

V&V Summary Report

L2 ASCDS Version : 10.9.1

Observation 62650 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Sep 30 2020

See axaff62650N001_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2020.09.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.2119004421234

Comments

HRC-I high voltage ramp-up

Procedure started with obsid 24644, which contains no events because the HRC-I high voltage was not on. During this observation, events from AR Lac were collected while the high voltage was stepped up at specific time intervals according to the details below. The gti_limits file in CALDB was modified for this processing to allow all voltages to be included in the data.

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Details of HRC-I high voltage ramp-up

01:45:00.00 SCS 89 verified as disabled and SCS 91 is inactive

01:45:00.00 SIM is verified at 3TSCPOS = -50504

01:45:00.00 FMT1 is verified

01:46:00.00 SCS 87 is disabled

01:47:00.00 dither is verified as enabled

01:47:00.00 command load 2A_IHV_DM20_135.CLD is uploaded to SCS 135

01:49:00.00 OBSID is changed to 62650

01:50:00.00 SCS 135 is enabled and activated

01:51:00.00 SCS 92 is activated. 2IMONST=ON

01:52:00.00 script 2_HV_I_UP_VERY_SLOW is started

01:52:00.00 HRC verifies bottom plate at step 19 and top plate at step

8

01:56:00.00 HRC verifies bottom plate at step 38 and top plate at step
27
01:58:00.00 HRC verifies bottom plate at step 53 and top plate at step
42 (half voltage)
02:06:00.00 SCS 135 is disabled and cleared
02:06:00.00 SCS 87 is enabled
02:07:00.00 HRC verifies bottom plate at step 61 and top plate at step
50
02:13:00.00 HRC verifies bottom plate at step 68 and top plate at step
57
02:18:00.00 HRC verifies bottom plate at step 76 and top plate at step
65 - non-zero count rates observed in detector
02:27:00.00 HRC verifies bottom plate at step 78 and top plate at step
67
02:32:00.00 HRC verifies bottom plate at step 80 and top plate at step
69
02:42:00.00 HRC verifies bottom plate at step 82 and top plate at step
71
02:50:00.00 HRC verifies bottom plate at step 84 and top plate at step
73
03:21:00.00 HRC verifies bottom plate at step 86 and top plate at step
75
03:39:00.00 HRC verifies bottom plate at step 89 and top plate at step
77
04:19:00.00 HRC verifies SCS 87 activates and sets bottom plate to step
53 and top plate to step 42

seq_num	0	Sequence number
obs_id	62650	Observation id
title	AO-21 Monitor the HRC-I PSF and spatial Variations in the HRC-I Gain - September	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.1660639614	Nominal RA [deg]
dec_nom	45.741096269313	Nominal Dec [deg]
roll_nom	223.94584607073	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7211.9004421234	[s]
livetime	7149.2667869747	Ontime multiplied by DTCOR
l2events	490699	Number of level 2 events

