

# V&V Summary Report

## L2 ASCDS Version : 8.1.2

Observation 159 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 16 2009

See [axaff00159N001\\_VV001\\_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.02.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.027

## Comments

ACIS chip response to a continuum source. Standard candle observation.  
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The guide star in slot 7 was never acquired for this observation. The aspect solution is not expected to be degraded by the loss of one guide star.===

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	590027	Sequence number
obs_id	159	Observation id
title	ACIS CHIP RESPONSE TO A CONTINUUM SOURCE	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	G21.5-0.9 [Chip S3, T=100, Offsets=0,0,0 Std Cand]	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	278.389583	Observer's specified target RA
dec_targ	-10.568528	Observer's specified target Dec
ra_nom	278.38680336177	Nominal RA
dec_nom	-10.573076999136	Nominal Dec
roll_nom	263.60423527361	Nominal Roll
revision	3	Processing version of data
ontime	15036.297354698	Sum of GTIs [s]
livetime	14845.898703822	Livetime [s]
ontime2	15036.215274699	Sum of GTIs [s]
ontime3	15036.174234696	Sum of GTIs [s]
ontime5	15036.256314695	Sum of GTIs [s]
ontime6	15036.092154697	Sum of GTIs [s]
ontime7	15036.297354698	Sum of GTIs [s]
ontime8	15029.651274264	Sum of GTIs [s]
l2events	340095	Number of level 2 events

