

V&V Summary Report

L2 ASCDS Version : 8.1.2

Observation 1080 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Dec 16 2009

See [axaff01080N001_VV001_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.07.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.763

Comments

Target is very off-axis on S4. Subarray is used, although not documented in OCAT. Aim point is off the 1/4 subarray, but the target is on.

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The guide star in slot 3 was excluded from the aspect solution due to poor data quality. The aspect solution is not expected to be degraded by removing one guide star from the solution.

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The focal plane temperature is approximately -100 C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present.

The ACIS CTI correction has not been calibrated at this temperature, because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front and back illuminated chips are affected. However a T_GAIN correction has been applied to the BI chips (ACIS-5 and ACIS-7) data included here.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich

depend on the most accurate spectral response should not notice an effect.

seq_num	480030	Sequence number
obs_id	1080	Observation id
title	 	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	LMC X-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	84.914583	Observer's specified target RA
dec_targ	-69.743611	Observer's specified target Dec
ra_nom	84.876597613573	Nominal RA
dec_nom	-69.596019974095	Nominal Dec
roll_nom	115.97598781176	Nominal Roll
revision	4	Processing version of data
ontime	762.3000010252	Sum of GTIs [s]
livetime	734.88221370655	Livetime [s]
ontime4	762.3000010252	Sum of GTIs [s]
ontime5	762.3000010252	Sum of GTIs [s]
ontime6	762.3000010252	Sum of GTIs [s]
ontime7	762.3000010252	Sum of GTIs [s]
ontime8	762.3000010252	Sum of GTIs [s]
ontime9	762.3000010252	Sum of GTIs [s]
l2events	33270	Number of level 2 events

