

XRT Timeline to be uploaded on 2022/04/30

Period: 2022/04/30 11:52:00 - 2022/05/05 11:02:00

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Normal mode

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XOB #1CC3: HOP361 - High cadence (10s thin-Be only) 256x256 at 1064 1048												
Term		Pointing (x, y)					Comment					
04/30 12:05:00 - 04/30 17:46:30		Track (108.5, -294.7) @ 04/30 12:02:00					# OP start + 10min. AR 12999 observations.					
04/30 19:57:30 - 05/01 01:53:30		Track (173.2, -296.0) @ 04/30 19:45:00					# AR obs.					
PROG= 13 Inf.-time(s)												
└ Subr= 1 1-time(s) 2.0sec												
└└ Seqn= 12 1-time(s) 2.0sec												
└└└ Open/G-band Open/G-band open Safe Norm 1ms Obs 1x1 256x256 (1064, 1048) DPCM 0 0 2.0sec												
└└└ Open/G-band Open/G-band close Safe Norm 1ms Obs 1x1 256x256 (1064, 1048) DPCM 0 0 2.0sec												
└└└ Open/Ti-poly Open/thick-Al close Safe Dark 16.0s Obs 1x1 256x256 (1064, 1048) Q=98 0 0 2.0sec												
└ Subr= 2 1-time(s) 2.0sec												
└└ Seqn= 28 250-time(s) 10.0sec												
└└└ thin-Be/Open med-Be/Open close Safe Norm 1.00s Obs 1x1 256x256 (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 #1C9C: Synoptic 7 Filter w/ Al-mesh(12/181/1024), Al-poly(24/362/4096), Thin-Be(181/2048/11571) - Thick-Be(65536), Al-poly+Ti-poly(128/2048), Med-Be(128/2048)												
Term		Pointing (x, y)					Comment					
04/30 18:22:30 - 04/30 18:29:24		Fixed (0.0, 0.0)					synoptic, shifted 19.5 min					
PROG= 20 1-time(s)												
└ Subr= 1 1-time(s) 2.0sec												
└└ Seqn= 5 1-time(s) 2.0sec												
└└└ Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec												
└└└ Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 4x4 2048x2048 (1024, 1024) Q=98 0 0 2.0sec												
└└└ Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 8x8 2048x2048 (1024, 1024) Q=98 0 0 2.0sec												
└└└ Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 1x1 2048x512 (1024, 1024) DPCM 0 0 2.0sec												
└└└ Open/Ti-poly Open/thick-Al close Safe Dark 500ms Obs 1x1 512x2048 (1024, 1024) DPCM 0 0 2.0sec												
└└ Seqn= 25 1-time(s) 2.0sec												
└└└ Open/Al-mesh Open/Al-mesh close Safe Norm 12ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 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												
└└ Seqn= 9 1-time(s) 2.0sec												
└└└ Al-poly/Open Al-poly/Open close Safe Norm 24ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 2.0sec												
└└└ Al-poly/Open Al-poly/Open close Safe Norm 354ms 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												
└└ Seqn= 53 1-time(s) 2.0sec												
└└└ thin-Be/Open thin-Be/Open close Safe Norm 177ms Obs 2x2 2048x2048 (1024, 1024) Q=95 0 0 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 11.3s 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= 2 1-time(s) 2.0sec												
└└└ med-Al/Open med-Al/Open close Safe Norm 4.00s 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= 7 1-time(s) 2.0sec												
└└└ Al-poly/Ti-poly Al-poly/thick-Al close Safe Norm 125ms Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec												
└└└ Al-poly/Ti-poly Al-poly/thick-Al close Safe Norm 2.00s Obs 2x2 2048x2048 (1024, 1024) Q=98 0 0 2.0sec												
Default Filter		Thicker Filter		VLS		mode image		Exp. CCD Bin		ROI: size (center)		Comp. AEC Buffer Interval

XOB #1CC4: CME watch - 4x4 - AEC 1 and 0 (128ms) - Al-poly - G-band (1x1,512x512,1ms) - Leak (1x1,512x512,1ms) - 30s cad (G-band/Leak first)												
Term		Pointing (x, y)					Comment					
04/30 18:32:30 - 04/30 19:25:00		Fixed (0.0, -935.0)					# South pole for eclipse (HOP 394).					
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 1-time(s) 2.0sec												
└└ Seqn= 61 120-time(s) 30.0sec												
└└└ Al-poly/Open Al-poly/Open close Safe Norm 125ms Obs 4x4 2048x2048 (1024, 1024) Q=98 1 0 2.0sec												
└└└ Al-poly/Open Al-poly/Open close Safe Norm 125ms Obs 4x4 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 #1CD0: HOP349 - 3-filter Synoptics (Al-mesh[2/128/723], Al-poly[12/181/1443], thin-Be[24/512/3897] with 512x512 G-band+Leak - 300min cad) + CME watch												
Term		Pointing (x, y)					Comment					
05/01 02:23:00 - 05/01 06:03:24		Fixed (0.0, 0.0)					HOP 349 + synoptic, shifted 3.5 min					
PROG= 01 Inf.-time(s)												
└ Subr= 1 1-time(s) 300.0sec												

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-AI	Open/thick-AI	close	Safe	Dark	1.00s	Obs	1x1	384x384 (1024, 1024)	Q=98	0	0	2.0sec
Open/thick-AI	Open/thick-AI	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

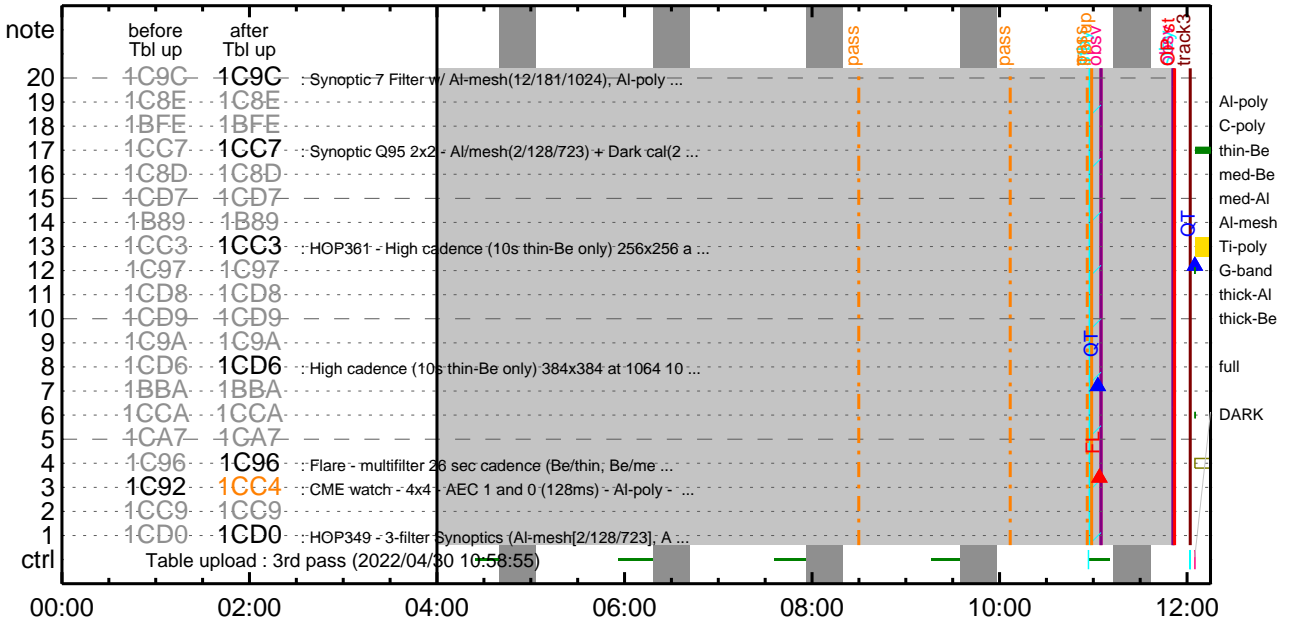
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Flare Detection

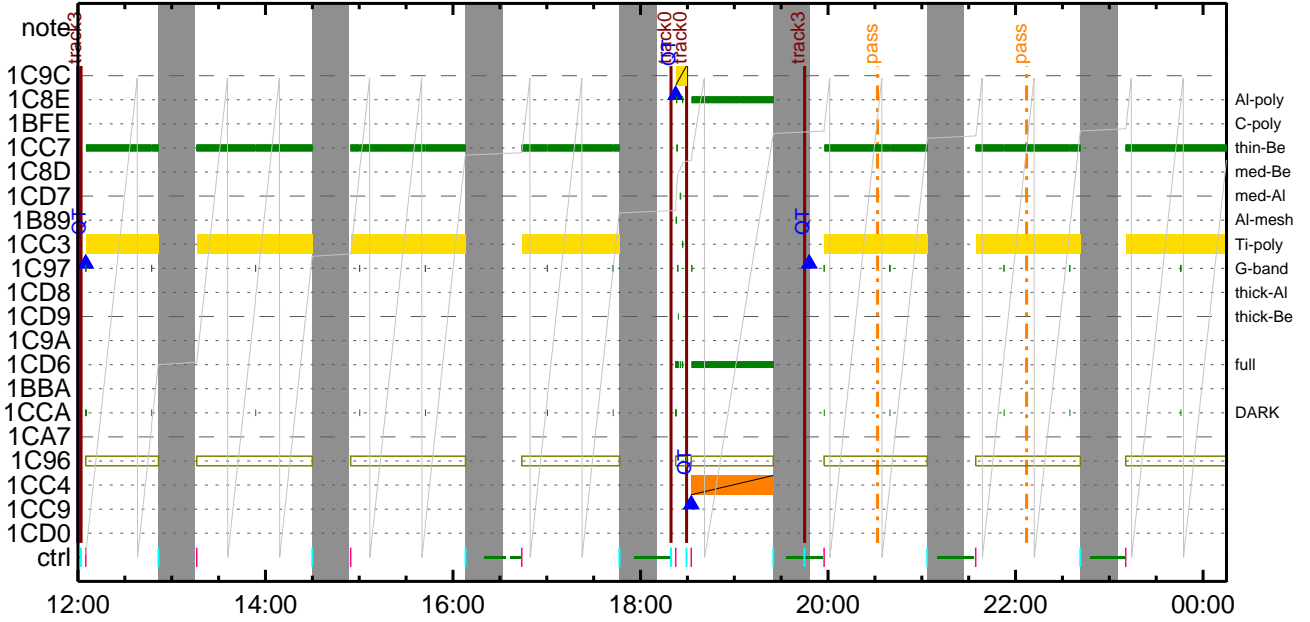
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FLD Patrol												
Term			Pointing (x, y)					Comment				
04/30 10:59:55 - 04/30 12:02:18			cannot be identified									
05/01 02:00:18 - 05/01 06:03:46			Fixed (0.0, 0.0)		HOP 349 + synoptic, shifted			3.5 min				
AI-poly/Open	AI-poly/Open	close	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	

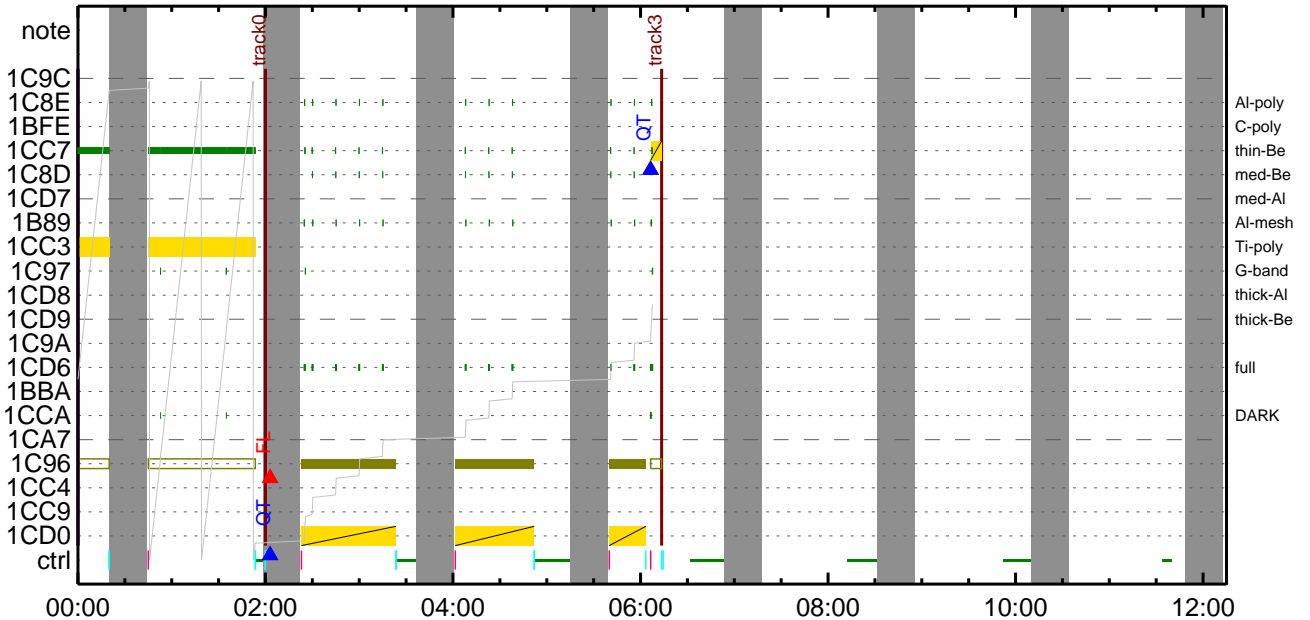
CMDI #0299 2022/04/30



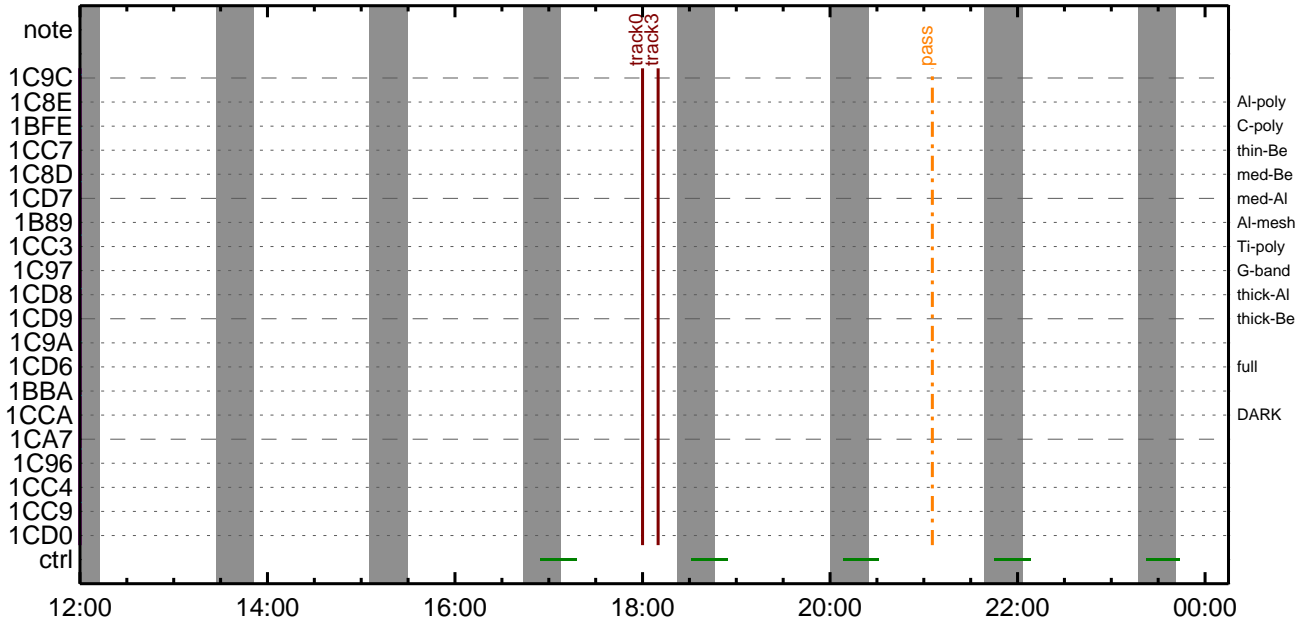
CMDI #0299 2022/04/30



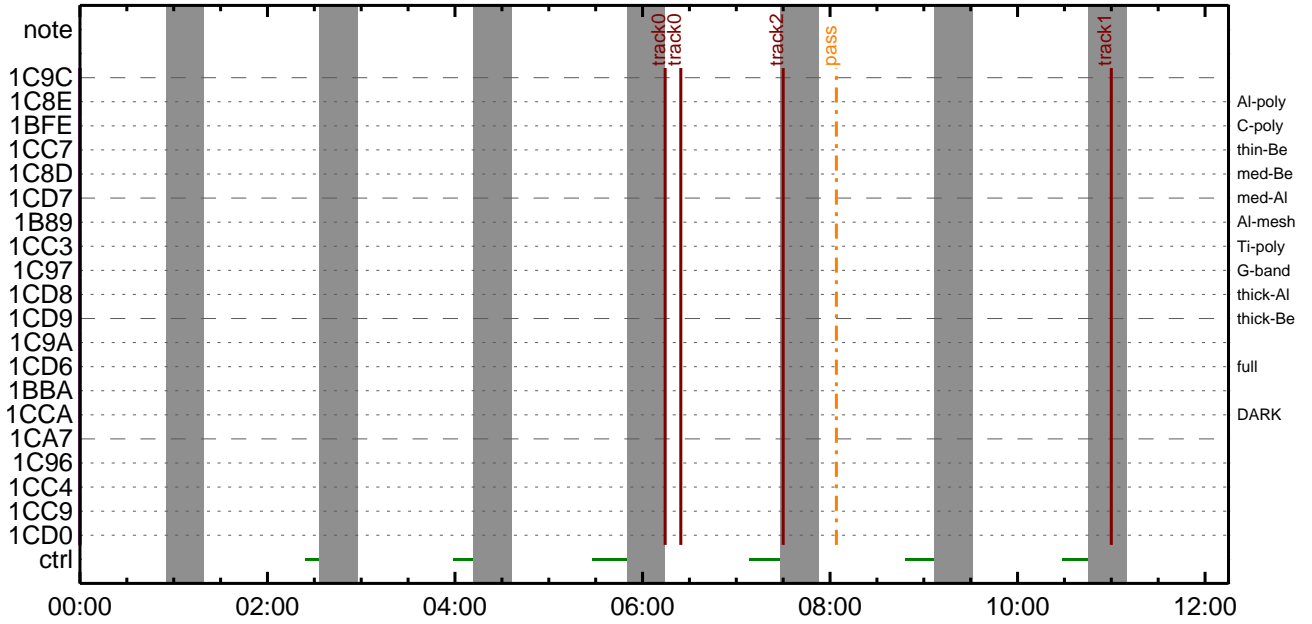
CMDI #0299 2022/05/01



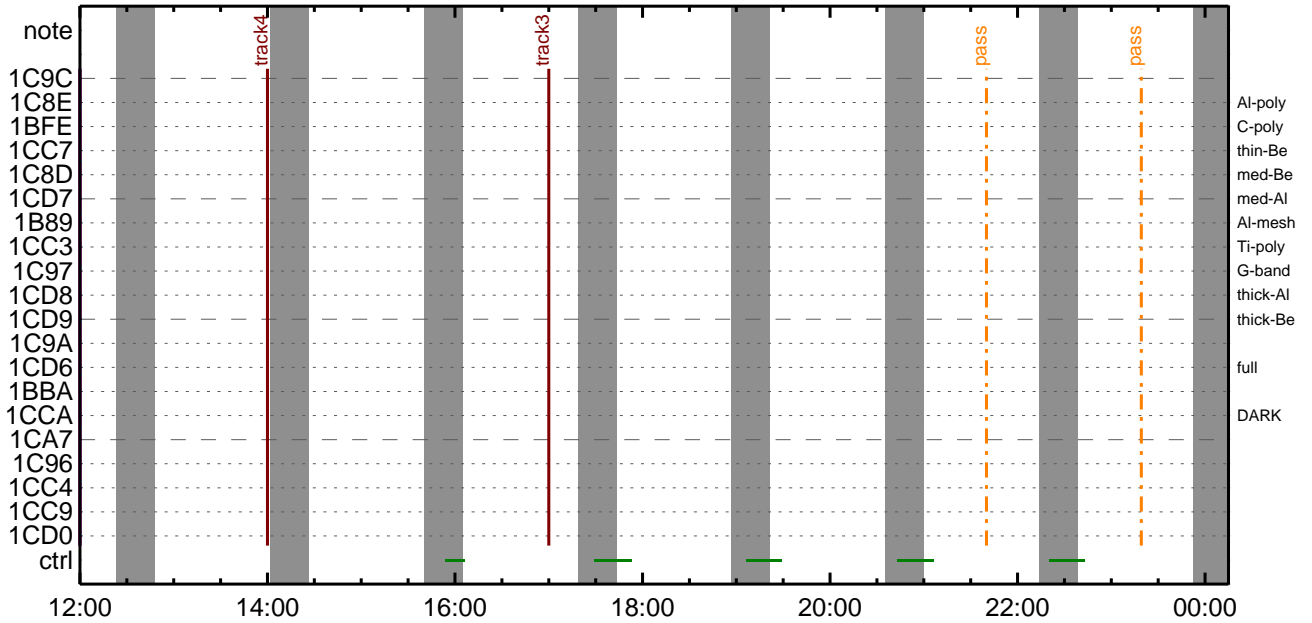
CMDI #0299 2022/05/01



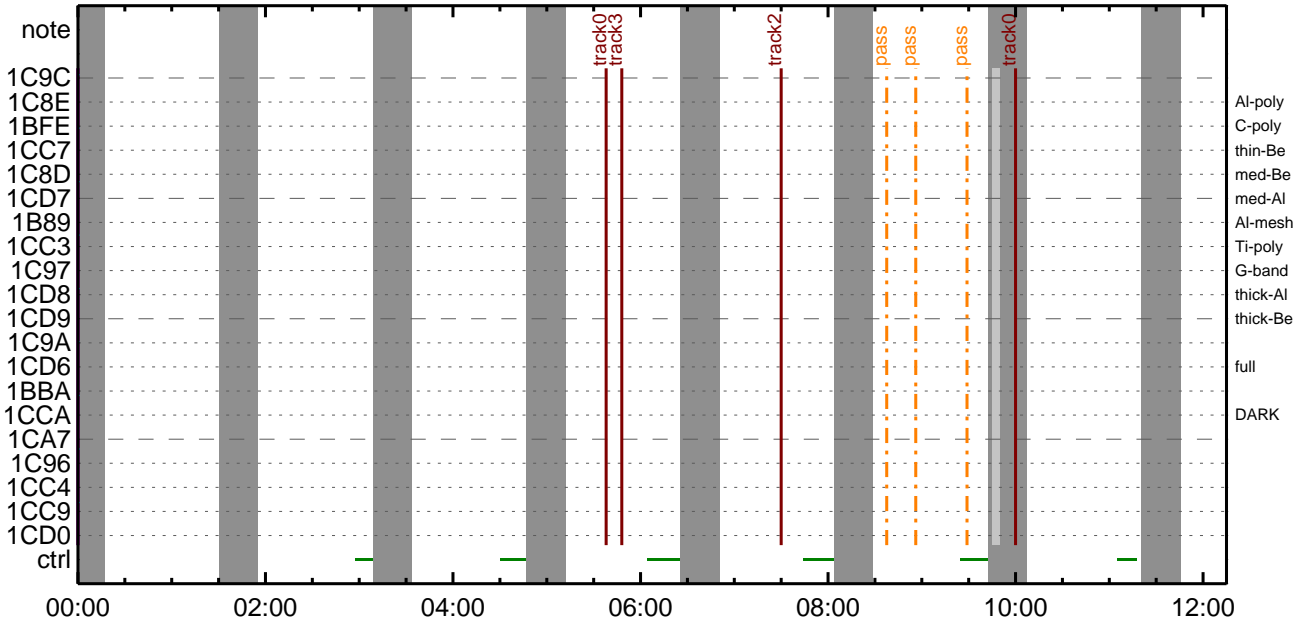
CMDI #0299 2022/05/02



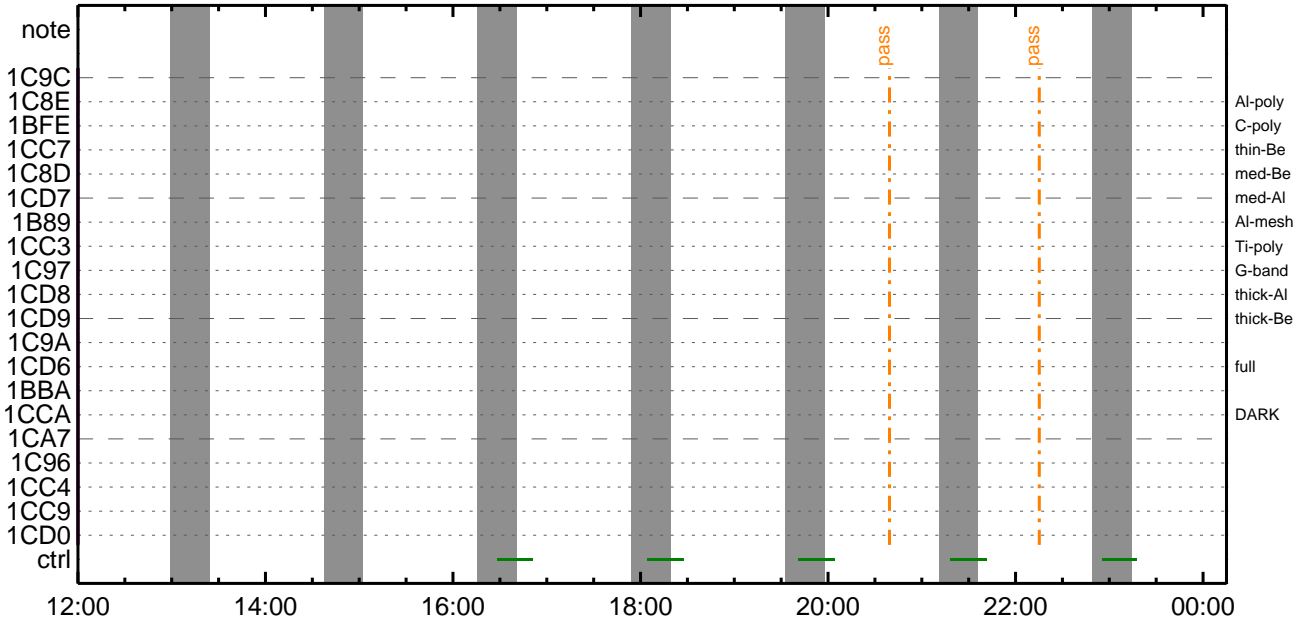
CMDI #0299 2022/05/02



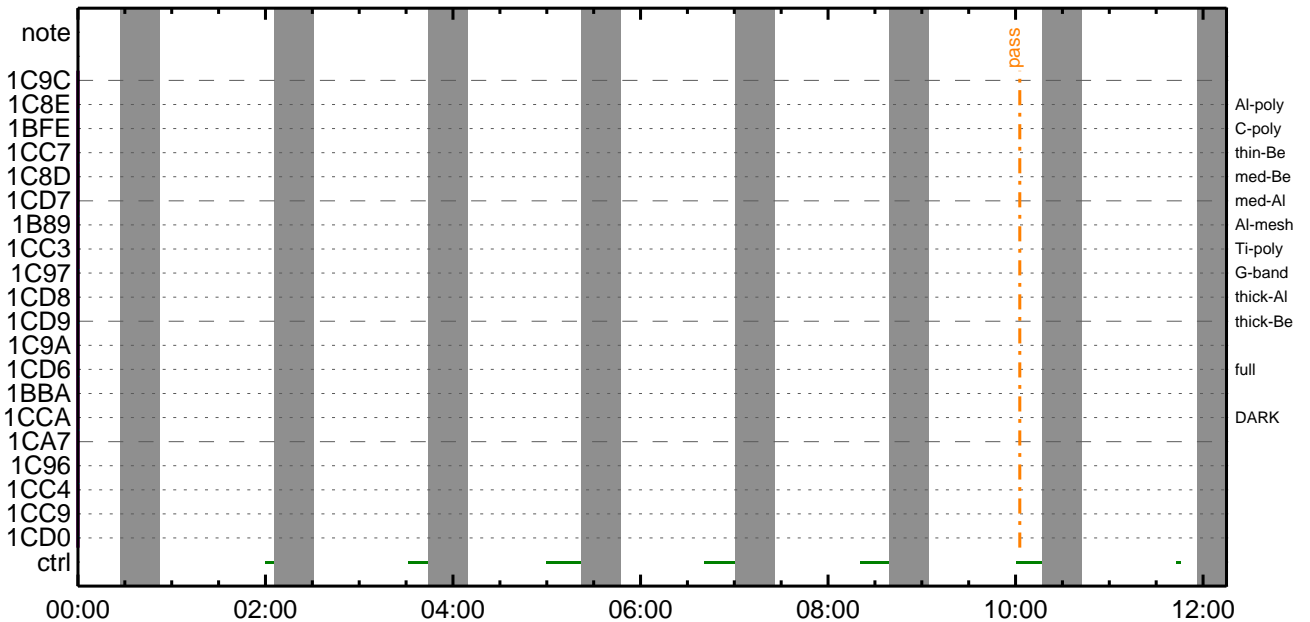
CMDI #0299 2022/05/03



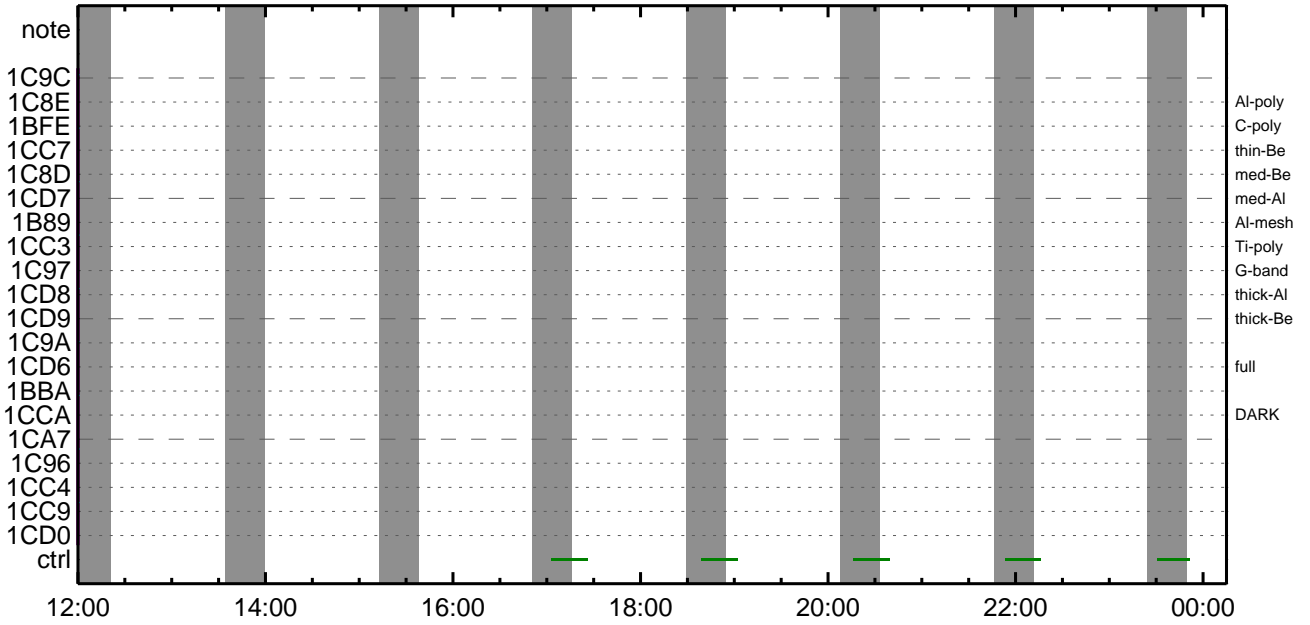
CMDI #0299 2022/05/03



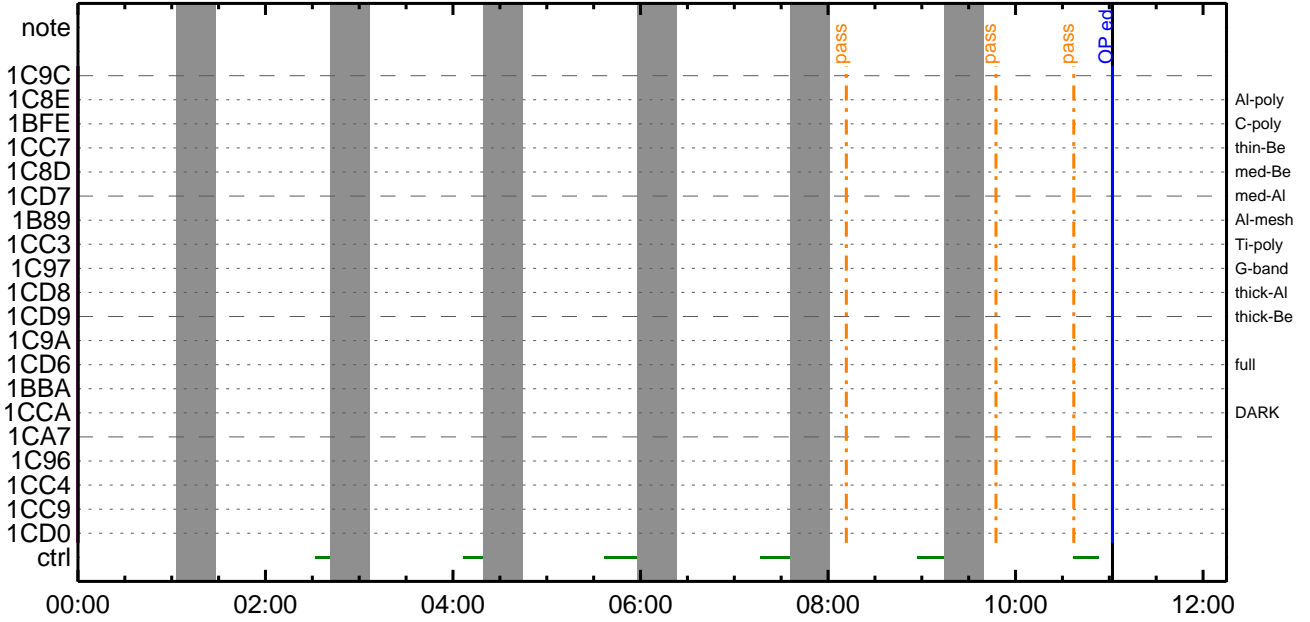
CMDI #0299 2022/05/04



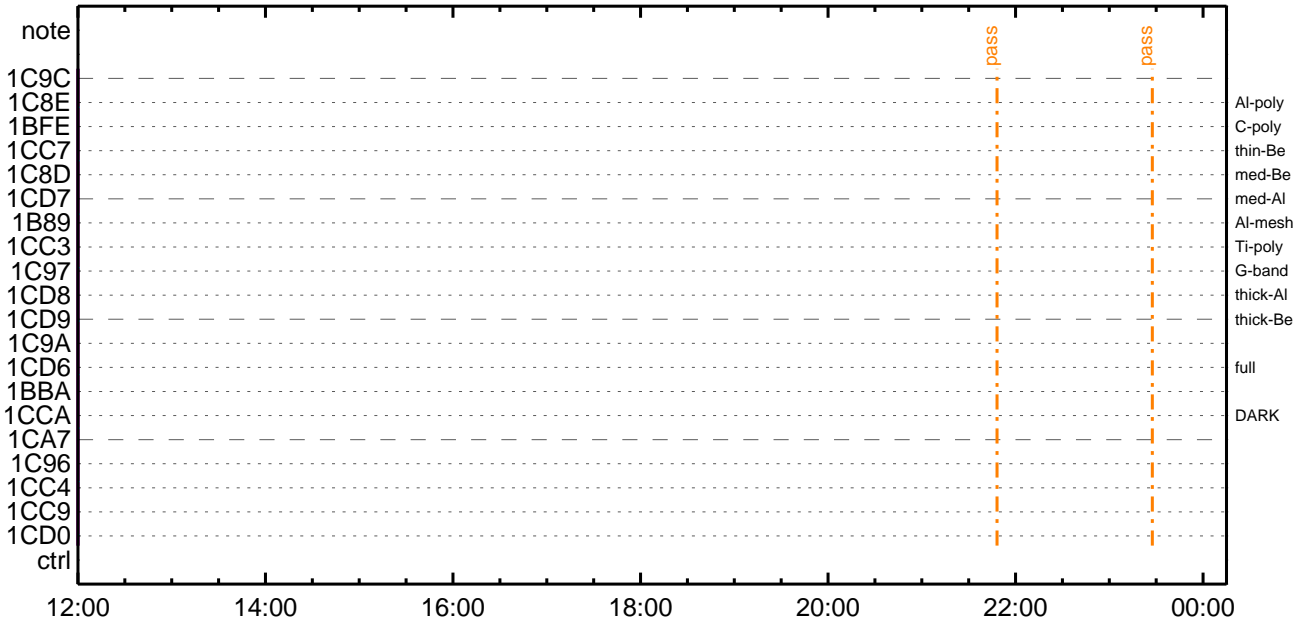
CMDI #0299 2022/05/04



CMDI #0299 2022/05/05



CMDI #0299 2022/05/05



(a) Spacecraft Operation Procedure (real-commands)

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main-145 2022-04-30 12:06:53 278 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁYŞYÄY¬¼Ä»Ü;ã
0005 C.
0006 C. YÀYŞ;¼Y³YF¶YÉÄ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOC : Reload orbital element (send every contact) *****
0010 C. Áí;Èµ¿µÄµ•µ°È»Í×ÁÇµÍYÇYÁY×YÍ;¼YÉ;ÈÈÈµ•ííÈ;ÈÈ¼°ÇÖµ•µ¿¼í¹ÇµÍ;¿Ä®;ùµ¹µÈµµ¿ÇÄ+¿®µ•µÈµµµ³µÈ;f
0011 +. DC 02-8E AOCU_ORB_UPD
0012 C.
0013 C.
0014 . C. *****
0015 C. XÁ+¿µ;ON
0016 C. *****
0017 C. ¿ °ÄÄ, Í×ÈYµÄLOSµµÇµÍ»p´Öµð¹íí, µ•; ¿ÉÖÍ×µÈXÄÖONµÍ¹ÖµÈµÍµÈµµ³µÈ;f
0018 C.
0019 +. DC 03-B4 TCIA_XPA_ON/HI
0020 M. WAIT_SEC 1
0021 +. DC 03-84 TCIA_XMOD_ON
0022 M. WAIT_SEC 1
0023 +. DC 03-95 TCIA_XMOD_QPSK
0024 C.                ¿¿[HK1_XPA_ON/OFF]                EQ      ON
0025 C.                ¿¿[HK1_XPA_PWR_HI/LO]             EQ      HI
0026 C.                ¿¿[HK1_XMOD_ON/OFF]               EQ      ON
0027 C.                ¿¿[HK1_XMOD_QPSK/PM]              EQ      QPSK
0028 C.
0029 . C. XYDYÓYÉYÍYÄY¬¼ÖÄÖµ-°ÄÄÈµ•µ¿µÉ; ¿°È²¼µÍ°ÄÄ, ¼¿¿µÇµð¼Ä¹Öµ¹µÈ;f
0030 C.
0031 . C. *****
0032 C. DR PT1 Áí¼í°ÄÄ,
0033 C. *****
0034 C. ¿" RESTART;ÈPT1;Èµ•µ¿µ¿¼í¹ÇµÍ; ¿°È²¼µÍ¼Ä¹Öµ»µ°; ¿DCBC-150µØ¿Èµà;f
0035 C.
0036 . C. ;ãPT1°ÄÄ, 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.                ¿¿[HK1_REP_PT_1/2]                EQ      PT1   (¼Ä¹Ö, ;¼Ú)
0043 C.                ¿¿[HK1_REP_STA/STP]               EQ      START (¼Ä¹Ö, ;¼Ú)
0044 C.                ¿¿[HK1_X_VC4_ON/OFF]              EQ      ON    (¼Ä¹Ö, ;¼Ú)
0045 C.
0046 . C. ;ãY¿YÓYÆYÉÄÜÄÏ;ÈÄ•Ä°²óÈð;È, áµí°ÄÄ, °È³«;ã
0047 +. DC 06-B3 DR_REP_START
0048 +. DC 01-32 DHU_X_VC4_ON
0049 C.                ¿¿[HK1_REP_PT_1/2]                EQ      PT1   (¼Ä¹Ö, ;¼Ú)
0050 C.                ¿¿[HK1_REP_STA/STP]               EQ      START (¼Ä¹Ö, ;¼Ú)
0051 C.                ¿¿[HK1_X_VC4_ON/OFF]              EQ      ON    (¼Ä¹Ö, ;¼Ú)
0052 C.
0053 C.
0054 . C. PT1°ÄÄ, µ-¼«È°ÄÄ»µµµ¿µ¿;ã; ¿°È²¼µÍ¼Ä¹Öµ¹µÈ;f
0055 C. Y¿YÓYÆYÉÄÜÄÏµÄÄ•Ä°²óÈðµ-¶áµ¿¼í¹ÇµÍ °í»µ¹µÈµµ¿ÇÄÖµÄ;f
0056 C.
0057 . C. *****
0058 C. DR PT2 Áí¼í°ÄÄ,
0059 C. *****
0060 C. ¿" RESTART;ÈPT2;Èµ•µ¿µ¿¼í¹ÇµÍ; ¿°È²¼µÍ¼Ä¹Öµ»µ°; ¿DCBC-151µØ¿Èµà;f
0061 C.
0062 . C. ;ãPT2°ÄÄ, 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.                ¿¿[HK1_REP_PT_1/2]                EQ      PT2   (¼Ä¹Ö, ;¼Ú)
0069 C.                ¿¿[HK1_REP_STA/STP]               EQ      START (¼Ä¹Ö, ;¼Ú)
0070 C.                ¿¿[HK1_X_VC4_ON/OFF]              EQ      ON    (¼Ä¹Ö, ;¼Ú)
0071 C.
0072 . C. ;ãY¿YÓYÆYÉÄÜÄÏ;ÈÄ•Ä°²óÈð;È, áµí°ÄÄ, °È³«;ã
0073 +. DC 06-B3 DR_REP_START
0074 +. DC 01-32 DHU_X_VC4_ON
0075 C.                ¿¿[HK1_REP_PT_1/2]                EQ      PT2   (¼Ä¹Ö, ;¼Ú)
0076 C.                ¿¿[HK1_REP_STA/STP]               EQ      START (¼Ä¹Ö, ;¼Ú)
0077 C.                ¿¿[HK1_X_VC4_ON/OFF]              EQ      ON    (¼Ä¹Ö, ;¼Ú)
0078 C.
0079 . C. *****
0080 C. DR°ÄÄ, ÄÄ»µµ; ¿XÁ+¿µ;OFF
0081 C. *****
0082 C.
0083 . C. ;ãDR°ÄÄ, ÄÄ»µµ;ã
0084 +. DC 06-B4 DR_REP_STOP
0085 +. DC 01-29 DHU_S/X_VC4_OFF
0086 C.                ¿¿[HK1_REP_STA/STP]               EQ      STOP
0087 C.                ¿¿[HK1_S_VC4_ON/OFF]              EQ      OFF
0088 C.                ¿¿[HK1_X_VC4_ON/OFF]              EQ      OFF
0089 C.
0090 . C. ;ãXÁ+¿µ;OFF;ã
0091 +. DC 03-85 TCIA_XMOD_OFF
0092 M. WAIT_SEC 1
0093 +. DC 03-B5 TCIA_XPA_OFF
0094 C.                ¿¿[HK1_XMOD_ON/OFF]               EQ      OFF
0095 C.                ¿¿[HK1_XPA_ON/OFF]                EQ      OFF

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0096 C.
0097 C.
0098 C. *****
0099 C. OP/OGY1;4YE;ã
0100 C. *****
0101 C.
0102 C. ;ãOP/OGY1;4YE;ã
0103 S. OP op-145:OP
0104 ( )
0105 S. OG og-145:OG
0106 ( )
0107 C.
0108 C. ;ãNMOG&OPfî°èYAYôYx;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. YAYôYx½ªî»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. YAYôYx½ªî»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. YAYôYx½ªî»ò³îÇ§
0163 C. çç[HK1_DMP_CHK_FLG] EQ NON
0164 C. RAM ID=NMOG, RAM ID=OP²î½E¹ç•è²îOKò³îÇ§
0165 C.
0166 C. ***** °E²¼òî½A´¶Á°òEÉ-ò°Á÷¿@ (½âµ-YAYôYx½ê½çòðÁÔæòÇ½ª°²òè½î¹çòçòâ) *****
0167 C. DHUYâ;½YE;E½Y½, Yî;½YE;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÷¿@NG²î½î¹ç;ç°E²¼òîTI-CMDÁ÷¿@²î½Á¹Ô²°²E²ò²³òE;f
0180 C. ²²ò¿;çSET²E²DUMP²îE±²îY½¹ç¹Ô²|²³òE;f
0181 C.
0182 C. TIY³Y½YôYÉòðÁDî¿(UT)
0183 +. TI 2022-04-30 11:47:00.0
0184 DC 01-B3 DHU_OP_STOP
0185 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0186 C.
0187 +. TI 2022-04-30 11:47:01.0
0188 DC 01-B4 DHU_OP_COPY
0189 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP
0190 C.
0191 +. TI 2022-04-30 11:47:01.0
0192 DC 01-B5 DHU_OPOG_COPY
0193 C. çç[HK1_TI_CMD_NUM] EQ 1COUNTUP

```

```

0194 C.
0195 +. TI 2022-04-30 11:51:59.5
0196 DC 01-B2 DHU_OP_START
0197 C.          çç[HK1_TI_CMD_NUM]          EQ      1COUNTUP
0198 C.
0199 C. °Ê²¼oĩÄë%ĩĩÑoîŷĂŷ§ŷĂŷ-¹âiŮ
0200 C.          çç[HK1_TI_CMD_ENA/DIS]      EQ      ENA
0201 C.          çç[HK1_TI_CMD_NUM]         EQ      4
0202 C.          çç[HK1_NEXT_EXEC_PIM]       EQ      DHU
0203 C.          çç[HK1_NEXT_EXEC_DC]       EQ      0xB3
0204 C.
0205 C. *****
0206 C. TIîî°èŷĂŷÔŷ×
0207 C. *****
0208 C.
0209 C. TI_TBL(0x03AB00-0x03AEFF;§ 1024byte)
0210 +. DC 01-23 DHU_DMA_DMP_PRM_SET
0211 BC      (03 ab 03 01 02)
0212 C.          çç[HK1_DMP_TOP_ADRS_1]     EQ      07
0213 C.          çç[HK1_DMP_TOP_ADRS_0]     EQ      2B
0214 C.          çç[HK1_DMP_BLOCK_NUM]      EQ      3
0215 C.          çç[HK1_DMP_REPEAT_NUM]     EQ      0
0216 C.          çç[HK1_DMA_DMP_PIM]       EQ      DHU
0217 +. DC 01-22 DHU_MODE_CHNG
0218 BC      (07 0b f8)
0219 C.          çç[HK1_PKT_FORM_NO]        EQ      7
0220 C.          çç[HK1_PKT_GEN_TIME]       EQ      0.25 s
0221 C.          çç[HK1_S_TLM_BIT_RATE]    EQ      32k
0222 C.          çç[HK1_X_TLM_BIT_RATE]    EQ      4M
0223 C.          çç[HK1_DMP_CHK_FLG]       EQ      EXEC
0224 C.
0225 C. ŷĂŷÔŷ×½ªî»oð³îç§
0226 C.          çç[HK1_DMP_CHK_FLG]       EQ      NON
0227 C.
0228 C. RAM ID=TI_TBLoîŷÊ¹ç•è²îOKoð³îç§
0229 C.
0230 C. DHUŷa;¼ŷÊ;Êŷ¼, ŷi;¼ŷÊ;Ëoðîão¹
0231 +. DC 01-22 DHU_MODE_CHNG
0232 BC      (02 0a f8)
0233 C.          çç[HK1_PKT_FORM_NO]        EQ      2
0234 C.          çç[HK1_PKT_GEN_TIME]       EQ      0.5S
0235 C.          çç[HK1_S_TLM_BIT_RATE]    EQ      32K
0236 C.          çç[HK1_X_TLM_BIT_RATE]    EQ      4M
0237 C.
0238 C. Stop EIS observation and temporarily disable EIS mode changes
0239 C.
0240 C.
0241 C. ***** Start EIS operation (TI set) *****
0242 C. Execute, after the success of OP upload.
0243 C. Set EIS TI-commands
0244 +. TI 2022-04-30 11:51:30.0
0245 DC 07-FC EIS_MODE_MANU
0246 BC      (21 02)
0247 +. TI 2022-04-30 11:51:40.0
0248 DC 07-FC EIS_MODE_CHG_DIS
0249 BC      (22)
0250 C.          [ ] [HK1_TI_CMD_NUM]      EQ      2 COUNTUP
0251 C. ***** End EIS operation (TI set) *****
0252 C.
0253 C.
0254 C.
0255 C. ***** XRT START *****
0256 C. Execute, after the success of OP upload.
0257 +. TI 2022-04-30 11:51:00.0
0258 DC 07-F0 MDP_XRT_MODE_STBY
0259 BC      (c3)
0260 C.          [ ] [HK1_TI_CMD_NUM]      EQ      1COUNTUP
0261 C.
0262 C. ***** XRT END *****
0263 C.
0264 C. ***** MDP `ûÃîoî»ô¼ŷoËÂðo¹oèDCBC•x²è *****
0265 C. (¼á°îŷÔŷĂŷÈŷŲŷÈŷâŷçŷèoË¼o¼¼Á»Ûo¹oè)
0266 S. DC-BC dcbc-402:DCBC
0267 (MDP_known_event)
0268 C.
0269 C.
0270 C. ***** ŷDŷ¹.İ Daily±;îÑoË´Øo¹oèDCBC•x²è *****
0271 S. DC-BC dcbc-153:DCBC
0272 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0273 C.
0274 C.
0275 C. ĩãLOSŷĂŷŷŷĂŷ-¼Á»Û;ã
0276 C.
0277 C. ***** LOS *****
0278 C.

```



```
0194 C.
0195 . C. ***** ¥D¥1•İ Daily±;İÑ¤È'Ø¤¹¤èDCBC•x²è *****
0196 . S. DC-BC dcbc-153:DCBC
0197 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0198 C.
0199 C.
0200 . C. ;ãLOS¥Á¥S¥Ã¥-¼Â»Û;ã
0201 C.
0202 . C. ***** LOS *****
0203 C.
```

(a) Spacecraft Operation Procedure (real-commands)

```
main-147 2022-04-30 12:06:53 130 33 SOLAR-B MAIN //
0001 C.
0002 . C. ***** AOS *****
0003 C.
0004 . C. ;ãAOSYÁY$YÁY-¼Á»Ü;ã
0005 C.
0006 C. YÀYB;¼Y³YFYóYÉÁ+¿®
0007 +. DC 00-00 NULL_DUMMY_CMD
0008 C.
0009 . C. ***** AOCs : Reload orbital element (send every contact) *****
0010 C. Áí;Èò¿òÀò•µ°È»Í×ÁÇòÍYçYÁY×YÍ;¼YÉ;ÈÈè%µ•ííÉ;ÈòÈ¼°ÇÓò•ò¿¼í¹çòÍ;çÀ®, ùò¹òÈòòòÇÁ+¿®ò•òÈòòò³òÈ;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 06 85 83 06 06)
0042 + DC 07-F0 MDP_XRT_ROI_SET
0043 BC (cd 07 85 83 04 04)
0044 + DC 07-F0 MDP_XRT_ROI_SET
0045 BC (cd 08 80 80 20 20)
0046 + DC 07-F0 MDP_XRT_ROI_SET
0047 BC (cd 09 80 80 20 08)
0048 + DC 07-F0 MDP_XRT_ROI_SET
0049 BC (cd 0a 80 80 08 20)
0050 + DC 07-F0 MDP_XRT_ROI_SET
0051 BC (cd 0b 80 80 08 08)
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 08)
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 2022-04-30 11:51:02.0
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. * AOCs Èü¼È/Èü+çÈ¼ÁÈòAUTOÀSÁÈ *
0085 C. *****
0086 C.
0087 . C. ***** Èü¼ÈÈü+çÈ¼ÁÈòòAUTOòÈò¹òè *****
0088 +. DC 02-50 AOCU_N/D_AUTO
0089 BC (1a)
0090 . C. çç <ORB>[S/W TIMER JDG] EQ AUTO
0091 C.
0092 C.
0093 C.
0094 C. ***** End of AOCs Special CMD *****
0095 . C.
```

```

0096 C. *****
0097 C. * AOCSEÜ;ª½ªî»»p³îç§±;îÑ *
0098 C. *****
0099 C.
0100 . C. ***** 1. Æü;ª½ªî»»p³îç§±;îÑ *****
0101 C. [ ] <ORB>[H/W TIMER] ECLIPS (HK2_SLR_ECLIPS_ST) EQ ELSE
0102 C. [ ] <--->[SW T STS] ECL (HK2_ECLIPS_STS_S/W) EQ OUT
0103 C.
0104 C.
0105 . C. ***** 2. %âµ-³îç§±;îÑ <NGªî½î¹ç>;ç²¼µ-CMDªõÃ±;ç@ª¹çè *****
0106 C.
0107 +. DC 02-D3 AOCU_SLR_ECLPS_END
0108 C.
0109 C. [ ] <ORB>[H/W TIMER] ECLIPS (HK2_SLR_ECLIPS_ST) EQ ELSE
0110 C. [ ] <--->[SW T STS] ECL (HK2_ECLIPS_STS_S/W) EQ OUT
0111 C.
0112 C.
0113 C. ***** End of AOC SPECIAL CMD *****
0114 . C.
0115 C.
0116 . C. ***** MDP `ûÃîªî»»ö¼ÝªEÃªª¹çèDCBC•x²è *****
0117 C. (%âªî½ªî»»p³îç§±;îÑ <NGªî½î¹ç>;ç²¼µ-CMDªõÃ±;ç@ª¹çè)
0118 . S. DC-BC dcbc-402:DCBC
0119 (MDP_known_event)
0120 C.
0121 C.
0122 . C. ***** ¥DÝ¹•İ Daily±;çîÑªE´çª¹çèDCBC•x²è *****
0123 . S. DC-BC dcbc-153:DCBC
0124 (SPECIAL-CMD_DAILY_OPERATIN_DCB)
0125 C.
0126 C.
0127 . C. ;ãLOS¥Ã¥§¥Ã¥¹¼Ã»Û;ä
0128 C.
0129 . C. ***** LOS *****
0130 C.

```

*** OP Sequence for XRT ***

2022/04/30	12:01:54.0	XRT_CTRL_MANU_402_OG [0x192]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2022/04/30	12:01:56.0	XRT_CTRL_MANU_402_OG [0x192]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2022/04/30	12:01:58.0	XRT_FOCUS_POSITION_410_OG [0x19a]					
		XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00		
2022/04/30	12:02:00.0	AOCS_Ore-point_Start_1_OG [0x097]					
		AOCU_NM	5	02-76	03 03 1a 02 0c		
2022/04/30	12:02:18.0	XRT_FLD_DIS_409_OG [0x199]					
		MDP_XRT_FLD_DIS	1	07-F0	d9		
2022/04/30	12:02:20.0	XRT_FLRCTRL_DIS_413_OG [0x19d]					
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2022/04/30	12:02:22.0	XRT_AEC_RESET_448_OG [0x1c0]					
		MDP_XRT_AEC_RESET	1	07-F0	d0		
2022/04/30	12:02:24.0	XRT_ARS_DIS_423_OG [0x1a7]					
		MDP_XRT_ARS_DIS	1	07-F0	d5		
2022/04/30	12:02:26.0	XRT_FLD_RESET_405_OG [0x195]					
		MDP_XRT_FLD_RESET	1	07-F0	da		
2022/04/30	12:04:58.0	XRT_QT_PROG_SET_431_OG [0x1af]					
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 0d		
2022/04/30	12:05:00.0	XRT_CTRL_AUTO_408_OG [0x198]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2022/04/30	12:51:30.0	XRT_CTRL_MANU_400_OG [0x190]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2022/04/30	12:51:32.0	XRT_CTRL_MANU_402_OG [0x192]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2022/04/30	12:51:34.0	XRT_FLD_RESET_415_OG [0x19f]					
		MDP_XRT_FLD_RESET	1	07-F0	da		
2022/04/30	12:51:36.0	XRT_PREFLR_STRT_436_OG [0x1b4]					
		MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2022/04/30	12:54:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]					
		MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2022/04/30	13:15:00.0	XRT_Custom_430_OG [0x1ae]					
2022/04/30	13:16:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2022/04/30	14:30:00.0	XRT_CTRL_MANU_400_OG [0x190]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2022/04/30	14:30:02.0	XRT_CTRL_MANU_402_OG [0x192]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2022/04/30	14:30:04.0	XRT_FLD_RESET_415_OG [0x19f]					
		MDP_XRT_FLD_RESET	1	07-F0	da		
2022/04/30	14:30:06.0	XRT_PREFLR_STRT_436_OG [0x1b4]					
		MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2022/04/30	14:33:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]					
		MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2022/04/30	14:53:30.0	XRT_Custom_430_OG [0x1ae]					
2022/04/30	14:54:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2022/04/30	16:08:00.0	XRT_CTRL_MANU_400_OG [0x190]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2022/04/30	16:08:02.0	XRT_CTRL_MANU_402_OG [0x192]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2022/04/30	16:08:04.0	XRT_FLD_RESET_415_OG [0x19f]					
		MDP_XRT_FLD_RESET	1	07-F0	da		
2022/04/30	16:08:06.0	XRT_PREFLR_STRT_436_OG [0x1b4]					
		MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2022/04/30	16:11:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]					
		MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2022/04/30	16:43:00.0	XRT_Custom_430_OG [0x1ae]					
2022/04/30	16:44:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2022/04/30	17:46:30.0	XRT_CTRL_MANU_400_OG [0x190]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2022/04/30	17:46:32.0	XRT_CTRL_MANU_402_OG [0x192]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2022/04/30	17:46:34.0	XRT_FLD_RESET_415_OG [0x19f]					
		MDP_XRT_FLD_RESET	1	07-F0	da		
2022/04/30	17:46:36.0	XRT_PREFLR_STRT_436_OG [0x1b4]					
		MDP_XRT_PREFLR_STRT	1	07-F0	e8		
2022/04/30	17:49:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]					
		MDP_XRT_PREFLR_STOP	1	07-F0	e9		
2022/04/30	18:19:24.0	XRT_CTRL_MANU_402_OG [0x192]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2022/04/30	18:19:26.0	XRT_CTRL_MANU_402_OG [0x192]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		
2022/04/30	18:19:28.0	XRT_FOCUS_POSITION_406_OG [0x196]					
		XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00		
2022/04/30	18:19:30.0	AOCS_Ore-point_Start_2_OG [0x098]					
		AOCU_NM	5	02-76	00 00 00 00 00		
2022/04/30	18:19:48.0	XRT_FLD_DIS_409_OG [0x199]					
		MDP_XRT_FLD_DIS	1	07-F0	d9		
2022/04/30	18:19:50.0	XRT_FLRCTRL_DIS_413_OG [0x19d]					
		MDP_XRT_FLRCTRL_DIS	1	07-F0	c9		
2022/04/30	18:19:52.0	XRT_ARS_DIS_442_OG [0x1ba]					
		MDP_XRT_ARS_DIS	1	07-F0	d5		
2022/04/30	18:22:28.0	XRT_QT_PROG_SET_443_OG [0x1bb]					
		MDP_XRT_QT_PROG_SET	2	07-F0	c4 14		
2022/04/30	18:22:30.0	XRT_CTRL_AUTO_408_OG [0x198]					
		MDP_XRT_CTRL_AUTO	1	07-F0	c0		
2022/04/30	18:29:24.0	XRT_CTRL_MANU_402_OG [0x192]					
		MDP_XRT_CTRL_MANU	1	07-F0	c1		

2022/04/30	18:29:26.0	XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU	1	07-F0	c1
2022/04/30	18:29:28.0	XRT_FOCUS_POSITION_406_OG [0x196] XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00
2022/04/30	18:29:30.0	AOCS_ORe-point_Start_3_OG [0x099] AOCU_NM	5	02-76	00 53 1a 00 00
2022/04/30	18:29:48.0	XRT_FLD_DIS_409_OG [0x199] MDP_XRT_FLD_DIS	1	07-F0	d9
2022/04/30	18:29:50.0	XRT_FLRCTRL_DIS_413_OG [0x19d] MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2022/04/30	18:29:52.0	XRT_AEC_RESET_448_OG [0x1c0] MDP_XRT_AEC_RESET	1	07-F0	d0
2022/04/30	18:29:54.0	XRT_ARS_DIS_404_OG [0x194] MDP_XRT_ARS_DIS	1	07-F0	d5
2022/04/30	18:32:28.0	XRT_QT_PROG_SET_432_OG [0x1b0] MDP_XRT_QT_PROG_SET	2	07-F0	c4 03
2022/04/30	18:32:30.0	XRT_CTRL_AUTO_408_OG [0x198] MDP_XRT_CTRL_AUTO	1	07-F0	c0
2022/04/30	19:25:00.0	XRT_CTRL_MANU_400_OG [0x190] MDP_XRT_CTRL_MANU	1	07-F0	c1
2022/04/30	19:25:02.0	XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU	1	07-F0	c1
2022/04/30	19:25:04.0	XRT_FLD_RESET_415_OG [0x19f] MDP_XRT_FLD_RESET	1	07-F0	da
2022/04/30	19:25:06.0	XRT_PREFLR_STRT_436_OG [0x1b4] MDP_XRT_PREFLR_STRT	1	07-F0	e8
2022/04/30	19:28:14.0	XRT_PREFLR_STOP_419_OG [0x1a3] MDP_XRT_PREFLR_STOP	1	07-F0	e9
2022/04/30	19:44:54.0	XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU	1	07-F0	c1
2022/04/30	19:44:56.0	XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU	1	07-F0	c1
2022/04/30	19:44:58.0	XRT_FOCUS_POSITION_410_OG [0x19a] XRT_FOCUS_POSITION	4	07-F8	22 fe 97 00
2022/04/30	19:45:00.0	AOCS_ORe-point_Start_1_OG [0x097] AOCU_NM	5	02-76	03 03 1a 02 0c
2022/04/30	19:45:18.0	XRT_FLD_DIS_409_OG [0x199] MDP_XRT_FLD_DIS	1	07-F0	d9
2022/04/30	19:45:20.0	XRT_FLRCTRL_DIS_413_OG [0x19d] MDP_XRT_FLRCTRL_DIS	1	07-F0	c9
2022/04/30	19:45:22.0	XRT_AEC_RESET_448_OG [0x1c0] MDP_XRT_AEC_RESET	1	07-F0	d0
2022/04/30	19:45:24.0	XRT_ARS_DIS_423_OG [0x1a7] MDP_XRT_ARS_DIS	1	07-F0	d5
2022/04/30	19:45:26.0	XRT_FLD_RESET_405_OG [0x195] MDP_XRT_FLD_RESET	1	07-F0	da
2022/04/30	19:47:58.0	XRT_QT_PROG_SET_431_OG [0x1af] MDP_XRT_QT_PROG_SET	2	07-F0	c4 0d
2022/04/30	19:56:30.0	XRT_Custom_430_OG [0x1ae]			
2022/04/30	19:57:30.0	XRT_CTRL_AUTO_424_OG [0x1a8] MDP_XRT_CTRL_AUTO	1	07-F0	c0
2022/04/30	21:03:30.0	XRT_CTRL_MANU_400_OG [0x190] MDP_XRT_CTRL_MANU	1	07-F0	c1
2022/04/30	21:03:32.0	XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU	1	07-F0	c1
2022/04/30	21:03:34.0	XRT_FLD_RESET_415_OG [0x19f] MDP_XRT_FLD_RESET	1	07-F0	da
2022/04/30	21:03:36.0	XRT_PREFLR_STRT_436_OG [0x1b4] MDP_XRT_PREFLR_STRT	1	07-F0	e8
2022/04/30	21:06:44.0	XRT_PREFLR_STOP_419_OG [0x1a3] MDP_XRT_PREFLR_STOP	1	07-F0	e9
2022/04/30	21:33:30.0	XRT_Custom_430_OG [0x1ae]			
2022/04/30	21:34:30.0	XRT_CTRL_AUTO_424_OG [0x1a8] MDP_XRT_CTRL_AUTO	1	07-F0	c0
2022/04/30	22:41:30.0	XRT_CTRL_MANU_400_OG [0x190] MDP_XRT_CTRL_MANU	1	07-F0	c1
2022/04/30	22:41:32.0	XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU	1	07-F0	c1
2022/04/30	22:41:34.0	XRT_FLD_RESET_415_OG [0x19f] MDP_XRT_FLD_RESET	1	07-F0	da
2022/04/30	22:41:36.0	XRT_PREFLR_STRT_436_OG [0x1b4] MDP_XRT_PREFLR_STRT	1	07-F0	e8
2022/04/30	22:44:44.0	XRT_PREFLR_STOP_419_OG [0x1a3] MDP_XRT_PREFLR_STOP	1	07-F0	e9
2022/04/30	23:09:30.0	XRT_Custom_430_OG [0x1ae]			
2022/04/30	23:10:30.0	XRT_CTRL_AUTO_424_OG [0x1a8] MDP_XRT_CTRL_AUTO	1	07-F0	c0
2022/05/01	00:20:00.0	XRT_CTRL_MANU_400_OG [0x190] MDP_XRT_CTRL_MANU	1	07-F0	c1
2022/05/01	00:20:02.0	XRT_CTRL_MANU_402_OG [0x192] MDP_XRT_CTRL_MANU	1	07-F0	c1
2022/05/01	00:20:04.0	XRT_FLD_RESET_415_OG [0x19f] MDP_XRT_FLD_RESET	1	07-F0	da
2022/05/01	00:20:06.0	XRT_PREFLR_STRT_436_OG [0x1b4] MDP_XRT_PREFLR_STRT	1	07-F0	e8
2022/05/01	00:23:14.0	XRT_PREFLR_STOP_419_OG [0x1a3] MDP_XRT_PREFLR_STOP	1	07-F0	e9
2022/05/01	00:44:00.0	XRT_Custom_430_OG [0x1ae]			
2022/05/01	00:45:00.0	XRT_CTRL_AUTO_424_OG [0x1a8] MDP_XRT_CTRL_AUTO	1	07-F0	c0
2022/05/01	01:53:30.0	XRT_CTRL_MANU_400_OG [0x190] MDP_XRT_CTRL_MANU	1	07-F0	c1
2022/05/01	01:53:32.0	XRT_CTRL_MANU_402_OG [0x192]			

2022/05/01	01:53:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2022/05/01	01:53:36.0	XRT_PREFLR_STRT_436_OG [0x1b4]	MDP_XRT_FLD_RESET	1	07-F0	da			
2022/05/01	01:56:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_PREFLR_STRT	1	07-F0	e8			
2022/05/01	01:59:54.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_PREFLR_STOP	1	07-F0	e9			
2022/05/01	01:59:56.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2022/05/01	01:59:58.0	XRT_FOCUS_POSITION_406_OG [0x196]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2022/05/01	02:00:00.0	AOCS_ORe-point_Start_2_OG [0x098]	XRT_FOCUS_POSITION	4	07-F8	22 ff aa 00			
2022/05/01	02:00:18.0	XRT_FLD_ENA_411_OG [0x19b]	AOCU_NM	5	02-76	00 00 00 00 00			
2022/05/01	02:00:20.0	XRT_FLRCTRL_ENA_412_OG [0x19c]	MDP_XRT_FLD_ENA	1	07-F0	d8			
2022/05/01	02:00:22.0	XRT_AEC_RESET_448_OG [0x1c0]	MDP_XRT_FLRCTRL_ENA	1	07-F0	c8			
2022/05/01	02:00:24.0	XRT_ARS_DIS_423_OG [0x1a7]	MDP_XRT_AEC_RESET	1	07-F0	d0			
2022/05/01	02:00:26.0	XRT_FLD_RESET_434_OG [0x1b2]	MDP_XRT_ARS_DIS	1	07-F0	d5			
2022/05/01	02:02:56.0	XRT_QT_PROG_SET_428_OG [0x1ac]	MDP_XRT_FLD_RESET	1	07-F0	da			
2022/05/01	02:02:58.0	XRT_FL_PROG_SET_418_OG [0x1a2]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 01			
2022/05/01	02:22:00.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_FL_PROG_SET	2	07-F0	c5 04			
2022/05/01	02:23:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	XRT_Custom_430_OG [0x1ae]						
2022/05/01	03:23:30.0	XRT_CTRL_MANU_400_OG [0x190]	XRT_CTRL_AUTO_424_OG [0x1a8]						
2022/05/01	03:23:32.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2022/05/01	03:23:34.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2022/05/01	03:23:36.0	XRT_PREFLR_STRT_436_OG [0x1b4]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2022/05/01	03:26:44.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_FLD_RESET	1	07-F0	da			
2022/05/01	04:00:30.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_PREFLR_STRT	1	07-F0	e8			
2022/05/01	04:01:30.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_PREFLR_STOP	1	07-F0	e9			
2022/05/01	04:52:00.0	XRT_CTRL_MANU_400_OG [0x190]	XRT_Custom_430_OG [0x1ae]						
2022/05/01	04:52:02.0	XRT_CTRL_MANU_402_OG [0x192]	XRT_CTRL_AUTO_424_OG [0x1a8]						
2022/05/01	04:52:04.0	XRT_FLD_RESET_415_OG [0x19f]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2022/05/01	04:52:06.0	XRT_PREFLR_STRT_436_OG [0x1b4]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2022/05/01	04:55:14.0	XRT_PREFLR_STOP_419_OG [0x1a3]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2022/05/01	05:39:00.0	XRT_Custom_430_OG [0x1ae]	MDP_XRT_FLD_RESET	1	07-F0	da			
2022/05/01	05:40:00.0	XRT_CTRL_AUTO_424_OG [0x1a8]	MDP_XRT_PREFLR_STRT	1	07-F0	e8			
2022/05/01	06:03:24.0	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_PREFLR_STOP	1	07-F0	e9			
2022/05/01	06:03:26.0	XRT_FOCUS_POSITION_406_OG [0x196]	XRT_Custom_430_OG [0x1ae]						
2022/05/01	06:03:46.0	XRT_FLD_DIS_409_OG [0x199]	XRT_CTRL_AUTO_424_OG [0x1a8]						
2022/05/01	06:03:48.0	XRT_FLRCTRL_DIS_413_OG [0x19d]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2022/05/01	06:03:50.0	XRT_ARS_DIS_440_OG [0x1b8]	MDP_XRT_FLD_DIS	1	07-F0	d9			
2022/05/01	06:06:28.0	XRT_QT_PROG_SET_433_OG [0x1b1]	MDP_XRT_FLRCTRL_DIS	1	07-F0	c9			
2022/05/01	06:06:30.0	XRT_CTRL_AUTO_408_OG [0x198]	MDP_XRT_ARS_DIS	1	07-F0	d5			
2022/05/01	06:13:30.0	AOCS_ORe-point_Start_1_OG [0x097]	MDP_XRT_QT_PROG_SET	2	07-F0	c4 11			
2022/05/01	06:13:30.5	XRT_CTRL_MANU_402_OG [0x192]	MDP_XRT_CTRL_AUTO	1	07-F0	c0			
2022/05/01	06:14:30.0	XRT_CTRL_MANU_435_OG [0x1b3]	AOCU_NM	5	02-76	03 03 1a 02 0c			
2022/05/01	06:15:00.0	XRT_TCIB_XRT_S_HTR_A_ENA_446_OG [0x1be]	MDP_XRT_CTRL_MANU	1	07-F0	c1			
2022/05/01	18:00:00.0	AOCS_ORe-point_Start_2_OG [0x098]	TCIB_XRT_S_HTR_A_ENA	0	04-BC				
2022/05/01	18:10:00.0	AOCS_ORe-point_Start_1_OG [0x097]	AOCU_NM	5	02-76	00 00 00 00 00			
2022/05/02	06:14:30.0	AOCS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	03 03 1a 02 0c			
2022/05/02	06:24:30.0	AOCS_ORe-point_Start_4_OG [0x09a]	AOCU_NM	5	02-76	00 00 00 00 00			
2022/05/02	07:30:00.0	AOCS_ORe-point_Start_5_OG [0x09b]	AOCU_NM	5	02-76	00 03 1a 02 0c			
2022/05/02	11:00:00.0	AOCS_ORe-point_Start_6_OG [0x09c]	AOCU_NM	5	02-76	02 03 1a 02 0c			
2022/05/02	14:00:00.0	AOCS_ORe-point_Start_7_OG [0x09d]	AOCU_NM	5	02-76	01 00 00 00 00			

2022/05/02	17:00:00.0	AACS_ORe-point_Start_1_OG [0x097]	AOCU_NM	5	02-76	04	00	00	00	00
2022/05/03	05:38:00.0	AACS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	03	03	1a	02	0c
2022/05/03	05:48:00.0	AACS_ORe-point_Start_1_OG [0x097]	AOCU_NM	5	02-76	00	00	00	00	00
2022/05/03	07:30:00.0	AACS_ORe-point_Start_5_OG [0x09b]	AOCU_NM	5	02-76	03	03	1a	02	0c
2022/05/03	10:00:00.0	AACS_ORe-point_Start_2_OG [0x098]	AOCU_NM	5	02-76	02	03	1a	02	0c
			AOCU_NM	5	02-76	00	00	00	00	00