

# V&V Summary Report

## L2 ASCDS Version : 8.5.1.1

Observation 5252 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Mar 25 2013

See axaff05252N003\_VV001\_vvref2.pdf for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.03.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.548

## Comments

Window constraint met. On day 356 at about 00:30, the OBA heater stuck in the 'on' position. This situation affected obsid 4901 and all subsequent observations to this point. The result of this anomaly could be a displacement of the target on the chip in the z direction. The displacement will be small because everything is still within spec, but the target may be spatially displaced, have a different point spread function, or trail across the chip. =====

A spatial region of the original bias map for CCD = 9 suffered from anomalously high data values. Pixels in the event data that were bias-corrected by one of the original affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small (~20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD = 9 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation. The pixels affected by the anomaly are bounded by sky coords:  
(15.99214,-71.81913), (15.98590,-71.81374), (15.78207,-71.83660), (15.82249,-71.83818)

seq_num	590368	Sequence number
obs_id	5252	Observation id
title	AO5A ACIS-S Calibration Observations of E0102-72	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	E0102-72[S3,-120,-1,0,0]	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	16.100761234682	Nominal RA [deg]
dec_nom	-72.11483179998	Nominal Dec [deg]
roll_nom	289.95199497923	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7548.5750182569	Sum of GTIs [s]
livetime	7452.9904161695	Livetime [s]
ontime4	7548.6160582602	Sum of GTIs [s]
ontime5	7548.5339782536	Sum of GTIs [s]
ontime6	7548.4929382503	Sum of GTIs [s]
ontime7	7548.5750182569	Sum of GTIs [s]
ontime8	7545.2109279633	Sum of GTIs [s]
ontime9	7548.4108582735	Sum of GTIs [s]
l2events	114692	Number of level 2 events

