

XRT Timeline to be uploaded on 2018/05/01

Period: 2018/05/01 11:09:00 - 2018/05/05 10:14:00

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Normal mode

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XOB #1BF1: HOP349 - 3-filter Synoptics (Al-mesh[512/2048/4096], Al-poly[512/4096/8192], thin-Be[3897/16384/32768] with 512x512 G-band+Leak - 45 min c

Term	Pointing (x, y)	Comment
05/01 11:22:00 - 05/01 14:14:00	Track (-15.6, 0.1) @ 05/01 11:19:00	# OP start + 10min. HOP 349 near disk center.
05/02 11:03:00 - 05/02 13:59:54	Track (-13.9, 0.1) @ 05/02 11:00:00	# HOP 349 near disk center.

PROG= 02 Inf.-time(s)												
Subr=	1	1-time(s)		300.0sec								
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=	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	30-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
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
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XOB #1BF2: Al/poly (Thin-Be) - 384x384 - 1x1 - 8sec cad - Gband - 348x384 - 1ms - AEC1

Term	Pointing (x, y)	Comment
05/01 14:42:30 - 05/01 19:59:54	Fixed (930.0, 19.0)	# HOP 355 with ALMA.
05/02 14:03:00 - 05/02 17:55:24	Fixed (930.0, 49.0)	# HOP 355 with ALMA.

PROG= 14 Inf.-time(s)												
Subr=	1	2-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	200-time(s)		8.0sec								
Seqn=	18	1-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
Subr=	3	200-time(s)		8.0sec								
Seqn=	18	1-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

Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval
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XOB #1BE7: Synoptic Q95 2x2 - Al/mesh(512/2048/4096) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Al-poly(512/4096/8192)

Term	Pointing (x, y)	Comment
05/01 20:03:00 - 05/01 20:09:54	Fixed (0.0, 0.0)	synoptic, shifted.
05/02 05:57:00 - 05/02 06:03:54	Fixed (0.0, 0.0)	synoptic, shifted -6.0 min
05/02 17:58:30 - 05/02 18:05:24	Fixed (0.0, 0.0)	synoptic, shifted -4.5 min
05/03 06:03:00 - 05/03 06:09:54	Fixed (0.0, 0.0)	synoptic

PROG= 08 1-time(s)												
Subr=	1	1-time(s)		2.0sec								
Seqn=	5	1-time(s)		2.0sec								
	Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	2x2	2048x2048	(1024, 1024)	Q=98	0 0 2.0sec
	Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	4x4	2048x2048	(1024, 1024)	Q=98	0 0 2.0sec
	Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	8x8	2048x2048	(1024, 1024)	Q=98	0 0 2.0sec
	Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	1x1	2048x512	(1024, 1024)	DPCM	0 0 2.0sec
	Open/Ti-poly	Open/thick-Al	close	Safe	Dark	500ms	Obs	1x1	512x2048	(1024, 1024)	DPCM	0 0 2.0sec
Seqn=	12	1-time(s)		2.0sec								
	Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	500ms	Obs	2x2	2048x2048	(1024, 1024)	Q=95	0 0 2.0sec
	Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	2.00s	Obs	2x2	2048x2048	(1024, 1024)	Q=95	0 0 2.0sec
	Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	4.00s	Obs	2x2	2048x2048	(1024, 1024)	Q=95	0 0 2.0sec
Seqn=	82	1-time(s)		2.0sec								
	Al-poly/Open	Al-poly/Open	close	Safe	Norm	500ms	Obs	2x2	2048x2048	(1024, 1024)	Q=95	0 0 2.0sec
	Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	4.00s	Obs	2x2	2048x2048	(1024, 1024)	Q=95	0 0 2.0sec

Al-poly/Open	Al-poly/Open	close	Safe	Norm	8.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 52		1-time(s)	2.0sec									
thin-Be/Open	thin-Be/Open	close	Safe	Norm	2.83s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	16.0s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
thin-Be/Open	thin-Be/Open	close	Safe	Norm	32.0s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Seqn= 23		1-time(s)	2.0sec									
Open/G-band	Open/G-band	open	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=90	0	0	2.0sec
Open/G-band	Open/G-band	close	Safe	Norm	1ms	Obs	1x1	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #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
05/01 20:13:00 - 05/02 05:53:54	Track (-211.6, 353.5) @ 05/01 20:10:00	# Track bright point.
05/02 06:07:00 - 05/02 10:59:54	Track (-127.1, 354.0) @ 05/02 06:04:00	# BP cont.
05/02 18:44:00 - 05/03 05:17:00	Track (-23.0, 353.7) @ 05/02 18:05:30	# BP cont.
05/03 06:13:00 - 05/03 10:18:00	Track (81.8, 352.7) @ 05/03 06:10:00	# BP cont.
PROG= 09 Inf.-time(s)		
Subr= 1		1-time(s)
Seqn= 92		1-time(s)
Open/G-band	Open/G-band	open
Open/G-band	Open/G-band	close
Open/Ti-poly	Open/thick-Al	close
Subr= 2		5-time(s)
Seqn= 75		1-time(s)
Al-poly/Open	thin-Be/Open	close
Al-poly/Open	thin-Be/Open	close
thin-Be/Open	med-Be/Open	close
thin-Be/Open	med-Be/Open	close
Seqn= 96		8-time(s)
Al-poly/Open	thin-Be/Open	close
thin-Be/Open	med-Be/Open	close
Al-poly/Open	thin-Be/Open	close
thin-Be/Open	med-Be/Open	close
Al-poly/Open	thin-Be/Open	close
Al-poly/Open	thin-Be/Open	close
thin-Be/Open	med-Be/Open	close
thin-Be/Open	med-Be/Open	close
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
05/01 11:22:00 - 05/01 14:14:00	Track (-15.6, 0.1) @ 05/01 11:19:00	# OP start + 10min. HOP 349 near disk center.
05/01 14:42:30 - 05/01 19:59:54	Fixed (930.0, 19.0)	# HOP 355 with ALMA.
05/01 20:13:00 - 05/02 05:53:54	Track (-211.6, 353.5) @ 05/01 20:10:00	# Track bright point.
05/02 06:07:00 - 05/02 10:59:54	Track (-127.1, 354.0) @ 05/02 06:04:00	# BP cont.
05/02 11:03:00 - 05/02 13:59:54	Track (-13.9, 0.1) @ 05/02 11:00:00	# HOP 349 near disk center.
05/02 14:03:00 - 05/02 17:55:24	Fixed (930.0, 49.0)	# HOP 355 with ALMA.
05/02 18:44:00 - 05/03 05:17:00	Track (-23.0, 353.7) @ 05/02 18:05:30	# BP cont.
05/03 06:13:00 - 05/03 10:18:00	Track (81.8, 352.7) @ 05/03 06:10:00	# BP cont.
PROG= 13 30-time(s)		
Subr= 1		20-time(s)
Seqn= 11		1-time(s)
Al-poly/Open	Al-poly/thick-Al	close
Seqn=100		1-time(s)
thin-Be/Open	med-Be/Open	close
med-Be/Open	Open/thick-Al	close
Open/thick-Al	Open/thick-Be	close
Subr= 2		1-time(s)
Seqn= 10		1-time(s)
med-Al/Open	med-Al/thick-Al	close
Open/thick-Be	Open/thick-Be	close
Seqn= 11		1-time(s)
Al-poly/Open	Al-poly/thick-Al	close
Seqn= 87		1-time(s)
Open/G-band	Open/G-band	open
Open/G-band	Open/G-band	close
Open/thick-Al	Open/thick-Al	close
Open/thick-Al	Open/thick-Al	close
Default Filter	Thicker Filter	VLS
mode	image	Exp.
CCD	Bin	ROI: size (center)
Comp.	AEC Buffer	Interval

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Active Region Search

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NOT USED

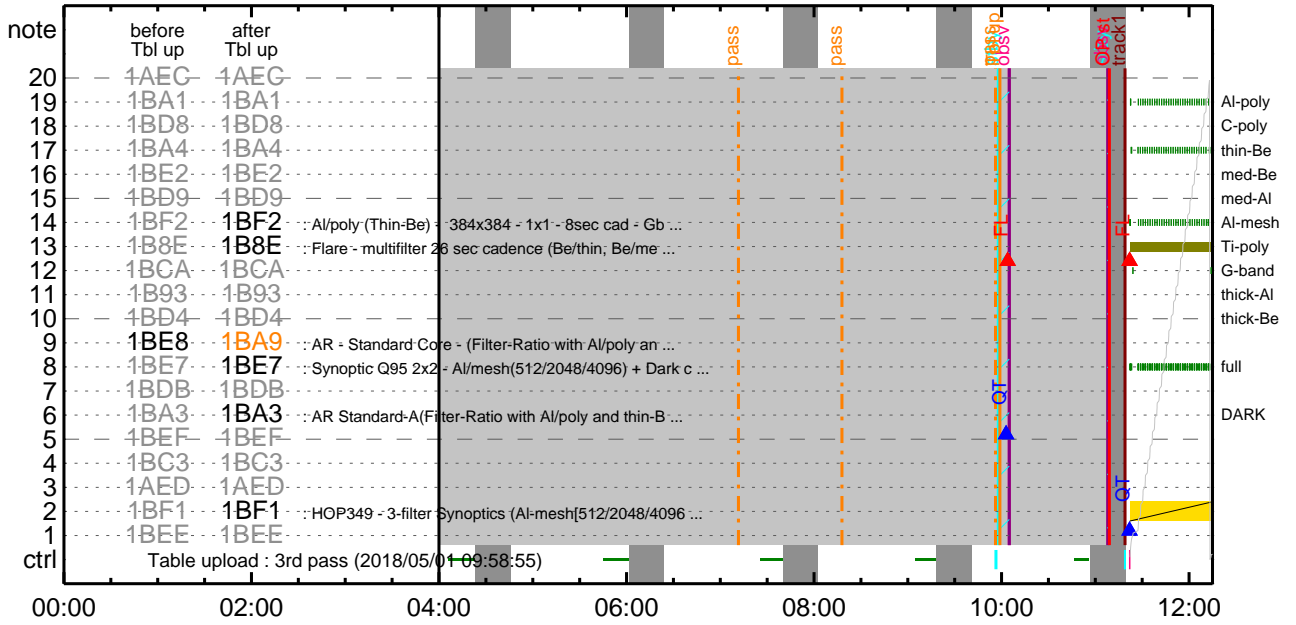
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Flare Detection

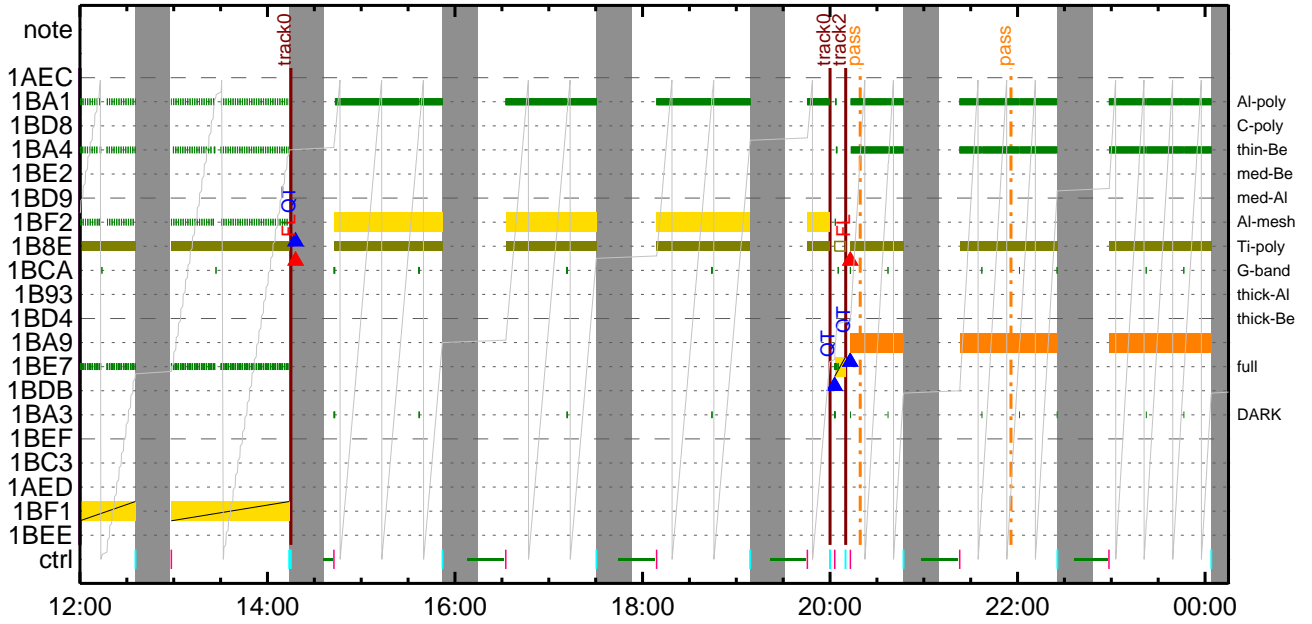
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Term	Pointing (x, y)		Comment										
05/01 20:10:18 - 05/02 05:54:18	Track (-211.6, 353.5)	@ 05/01 20:10:00	# Track bright point.									
05/02 06:04:18 - 05/02 17:55:48	Track (-127.1, 354.0)	@ 05/02 06:04:00	# BP cont.									
05/02 18:05:48 - 05/03 06:00:18	Track (-23.0, 353.7)	@ 05/02 18:05:30	# BP cont.									
05/03 06:10:18 - 05/05 10:14:00	Track (81.8, 352.7)	@ 05/03 06:10:00	# BP cont.									
Al-poly/Open	Al-poly/Open	close	Safe	Norm	8ms	Obs	8x8	Q=50			80sec		
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)			Comp. AEC Buffer Interval		

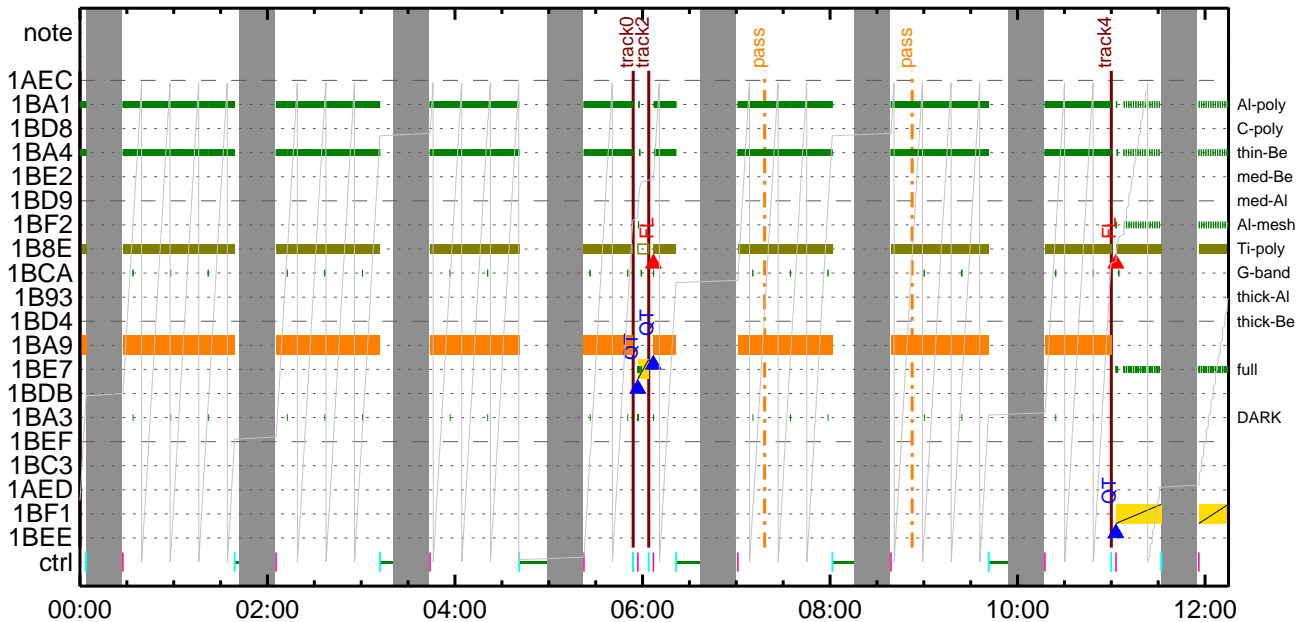
CMDI #0468 2018/05/01



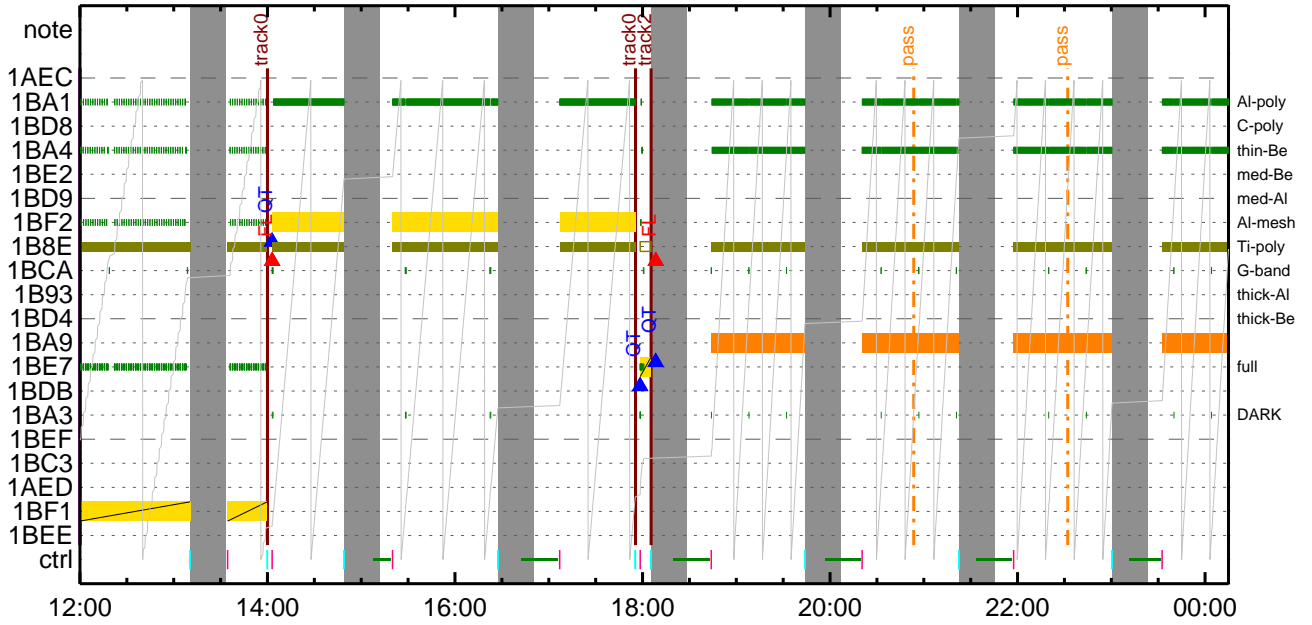
CMDI #0468 2018/05/01



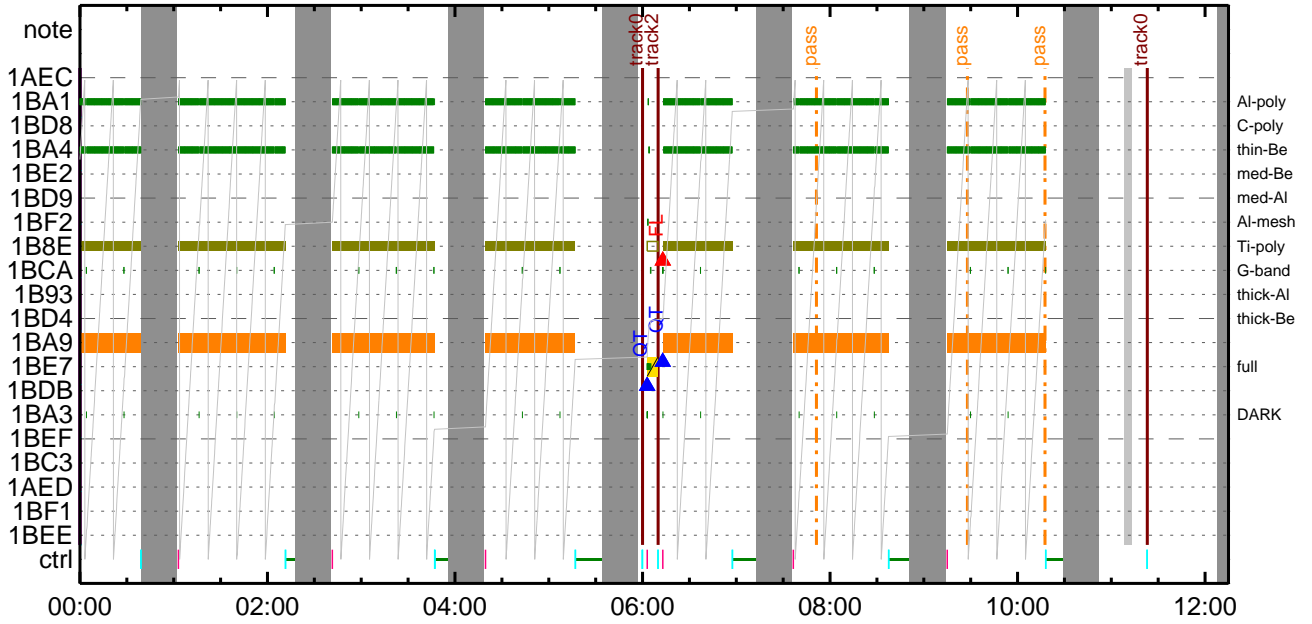
CMDI #0468 2018/05/02



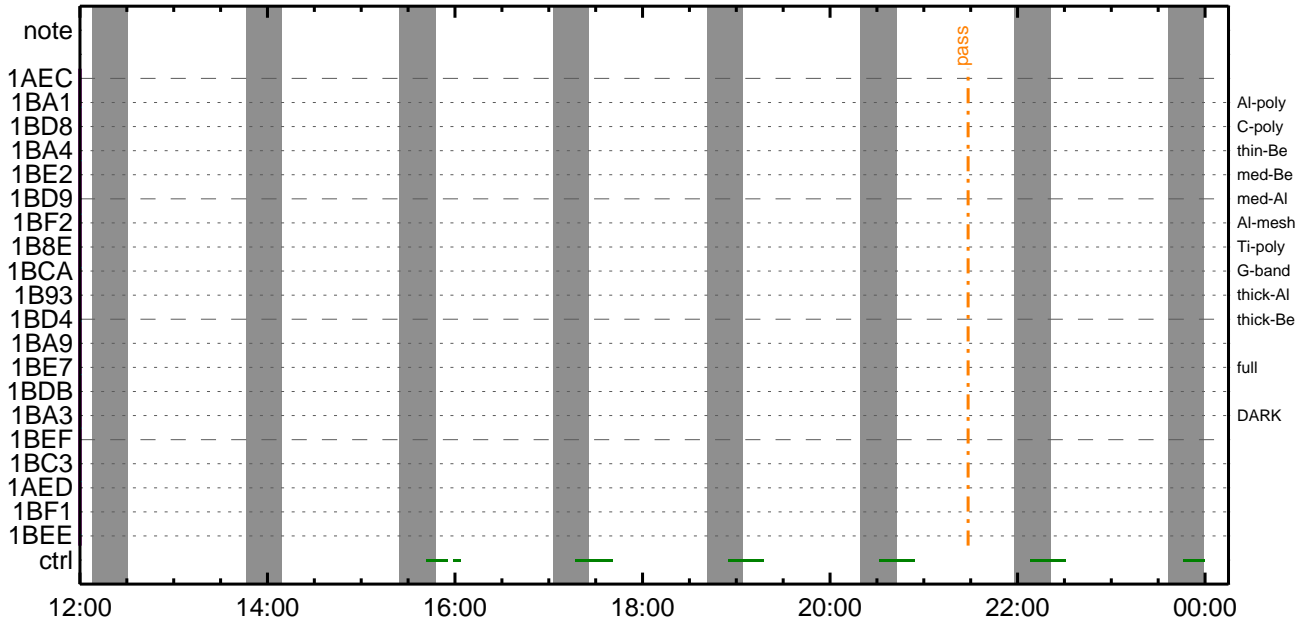
CMDI #0468 2018/05/02



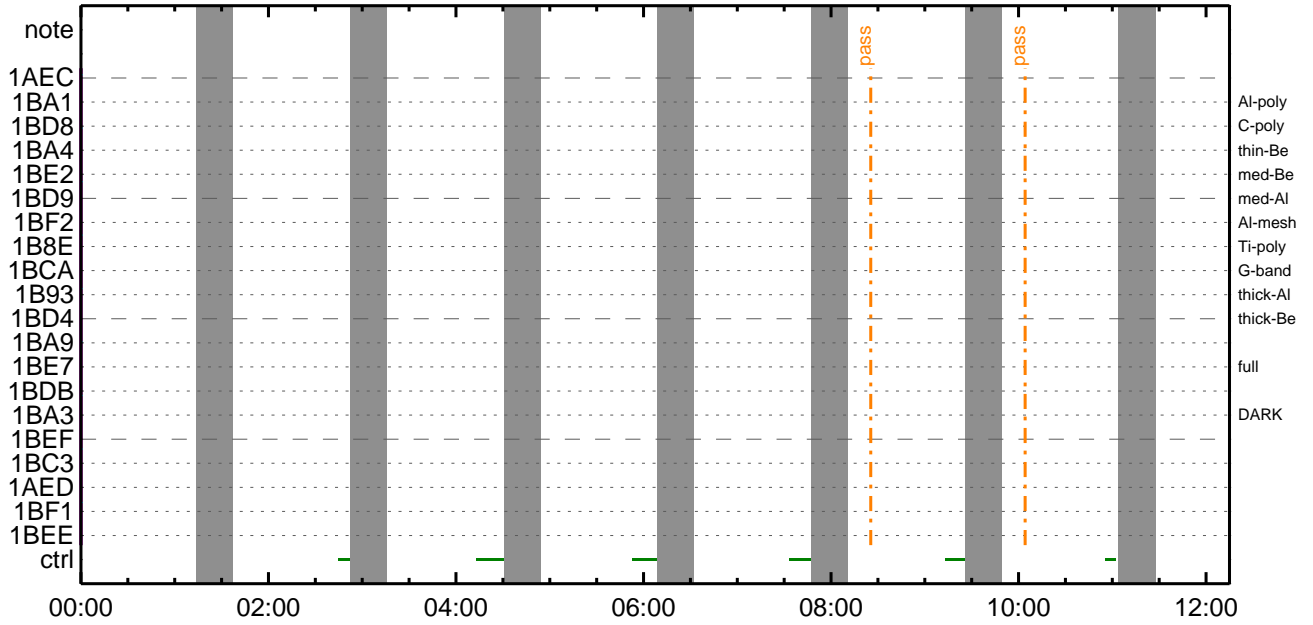
CMDI #0468 2018/05/03



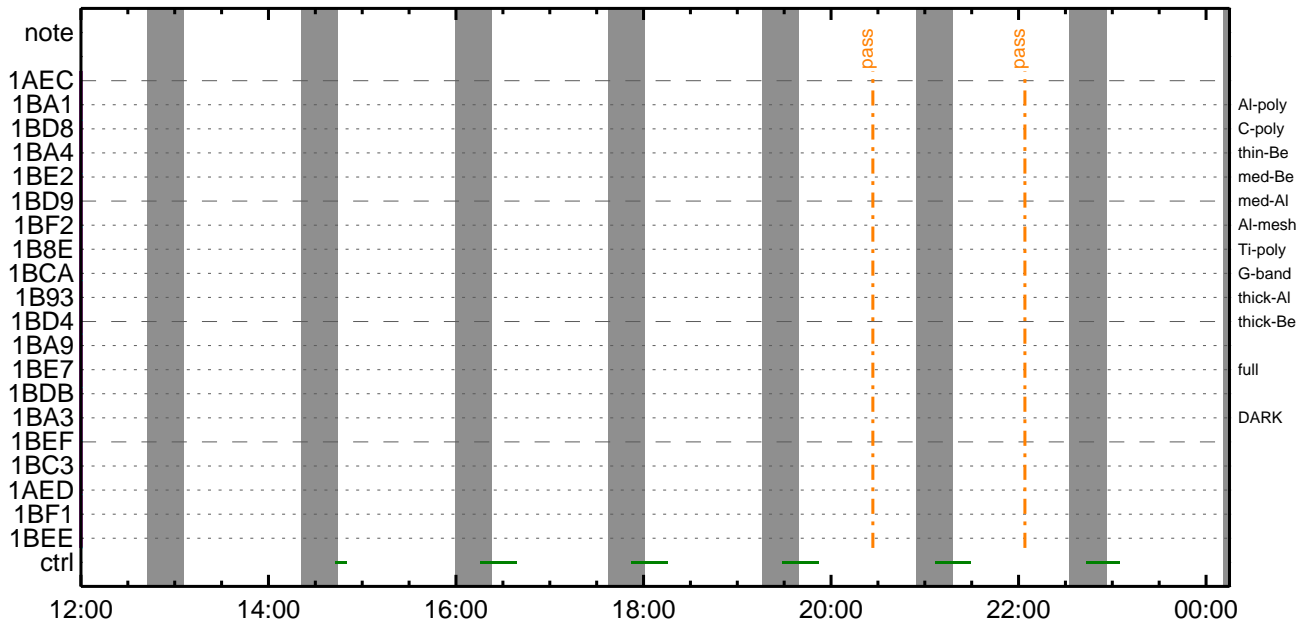
CMDI #0468 2018/05/03



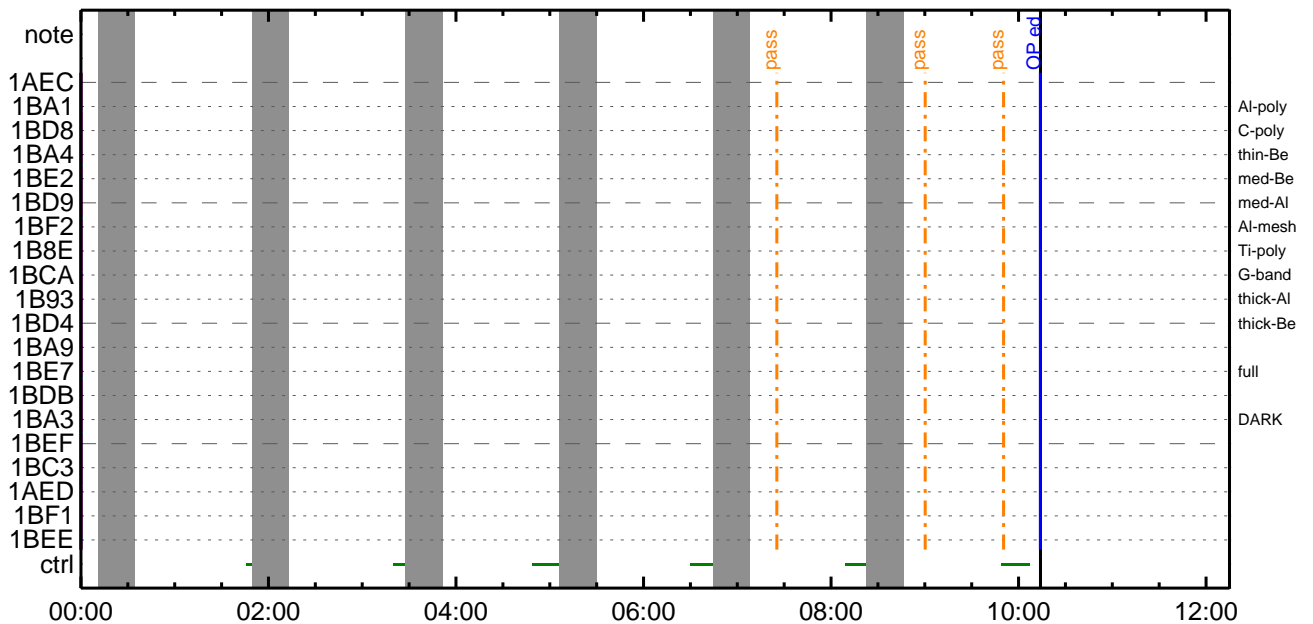
CMDI #0468 2018/05/04

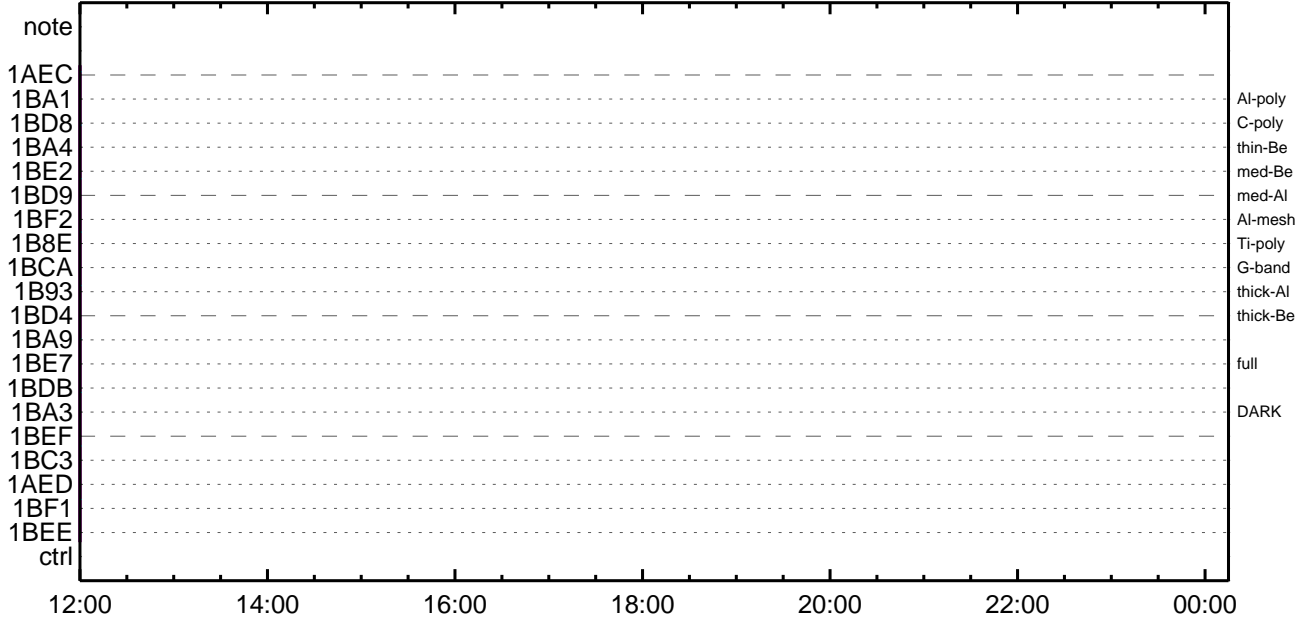


CMDI #0468 2018/05/04



CMDI #0468 2018/05/05





(a) Spacecraft Operation Procedure (real-commands)

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main-345 2018-05-01 11:28:32 189 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOS¥Ã¥$¥Ã¥-¼Ã»Û;ã
0005 C.
0006 C. ¥Ã¥£;¼¥³¥£¥ô¥ÉÃ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C.  Āí;Ē□¿□Ā□•μ°Ē»Ī×ĀÇ□Ī¥ç¥Ā¥×¥ī;¼¥É;ĒĒē¼μ•īĒĒ;Ē□Ē¼°ÇŌ□•□¿¼ī¹ç□ī;çĀ®, ù□¹□ē□□çĀ+¿®□•□Ē□□□³□Ē;Ē
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. OP/OG¥ī;¼¥É;|¥Ã¥ô¥×
0016 C. *****
0017 C.
0018 . C. ;ãOP/OG¥ī;¼¥É;ã
0019 . S. OP op-345:OP
0020 ()
0021 . S. OG og-345:OG
0022 ()
0023 C.
0024 . C. ;ãNMOG&OPĪ°ē¥Ã¥ô¥×;ã
0025 C. NMOG(0x200000-0x207FFF;§ 32 kbyte)
0026 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0027 BC (20 00 7f 01 02)
0028 C. çç[HK1_DMP_TOP_ADRS_1] EQ 40
0029 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0030 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0031 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0032 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0033 +. DC 01-22 DHU_MODE_CHNG
0034 BC (07 0b f8)
0035 C. çç[HK1_PKT_FORM_NO] EQ 7
0036 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0037 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0038 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0039 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0040 . C. ¥Ã¥ô¥×¼¥³Ī»□□³ĪÇ§
0041 C. çç[HK1_DMP_CHK_FLG] EQ NON
0042 . C. RAM ID=NMOG□Ī¼Ē¹ç•ē²ĪOK□□³ĪÇ§
0043 C.
0044 C. NMOG(0x208000-0x20FFFF;§ 32 kbyte)
0045 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0046 BC (20 80 7f 01 02)
0047 C. çç[HK1_DMP_TOP_ADRS_1] EQ 41
0048 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0049 C. çç[HK1_DMP_BLOCK_NUM] EQ 127
0050 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0051 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0052 +. DC 01-22 DHU_MODE_CHNG
0053 BC (07 0b f8)
0054 C. çç[HK1_PKT_FORM_NO] EQ 7
0055 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0056 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0057 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0058 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0059 . C. ¥Ã¥ô¥×¼¥³Ī»□□³ĪÇ§
0060 C. çç[HK1_DMP_CHK_FLG] EQ NON
0061 . C. RAM ID=NMOG□Ī¼Ē¹ç•ē²ĪOK□□³ĪÇ§
0062 C.
0063 C. NMOG(0x210000-0x2100FF;§ 256byte)+OP(0x210100-0x2141FF: 16.25kbyte)
0064 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0065 BC (21 00 41 01 02)
0066 C. çç[HK1_DMP_TOP_ADRS_1] EQ 42
0067 C. çç[HK1_DMP_TOP_ADRS_0] EQ 0
0068 C. çç[HK1_DMP_BLOCK_NUM] EQ 65
0069 C. çç[HK1_DMP_REPEAT_NUM] EQ 0
0070 C. çç[HK1_DMA_DMP_PIM] EQ DHU
0071 +. DC 01-22 DHU_MODE_CHNG
0072 BC (07 0b f8)
0073 C. çç[HK1_PKT_FORM_NO] EQ 7
0074 C. çç[HK1_PKT_GEN_TIME] EQ 0.25 s
0075 C. çç[HK1_S_TLM_BIT_RATE] EQ 32k
0076 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0077 C. çç[HK1_DMP_CHK_FLG] EQ EXEC
0078 . C. ¥Ã¥ô¥×¼¥³Ī»□□³ĪÇ§
0079 C. çç[HK1_DMP_CHK_FLG] EQ NON
0080 . C. RAM ID=NMOG,RAM ID=OP□Ī¼Ē¹ç•ē²ĪOK□□³ĪÇ§
0081 C.
0082 . C. ***** °Ē²¼□□Ī¼Ē¹¼Ā°□ĒĒĒ-□□Ā+¿® (¼Āμ-¥Ã¥ô¥×¼¥³ç□□ĀŌĀç¼³¼□□□¼ī¹ç□□ā) *****
0083 C. DHU¥ã;¼¥É;Ē¼¥¼; ¥ī;¼¥É;Ē□□Īã□¹
0084 +. DC 01-22 DHU_MODE_CHNG
0085 BC (02 0a f8)
0086 C. çç[HK1_PKT_FORM_NO] EQ 2
0087 C. çç[HK1_PKT_GEN_TIME] EQ 0.5S
0088 C. çç[HK1_S_TLM_BIT_RATE] EQ 32K
0089 C. çç[HK1_X_TLM_BIT_RATE] EQ 4M
0090 C.
0091 . C. *****
0092 C. TI-CMD SET (OPOG STOP/COPY/START)
0093 C. *****
0094 C.
0095 . C. NOTICE ;§ OPOG UPLOAD□-Ā+¿®NG□Ī¼ī¹ç;ç°Ē²¼□□ĪTI-CMDĀ+¿®□Ī¼Ā¹Ō□□□Ē□□³□Ē;Ē
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0096 C.          oþoç;çSEToEDUMPaĪÆ±°iYÑY¹oÇ¹Ôo|o³oE;E
0097 C.
0098 . C. TIY³YFÿÓYĒoðÀDĪç(UT)
0099 +. TI 2018-05-01 11:04:00.0
0100 DC 01-B3 DHU_OP_STOP
0101 C.          çç[HK1_TI_CMD_NUM] EQ      1COUNTUP
0102 C.
0103 +. TI 2018-05-01 11:04:01.0
0104 DC 01-B4 DHU_OP_COPY
0105 C.          çç[HK1_TI_CMD_NUM] EQ      1COUNTUP
0106 C.
0107 +. TI 2018-05-01 11:04:01.0
0108 DC 01-B5 DHU_OPOG_COPY
0109 C.          çç[HK1_TI_CMD_NUM] EQ      1COUNTUP
0110 C.
0111 +. TI 2018-05-01 11:08:59.5
0112 DC 01-B2 DHU_OP_START
0113 C.          çç[HK1_TI_CMD_NUM] EQ      1COUNTUP
0114 C.
0115 C. °E²¼oĪÄè%îĪÑoĪYÁY$YĀY-¹àĪÜ
0116 C.          çç[HK1_TI_CMD_ENA/DIS] EQ      ENA
0117 C.          çç[HK1_TI_CMD_NUM] EQ      4
0118 C.          çç[HK1_NEXT_EXEC_PIM] EQ      DHU
0119 C.          çç[HK1_NEXT_EXEC_DC] EQ      0xB3
0120 C.
0121 . C. *****
0122 C. TIĪĪ°èYĀYÓY×
0123 C. *****
0124 C.
0125 C. TI_TBL(0x03AB00-0x03AEFF;§ 1024byte)
0126 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0127 BC      (03 ab 03 01 02)
0128 C.          çç[HK1_DMP_TOP_ADRS_1] EQ      07
0129 C.          çç[HK1_DMP_TOP_ADRS_0] EQ      2B
0130 C.          çç[HK1_DMP_BLOCK_NUM] EQ      3
0131 C.          çç[HK1_DMP_REPEAT_NUM] EQ      0
0132 C.          çç[HK1_DMA_DMP_PIM] EQ      DHU
0133 +. DC 01-22 DHU_MODE_CHNG
0134 BC      (07 0b f8)
0135 C.          çç[HK1_PKT_FORM_NO] EQ      7
0136 C.          çç[HK1_PKT_GEN_TIME] EQ      0.25 s
0137 C.          çç[HK1_S_TLM_BIT_RATE] EQ      32k
0138 C.          çç[HK1_X_TLM_BIT_RATE] EQ      4M
0139 C.          çç[HK1_DMP_CHK_FLG] EQ      EXEC
0140 C.
0141 . C. YĀYÓY×¼¹Ī»oð³ĪÇ$
0142 C.          çç[HK1_DMP_CHK_FLG] EQ      NON
0143 C.
0144 . C. RAM ID=TI_TBLoĪ%È¹ç•è²ĪOKoð³ĪÇ$
0145 C.
0146 . C. DHUYâ;¼YĒ;Ē¼Y¼;Yi;¼YĒ;ĒoðĪáo¹
0147 +. DC 01-22 DHU_MODE_CHNG
0148 BC      (02 0a f8)
0149 C.          çç[HK1_PKT_FORM_NO] EQ      2
0150 C.          çç[HK1_PKT_GEN_TIME] EQ      0.5S
0151 C.          çç[HK1_S_TLM_BIT_RATE] EQ      32K
0152 C.          çç[HK1_X_TLM_BIT_RATE] EQ      4M
0153 C.
0154 C. *****
0155 C. SOT TI command set
0156 C. *****
0157 C. Execute, after the success of OP upload.
0158 +. TI 2018-05-01 11:08:16.0
0159 DC 07-F0 MDP_SOT_MODE_STBY
0160 BC      (41)
0161 . C. -----
0162 C.      HK1_TI_CMD_NUM      = 1 CNTUP [ ]
0163 C. -----
0164 C. ***** SOT END *****
0165 C.
0166 C. ***** XRT START *****
0167 C. Execute, after the success of OP upload.
0168 +. TI 2018-05-01 11:08:00.0
0169 DC 07-F0 MDP_XRT_MODE_STBY
0170 BC      (c3)
0171 . C.          [ ] [HK1_TI_CMD_NUM] EQ      1COUNTUP
0172 C.
0173 C. ***** XRT END *****
0174 C.
0175 . C. ***** MDP `ĪĪoĪ»ò¼YoĒĀDº¹oðDCBC•x²è *****
0176 C. (%á°ĪYÓYĀYĒYbYĒYáYçYèoE¼¼o¼Ā»Üº¹oè)
0177 . S. DC-BC dcbc-402:DCBC
0178 (MDP_known_event)
0179 C.
0180 C.
0181 . C. ***** YDÿ¹•Ī Daily±;ĪÑoĒ`Øº¹oðDCBC•x²è *****
0182 . S. DC-BC dcbc-153:DCBC
0183 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0184 C.
0185 C.
0186 . C. ĪĀLOSYĀY$YĀY-¼Ā»Ü;ā
0187 C.
0188 . C. ***** LOS *****
0189 C.
```



```
0096 C.
0097 C.
0098 . C. ***** AOCs Commands (Tracking Curve Upload) *****
0099 C. Upload the Orbit Element and the Target Attitude
0100 C. RAM-ID:TARGET_ATT
0101 . S. RAM ram-150:TARGET_ATT
0102 ( )
0103 C.
0104 C.
0105 C. Set the dump memory area of TARGET_ATT
0106 +. DC 02-48 AOCU_DUMP_SET
0107 BC (07 00 00 00 18 00)
0108 C.
0109 C. <A_STS1>[MEMORY OPERATE STATUS] ADRS = 070000 [ ]
0110 C.
0111 C.
0112 C. Change the TLMFormatNo for the AOCs Dump Format
0113 +. DC 01-22 DHU_MODE_CHNG
0114 BC (04 0b f8)
0115 C.
0116 C. Wait for AOCSDUMP to end
0117 C.
0118 . C. Check the dump memory
0119 C.
0120 C. Result = OK [ ]
0121 C.
0122 +. DC 01-22 DHU_MODE_CHNG
0123 BC (02 0a f8)
0124 C.
0125 C. <A_***>[TLM STS] FMT = 2 [ ]
0126 C.
0127 +. DC 02-8E AOCU_ORB_UPD
0128 . C.
0129 . C. ***** AOCs Commands (Orbital Element Update) *****
0130 C. Update the orbital element
0131 +. DC 02-50 AOCU_ORB_PRPGT_START
0132 BC (16)
0133 + DC 02-8E AOCU_ORB_UPD
0134 C.
0135 C. <A_ORB>[ORBIT] EPC = 5125147.1 +- 1.0 (s) [ ]
0136 C.
0137 . C.
0138 C.
0139 . C. ***** MDP `ûÃîñî»ò%ÿñÊÃð¹ñèDCBC•x²è *****
0140 C. (%ã°îÿÓÿÃÿÈÿPÿËÿâÿçÿèñÊ%¼ñ¼Ã»Ûñ¹ñè)
0141 . S. DC-BC dcbc-402:DCBC
0142 (MDP_known_event)
0143 C.
0144 C.
0145 . C. ***** ÿDÿ¹.Ï Daily±;îÑñÊ´Øñ¹ñèDCBC•x²è *****
0146 . S. DC-BC dcbc-153:DCBC
0147 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0148 C.
0149 C.
0150 . C. ;ãLOSÿÃÿSÿÿÿ¼Ã»Û;ã
0151 C.
0152 . C. ***** LOS *****
0153 C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-347 2018-05-01 11:28:32 218 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁYŞYÁY-¼Á»Û;ã
0005 C.
0006 C. YÀYŞ;¼Y³YÞYÓYÉÁ+ç®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Ëççãâ•µ°Æ»Í×ÁÇçÍYçYÁY×YÍ;¼YÉ;ËÈÈ¼µ•íÉ;ËãÈ¼°ÇÖã•çç¼í¹ççí;çÀ®, ùã¹ãããããççÁ+ç®ã•ãÈããã³ãÈ;ç
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. XÁ+ççµ;ON
0016 C. *****
0017 C. ç" °ÆÀ, Í×ÈYããLOSããççãí»p´Öãð¹íí, ç•; çÉÖÍ×ãÈXÁÖONãí¹ÖãÈíãÈããã³ãÈ;ç
0018 C.
0019 +. DC 03-B4 TCIA_XPA_ON/HI
0020 M. WAIT_SEC 1
0021 + DC 03-84 TCIA_XMOD_ON
0022 M. WAIT_SEC 1
0023 + DC 03-95 TCIA_XMOD_QPSK
0024 C. çç[HK1_XPA_ON/OFF] EQ ON
0025 C. çç[HK1_XPA_PWR_HI/LO] EQ HI
0026 C. çç[HK1_XMOD_ON/OFF] EQ ON
0027 C. çç[HK1_XMOD_QPSK/PM] EQ QPSK
0028 C.
0029 . C. XYDYÓYÉYÍYÁY-¾ÖÁÖã-°ÁÁêã•ççç; ç°È²¼ççí°ÆÀ, ¼ê¼çççç¼Á¹Öççç;ç
0030 C.
0031 . C. *****
0032 C. DR PT1 Áí¼í°ÆÀ,
0033 C. *****
0034 C. ç" RESTART;ËPT1;Ëã•çççç¼í¹ççí; ç°È²¼ççí¼Á¹Öççç; çDCBC-150ççççç;ç
0035 C.
0036 . C. ;ãPT1°ÆÀ, ³«»Í;ã
0037 +. DC 01-29 DHU_S/X_VC4_OFF
0038 + DC 06-C8 DR_PT1_REP_SEL
0039 BC (01 00)
0040 + DC 06-B3 DR_REP_START
0041 + DC 01-32 DHU_X_VC4_ON
0042 C. çç[HK1_REP_PT_1/2] EQ PT1 (¼Á¹Ö, ;¼Ú)
0043 C. çç[HK1_REP_STA/STP] EQ START (¼Á¹Ö, ;¼Ú)
0044 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Á¹Ö, ;¼Ú)
0045 C.
0046 . C. ;ãYçYÓYÉYÉÁÜÁØ;ËÁ•Á°²óÈð;Ë, áãí°ÆÀ, °Æ³«;ã
0047 +. DC 06-B3 DR_REP_START
0048 + DC 01-32 DHU_X_VC4_ON
0049 C. çç[HK1_REP_PT_1/2] EQ PT1 (¼Á¹Ö, ;¼Ú)
0050 C. çç[HK1_REP_STA/STP] EQ START (¼Á¹Ö, ;¼Ú)
0051 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Á¹Ö, ;¼Ú)
0052 C.
0053 C.
0054 . C. PT1°ÆÀ, ç-¼«Æ°Áá»ßã•ççç; ç°È²¼ççç¼Á¹Öççç;ç
0055 C. YçYÓYÉYÉÁÜÁØãÁ•Á°²óÈðã-¼áãç¼í¹ççí°í»ã¹ããããççÁÖã;ç
0056 C.
0057 . C. *****
0058 C. DR PT2 Áí¼í°ÆÀ,
0059 C. *****
0060 C. ç" RESTART;ËPT2;Ëã•çççç¼í¹ççí; ç°È²¼ççí¼Á¹Öççç; çDCBC-151ççççç;ç
0061 C.
0062 . C. ;ãPT2°ÆÀ, ³«»Í;ã
0063 +. DC 01-29 DHU_S/X_VC4_OFF
0064 + DC 06-C8 DR_PT2_REP_SEL
0065 BC (02 00)
0066 + DC 06-B3 DR_REP_START
0067 + DC 01-32 DHU_X_VC4_ON
0068 C. çç[HK1_REP_PT_1/2] EQ PT2 (¼Á¹Ö, ;¼Ú)
0069 C. çç[HK1_REP_STA/STP] EQ START (¼Á¹Ö, ;¼Ú)
0070 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Á¹Ö, ;¼Ú)
0071 C.
0072 . C. ;ãYçYÓYÉYÉÁÜÁØ;ËÁ•Á°²óÈð;Ë, áãí°ÆÀ, °Æ³«;ã
0073 +. DC 06-B3 DR_REP_START
0074 + DC 01-32 DHU_X_VC4_ON
0075 C. çç[HK1_REP_PT_1/2] EQ PT2 (¼Á¹Ö, ;¼Ú)
0076 C. çç[HK1_REP_STA/STP] EQ START (¼Á¹Ö, ;¼Ú)
0077 C. çç[HK1_X_VC4_ON/OFF] EQ ON (¼Á¹Ö, ;¼Ú)
0078 C.
0079 . C. *****
0080 C. DR°ÆÀ, Áá»ß;çXÁ+ççµ;OFF
0081 C. *****
0082 C.
0083 . C. ;ãDR°ÆÀ, Áá»ß;ã
0084 +. DC 06-B4 DR_REP_STOP
0085 + DC 01-29 DHU_S/X_VC4_OFF
0086 C. çç[HK1_REP_STA/STP] EQ STOP
0087 C. çç[HK1_S_VC4_ON/OFF] EQ OFF
0088 C. çç[HK1_X_VC4_ON/OFF] EQ OFF
0089 C.
0090 . C. ;ãXÁ+ççµ;OFF;ã
0091 +. DC 03-85 TCIA_XMOD_OFF
0092 M. WAIT_SEC 1
0093 + DC 03-B5 TCIA_XPA_OFF
0094 C. çç[HK1_XMOD_ON/OFF] EQ OFF
0095 C. çç[HK1_XPA_ON/OFF] EQ OFF
```

```

0096 C.
0097 C.
0098 . C. *****
0099 C. SOT table upload
0100 C. *****
0101 . C. < Stop SP table >
0102 +. DC 07-F0 MDP_SP_CTRL_MANU
0103 BC (61)
0104 C. -----
0105 C. MDP_SP_CTRL_MODE = MANU [ ]
0106 C. -----
0107 C.
0108 . C. <Upload SP Observation Table>
0109 . S. RAM ram-286:MDP_OBS_S
0110 ( )
0111 C.
0112 . C. < Dump RAMID=MDP_OBS_S >
0113 +. DC 07-F0 MDP_DUMP_SPTBL
0114 BC (83 07 00 00 00 38 b8)
0115 C. -----
0116 C. MDP_OBS_S verify = OK/NG [ ]
0117 C. -----
0118 C.
0119 C. *****
0120 C. SOT TI command set
0121 C. *****
0122 C. Execute, after the success of TBL upload.
0123 +. TI 2018-05-01 11:08:18.0
0124 DC 07-F0 MDP_SOT_MODE_OBSV
0125 BC (40)
0126 . C. -----
0127 C. HK1_TI_CMD_NUM = 1 CNTUP [ ]
0128 C. -----
0129 C.
0130 C.
0131 C. ***** XRT START *****
0132 C.
0133 +. DC 07-F0 MDP_XRT_CTRL_MANU
0134 BC (c1)
0135 +. DC 07-F0 MDP_XRT_CTRL_MANU
0136 BC (c1)
0137 +. DC 07-F0 MDP_XRT_MODE_STBY
0138 BC (c3)
0139 . C. ----- Success Verify ? OK / NG____
0140 C.
0141 C. XRT Obs. Table Upload
0142 . S. RAM ram-291:MDP_OBS_X
0143 ( )
0144 C.
0145 +. DC 07-F0 MDP_DUMP_XRTTBL
0146 BC (84 07 00 00 00 3a d4)
0147 . C. ----- Comparison Check ? OK / ERR ____
0148 C.
0149 C.
0150 +. DC 07-F0 MDP_XRT_ROI_SET
0151 BC (cd 01 b1 b1 04 04)
0152 +. DC 07-F0 MDP_XRT_ROI_SET
0153 BC (cd 02 b1 b1 08 08)
0154 +. DC 07-F0 MDP_XRT_ROI_SET
0155 BC (cd 03 b1 b1 08 08)
0156 +. DC 07-F0 MDP_XRT_ROI_SET
0157 BC (cd 04 b1 b1 06 06)
0158 +. DC 07-F0 MDP_XRT_ROI_SET
0159 BC (cd 05 85 83 06 06)
0160 +. DC 07-F0 MDP_XRT_ROI_SET
0161 BC (cd 06 85 83 06 06)
0162 +. DC 07-F0 MDP_XRT_ROI_SET
0163 BC (cd 07 85 83 08 08)
0164 +. DC 07-F0 MDP_XRT_ROI_SET
0165 BC (cd 08 80 80 20 20)
0166 +. DC 07-F0 MDP_XRT_ROI_SET
0167 BC (cd 09 80 80 08 08)
0168 +. DC 07-F0 MDP_XRT_ROI_SET
0169 BC (cd 0a 80 80 20 08)
0170 +. DC 07-F0 MDP_XRT_ROI_SET
0171 BC (cd 0b 80 80 08 20)
0172 +. DC 07-F0 MDP_XRT_ROI_SET
0173 BC (cd 0f 80 80 06 06)
0174 +. DC 07-F0 MDP_XRT_ROI_SET
0175 BC (cd 10 80 80 08 08)
0176 +. DC 07-F0 MDP_XRT_FLD_ENA
0177 BC (d8)
0178 +. DC 07-F0 MDP_XRT_FLRCTRL_ENA
0179 BC (c8)
0180 +. DC 07-F0 MDP_XRT_ARS_DIS
0181 BC (d5)
0182 +. DC 07-F0 MDP_XRT_AEC_RESET
0183 BC (d0)
0184 +. DC 07-F0 MDP_XRT_FLD_RESET
0185 BC (da)
0186 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0187 BC (c4 06)
0188 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0189 BC (c5 0d)
0190 . C. ----- Success Verify ? OK / NG ____
0191 C.
0192 C.
0193 . C. All OK? Yes--> Please Proceed. / No --> Stop here.

```

0194 C.
0195 +. DC 07-F0 MDP_XRT_MODE_OBSV
0196 BC (c2)
0197 +. TI 2018-05-01 11:08:02.0
0198 DC 07-F0 MDP_XRT_MODE_OBSV
0199 BC (c2)
0200 . C. ----- Success Verify ? OK / NG ____
0201 C.
0202 C. ***** XRT END *****
0203 C.
0204 . C. ***** MDP 'ûÃîñî»ò¼ÿñÈÃðñ¹ñèDCBC•x²è *****
0205 C. (¼ã°îÿÓÿÃÿÈÿÏÿÈÿâÿçÿèñÈ¼ññ¼Ã»Ûñ¹ñè)
0206 . S. DC-BC dcbc-402:DCBC
0207 (MDP_known_event)
0208 C.
0209 C.
0210 . C. ***** ÿDÿ¹•ï Daily±¿îññÈ'øñ¹ñèDCBC•x²è *****
0211 . S. DC-BC dcbc-153:DCBC
0212 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0213 C.
0214 C.
0215 . C. ;ãLOSÿÃÿSÿÿÃÿ-¼Ã»Û;ã
0216 C.
0217 . C. ***** LOS *****
0218 C.

*** OP Sequence for XRT ***

```

2018/05/01 11:18:54.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/05/01 11:18:56.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/05/01 11:18:58.0 XRT_FOCUS_POSITION_403_OG [0x193]
                        XRT_FOCUS_POSITION 4 07-F8 22 ff aa 00
2018/05/01 11:19:00.0 AOCS_Ore-point_Start_1_OG [0x097]
                        AOCU_NM 5 02-76 01 00 00 00 00
2018/05/01 11:19:18.0 XRT_FLD_ENA_411_OG [0x19b]
                        MDP_XRT_FLD_ENA 1 07-F0 d8
2018/05/01 11:19:20.0 XRT_FLRCTRL_ENA_412_OG [0x19c]
                        MDP_XRT_FLRCTRL_ENA 1 07-F0 c8
2018/05/01 11:19:22.0 XRT_AEC_RESET_448_OG [0x1c0]
                        MDP_XRT_AEC_RESET 1 07-F0 d0
2018/05/01 11:19:24.0 XRT_ARS_DIS_423_OG [0x1a7]
                        MDP_XRT_ARS_DIS 1 07-F0 d5
2018/05/01 11:19:26.0 XRT_FLD_RESET_433_OG [0x1b1]
                        MDP_XRT_FLD_RESET 1 07-F0 da
2018/05/01 11:21:56.0 XRT_QT_PROG_SET_437_OG [0x1b5]
                        MDP_XRT_QT_PROG_SET 2 07-F0 c4 02
2018/05/01 11:21:58.0 XRT_FL_PROG_SET_440_OG [0x1b8]
                        MDP_XRT_FL_PROG_SET 2 07-F0 c5 0d
2018/05/01 11:22:00.0 XRT_CTRL_AUTO_408_OG [0x198]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2018/05/01 12:35:30.0 XRT_CTRL_MANU_400_OG [0x190]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/05/01 12:35:32.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/05/01 12:35:34.0 XRT_FLD_RESET_415_OG [0x19f]
                        MDP_XRT_FLD_RESET 1 07-F0 da
2018/05/01 12:35:36.0 XRT_PREFLR_STRT_406_OG [0x196]
                        MDP_XRT_PREFLR_STRT 1 07-F0 e8
2018/05/01 12:38:44.0 XRT_PREFLR_STOP_419_OG [0x1a3]
                        MDP_XRT_PREFLR_STOP 1 07-F0 e9
2018/05/01 12:57:30.0 XRT_Custom_430_OG [0x1ae]
2018/05/01 12:58:30.0 XRT_CTRL_AUTO_424_OG [0x1a8]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2018/05/01 14:14:00.0 XRT_CTRL_MANU_400_OG [0x190]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/05/01 14:14:02.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/05/01 14:14:04.0 XRT_FLD_RESET_415_OG [0x19f]
                        MDP_XRT_FLD_RESET 1 07-F0 da
2018/05/01 14:14:06.0 XRT_PREFLR_STRT_406_OG [0x196]
                        MDP_XRT_PREFLR_STRT 1 07-F0 e8
2018/05/01 14:14:54.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/05/01 14:14:56.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/05/01 14:14:58.0 XRT_FOCUS_POSITION_410_OG [0x19a]
                        XRT_FOCUS_POSITION 4 07-F8 22 fe 97 00
2018/05/01 14:15:00.0 AOCS_Ore-point_Start_2_OG [0x098]
                        AOCU_NM 5 02-76 00 fe 4e ad 59
2018/05/01 14:15:18.0 XRT_FLD_ENA_411_OG [0x19b]
                        MDP_XRT_FLD_ENA 1 07-F0 d8
2018/05/01 14:15:20.0 XRT_FLRCTRL_ENA_412_OG [0x19c]
                        MDP_XRT_FLRCTRL_ENA 1 07-F0 c8
2018/05/01 14:15:22.0 XRT_AEC_RESET_448_OG [0x1c0]
                        MDP_XRT_AEC_RESET 1 07-F0 d0
2018/05/01 14:15:24.0 XRT_ARS_DIS_423_OG [0x1a7]
                        MDP_XRT_ARS_DIS 1 07-F0 d5
2018/05/01 14:15:26.0 XRT_FLD_RESET_433_OG [0x1b1]
                        MDP_XRT_FLD_RESET 1 07-F0 da
2018/05/01 14:17:14.0 XRT_PREFLR_STOP_419_OG [0x1a3]
                        MDP_XRT_PREFLR_STOP 1 07-F0 e9
2018/05/01 14:17:56.0 XRT_QT_PROG_SET_426_OG [0x1aa]
                        MDP_XRT_QT_PROG_SET 2 07-F0 c4 0e
2018/05/01 14:17:58.0 XRT_FL_PROG_SET_440_OG [0x1b8]
                        MDP_XRT_FL_PROG_SET 2 07-F0 c5 0d
2018/05/01 14:41:30.0 XRT_Custom_430_OG [0x1ae]
2018/05/01 14:42:30.0 XRT_CTRL_AUTO_424_OG [0x1a8]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2018/05/01 15:52:00.0 XRT_CTRL_MANU_400_OG [0x190]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/05/01 15:52:02.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/05/01 15:52:04.0 XRT_FLD_RESET_415_OG [0x19f]
                        MDP_XRT_FLD_RESET 1 07-F0 da
2018/05/01 15:52:06.0 XRT_PREFLR_STRT_406_OG [0x196]
                        MDP_XRT_PREFLR_STRT 1 07-F0 e8
2018/05/01 15:55:14.0 XRT_PREFLR_STOP_419_OG [0x1a3]
                        MDP_XRT_PREFLR_STOP 1 07-F0 e9
2018/05/01 16:31:30.0 XRT_Custom_430_OG [0x1ae]
2018/05/01 16:32:30.0 XRT_CTRL_AUTO_424_OG [0x1a8]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2018/05/01 17:30:30.0 XRT_CTRL_MANU_400_OG [0x190]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/05/01 17:30:32.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2018/05/01 17:30:34.0 XRT_FLD_RESET_415_OG [0x19f]
                        MDP_XRT_FLD_RESET 1 07-F0 da

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2018/05/01	17:30:36.0	XRT_PREFLR_STRT_406_OG [0x196]	MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2018/05/01	17:33:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2018/05/01	18:08:00.0	XRT_Custom_430_OG [0x1ae]						
2018/05/01	18:09:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2018/05/01	19:09:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2018/05/01	19:09:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2018/05/01	19:09:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da		
2018/05/01	19:09:06.0	XRT_PREFLR_STRT_406_OG [0x196]	MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2018/05/01	19:12:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2018/05/01	19:44:30.0	XRT_Custom_430_OG [0x1ae]						
2018/05/01	19:45:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2018/05/01	19:59:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2018/05/01	19:59:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2018/05/01	19:59:58.0	XRT_FOCUS_POSITION_403_OG [0x193]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00		
2018/05/01	20:00:00.0	AOCS_Ore-point_Start_3_OG [0x099]	AOCU_NM	5	02-76	00 00 00 00 00		
2018/05/01	20:00:18.0	XRT_FLD_DIS_401_OG [0x191]	MDP_XRT_FLD_DIS	1	07-F0	d9		
2018/05/01	20:00:20.0	XRT_FLRCTRL_DIS_405_OG [0x195]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2018/05/01	20:00:22.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_ARS_DIS	1	07-F0	d5		
2018/05/01	20:02:58.0	XRT_QT_PROG_SET_443_OG [0x1bb]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 08		
2018/05/01	20:03:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2018/05/01	20:09:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2018/05/01	20:09:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2018/05/01	20:09:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00		
2018/05/01	20:10:00.0	AOCS_Ore-point_Start_4_OG [0x09a]	AOCU_NM	5	02-76	02 00 00 00 00		
2018/05/01	20:10:18.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8		
2018/05/01	20:10:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8		
2018/05/01	20:10:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0		
2018/05/01	20:10:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5		
2018/05/01	20:10:26.0	XRT_FLD_RESET_433_OG [0x1b1]	MDP_XRT_FLD_RESET	1	07-F0	da		
2018/05/01	20:12:56.0	XRT_QT_PROG_SET_417_OG [0x1a1]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 09		
2018/05/01	20:12:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d		
2018/05/01	20:13:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2018/05/01	20:47:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2018/05/01	20:47:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2018/05/01	20:47:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da		
2018/05/01	20:47:06.0	XRT_PREFLR_STRT_406_OG [0x196]	MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2018/05/01	20:50:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2018/05/01	21:22:00.0	XRT_Custom_430_OG [0x1ae]						
2018/05/01	21:23:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2018/05/01	22:25:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2018/05/01	22:25:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2018/05/01	22:25:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da		
2018/05/01	22:25:36.0	XRT_PREFLR_STRT_406_OG [0x196]	MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2018/05/01	22:28:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2018/05/01	22:57:30.0	XRT_Custom_430_OG [0x1ae]						
2018/05/01	22:58:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2018/05/02	00:04:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2018/05/02	00:04:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1		
2018/05/02	00:04:04.0	XRT_FLD_RESET_415_OG [0x19f]						

2018/05/02	00:04:06.0	XRT_PREFLR_STRT_406_OG [0x196]	MDP_XRT_FLD_RESET	1	07-F0	da			
2018/05/02	00:07:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8			
2018/05/02	00:26:30.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_PREFLR_STOP	1	07-F0	e9			
2018/05/02	00:27:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2018/05/02	01:39:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2018/05/02	01:39:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2018/05/02	01:39:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_FLD_RESET	1	07-F0	da			
2018/05/02	01:39:06.0	XRT_PREFLR_STRT_406_OG [0x196]	MDP_XRT_PREFLR_STRT	1	07-F0	e8			
2018/05/02	01:42:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9			
2018/05/02	02:04:30.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2018/05/02	02:05:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2018/05/02	03:12:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2018/05/02	03:12:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_FLD_RESET	1	07-F0	da			
2018/05/02	03:12:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_PREFLR_STRT	1	07-F0	e8			
2018/05/02	03:12:06.0	XRT_PREFLR_STRT_406_OG [0x196]	MDP_XRT_PREFLR_STOP	1	07-F0	e9			
2018/05/02	03:15:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9			
2018/05/02	03:43:00.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2018/05/02	03:44:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2018/05/02	04:41:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2018/05/02	04:41:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_FLD_RESET	1	07-F0	da			
2018/05/02	04:41:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_PREFLR_STRT	1	07-F0	e8			
2018/05/02	04:41:06.0	XRT_PREFLR_STRT_406_OG [0x196]	MDP_XRT_PREFLR_STOP	1	07-F0	e9			
2018/05/02	04:44:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STOP	1	07-F0	e9			
2018/05/02	05:21:30.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2018/05/02	05:22:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2018/05/02	05:53:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2018/05/02	05:53:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2018/05/02	05:53:58.0	XRT_FOCUS_POSITION_403_OG [0x193]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00			
2018/05/02	05:54:00.5	AOCS_Ore-point_Start_3_OG [0x099]	AOCU_NM	5	02-76	00 00 00 00 00			
2018/05/02	05:54:18.0	XRT_FLD_DIS_401_OG [0x191]	MDP_XRT_FLD_DIS	1	07-F0	d9			
2018/05/02	05:54:20.0	XRT_FLRCTRL_DIS_405_OG [0x195]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9			
2018/05/02	05:54:22.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_ARS_DIS	1	07-F0	d5			
2018/05/02	05:56:58.0	XRT_QT_PROG_SET_443_OG [0x1bb]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 08			
2018/05/02	05:57:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2018/05/02	06:03:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2018/05/02	06:03:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2018/05/02	06:03:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00			
2018/05/02	06:04:00.0	AOCS_Ore-point_Start_4_OG [0x09a]	AOCU_NM	5	02-76	02 00 00 00 00			
2018/05/02	06:04:18.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8			
2018/05/02	06:04:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8			
2018/05/02	06:04:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0			
2018/05/02	06:04:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5			
2018/05/02	06:04:26.0	XRT_FLD_RESET_433_OG [0x1b1]	MDP_XRT_FLD_RESET	1	07-F0	da			
2018/05/02	06:06:56.0	XRT_QT_PROG_SET_417_OG [0x1a1]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 09			
2018/05/02	06:06:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d			
2018/05/02	06:07:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2018/05/02	06:21:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2018/05/02	06:21:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1			

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2018/05/02	18:44:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/05/02	19:44:00.0	XRT_CTRL_MANU_400_OG [0x190]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/02	19:44:02.0	XRT_CTRL_MANU_402_OG [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/02	19:44:04.0	XRT_FLD_RESET_415_OG [0x19f]			
		MDP_XRT_FLD_RESET	1	07-F0	da
2018/05/02	19:44:06.0	XRT_PREFLR_STRT_406_OG [0x196]			
		MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/05/02	19:47:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]			
		MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/05/02	20:19:30.0	XRT_Custom_430_OG [0x1ae]			
2018/05/02	20:20:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/05/02	21:22:30.0	XRT_CTRL_MANU_400_OG [0x190]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/02	21:22:32.0	XRT_CTRL_MANU_402_OG [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/02	21:22:34.0	XRT_FLD_RESET_415_OG [0x19f]			
		MDP_XRT_FLD_RESET	1	07-F0	da
2018/05/02	21:22:36.0	XRT_PREFLR_STRT_406_OG [0x196]			
		MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/05/02	21:25:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]			
		MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/05/02	21:56:30.0	XRT_Custom_430_OG [0x1ae]			
2018/05/02	21:57:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/05/02	23:00:30.0	XRT_CTRL_MANU_400_OG [0x190]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/02	23:00:32.0	XRT_CTRL_MANU_402_OG [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/02	23:00:34.0	XRT_FLD_RESET_415_OG [0x19f]			
		MDP_XRT_FLD_RESET	1	07-F0	da
2018/05/02	23:00:36.0	XRT_PREFLR_STRT_406_OG [0x196]			
		MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/05/02	23:03:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]			
		MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/05/02	23:31:30.0	XRT_Custom_430_OG [0x1ae]			
2018/05/02	23:32:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/05/03	00:39:00.0	XRT_CTRL_MANU_400_OG [0x190]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/03	00:39:02.0	XRT_CTRL_MANU_402_OG [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/03	00:39:04.0	XRT_FLD_RESET_415_OG [0x19f]			
		MDP_XRT_FLD_RESET	1	07-F0	da
2018/05/03	00:39:06.0	XRT_PREFLR_STRT_406_OG [0x196]			
		MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/05/03	00:42:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]			
		MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/05/03	01:02:00.0	XRT_Custom_430_OG [0x1ae]			
2018/05/03	01:03:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/05/03	02:11:30.0	XRT_CTRL_MANU_400_OG [0x190]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/03	02:11:32.0	XRT_CTRL_MANU_402_OG [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/03	02:11:34.0	XRT_FLD_RESET_415_OG [0x19f]			
		MDP_XRT_FLD_RESET	1	07-F0	da
2018/05/03	02:11:36.0	XRT_PREFLR_STRT_406_OG [0x196]			
		MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/05/03	02:14:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]			
		MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/05/03	02:40:30.0	XRT_Custom_430_OG [0x1ae]			
2018/05/03	02:41:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/05/03	03:47:00.0	XRT_CTRL_MANU_400_OG [0x190]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/03	03:47:02.0	XRT_CTRL_MANU_402_OG [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/03	03:47:04.0	XRT_FLD_RESET_415_OG [0x19f]			
		MDP_XRT_FLD_RESET	1	07-F0	da
2018/05/03	03:47:06.0	XRT_PREFLR_STRT_406_OG [0x196]			
		MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/05/03	03:50:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]			
		MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/05/03	04:18:30.0	XRT_Custom_430_OG [0x1ae]			
2018/05/03	04:19:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]			
		MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/05/03	05:17:00.0	XRT_CTRL_MANU_400_OG [0x190]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/03	05:17:02.0	XRT_CTRL_MANU_402_OG [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/03	05:17:04.0	XRT_FLD_RESET_415_OG [0x19f]			
		MDP_XRT_FLD_RESET	1	07-F0	da
2018/05/03	05:17:06.0	XRT_PREFLR_STRT_406_OG [0x196]			
		MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/05/03	05:20:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]			
		MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/05/03	05:59:54.0	XRT_CTRL_MANU_402_OG [0x192]			
		MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/03	05:59:56.0	XRT_CTRL_MANU_402_OG [0x192]			

2018/05/03	05:59:58.0	XRT_FOCUS_POSITION_403_OG [0x193]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/03	06:00:00.0	AOCS_ORe-point_Start_3_OG [0x099]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2018/05/03	06:00:18.0	XRT_FLD_DIS_401_OG [0x191]	AOCU_NM	5	02-76	00 00 00 00 00
2018/05/03	06:00:20.0	XRT_FLRCTRL_DIS_405_OG [0x195]	MDP_XRT_FLD_DIS	1	07-F0	d9
2018/05/03	06:00:22.0	XRT_ARS_DIS_422_OG [0x1a6]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2018/05/03	06:02:58.0	XRT_QT_PROG_SET_443_OG [0x1bb]	MDP_XRT_ARS_DIS	1	07-F0	d5
2018/05/03	06:03:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 08
2018/05/03	06:09:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/05/03	06:09:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/03	06:09:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/03	06:10:00.0	AOCS_ORe-point_Start_4_OG [0x09a]	XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2018/05/03	06:10:18.0	XRT_FLD_ENA_411_OG [0x19b]	AOCU_NM	5	02-76	02 00 00 00 00
2018/05/03	06:10:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLD_ENA	1	07-F0	d8
2018/05/03	06:10:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8
2018/05/03	06:10:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_AEC_RESET	1	07-F0	d0
2018/05/03	06:10:26.0	XRT_FLD_RESET_433_OG [0x1b1]	MDP_XRT_ARS_DIS	1	07-F0	d5
2018/05/03	06:12:56.0	XRT_QT_PROG_SET_417_OG [0x1a1]	MDP_XRT_FLD_RESET	1	07-F0	da
2018/05/03	06:12:58.0	XRT_FL_PROG_SET_440_OG [0x1b8]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 09
2018/05/03	06:13:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 0d
2018/05/03	06:57:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/05/03	06:57:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/03	06:57:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/03	06:57:36.0	XRT_PREFLR_STRT_406_OG [0x196]	MDP_XRT_FLD_RESET	1	07-F0	da
2018/05/03	07:00:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/05/03	07:35:30.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/05/03	07:36:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	XRT_Custom_430_OG [0x1ae]			
2018/05/03	08:37:30.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/05/03	08:37:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/03	08:37:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/03	08:37:36.0	XRT_PREFLR_STRT_406_OG [0x196]	MDP_XRT_FLD_RESET	1	07-F0	da
2018/05/03	08:40:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/05/03	09:14:00.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/05/03	09:15:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	XRT_Custom_430_OG [0x1ae]			
2018/05/03	10:18:00.0	XRT_CTRL_MANU_400_OG [0x190]	MDP_XRT_CTRL_AUTO	1	07-F0	c0
2018/05/03	10:18:02.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/03	10:18:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/03	10:18:06.0	XRT_PREFLR_STRT_406_OG [0x196]	MDP_XRT_FLD_RESET	1	07-F0	da
2018/05/03	10:21:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8
2018/05/03	11:22:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_PREFLR_STOP	1	07-F0	e9
2018/05/03	11:22:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1
2018/05/03	11:23:00.5	AOCS_ORe-point_Start_3_OG [0x099]	MDP_XRT_CTRL_MANU	1	07-F0	c1
		AOCU_NM		5	02-76	00 00 00 00 00