

# V&V Summary Report

## L2 ASCDS Version : 8.1.2

Observation 220 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Dec 16 2009

See axaff00220N001\_VV002\_vvref2.pdf for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2010.10.01
V&V Edition	2
V&V Disposition and Status	OK
V&V Charge Time	1.212

## Comments

Off-axis ACIS effective area measurement using Cas A on chip S3. Only events from chip S3 were telemetered.

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The guide star in slot 3 was manually excluded from the processing due to poor data quality.

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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 depend on the most accurate spectral response (ie: fitting line-rich

depend on the most accurate spectral response should not notice an effect.

seq_num	590088	Sequence number
obs_id	220	Observation id
title	ACIS CHIP RESPONSE TO CAS A, JAN. 99	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	CAS A [Chip S3, T=100, Offsets=-2,-1,0 Std Candle]	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	350.77296770436	Nominal RA
dec_nom	58.806528333456	Nominal Dec
roll_nom	160.29557831869	Nominal Roll
revision	4	Processing version of data
ontime	1210.8146270737	Sum of GTIs [s]
livetime	1195.4825632007	Livetime [s]
ontime4	1458.3912144005	Sum of GTIs [s]
ontime5	2028.8000018895	Sum of GTIs [s]
ontime6	1742.5364735052	Sum of GTIs [s]
ontime7	1210.8146270737	Sum of GTIs [s]
ontime8	1746.8368524536	Sum of GTIs [s]
ontime9	1750.0780922771	Sum of GTIs [s]
l2events	378348	Number of level 2 events

