

# V&V Summary Report

## L2 ASCDS Version : 8.1.1

Observation 1423 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Nov 21 2009

See axaff01423N001\_VV001\_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.08.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.164

## Comments

ACIS response to line source on S3.

===

Enhanced count rate 3-5 ksec and 10-11.5 ksec into the observation due to a slightly high radiation environment.

===

The focal plane temperature is approximately -110 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 effect.

The focal plane temperature is approximately -110 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 effect.

seq_num	580373	Sequence number
obs_id	1423	Observation id
title	ACIS CHIP RESPONSE TO LINES WITH E=0.6-1.5 KEV	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72.3 [Chip S3, T=110, Offsets=-1,0,0]	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA
dec_targ	-72.032028	Observer's specified target Dec
ra_nom	16.072644146451	Nominal RA
dec_nom	-72.041225889704	Nominal Dec
roll_nom	340.49490099979	Nominal Roll
revision	4	Processing version of data
ontime	19161.559057631	Sum of GTIs [s]
livetime	18918.923859137	Livetime [s]
ontime5	19161.559057631	Sum of GTIs [s]
ontime6	19158.318097413	Sum of GTIs [s]
ontime7	19161.559057631	Sum of GTIs [s]
ontime8	19161.559057631	Sum of GTIs [s]
ontime9	19161.559057631	Sum of GTIs [s]
l2events	434797	Number of level 2 events

