

# V&V Summary Report

## L2 ASCDS Version : 8.1.2

Observation 217 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Dec 17 2009

See [axaff00217N001\\_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	1.377

## Comments

Off-axis ACIS effective area measurement using Cas A on chip I3. Only chip I3 contains data.

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Charge time for this ObsId remains at original value of 1.377 ksec, although with the current processing the charge time would have been 1.371 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 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

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	590085	Sequence number
obs_id	217	Observation id
title	ACIS CHIP RESPONSE TO CAS A, JAN. 99	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	CAS A [Chip I3, T=100, Offsets=-4,2,0]	Source name
dtcycle	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	350.74609600331	Nominal RA
dec_nom	58.876539927662	Nominal Dec
roll_nom	164.65734468225	Nominal Roll
revision	2	Processing version of data
ontime	1370.946896255	Sum of GTIs [s]
livetime	1353.5871411695	Livetime [s]
ontime0	1755.5294996947	Sum of GTIs [s]
ontime1	1755.4884596989	Sum of GTIs [s]
ontime2	1755.4474196956	Sum of GTIs [s]
ontime3	1370.946896255	Sum of GTIs [s]
ontime6	1755.3653396964	Sum of GTIs [s]
ontime7	1755.570539698	Sum of GTIs [s]
l2events	309427	Number of level 2 events

