	14:32:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2019/07/21	14:59:30.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2019/07/21	15:00:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_Custom_430_OG [0x1ae]	1	07-F0	c0		
2019/07/21	16:07:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2019/07/21	16:07:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/21	16:07:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/21	16:07:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_FLD_RESET	1	07-F0	da		
2019/07/21	16:10:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2019/07/21	16:49:00.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2019/07/21	16:50:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_Custom_430_OG [0x1ae]	1	07-F0	c0		
2019/07/21	17:45:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2019/07/21	17:45:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/21	17:45:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/21	17:45:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_FLD_RESET	1	07-F0	da		
2019/07/21	17:48:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2019/07/21	18:25:30.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2019/07/21	18:26:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_Custom_430_OG [0x1ae]	1	07-F0	c0		
2019/07/21	18:59:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2019/07/21	18:59:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/21	18:59:58.0	XRT_FOCUS_POSITION_406_OG [0x196]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/21	19:00:00.0	AOCS_Orе-point_Start_2_OG [0x098]	XRT_FOCUS_POSITION	4	07-F8	22	ff	aa 00
2019/07/21	19:00:18.0	XRT_FLD_DIS_409_OG [0x199]	AOCU_NM	5	02-76	00	00	00 00 00
2019/07/21	19:00:20.0	XRT_FLRCTRL_DIS_413_OG [0x19d]	MDP_XRT_FLD_DIS	1	07-F0	d9		
2019/07/21	19:00:22.0	XRT_ARS_DIS_443_OG [0x1bb]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2019/07/21	19:02:58.0	XRT_QT_PROG_SET_437_OG [0x1b5]	MDP_XRT_ARS_DIS	1	07-F0	d5		
2019/07/21	19:03:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	13	
2019/07/21	19:09:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2019/07/21			MDP_XRT_CTRL_MANU	1	07-F0	c1		

2019/07/21	19:09:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/21	19:09:58.0	XRT_FOCUS_POSITION_406_OG [0x196]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2019/07/21	19:10:00.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00 00
2019/07/21	19:10:18.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8
2019/07/21	19:10:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2019/07/21	19:10:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0
2019/07/21	19:10:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5
2019/07/21	19:10:26.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_FLD_RESET	1	07-F0	da
2019/07/21	19:12:56.0	XRT_QT_PROG_SET_405_OG [0x195]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 12
2019/07/21	19:12:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d
2019/07/21	19:13:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2019/07/21	19:24:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/21	19:24:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/21	19:24:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da
2019/07/21	19:24:06.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2019/07/21	19:27:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2019/07/21	20:02:00.0	XRT_Custom_430_OG [0x1ae]				
2019/07/21	20:03:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2019/07/21	21:02:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/21	21:02:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/21	21:02:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da
2019/07/21	21:02:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2019/07/21	21:05:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2019/07/21	21:18:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/21	21:18:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/21	21:18:58.0	XRT_FOCUS_POSITION_406_OG [0x196]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2019/07/21	21:19:00.0	AOCS_ORe-point_Start_25_OG [0x0af]	AOCU_NM	5	02-76	00 b0 00 00 00
2019/07/21	21:19:18.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8
2019/07/21	21:19:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2019/07/21	21:19:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0
2019/07/21	21:19:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5
2019/07/21	21:19:26.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_FLD_RESET	1	07-F0	da
2019/07/21	21:21:56.0	XRT_QT_PROG_SET_433_OG [0x1b1]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 04
2019/07/21	21:21:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d
2019/07/21	21:39:31.0	XRT_Custom_430_OG [0x1ae]				
2019/07/21	21:40:31.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2019/07/21	22:41:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/21	22:41:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/21	22:41:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da
2019/07/21	22:41:06.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2019/07/21	22:44:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2019/07/21	23:15:00.0	XRT_Custom_430_OG [0x1ae]				
2019/07/21	23:16:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2019/07/22	00:19:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/22	00:19:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/22	00:19:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da
2019/07/22	00:19:06.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2019/07/22	00:22:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9

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2019/07/22	00:35:24.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/22	00:35:26.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/22	00:35:28.0	XRT_FOCUS_POSITION_406_OG [0x196]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00	
2019/07/22	00:35:30.0	AOCS_ORe-point_Start_26_OG [0x0b0]	AOCU_NM	5	02-76	00 50 00 00 00	
2019/07/22	00:35:48.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8	
2019/07/22	00:35:50.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8	
2019/07/22	00:35:52.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0	
2019/07/22	00:35:54.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5	
2019/07/22	00:35:56.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_FLD_RESET	1	07-F0	da	
2019/07/22	00:38:26.0	XRT_QT_PROG_SET_433_OG [0x1b1]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 04	
2019/07/22	00:38:28.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d	
2019/07/22	00:47:00.0	XRT_Custom_430_OG [0x1ae]					
2019/07/22	00:48:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2019/07/22	01:56:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/22	01:56:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/22	01:56:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da	
2019/07/22	01:56:06.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2019/07/22	01:59:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2019/07/22	02:25:30.0	XRT_Custom_430_OG [0x1ae]					
2019/07/22	02:26:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2019/07/22	03:29:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/22	03:29:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/22	03:29:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da	
2019/07/22	03:29:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2019/07/22	03:32:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2019/07/22	03:42:24.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/22	03:42:26.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/22	03:42:28.0	XRT_FOCUS_POSITION_406_OG [0x196]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00	
2019/07/22	03:42:30.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00 00 00 00 00	
2019/07/22	03:42:48.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8	
2019/07/22	03:42:50.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8	
2019/07/22	03:42:52.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0	
2019/07/22	03:42:54.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5	
2019/07/22	03:42:56.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_FLD_RESET	1	07-F0	da	
2019/07/22	03:45:26.0	XRT_QT_PROG_SET_405_OG [0x195]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 12	
2019/07/22	03:45:28.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d	
2019/07/22	04:04:00.0	XRT_Custom_430_OG [0x1ae]					
2019/07/22	04:05:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2019/07/22	04:58:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/22	04:58:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/22	04:58:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da	
2019/07/22	04:58:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8	
2019/07/22	05:01:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9	
2019/07/22	05:42:00.0	XRT_Custom_430_OG [0x1ae]					
2019/07/22	05:43:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0	
2019/07/22	05:49:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/22	05:49:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1	
2019/07/22	05:49:58.0	XRT_FOCUS_POSITION_406_OG [0x196]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00	
2019/07/22	05:50:00.0	AOCS_ORe-point_Start_2_OG [0x098]					

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2019/07/22	05:50:18.0	XRT_FLD_DIS_409_OG [0x199]	AOCU_NM	5	02-76	00	00	00	00	00
		MDP_XRT_FLD_DIS		1	07-F0	d9				
2019/07/22	05:50:20.0	XRT_FLRCTRL_DIS_413_OG [0x19d]		1	07-F0	c9				
		MDP_XRT_FLRCTRL_DIS		1	07-F0	c9				
2019/07/22	05:50:22.0	XRT_ARS_DIS_443_OG [0x1bb]		1	07-F0	d5				
		MDP_XRT_ARS_DIS		1	07-F0	d5				
2019/07/22	05:52:58.0	XRT_QT_PROG_SET_437_OG [0x1b5]		2	07-F0	c4	13			
		MDP_XRT_QT_PROG_SET		2	07-F0	c4	13			
2019/07/22	05:53:00.0	XRT_CTRL_AUTO_408_OG [0x198]		1	07-F0	c0				
		MDP_XRT_CTRL_AUTO		1	07-F0	c0				
2019/07/22	05:59:54.0	XRT_CTRL_MANU_402_OG [0x192]		1	07-F0	c1				
		MDP_XRT_CTRL_MANU		1	07-F0	c1				
2019/07/22	05:59:56.0	XRT_CTRL_MANU_402_OG [0x192]		1	07-F0	c1				
		MDP_XRT_CTRL_MANU		1	07-F0	c1				
2019/07/22	05:59:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]		4	07-F8	22	fe	97	00	
		XRT_FOCUS_POSITION		4	07-F8	22	fe	97	00	
2019/07/22	06:00:00.0	AOCS_ORe-point_Start_27_OG [0x0b1]		5	02-76	00	ad	59	00	00
		AOCU_NM		5	02-76	00	ad	59	00	00
2019/07/22	06:00:18.0	XRT_FLD_ENA_411_OG [0x19b]		1	07-F0	d8				
		MDP_XRT_FLD_ENA		1	07-F0	d8				
2019/07/22	06:00:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]		1	07-F0	c8				
		MDP_XRT_FLRCTRL_ENA		1	07-F0	c8				
2019/07/22	06:00:22.0	XRT_AEC_RESET_448_OG [0x1c0]		1	07-F0	d0				
		MDP_XRT_AEC_RESET		1	07-F0	d0				
2019/07/22	06:00:24.0	XRT_ARS_DIS_423_OG [0x1a7]		1	07-F0	d5				
		MDP_XRT_ARS_DIS		1	07-F0	d5				
2019/07/22	06:00:26.0	XRT_FLD_RESET_434_OG [0x1b2]		1	07-F0	da				
		MDP_XRT_FLD_RESET		1	07-F0	da				
2019/07/22	06:02:56.0	XRT_QT_PROG_SET_428_OG [0x1ac]		2	07-F0	c4	01			
		MDP_XRT_QT_PROG_SET		2	07-F0	c4	01			
2019/07/22	06:02:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]		2	07-F0	c5	0d			
		MDP_XRT_FL_PROG_SET		2	07-F0	c5	0d			
2019/07/22	06:03:00.0	XRT_CTRL_AUTO_408_OG [0x198]		1	07-F0	c0				
		MDP_XRT_CTRL_AUTO		1	07-F0	c0				
2019/07/22	06:59:00.0	XRT_CTRL_MANU_400_OG [0x190]		1	07-F0	c1				
		MDP_XRT_CTRL_MANU		1	07-F0	c1				
2019/07/22	06:59:02.0	XRT_CTRL_MANU_402_OG [0x192]		1	07-F0	c1				
		MDP_XRT_CTRL_MANU		1	07-F0	c1				
2019/07/22	06:59:04.0	XRT_FLD_RESET_415_OG [0x19f]		1	07-F0	da				
		MDP_XRT_FLD_RESET		1	07-F0	da				
2019/07/22	06:59:06.0	XRT_PREFLR_STRT_435_OG [0x1b3]		1	07-F0	e8				
		MDP_XRT_PREFLR_STRT		1	07-F0	e8				
2019/07/22	07:02:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]		1	07-F0	e9				
		MDP_XRT_PREFLR_STOP		1	07-F0	e9				
2019/07/22	07:14:00.0	XRT_Custom_430_OG [0x1ae]								
2019/07/22	07:15:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]		1	07-F0	c0				
		MDP_XRT_CTRL_AUTO		1	07-F0	c0				
2019/07/22	07:59:54.0	XRT_CTRL_MANU_402_OG [0x192]		1	07-F0	c1				
		MDP_XRT_CTRL_MANU		1	07-F0	c1				
2019/07/22	07:59:56.0	XRT_CTRL_MANU_402_OG [0x192]		1	07-F0	c1				
		MDP_XRT_CTRL_MANU		1	07-F0	c1				
2019/07/22	07:59:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]		4	07-F8	22	fe	97	00	
		XRT_FOCUS_POSITION		4	07-F8	22	fe	97	00	
2019/07/22	08:00:00.0	AOCS_ORe-point_Start_28_OG [0x0b2]		5	02-76	00	00	00	56	35
		AOCU_NM		5	02-76	00	00	00	56	35
2019/07/22	08:00:18.0	XRT_FLD_ENA_411_OG [0x19b]		1	07-F0	d8				
		MDP_XRT_FLD_ENA		1	07-F0	d8				
2019/07/22	08:00:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]		1	07-F0	c8				
		MDP_XRT_FLRCTRL_ENA		1	07-F0	c8				
2019/07/22	08:00:22.0	XRT_AEC_RESET_448_OG [0x1c0]		1	07-F0	d0				
		MDP_XRT_AEC_RESET		1	07-F0	d0				
2019/07/22	08:00:24.0	XRT_ARS_DIS_423_OG [0x1a7]		1	07-F0	d5				
		MDP_XRT_ARS_DIS		1	07-F0	d5				
2019/07/22	08:00:26.0	XRT_FLD_RESET_434_OG [0x1b2]		1	07-F0	da				
		MDP_XRT_FLD_RESET		1	07-F0	da				
2019/07/22	08:02:56.0	XRT_QT_PROG_SET_428_OG [0x1ac]		2	07-F0	c4	01			
		MDP_XRT_QT_PROG_SET		2	07-F0	c4	01			
2019/07/22	08:02:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]		2	07-F0	c5	0d			
		MDP_XRT_FL_PROG_SET		2	07-F0	c5	0d			
2019/07/22	08:03:00.0	XRT_CTRL_AUTO_408_OG [0x198]		1	07-F0	c0				
		MDP_XRT_CTRL_AUTO		1	07-F0	c0				
2019/07/22	08:37:30.0	XRT_CTRL_MANU_400_OG [0x190]		1	07-F0	c1				
		MDP_XRT_CTRL_MANU		1	07-F0	c1				
2019/07/22	08:37:32.0	XRT_CTRL_MANU_402_OG [0x192]		1	07-F0	c1				
		MDP_XRT_CTRL_MANU		1	07-F0	c1				
2019/07/22	08:37:34.0	XRT_FLD_RESET_415_OG [0x19f]		1	07-F0	da				
		MDP_XRT_FLD_RESET		1	07-F0	da				
2019/07/22	08:37:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]		1	07-F0	e8				
		MDP_XRT_PREFLR_STRT		1	07-F0	e8				
2019/07/22	08:40:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]		1	07-F0	e9				
		MDP_XRT_PREFLR_STOP		1	07-F0	e9				
2019/07/22	08:52:00.0	XRT_Custom_430_OG [0x1ae]								
2019/07/22	08:53:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]		1	07-F0	c0				
		MDP_XRT_CTRL_AUTO		1	07-F0	c0				
2019/07/22	09:59:00.0	XRT_CTRL_MANU_400_OG [0x190]		1	07-F0	c1				
		MDP_XRT_CTRL_MANU		1	07-F0	c1				
2019/07/22	09:59:02.0	XRT_CTRL_MANU_402_OG [0x192]		1	07-F0	c1				
		MDP_XRT_CTRL_MANU		1	07-F0	c1				
2019/07/22	09:59:04.0	XRT_FLD_RESET_415_OG [0x19f]		1	07-F0	da				
		MDP_XRT_FLD_RESET		1	07-F0	da				
2019/07/22	09:59:06.0	XRT_PREFLR_STRT_435_OG [0x1b3]		1	07-F0	e8				
		MDP_XRT_PREFLR_STRT		1	07-F0	e8				

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2019/07/22	09:59:54.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2019/07/22	09:59:56.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2019/07/22	09:59:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2019/07/22	10:00:00.0	AOCS_OrE-point_Start_29_OG [0x0b3]							
		AOCU_NM	5	02-76	00 dl dc 01 ca				
2019/07/22	10:00:18.0	XRT_FLD_ENA_411_OG [0x19b]							
		MDP_XRT_FLD_ENA	1	07-F0	d8				
2019/07/22	10:00:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]							
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8				
2019/07/22	10:00:22.0	XRT_AEC_RESET_448_OG [0x1c0]							
		MDP_XRT_AEC_RESET	1	07-F0	d0				
2019/07/22	10:00:24.0	XRT_ARS_DIS_423_OG [0x1a7]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2019/07/22	10:00:26.0	XRT_FLD_RESET_434_OG [0x1b2]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2019/07/22	10:02:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2019/07/22	10:02:56.0	XRT_QT_PROG_SET_428_OG [0x1ac]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 01				
2019/07/22	10:02:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]							
		MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d				
2019/07/22	10:37:00.0	XRT_Custom_430_OG [0x1ae]							
2019/07/22	10:38:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2019/07/22	11:47:30.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2019/07/22	11:47:32.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2019/07/22	11:47:34.0	XRT_FLD_RESET_415_OG [0x19f]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2019/07/22	11:47:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2019/07/22	11:50:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2019/07/22	12:15:30.0	XRT_Custom_430_OG [0x1ae]							
2019/07/22	12:16:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2019/07/22	13:26:00.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2019/07/22	13:26:02.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2019/07/22	13:26:04.0	XRT_FLD_RESET_415_OG [0x19f]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2019/07/22	13:26:06.0	XRT_PREFLR_STRT_435_OG [0x1b3]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2019/07/22	13:29:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2019/07/22	13:54:00.0	XRT_Custom_430_OG [0x1ae]							
2019/07/22	13:55:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2019/07/22	13:59:54.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2019/07/22	13:59:56.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2019/07/22	13:59:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]							
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00				
2019/07/22	14:00:00.0	AOCS_OrE-point_Start_30_OG [0x0b4]							
		AOCU_NM	5	02-76	00 42 c0 01 ca				
2019/07/22	14:00:18.0	XRT_FLD_ENA_411_OG [0x19b]							
		MDP_XRT_FLD_ENA	1	07-F0	d8				
2019/07/22	14:00:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]							
		MDP_XRT_FLRCTRL_ENA	1	07-F0	c8				
2019/07/22	14:00:22.0	XRT_AEC_RESET_448_OG [0x1c0]							
		MDP_XRT_AEC_RESET	1	07-F0	d0				
2019/07/22	14:00:24.0	XRT_ARS_DIS_423_OG [0x1a7]							
		MDP_XRT_ARS_DIS	1	07-F0	d5				
2019/07/22	14:00:26.0	XRT_FLD_RESET_434_OG [0x1b2]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2019/07/22	14:02:56.0	XRT_QT_PROG_SET_428_OG [0x1ac]							
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 01				
2019/07/22	14:02:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]							
		MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d				
2019/07/22	14:03:00.0	XRT_CTRL_AUTO_408_OG [0x198]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2019/07/22	15:04:30.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2019/07/22	15:04:32.0	XRT_CTRL_MANU_402_OG [0x192]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2019/07/22	15:04:34.0	XRT_FLD_RESET_415_OG [0x19f]							
		MDP_XRT_FLD_RESET	1	07-F0	da				
2019/07/22	15:04:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]							
		MDP_XRT_PREFLR_STRT	1	07-F0	e8				
2019/07/22	15:07:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]							
		MDP_XRT_PREFLR_STOP	1	07-F0	e9				
2019/07/22	15:36:31.0	XRT_Custom_430_OG [0x1ae]							
2019/07/22	15:37:31.0	XRT_CTRL_AUTO_424_OG [0x1a8]							
		MDP_XRT_CTRL_AUTO	1	07-F0	c0				
2019/07/22	16:42:30.0	XRT_CTRL_MANU_400_OG [0x190]							
		MDP_XRT_CTRL_MANU	1	07-F0	c1				
2019/07/22	16:42:32.0	XRT_CTRL_MANU_402_OG [0x192]							

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2019/07/22	16:42:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/22	16:42:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_FLD_RESET	1	07-F0	da		
2019/07/22	16:45:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2019/07/22	17:23:30.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2019/07/22	17:24:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2019/07/22	17:59:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/22	17:59:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/22	17:59:58.0	XRT_FOCUS_POSITION_406_OG [0x196]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/22	18:00:00.0	AOCS_OrE-point_Start_2_OG [0x098]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00		
2019/07/22	18:00:18.0	XRT_FLD_DIS_409_OG [0x199]	AOCU_NM	5	02-76	00 00 00 00 00		
2019/07/22	18:00:20.0	XRT_FLRCTRL_DIS_413_OG [0x19d]	MDP_XRT_FLD_DIS	1	07-F0	d9		
2019/07/22	18:00:22.0	XRT_ARS_DIS_443_OG [0x1bb]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2019/07/22	18:02:58.0	XRT_QT_PROG_SET_432_OG [0x1b0]	MDP_XRT_ARS_DIS	1	07-F0	d5		
2019/07/22	18:03:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 10		
2019/07/22	18:09:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2019/07/22	18:09:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/22	18:09:58.0	XRT_FOCUS_POSITION_406_OG [0x196]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/22	18:10:00.0	AOCS_OrE-point_Start_31_OG [0x0b5]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00		
2019/07/22	18:10:18.0	XRT_FLD_ENA_411_OG [0x19b]	AOCU_NM	5	02-76	01 00 00 00 00		
2019/07/22	18:10:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLD_ENA	1	07-F0	d8		
2019/07/22	18:10:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8		
2019/07/22	18:10:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_AEC_RESET	1	07-F0	d0		
2019/07/22	18:10:26.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_ARS_DIS	1	07-F0	d5		
2019/07/22	18:12:56.0	XRT_QT_PROG_SET_436_OG [0x1b4]	MDP_XRT_FLD_RESET	1	07-F0	da		
2019/07/22	18:12:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 03		
2019/07/22	18:13:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d		
2019/07/22	18:21:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2019/07/22	18:21:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/22	18:21:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/22	18:21:06.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_FLD_RESET	1	07-F0	da		
2019/07/22	18:24:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2019/07/22	19:00:01.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2019/07/22	19:01:01.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2019/07/22	19:59:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/22	19:59:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/22	19:59:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/22	19:59:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_FLD_RESET	1	07-F0	da		
2019/07/22	20:02:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2019/07/22	20:37:01.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2019/07/22	20:38:01.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2019/07/22	21:38:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/22	21:38:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/22	21:38:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/22	21:38:06.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_FLD_RESET	1	07-F0	da		
2019/07/22	21:41:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2019/07/22	21:53:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2019/07/22	21:53:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2019/07/22	21:53:58.0	XRT_FOCUS_POSITION_406_OG [0x196]	MDP_XRT_CTRL_MANU	1	07-F0	c1		

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2019/07/22	21:54:00.0	AOCS_ORe-point_Start_31_OG [0x0b5]	XRT_FOCUS_POSITION	4	07-F8	22	ff	aa	00
		AOCU_NM		5	02-76	01	00	00	00
2019/07/22	21:54:18.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8			
2019/07/22	21:54:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8			
2019/07/22	21:54:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0			
2019/07/22	21:54:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5			
2019/07/22	21:54:26.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_FLD_RESET	1	07-F0	da			
2019/07/22	21:56:56.0	XRT_QT_PROG_SET_433_OG [0x1b1]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	04		
2019/07/22	21:56:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_FL_PROG_SET	2	07-F0	c5	0d		
2019/07/22	22:14:01.0	XRT_Custom_430_OG [0x1ae]							
2019/07/22	22:15:01.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2019/07/22	23:16:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2019/07/22	23:16:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2019/07/22	23:16:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da			
2019/07/22	23:16:06.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8			
2019/07/22	23:19:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9			
2019/07/22	23:48:31.0	XRT_Custom_430_OG [0x1ae]							
2019/07/22	23:49:31.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2019/07/23	00:54:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2019/07/23	00:54:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2019/07/23	00:54:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da			
2019/07/23	00:54:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8			
2019/07/23	00:57:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9			
2019/07/23	01:10:24.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2019/07/23	01:10:26.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2019/07/23	01:10:28.0	XRT_FOCUS_POSITION_406_OG [0x196]							
2019/07/23	01:10:30.0	AOCS_ORe-point_Start_25_OG [0x0af]	XRT_FOCUS_POSITION	4	07-F8	22	ff	aa	00
		AOCU_NM		5	02-76	00	b0	00	00
2019/07/23	01:10:48.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8			
2019/07/23	01:10:50.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8			
2019/07/23	01:10:52.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0			
2019/07/23	01:10:54.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5			
2019/07/23	01:10:56.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_FLD_RESET	1	07-F0	da			
2019/07/23	01:13:26.0	XRT_QT_PROG_SET_433_OG [0x1b1]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	04		
2019/07/23	01:13:28.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_FL_PROG_SET	2	07-F0	c5	0d		
2019/07/23	01:22:30.0	XRT_Custom_430_OG [0x1ae]							
2019/07/23	01:23:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2019/07/23	02:28:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2019/07/23	02:28:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2019/07/23	02:28:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da			
2019/07/23	02:28:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8			
2019/07/23	02:31:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9			
2019/07/23	03:00:30.0	XRT_Custom_430_OG [0x1ae]							
2019/07/23	03:01:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2019/07/23	04:03:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2019/07/23	04:03:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2019/07/23	04:03:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da			
2019/07/23	04:03:36.0	XRT_PREFLR_STRT_435_OG [0x1b3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8			
2019/07/23	04:06:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9			
2019/07/23	04:18:24.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1			

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2019/07/23	04:18:26.0	XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/23	04:18:28.0	XRT_FOCUS_POSITION_406_OG [0x196] XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2019/07/23	04:18:30.0	AOCS_ORe-point_Start_2_OG [0x098] AOCU_NM	5	02-76	00 00 00 00 00
2019/07/23	04:18:48.0	XRT_FLD_ENA_411_OG [0x19b] MDP_XRT_FLD_ENA	1	07-F0	d8
2019/07/23	04:18:50.0	XRT_FLRCTRL_ENA_412_OG [0x19c] MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2019/07/23	04:18:52.0	XRT_AEC_RESET_448_OG [0x1c0] MDP_XRT_AEC_RESET	1	07-F0	d0
2019/07/23	04:18:54.0	XRT_ARS_DIS_423_OG [0x1a7] MDP_XRT_ARS_DIS	1	07-F0	d5
2019/07/23	04:18:56.0	XRT_FLD_RESET_434_OG [0x1b2] MDP_XRT_FLD_RESET	1	07-F0	da
2019/07/23	04:21:26.0	XRT_QT_PROG_SET_405_OG [0x195] MDP_XRT_QT_PROG_SET	2	07-F0	c4 12
2019/07/23	04:21:28.0	XRT_FL_PROG_SET_440_OG [0x1b8] MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d
2019/07/23	04:39:00.0	XRT_Custom_430_OG [0x1ae]			
2019/07/23	04:40:00.0	XRT_CTRL_AUTO_424_OG [0x1a8] MDP_XRT_CTRL_AUTO	1	07-F0	c0
2019/07/23	05:34:30.0	XRT_CTRL_MANU_400_OG [0x190] MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/23	05:34:32.0	XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/23	05:34:34.0	XRT_FLD_RESET_415_OG [0x19f] MDP_XRT_FLD_RESET	1	07-F0	da
2019/07/23	05:34:36.0	XRT_PREFLR_STRT_435_OG [0x1b3] MDP_XRT_PREFLR_STRT	1	07-F0	e8
2019/07/23	05:37:44.0	XRT_PREFLR_STOP_419_OG [0x1a3] MDP_XRT_PREFLR_STOP	1	07-F0	e9
2019/07/23	06:17:30.0	XRT_Custom_430_OG [0x1ae]			
2019/07/23	06:18:30.0	XRT_CTRL_AUTO_424_OG [0x1a8] MDP_XRT_CTRL_AUTO	1	07-F0	c0
2019/07/23	06:21:24.0	XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/23	06:21:26.0	XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU	1	07-F0	c1
2019/07/23	06:21:28.0	XRT_FOCUS_POSITION_406_OG [0x196] XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2019/07/23	06:21:30.0	AOCS_ORe-point_Start_2_OG [0x098] AOCU_NM	5	02-76	00 00 00 00 00
2019/07/23	06:21:48.0	XRT_FLD_DIS_409_OG [0x199] MDP_XRT_FLD_DIS	1	07-F0	d9
2019/07/23	06:21:50.0	XRT_FLRCTRL_DIS_413_OG [0x19d] MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2019/07/23	06:21:52.0	XRT_ARS_DIS_443_OG [0x1bb] MDP_XRT_ARS_DIS	1	07-F0	d5
2019/07/23	06:24:28.0	XRT_QT_PROG_SET_432_OG [0x1b0] MDP_XRT_QT_PROG_SET	2	07-F0	c4 10
2019/07/23	06:24:30.0	XRT_CTRL_AUTO_408_OG [0x198] MDP_XRT_CTRL_AUTO	1	07-F0	c0
2019/07/23	06:31:30.0	AOCS_ORe-point_Start_2_OG [0x098] AOCU_NM	5	02-76	00 00 00 00 00
2019/07/23	10:35:00.0	AOCS_ORe-point_Start_2_OG [0x098] AOCU_NM	5	02-76	00 00 00 00 00