

V&V Summary Report

L2 ASCDS Version : 8.1.2

Observation 1077 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Dec 16 2009

See [axaff01077N001_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	1.973

Comments

Target is very off-axis on S2. Subarray was used but not documented in OCAT.

Aim point is off the 1/4 subarray, but target is on.

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Slot 7 was not utilized in this observation.

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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 spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an

seq_num	480027	Sequence number
obs_id	1077	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	85.234476747209	Nominal RA
dec_nom	-69.850950660279	Nominal Dec
roll_nom	116.32821590028	Nominal Roll
revision	3	Processing version of data
ontime	1972.2716888115	Sum of GTIs [s]
livetime	1901.3346225309	Livetime [s]
ontime4	1972.3000026643	Sum of GTIs [s]
ontime5	1972.3000026643	Sum of GTIs [s]
ontime6	1972.2716888115	Sum of GTIs [s]
ontime7	1972.3000026643	Sum of GTIs [s]
ontime8	1972.3000026643	Sum of GTIs [s]
ontime9	1972.3000026643	Sum of GTIs [s]
l2events	93068	Number of level 2 events

