

# V&V Summary Report

## L2 ASCDS Version : 8.1.1

Observation 1440 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Nov 24 2009

See axaff01440N001\_VV001\_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.03.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.659

## Comments

ACIS response to Cas A on chip S3. Only S3 chip was read out.

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Pileup throughout most of observation.

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Charge time for this ObsId remains at previous value of 0.659 ksec, although with the current processing the charge time would have been 0.657 ksec.

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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

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

seq_num	580390	Sequence number
obs_id	1440	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=110, Offsets=-3,0,0]	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	350.830522701	Nominal RA
dec_nom	58.753193217368	Nominal Dec
roll_nom	259.25409690113	Nominal Roll
revision	4	Processing version of data
ontime	657.92747090012	Sum of GTIs [s]
livetime	649.59639710722	Livetime [s]
ontime4	858.86656548828	Sum of GTIs [s]
ontime5	1036.4349635243	Sum of GTIs [s]
ontime6	1023.3070225194	Sum of GTIs [s]
ontime7	657.92747090012	Sum of GTIs [s]
ontime8	997.46145071089	Sum of GTIs [s]
ontime9	974.73370916396	Sum of GTIs [s]
l2events	206697	Number of level 2 events

