

# V&V Summary Report

## L2 ASCDS Version : 8.1.2

Observation 215 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Dec 16 2009

See [axaff00215N001\\_VV001\\_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.04.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.313

## Comments

Off-axis ACIS effective area measurement using Cas A on chip S4. Only chip S4 contains data.

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The guide star in slot 7 was removed 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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Charge time for this ObsId remains at previous value of 2.313 ksec, although with the current processing the charge time would have been 2.303 ksec.

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Pileup throughout most of 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

(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	590083	Sequence number
obs_id	215	Observation id
title	ACIS CHIP RESPONSE TO CAS A, JAN. 99	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	CAS A [Chip S4, T=100, Offsets=-10.0,0 Eff Area]	Source name
dtycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	350.8575	Observer's specified target RA
dec_targ	58.814833	Observer's specified target Dec
ra_nom	350.53455004406	Nominal RA
dec_nom	58.881316942048	Nominal Dec
roll_nom	159.2884756642	Nominal Roll
revision	4	Processing version of data
ontime	2303.5192858651	Sum of GTIs [s]
livetime	2274.3507376547	Livetime [s]
ontime4	2848.0000026524	Sum of GTIs [s]
ontime5	2848.0000026524	Sum of GTIs [s]
ontime6	2848.0000026524	Sum of GTIs [s]
ontime7	2848.0000026524	Sum of GTIs [s]
ontime8	2303.5192858651	Sum of GTIs [s]
ontime9	2848.0000026524	Sum of GTIs [s]
l2events	482432	Number of level 2 events

