

# V&V Summary Report

## L2 ASCDS Version : 8.1.1

Observation 1436 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Nov 24 2009

See [axaff01436N001\\_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	2.06

## Comments

ACIS response to Cas A on chip S1. Only S1 chip was read out.

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Pileup present through most of observation.

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Charge time for this ObsId remains at previous value of 2.06 ksec, although with the current processing the charge time would have been 2.04 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	580386	Sequence number
obs_id	1436	Observation id
title	ACIS CHIP RESPONSE TO CAS A, JAN. 99	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	CAS A [Chip S1, T=110, Offsets=15,0,0]	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	350.94673654683	Nominal RA
dec_nom	59.055924513177	Nominal Dec
roll_nom	258.85578813449	Nominal Roll
revision	4	Processing version of data
ontime	2049.2845650241	Sum of GTIs [s]
livetime	2023.3352899307	Livetime [s]
ontime4	2266.3869120032	Sum of GTIs [s]
ontime5	2049.2845650241	Sum of GTIs [s]
ontime6	2751.608465679	Sum of GTIs [s]
ontime7	2849.8417410254	Sum of GTIs [s]
ontime8	2710.3575712144	Sum of GTIs [s]
ontime9	2703.8346007615	Sum of GTIs [s]
l2events	488912	Number of level 2 events

