

XRT Timeline to be uploaded on 2021/09/25

Period: 2021/09/25 09:51:00 - 2021/09/30 11:23:00

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Normal mode

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XOB #1C50: AR Standard-A(Filter-Ratio with Al/poly and thin-Be) with PFB, 384x384 at 1064 1048, thin-Be, thick-Al, Al/Poly context, with G-band (1ms/1ms)												
Term	Pointing (x, y)	Comment										
09/25 10:04:00 - 09/25 11:56:54	Track (52.5, -602.1) ^{Ⓜ 09/25 10:01:00}	# OP start + 10min. AR 12781 obs. HOP 361 (12-16UT).										
09/25 18:13:00 - 09/25 19:56:54	Track (115.5, -601.0) ^{Ⓜ 09/25 18:10:00}	# AR cont. HOP 361 (20-24UT).										
09/26 00:33:00 - 09/26 06:11:24	Track (115.5, -601.0) ^{Ⓜ 09/25 18:10:00}	# AR cont. HOP 361 (20-24UT).										
PROG= 10 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= 62 3-time(s) 2.0sec												
└─ Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
└─ thin-Be/Open	med-Be/Open	close	Safe	Norm	5.66s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
└─ Al-poly/Open	Open/thick-Al	close	Safe	Norm	16.0s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
└─ Seqn= 98 15-time(s) 120.0sec												
└─ thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
└─ Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	70.0sec
└─ thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	1	2.0sec
└─ Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	1	70.0sec
└─ thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	2	2.0sec
└─ Al-poly/Open	thin-Be/Open	close	Safe	Norm	500ms	Obs	1x1	384x384 (1064, 1048)	Q=95	3	2	70.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #1CBA: HOP421MaGIX - High cadence (8s thin-Be only) 384x384 at 1064 1048												
Term	Pointing (x, y)	Comment										
09/25 12:00:00 - 09/25 17:59:54	Track (52.5, -602.1) ^{Ⓜ 09/25 10:01:00}	# OP start + 10min. AR 12781 obs. HOP 361 (12-16UT).										
09/25 20:00:00 - 09/26 00:29:54	Track (115.5, -601.0) ^{Ⓜ 09/25 18:10:00}	# AR cont. HOP 361 (20-24UT).										
PROG= 16 Inf.-time(s)												
└─ Subr= 1 1-time(s) 2.0sec												
└─ Seqn= 67 1-time(s) 2.0sec												
└─ Open/Ti-poly	Open/thick-Al	close	Safe	Dark	16.0s	Obs	1x1	384x384 (1064, 1048)	Q=98	0	0	2.0sec
└─ Open/G-band	Open/G-band	open	Safe	Norm	44ms	Obs	1x1	384x384 (1064, 1048)	Q=98	0	0	2.0sec
└─ Seqn= 43 1-time(s) 2.0sec												
└─ Open/G-band	Open/G-band	close	Safe	Norm	63ms	Obs	1x1	384x384 (1064, 1048)	DPCM	0	0	2.0sec
└─ Subr= 2 1-time(s) 2.0sec												
└─ Seqn= 22 250-time(s) 8.0sec												
└─ thin-Be/Open	med-Be/Open	close	Safe	Norm	1.00s	Obs	1x1	384x384 (1064, 1048)	Q=95	3	0	2.0sec
Default Filter	Thicker Filter	VLS	mode	image	Exp.	CCD	Bin	ROI: size (center)	Comp.	AEC Buffer	Interval	

XOB #1BC0: Synoptic Q95 2x2 - Al/mesh(8/128/1024) + Dark cal(2x2 4x4 8x8 512 Q98) + Dark cal(1x1 512x2048 - 1x1 2048x512) + Al-poly(12/181/1443) + Th												
Term	Pointing (x, y)	Comment										
09/25 18:03:00 - 09/25 18:09:54	Fixed (0.0, 0.0)	synoptic										
09/26 06:15:56 - 09/26 06:21:30	Fixed (0.0, 0.0)	synoptic, shifted 11.5 min										
PROG= 12 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= 63 1-time(s) 2.0sec												
└─ Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	8ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
└─ Open/Al-mesh	Open/Al-mesh	close	Safe	Norm	125ms	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
└─ Seqn= 15 1-time(s) 2.0sec												
└─ Al-poly/Open	Al-poly/Open	close	Safe	Norm	12ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
└─ Al-poly/Open	Al-poly/Open	close	Safe	Norm	177ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
└─ Al-poly/Open	Al-poly/thick-Al	close	Safe	Norm	1.41s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
└─ Seqn= 27 1-time(s) 2.0sec												
└─ thin-Be/Open	thin-Be/Open	close	Safe	Norm	63ms	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
└─ thin-Be/Open	thin-Be/Open	close	Safe	Norm	1.00s	Obs	2x2	2048x2048 (1024, 1024)	Q=95	0	0	2.0sec
└─ thin-Be/Open	thin-Be/Open	close	Safe	Norm	5.66s	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	

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Flare mode

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

Term	Pointing (x, y)	Comment
09/25 10:04:00 - 09/25 11:56:54	Track (52.5, -602.1) @ 09/25 10:01:00	# OP start + 10min. AR 12781 obs. HOP 361 (12-16UT).
09/25 18:13:00 - 09/25 19:56:54	Track (115.5, -601.0) @ 09/25 18:10:00	# AR cont. HOP 361 (20-24UT).
09/26 00:33:00 - 09/26 06:11:24	Track (115.5, -601.0) @ 09/25 18:10:00	# AR cont. HOP 361 (20-24UT).

PROG= 04 30-time(s)

Subr= 1 20-time(s) 2.0sec	Seqn= 11 1-time(s) 2.0sec	Seqn= 73 1-time(s) 10.0sec
Al-poly/Open Al-poly/thick-Al close Safe Norm 125ms Obs 2x2 512x512 (1024, 1024) Q=95 2 0 2.0sec	thin-Be/Open med-Be/Open close Safe Norm 125ms Obs 1x1 384x384 (1024, 1024) Q=95 3 0 2.0sec	med-Be/Open Open/thick-Al close Safe Norm 250ms Obs 1x1 384x384 (1024, 1024) Q=95 3 0 2.0sec
	Open/thick-Be Open/thick-Be close Safe Norm 2.00s Obs 1x1 384x384 (1024, 1024) Q=95 3 0 2.0sec	
Subr= 2 1-time(s) 2.0sec	Seqn= 10 1-time(s) 2.0sec	Seqn= 11 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	Al-poly/Open Al-poly/thick-Al close Safe Norm 125ms Obs 2x2 512x512 (1024, 1024) Q=95 2 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= 87 1-time(s) 2.0sec	Open/G-band Open/G-band open Safe Norm 1ms Obs 1x1 384x384 (1024, 1024) Q=98 0 0 2.0sec	Open/G-band Open/G-band close Safe Norm 1ms Obs 1x1 384x384 (1024, 1024) Q=98 0 0 2.0sec
	Open/thick-Al Open/thick-Al close Safe Dark 1.00s Obs 1x1 384x384 (1024, 1024) Q=98 0 0 2.0sec	Open/thick-Al Open/thick-Al close Safe Dark 1.00s Obs 2x2 512x512 (1024, 1024) Q=98 0 0 2.0sec

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

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NOT USED

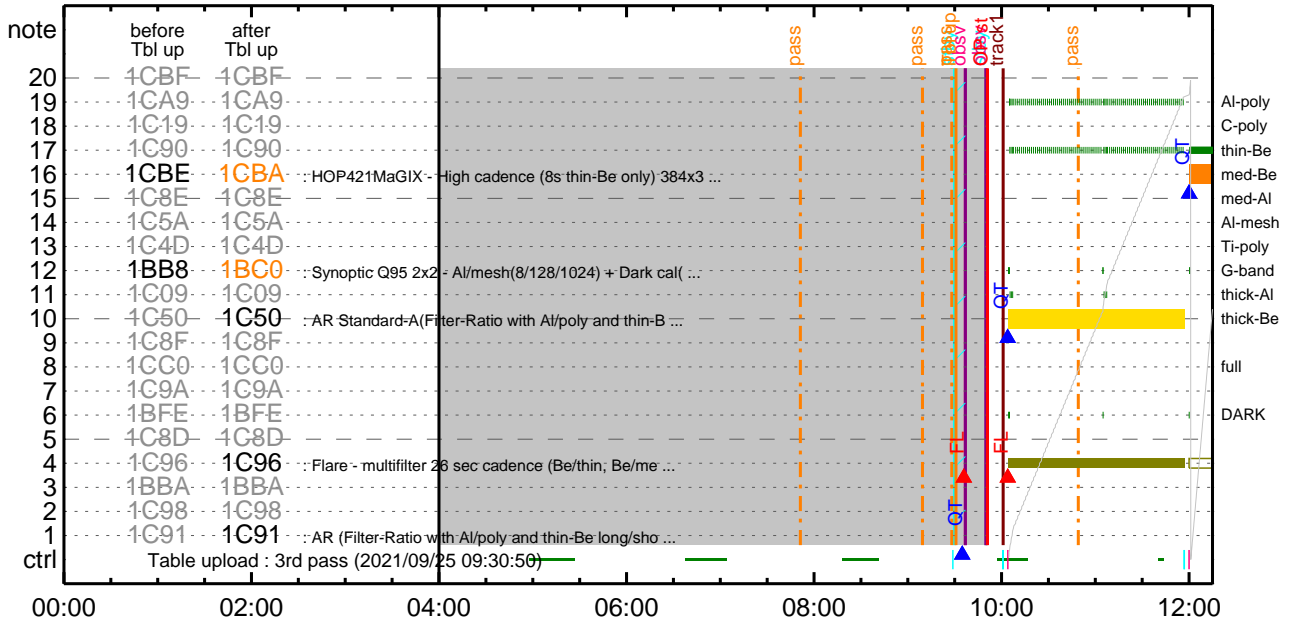
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Flare Detection

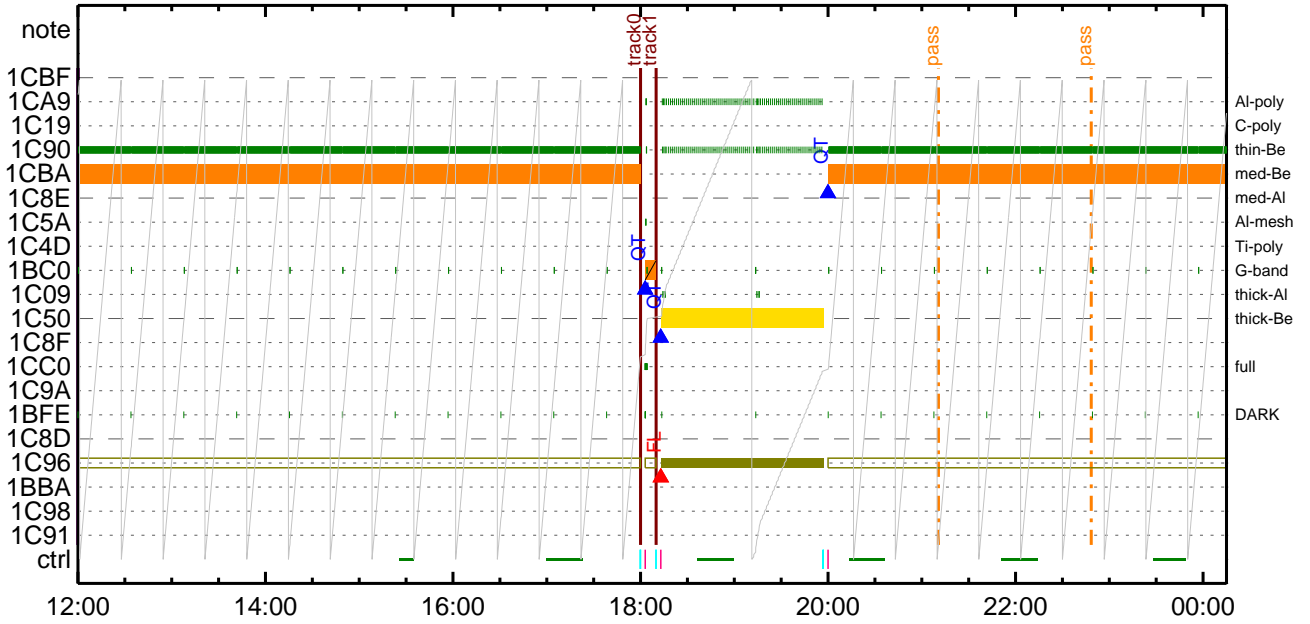
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FLD Patrol											
Term	Pointing (x, y)	Comment									
09/25 18:10:18 - 09/25 19:57:18	Track (115.5, -601.0) @ 09/25 18:10:00	# AR cont. HOP 361 (20-24UT).									
09/26 00:30:18 - 09/26 06:15:48	Track (115.5, -601.0) @ 09/25 18:10:00	# AR cont. HOP 361 (20-24UT).									
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

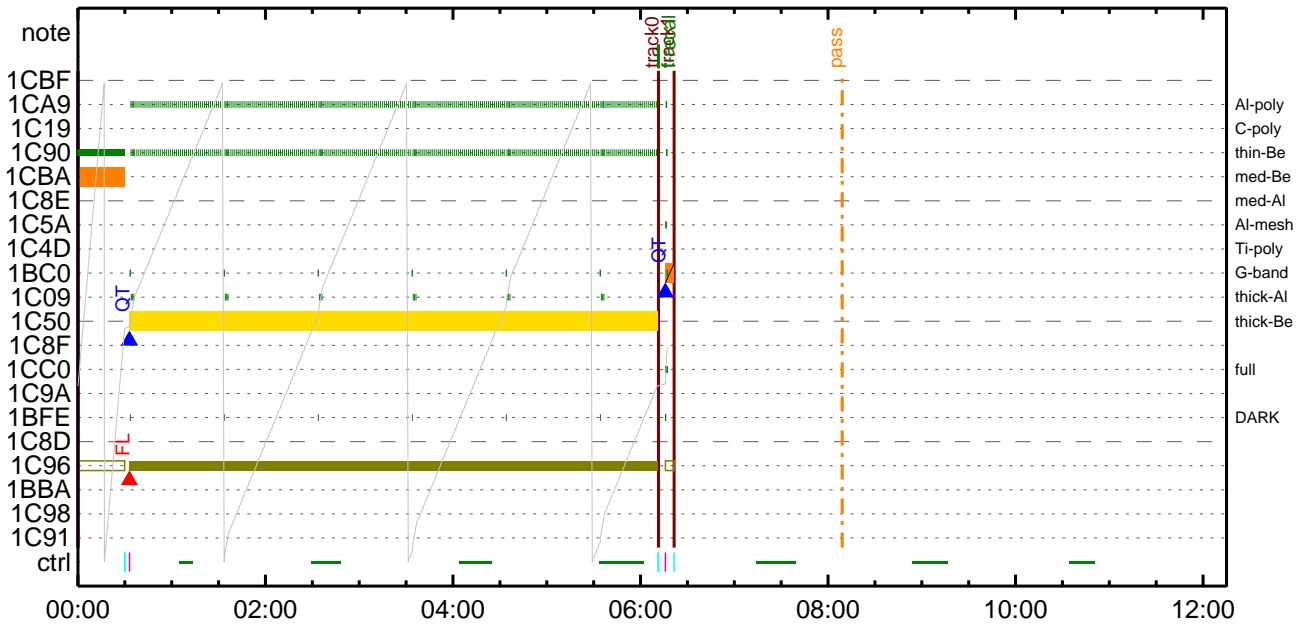
CMDI #0892 2021/09/25



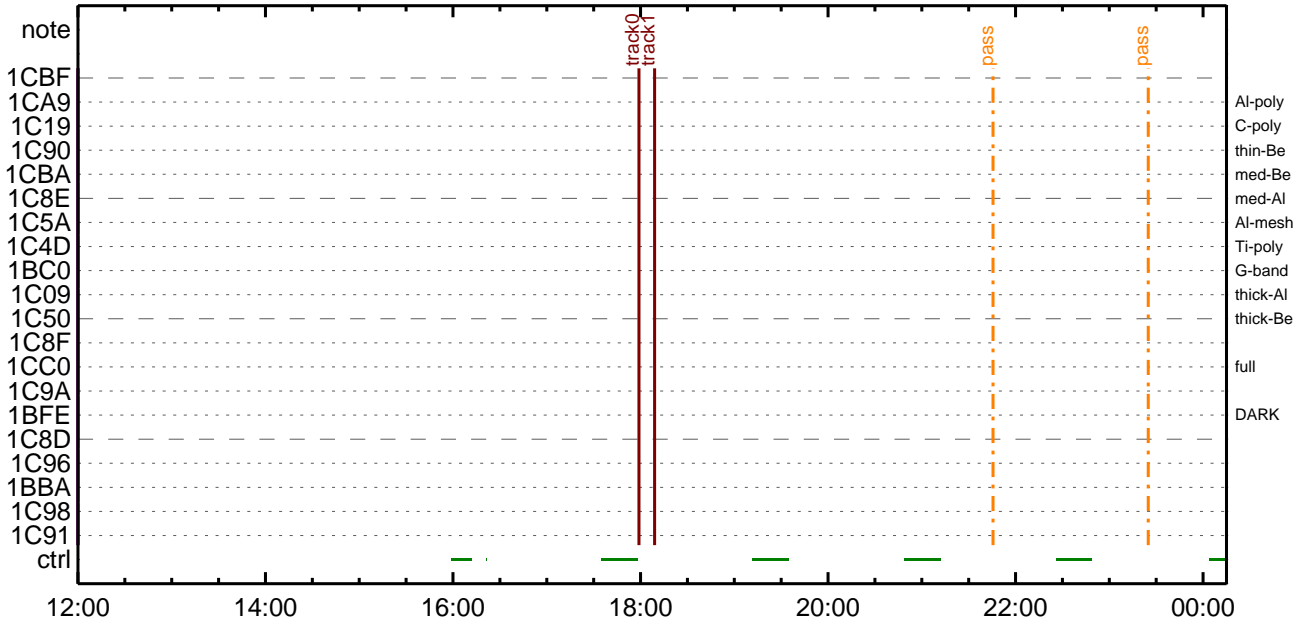
CMDI #0892 2021/09/25



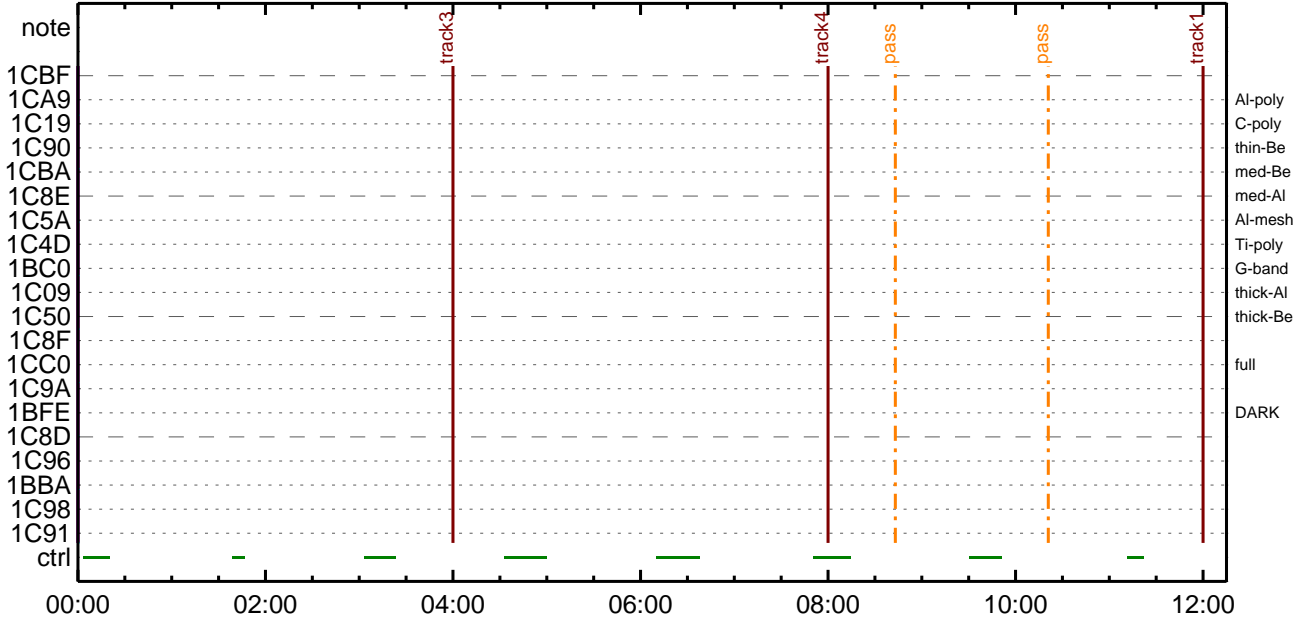
CMDI #0892 2021/09/26



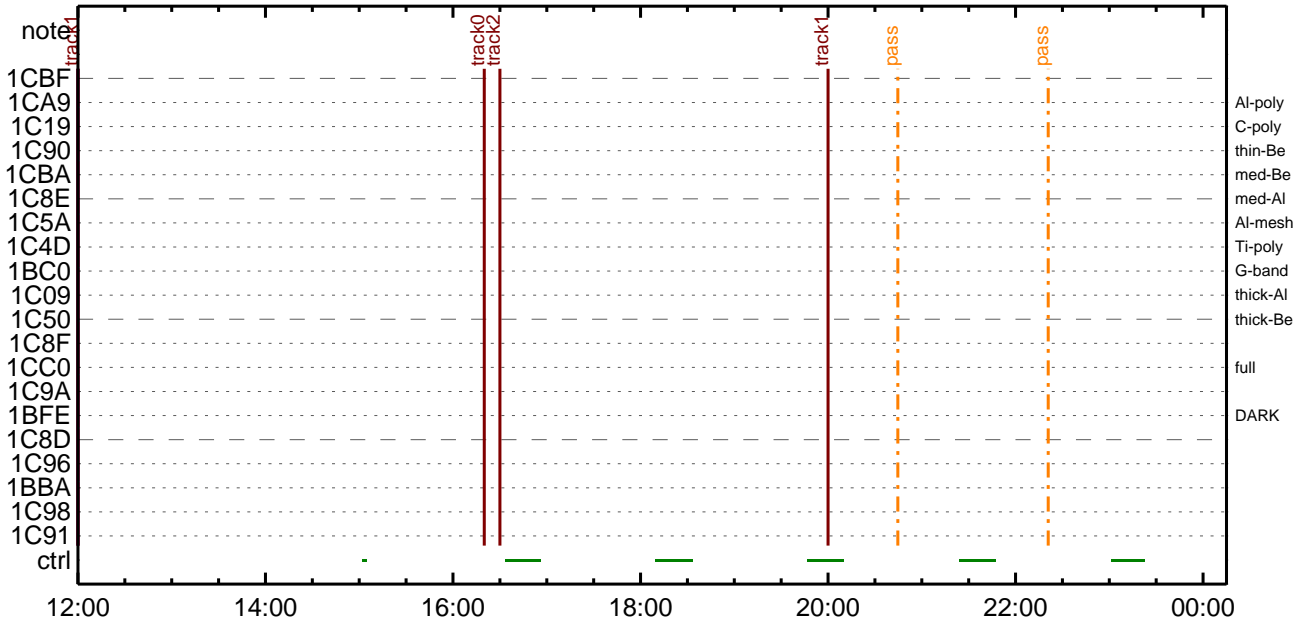
CMDI #0892 2021/09/26



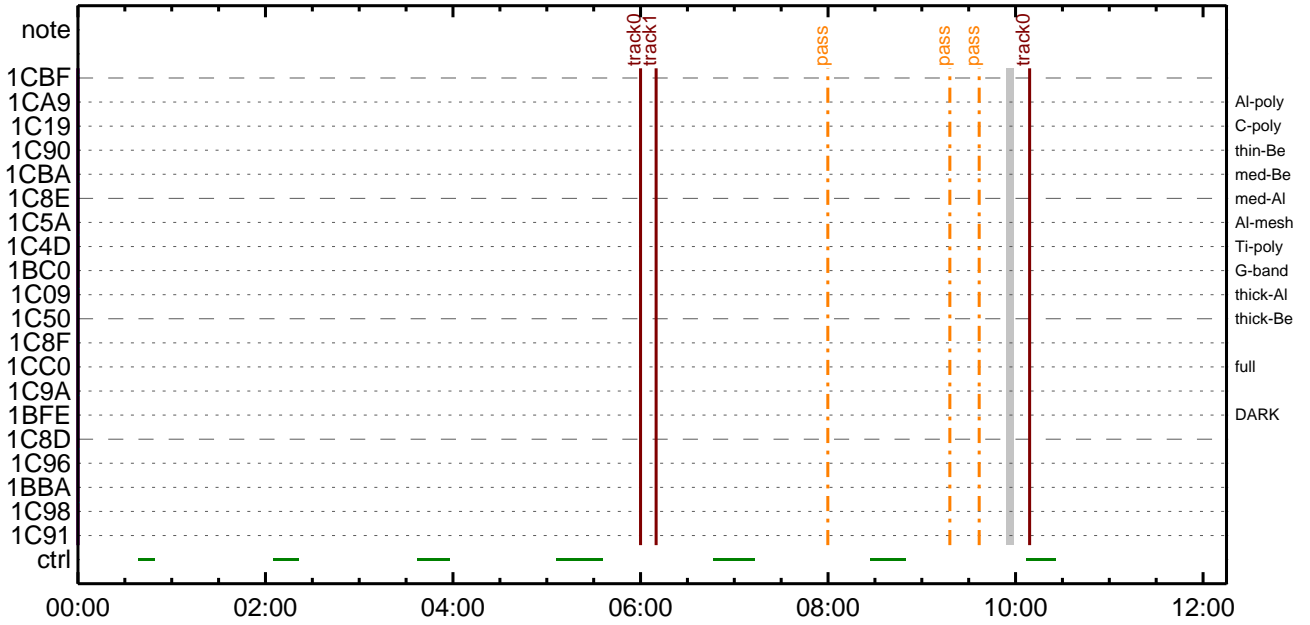
CMDI #0892 2021/09/27



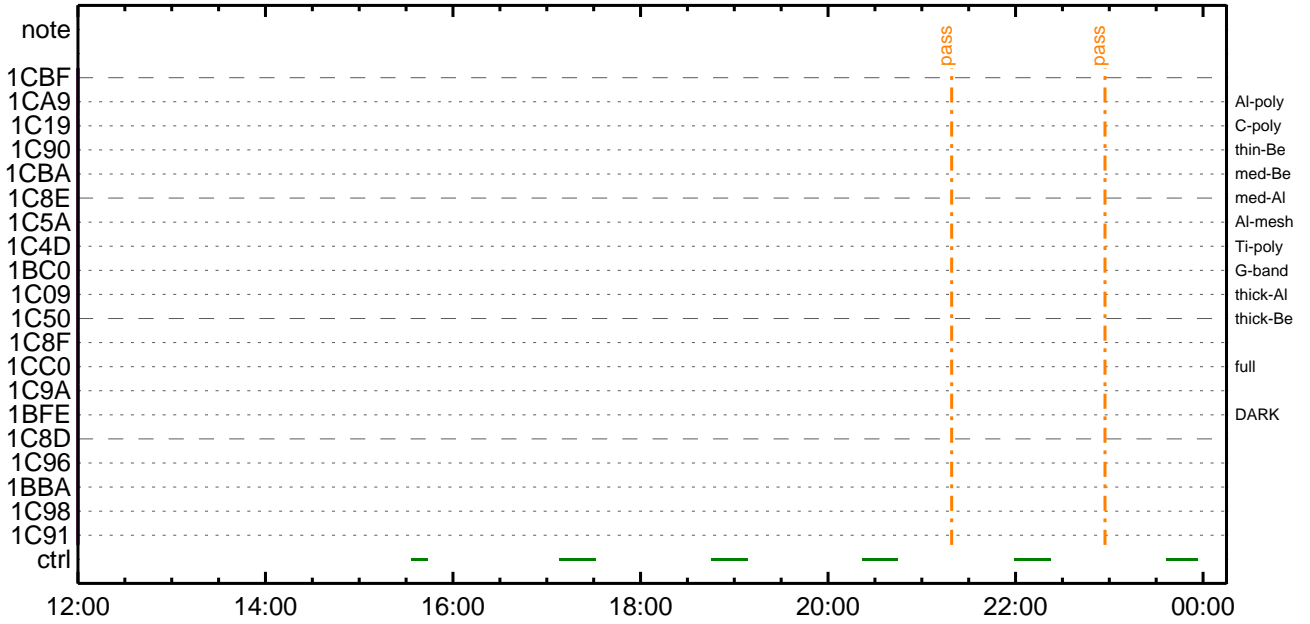
CMDI #0892 2021/09/27



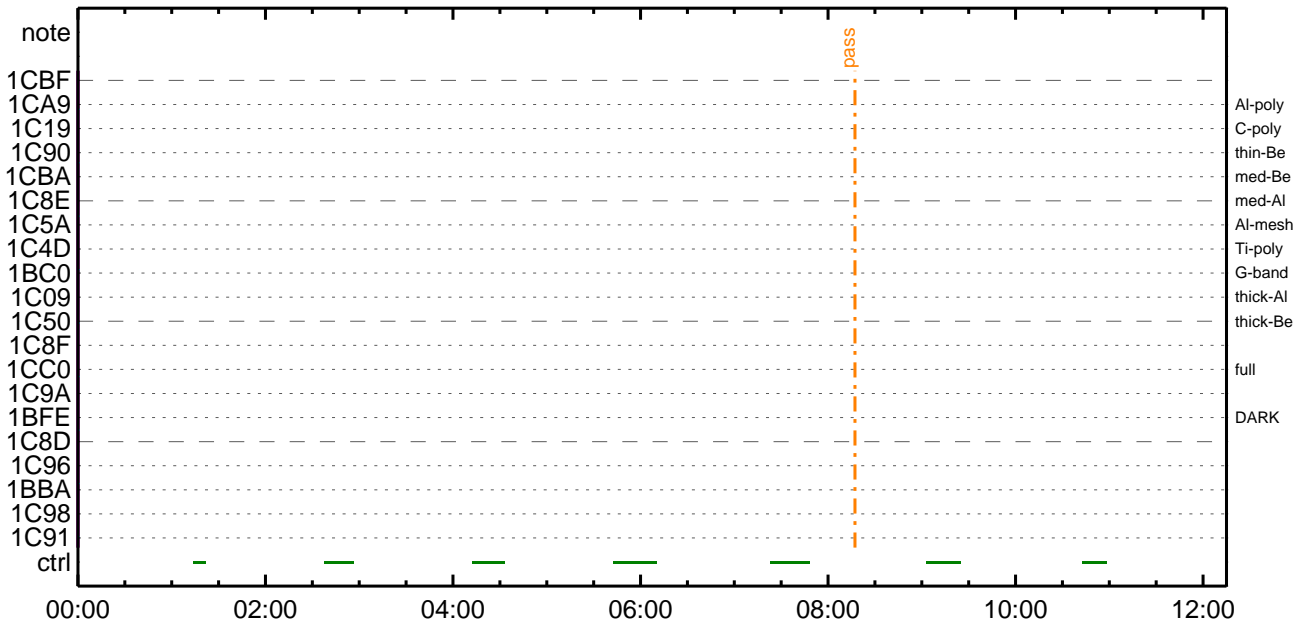
CMDI #0892 2021/09/28



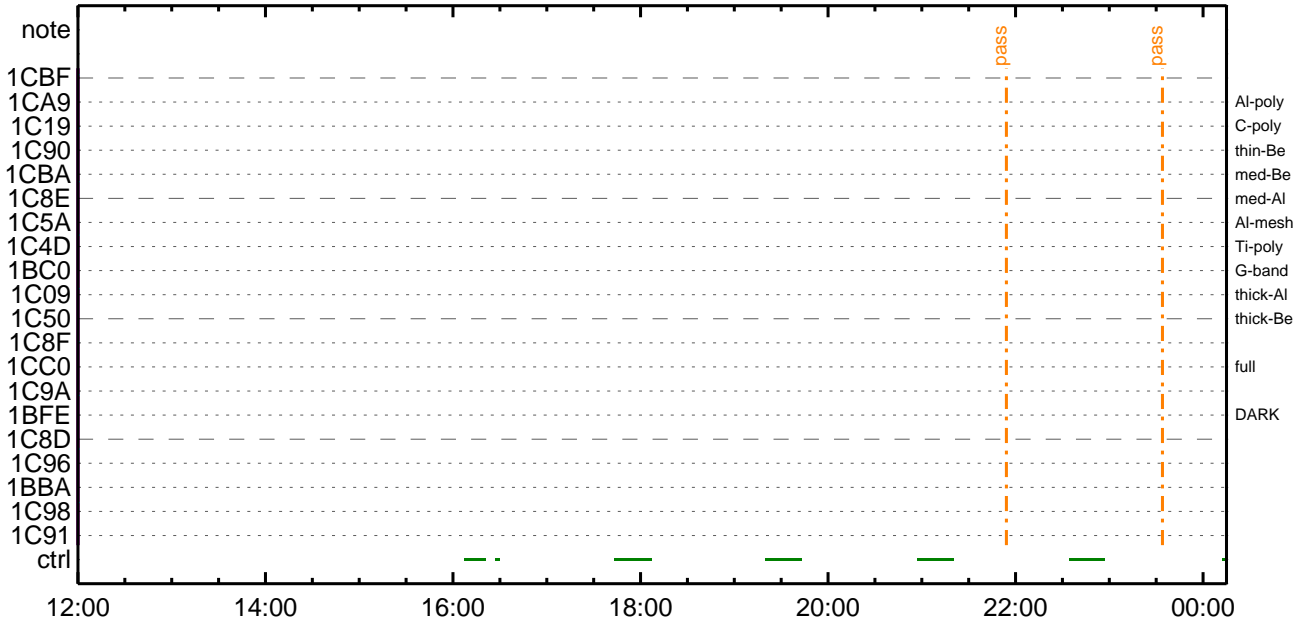
CMDI #0892 2021/09/28



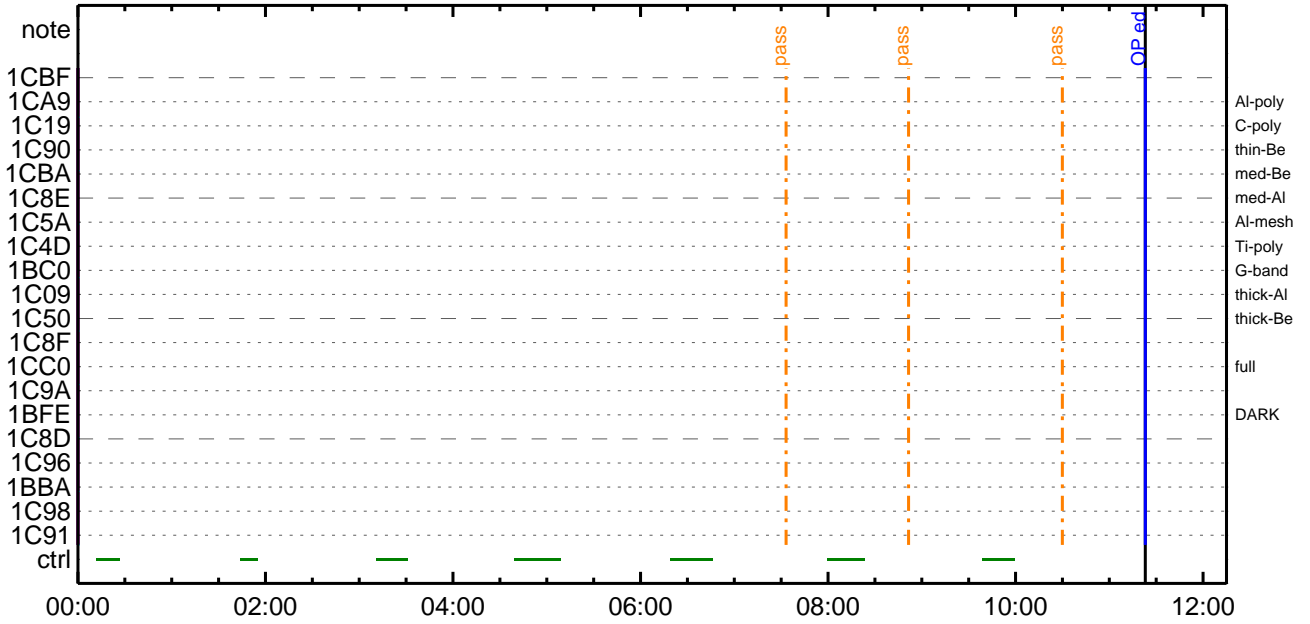
CMDI #0892 2021/09/29



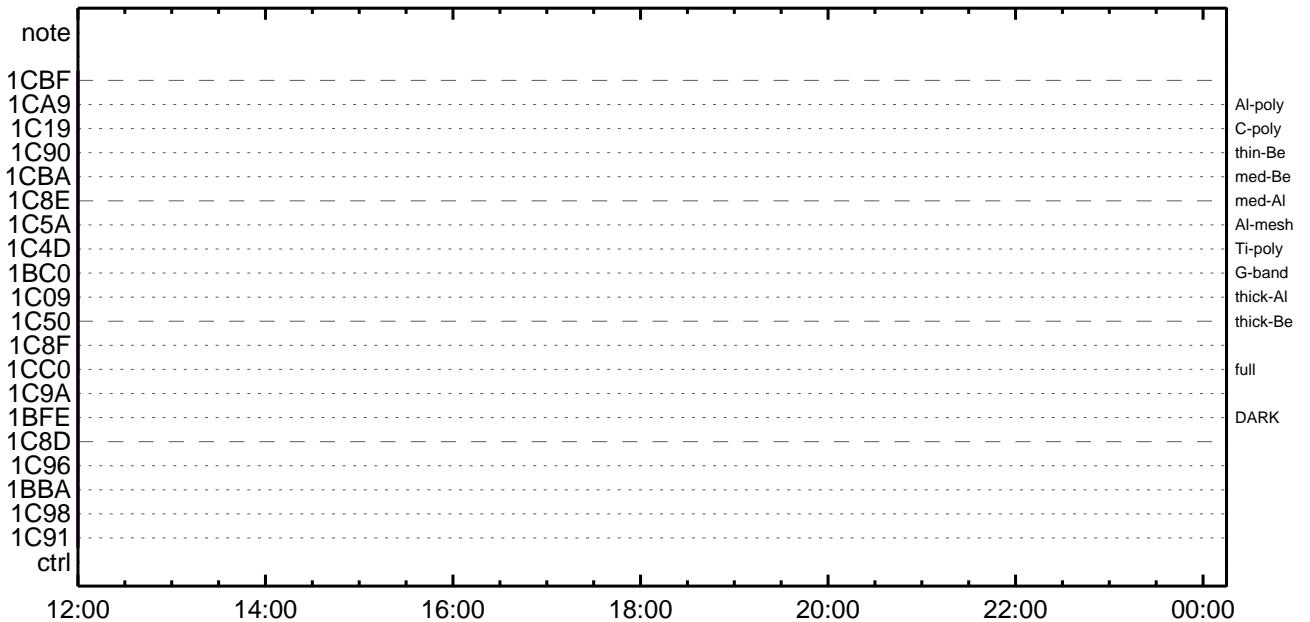
CMDI #0892 2021/09/29



CMDI #0892 2021/09/30



CMDI #0892 2021/09/30



(a) Spacecraft Operation Procedure (real-commands)

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main-716 2021-09-25 12:02:03 205 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSÿÁÿ$ÿÄÿ~¼Ä»Û;ä
0005 C.
0006 C. ÿÀÿË;¼ÿ³ÿËÿóÿËÄ;ç®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Äí;ÈçðÄå•µ°®×Ï×ÁçáÏÿçÿÿÿ×ÿÿ;¼ÿË;ÈÈè¼µ•ííÈ;ÈèÈ¼°çóã•ã¼í¹çãí;çÄ®,ùã¹ãèãðçÄ;ç®ã•ãÈããã³ãÈ;ë
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. OP/OGÿí;¼ÿË;¼ÿËÿóÿ×
0016 C. *****
0017 C.
0018 . C. ;ãOP/OGÿí;¼ÿË;ä
0019 . S. OP op-716:OP
0020 ()
0021 . S. OG og-716:OG
0022 ()
0023 C.
0024 . C. ;ãNMOG&OPí°èÿÿÿóÿ×;ä
0025 C. NMOG(0x200000-0x207FFF;§ 32 kbyte)
0026 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0027 BC (20 00 7f 01 02)
0028 C. 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. ÿÀÿËÿ×¼²¹ÿ»ðð³ÿÿç§
0041 C. çç[HK1_DMP_CHK_FLG] EQ NON
0042 . C. RAM ID=NMOGãî¼È¹ç•è²ÿÿÿ³ÿÿç§
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. ÿÀÿËÿ×¼²¹ÿ»ðð³ÿÿç§
0060 C. çç[HK1_DMP_CHK_FLG] EQ NON
0061 . C. RAM ID=NMOGãî¼È¹ç•è²ÿÿÿ³ÿÿç§
0062 C.
0063 C. NMOG(0x210000-0x210FFF;§ 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. ÿÀÿËÿ×¼²¹ÿ»ðð³ÿÿç§
0079 C. çç[HK1_DMP_CHK_FLG] EQ NON
0080 . C. RAM ID=NMOG, RAM ID=OPãî¼È¹ç•è²ÿÿÿ³ÿÿç§
0081 C.
0082 . C. ***** øÈ²¼ãï¼Ä´¶¼ãøÈÈ-ã¼ç® (¼ãµ-ÿÿÿóÿ×¼è¼çãðÄÖÃæç¼²ã¼-òè¼í¹ççãä) *****
0083 C. DHUÿä;¼ÿË;È¼ÿ¼;ÿ;¼ÿË;Èøðíä¹
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 UPLOADã-Ä;ç®NGãî¼í¹ç;ç°È²¼ãï¼Ä´ç®Ä-ç®ãî¼Ä¹Ôã¼ãÈããã³ãÈ;ë
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0096 C.                0300; SET 0EDUMP 01A±0iYÑY¹0Ç¹Ô0|0³0E;E
0097 C.
0098 C. TIY³YFÿ0YÉ00dADi¿(UT)
0099 +. TI 2021-09-25 09:46:00.0
0100 DC 01-B3 DHU_OP_STOP
0101 C.                çç[HK1_TI_CMD_NUM]                EQ      1COUNTUP
0102 C.
0103 +. TI 2021-09-25 09:46:01.0
0104 DC 01-B4 DHU_OP_COPY
0105 C.                çç[HK1_TI_CMD_NUM]                EQ      1COUNTUP
0106 C.
0107 +. TI 2021-09-25 09:46:01.0
0108 DC 01-B5 DHU_OPOG_COPY
0109 C.                çç[HK1_TI_CMD_NUM]                EQ      1COUNTUP
0110 C.
0111 +. TI 2021-09-25 09:50:59.5
0112 DC 01-B2 DHU_OP_START
0113 C.                çç[HK1_TI_CMD_NUM]                EQ      1COUNTUP
0114 C.
0115 C. 0E²¼0iÄê%ííÑ0iYÁY§YÁY-¹àìÛ
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. TIiî°èYÁY0Y×
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. YÁY0Y×½ªi»0d³iÇ§
0142 C.                çç[HK1_DMP_CHK_FLG]              EQ      NON
0143 C.
0144 C. RAM ID=TI_TBL0iÈ¹Ç•è²iOK0d³iÇ§
0145 C.
0146 C. DHUYâ;¼YÉ;È¼Y½,Yi;¼YÈ;È0dîá0¹
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 2021-09-25 09:50:16.0
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. Stop EIS observation and temporarily disable EIS mode changes
0166 C.
0167 C.
0168 C. ***** Start EIS operation (TI set) *****
0169 C. Execute, after the success of OP upload.
0170 C. Set EIS TI-commands
0171 +. TI 2021-09-25 09:50:30.0
0172 DC 07-FC EIS_MODE_MANU
0173 BC (21 02)
0174 +. TI 2021-09-25 09:50:40.0
0175 DC 07-FC EIS_MODE_CHG_DIS
0176 BC (22)
0177 C.                [ ] [HK1_TI_CMD_NUM]              EQ      2 COUNTUP
0178 C. ***** End EIS operation (TI set) *****
0179 C.
0180 C.
0181 C.
0182 C. ***** XRT START *****
0183 C. Execute, after the success of OP upload.
0184 +. TI 2021-09-25 09:50:00.0
0185 DC 07-F0 MDP_XRT_MODE_STBY
0186 BC (c3)
0187 C.                [ ] [HK1_TI_CMD_NUM]              EQ      1COUNTUP
0188 C.
0189 C. ***** XRT END *****
0190 C.
0191 C. ***** MDP `úÃi0i»ö¼Y0ÈÄ0¹0èDCBC•×²è *****
0192 C. (%â°iY0YÁYÈYpYÈYáYçYè0E¼00¼Ä»Û0¹0é)
0193 S. DC-BC dcbc-402:DCBC

```



```
0194 (MDP_known_event)
0195 C.
0196 C.
0197 . C. ***** ¥ÐŸ!•İ Daily±;İÑøĒ'Øσ¹αēDCBC•x²è *****
0198 . S. DC-BC dcbc-153:DCBC
0199 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0200 C.
0201 C.
0202 . C. ;ãLOS¥Á¥S¥Ã¥~¼Â»Ü;ã
0203 C.
0204 . C. ***** LOS *****
0205 C.
```


(a) Spacecraft Operation Procedure (real-commands)

```
main-718 2021-09-25 12:02:03 130 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Û;ä
0005 C.
0006 C. YÁYB;¼Y³YF¥ÓYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Èø¿òÁø•µ°È»Í×ÁÇøÍYçYÁY×Yí;¼YÉ;ÈÈè%µ•ííÉ;ÈøÈ¼°ÇÓø•ø¿¼í¹çøÍ;çÁ®, ùø¹øèøøøçÁ+¿®ø•øÈøøøøøÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 C.
0015 C. ***** XRT START *****
0016 C.
0017 +. DC 07-F0 MDP_XRT_CTRL_MANU
0018 BC (c1)
0019 + DC 07-F0 MDP_XRT_MODE_STBY
0020 BC (c3)
0021 . C. ----- Success Verify ? OK / NG____
0022 C.
0023 C. XRT Obs. Table Upload
0024 . S. RAM ram-291:MDP_OBS_X
0025 ( )
0026 C.
0027 +. DC 07-F0 MDP_DUMP_XRTTBL
0028 BC (84 07 00 00 00 3a d4)
0029 . C. ----- Comparison Check ? OK / ERR ____
0030 C.
0031 C.
0032 +. DC 07-F0 MDP_XRT_ROI_SET
0033 BC (cd 01 b1 b1 04 04)
0034 + DC 07-F0 MDP_XRT_ROI_SET
0035 BC (cd 02 b1 b1 08 08)
0036 + DC 07-F0 MDP_XRT_ROI_SET
0037 BC (cd 03 b1 b1 08 08)
0038 + DC 07-F0 MDP_XRT_ROI_SET
0039 BC (cd 04 b1 b1 06 06)
0040 + DC 07-F0 MDP_XRT_ROI_SET
0041 BC (cd 05 85 83 06 06)
0042 + DC 07-F0 MDP_XRT_ROI_SET
0043 BC (cd 06 85 83 06 06)
0044 + DC 07-F0 MDP_XRT_ROI_SET
0045 BC (cd 07 85 83 08 08)
0046 + DC 07-F0 MDP_XRT_ROI_SET
0047 BC (cd 08 80 80 20 20)
0048 + DC 07-F0 MDP_XRT_ROI_SET
0049 BC (cd 09 80 80 20 08)
0050 + DC 07-F0 MDP_XRT_ROI_SET
0051 BC (cd 0a 80 80 08 20)
0052 + DC 07-F0 MDP_XRT_ROI_SET
0053 BC (cd 0f 80 80 06 06)
0054 + DC 07-F0 MDP_XRT_ROI_SET
0055 BC (cd 10 80 80 08 08)
0056 + DC 07-F0 MDP_XRT_FLD_ENA
0057 BC (d8)
0058 + DC 07-F0 MDP_XRT_FLRCTRL_ENA
0059 BC (c8)
0060 + DC 07-F0 MDP_XRT_ARS_DIS
0061 BC (d5)
0062 + DC 07-F0 MDP_XRT_AEC_RESET
0063 BC (d0)
0064 + DC 07-F0 MDP_XRT_FLD_RESET
0065 BC (da)
0066 +. DC 07-F0 MDP_XRT_QT_PROG_SET
0067 BC (c4 01)
0068 +. DC 07-F0 MDP_XRT_FL_PROG_SET
0069 BC (c5 04)
0070 . C. ----- Success Verify ? OK / NG ____
0071 C.
0072 C.
0073 . C. All OK? Yes--> Please Proceed. / No --> Stop here.
0074 C.
0075 +. DC 07-F0 MDP_XRT_MODE_OBSV
0076 BC (c2)
0077 +. TI 2021-09-25 09:50:02.0
0078 DC 07-F0 MDP_XRT_MODE_OBSV
0079 BC (c2)
0080 . C. ----- Success Verify ? OK / NG ____
0081 C.
0082 C. ***** XRT END *****
0083 . C. *****
0084 C. SOT table upload
0085 C. *****
0086 . C. < Stop SP table >
0087 +. DC 07-F0 MDP_SP_CTRL_MANU
0088 BC (61)
0089 C. -----
0090 C. MDP_SP_CTRL_MODE = MANU [ ]
0091 C. -----
0092 C.
0093 . C. <Upload SP Observation Table>
0094 . S. RAM ram-285:MDP_OBS_S
0095 ( )
```

```
0096      C.
0097 . C. < Dump RAMID=MDP_OBS_S >
0098 +. DC 07-F0 MDP_DUMP_SPTBL
0099      BC      (83 07 00 00 00 38 b8)
0100      C. -----
0101      C. MDP_OBS_S verify = OK/NG      [  ]
0102      C. -----
0103      C.
0104      C. *****
0105      C. SOT TI command set
0106      C. *****
0107      C. Execute, after the success of TBL upload.
0108 +. TI 2021-09-25 09:50:18.0
0109      DC 07-F0 MDP_SOT_MODE_OBSV
0110      BC      (40)
0111      C. -----
0112      C. HK1_TI_CMD_NUM      = 1 CNTUP [  ]
0113      C. -----
0114      C.
0115      C.
0116 . C. ***** MDP 'ûÃîâî»ö¼ÝðĚÂðð¹æDCBC•x²è *****
0117      C. (¼â°îŸÓŸÄŸĚŸĹŸĚŸâŸĴŸÈææ¼¼¼¼¼»Ů¹æè)
0118 . S. DC-BC dcbc-402:DCBC
0119      (MDP_known_event)
0120      C.
0121      C.
0122 . C. ***** ŸDŸ¹.İ Daily±¿İÑæĚ´Ø¹æèDCBC•x²è *****
0123 . S. DC-BC dcbc-153:DCBC
0124      (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0125      C.
0126      C.
0127 . C. ;ãLOSŸÄŸŠŸÄŸŲ¼Ÿ»Ů;ä
0128      C.
0129 . C. ***** LOS *****
0130      C.
```

*** OP Sequence for XRT ***

```

2021/09/25 10:00:54.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2021/09/25 10:00:56.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2021/09/25 10:00:58.0 XRT_FOCUS_POSITION_410_OG [0x19a]
                        XRT_FOCUS_POSITION 4 07-F8 22 fe 97 00
2021/09/25 10:01:00.0 AOCs_OrE-point_Start_1_OG [0x097]
                        AOCU_NM 5 02-76 01 03 a5 01 f3
2021/09/25 10:01:18.0 XRT_FLD_ENA_411_OG [0x19b]
                        MDP_XRT_FLD_ENA 1 07-F0 d8
2021/09/25 10:01:20.0 XRT_FLRCTRL_ENA_412_OG [0x19c]
                        MDP_XRT_FLRCTRL_ENA 1 07-F0 c8
2021/09/25 10:01:22.0 XRT_AEC_RESET_448_OG [0x1c0]
                        MDP_XRT_AEC_RESET 1 07-F0 d0
2021/09/25 10:01:24.0 XRT_ARS_DIS_423_OG [0x1a7]
                        MDP_XRT_ARS_DIS 1 07-F0 d5
2021/09/25 10:01:26.0 XRT_FLD_RESET_434_OG [0x1b2]
                        MDP_XRT_FLD_RESET 1 07-F0 da
2021/09/25 10:03:56.0 XRT_QT_PROG_SET_405_OG [0x195]
                        MDP_XRT_QT_PROG_SET 2 07-F0 c4 0a
2021/09/25 10:03:58.0 XRT_FL_PROG_SET_418_OG [0x1a2]
                        MDP_XRT_FL_PROG_SET 2 07-F0 c5 04
2021/09/25 10:04:00.0 XRT_CTRL_AUTO_408_OG [0x198]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2021/09/25 11:56:54.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2021/09/25 11:56:56.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2021/09/25 11:56:58.0 XRT_FOCUS_POSITION_410_OG [0x19a]
                        XRT_FOCUS_POSITION 4 07-F8 22 fe 97 00
2021/09/25 11:57:18.0 XRT_FLD_DIS_409_OG [0x199]
                        MDP_XRT_FLD_DIS 1 07-F0 d9
2021/09/25 11:57:20.0 XRT_FLRCTRL_DIS_413_OG [0x19d]
                        MDP_XRT_FLRCTRL_DIS 1 07-F0 c9
2021/09/25 11:57:22.0 XRT_AEC_RESET_448_OG [0x1c0]
                        MDP_XRT_AEC_RESET 1 07-F0 d0
2021/09/25 11:57:24.0 XRT_ARS_DIS_423_OG [0x1a7]
                        MDP_XRT_ARS_DIS 1 07-F0 d5
2021/09/25 11:57:26.0 XRT_FLD_RESET_421_OG [0x1a5]
                        MDP_XRT_FLD_RESET 1 07-F0 da
2021/09/25 11:59:58.0 XRT_QT_PROG_SET_441_OG [0x1b9]
                        MDP_XRT_QT_PROG_SET 2 07-F0 c4 10
2021/09/25 12:00:00.0 XRT_CTRL_AUTO_408_OG [0x198]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2021/09/25 17:59:54.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2021/09/25 17:59:56.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2021/09/25 17:59:58.0 XRT_FOCUS_POSITION_406_OG [0x196]
                        XRT_FOCUS_POSITION 4 07-F8 22 ff aa 00
2021/09/25 18:00:00.0 AOCs_OrE-point_Start_2_OG [0x098]
                        AOCU_NM 5 02-76 00 00 00 00 00
2021/09/25 18:00:18.0 XRT_FLD_DIS_409_OG [0x199]
                        MDP_XRT_FLD_DIS 1 07-F0 d9
2021/09/25 18:00:20.0 XRT_FLRCTRL_DIS_413_OG [0x19d]
                        MDP_XRT_FLRCTRL_DIS 1 07-F0 c9
2021/09/25 18:00:22.0 XRT_ARS_DIS_420_OG [0x1a4]
                        MDP_XRT_ARS_DIS 1 07-F0 d5
2021/09/25 18:02:58.0 XRT_QT_PROG_SET_422_OG [0x1a6]
                        MDP_XRT_QT_PROG_SET 2 07-F0 c4 0c
2021/09/25 18:03:00.0 XRT_CTRL_AUTO_408_OG [0x198]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2021/09/25 18:09:54.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2021/09/25 18:09:56.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2021/09/25 18:09:58.0 XRT_FOCUS_POSITION_410_OG [0x19a]
                        XRT_FOCUS_POSITION 4 07-F8 22 fe 97 00
2021/09/25 18:10:00.0 AOCs_OrE-point_Start_1_OG [0x097]
                        AOCU_NM 5 02-76 01 03 a5 01 f3
2021/09/25 18:10:18.0 XRT_FLD_ENA_411_OG [0x19b]
                        MDP_XRT_FLD_ENA 1 07-F0 d8
2021/09/25 18:10:20.0 XRT_FLRCTRL_ENA_412_OG [0x19c]
                        MDP_XRT_FLRCTRL_ENA 1 07-F0 c8
2021/09/25 18:10:22.0 XRT_AEC_RESET_448_OG [0x1c0]
                        MDP_XRT_AEC_RESET 1 07-F0 d0
2021/09/25 18:10:24.0 XRT_ARS_DIS_423_OG [0x1a7]
                        MDP_XRT_ARS_DIS 1 07-F0 d5
2021/09/25 18:10:26.0 XRT_FLD_RESET_434_OG [0x1b2]
                        MDP_XRT_FLD_RESET 1 07-F0 da
2021/09/25 18:12:56.0 XRT_QT_PROG_SET_405_OG [0x195]
                        MDP_XRT_QT_PROG_SET 2 07-F0 c4 0a
2021/09/25 18:12:58.0 XRT_FL_PROG_SET_418_OG [0x1a2]
                        MDP_XRT_FL_PROG_SET 2 07-F0 c5 04
2021/09/25 18:13:00.0 XRT_CTRL_AUTO_408_OG [0x198]
                        MDP_XRT_CTRL_AUTO 1 07-F0 c0
2021/09/25 19:56:54.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2021/09/25 19:56:56.0 XRT_CTRL_MANU_402_OG [0x192]
                        MDP_XRT_CTRL_MANU 1 07-F0 c1
2021/09/25 19:56:58.0 XRT_FOCUS_POSITION_410_OG [0x19a]

```

2021/09/25	19:57:18.0	XRT_FLD_DIS_409_OG [0x199]	XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00
		MDP_XRT_FLD_DIS		1	07-F0	d9			
2021/09/25	19:57:20.0	XRT_FLRCTRL_DIS_413_OG [0x19d]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9			
2021/09/25	19:57:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0			
2021/09/25	19:57:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5			
2021/09/25	19:57:26.0	XRT_FLD_RESET_421_OG [0x1a5]	MDP_XRT_FLD_RESET	1	07-F0	da			
2021/09/25	19:59:58.0	XRT_QT_PROG_SET_441_OG [0x1b9]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	10		
2021/09/25	20:00:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2021/09/26	00:29:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2021/09/26	00:29:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2021/09/26	00:29:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]	XRT_FOCUS_POSITION	4	07-F8	22	fe	97	00
2021/09/26	00:30:18.0	XRT_FLD_ENA_411_OG [0x19b]	MDP_XRT_FLD_ENA	1	07-F0	d8			
2021/09/26	00:30:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8			
2021/09/26	00:30:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_AEC_RESET	1	07-F0	d0			
2021/09/26	00:30:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_ARS_DIS	1	07-F0	d5			
2021/09/26	00:30:26.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_FLD_RESET	1	07-F0	da			
2021/09/26	00:32:56.0	XRT_QT_PROG_SET_405_OG [0x195]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	0a		
2021/09/26	00:32:58.0	XRT_FL_PROG_SET_418_OG [0x1a2]	MDP_XRT_FL_PROG_SET	2	07-F0	c5	04		
2021/09/26	00:33:00.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2021/09/26	06:11:24.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2021/09/26	06:11:26.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2021/09/26	06:11:28.0	XRT_FOCUS_RECALIBRATE_427_OG [0x1ab]	XRT_FOCUS_RECAL	2	07-F8	78	00		
2021/09/26	06:11:30.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00	00	00	00
2021/09/26	06:15:28.0	XRT_FOCUS_POSITION_406_OG [0x196]	XRT_FOCUS_POSITION	4	07-F8	22	ff	aa	00
2021/09/26	06:15:48.0	XRT_FLD_DIS_409_OG [0x199]	MDP_XRT_FLD_DIS	1	07-F0	d9			
2021/09/26	06:15:50.0	XRT_FLRCTRL_DIS_413_OG [0x19d]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9			
2021/09/26	06:15:52.0	XRT_ARS_DIS_428_OG [0x1ac]	MDP_XRT_ARS_DIS	1	07-F0	d5			
2021/09/26	06:15:54.0	XRT_QT_PROG_SET_422_OG [0x1a6]	MDP_XRT_QT_PROG_SET	2	07-F0	c4	0c		
2021/09/26	06:15:56.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2021/09/26	06:21:30.0	AOCS_ORe-point_Start_1_OG [0x097]	AOCU_NM	5	02-76	01	03	a5	01
2021/09/26	06:21:30.5	XRT_CTRL_MANU_443_OG [0x1bb]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2021/09/26	06:22:00.5	XRT_TCIB_XRT_S_HTR_A_ENA_432_OG [0x1b0]	TCIB_XRT_S_HTR_A_ENA	0	04-BC				
2021/09/26	17:59:00.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00	00	00	00
2021/09/26	18:09:00.0	AOCS_ORe-point_Start_1_OG [0x097]	AOCU_NM	5	02-76	01	03	a5	01
2021/09/27	04:00:00.0	AOCS_ORe-point_Start_3_OG [0x099]	AOCU_NM	5	02-76	03	00	00	00
2021/09/27	08:00:00.0	AOCS_ORe-point_Start_4_OG [0x09a]	AOCU_NM	5	02-76	04	00	00	00
2021/09/27	12:00:00.0	AOCS_ORe-point_Start_1_OG [0x097]	AOCU_NM	5	02-76	01	03	a5	01
2021/09/27	16:20:00.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00	00	00	00
2021/09/27	16:30:00.0	AOCS_ORe-point_Start_5_OG [0x09b]	AOCU_NM	5	02-76	02	00	00	00
2021/09/27	20:00:00.0	AOCS_ORe-point_Start_1_OG [0x097]	AOCU_NM	5	02-76	01	03	a5	01
2021/09/28	06:00:00.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00	00	00	00
2021/09/28	06:10:00.0	AOCS_ORe-point_Start_1_OG [0x097]	AOCU_NM	5	02-76	01	03	a5	01
2021/09/28	10:09:00.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	00	00	00	00