

# V&V Summary Report

## L2 ASCDS Version : 10.5.2

Observation 19509 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Dec 20 2016

See axaff19509N002\_VV001\_vvref2.pdf for the full report

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.12.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.068047569513

## Comments

A spatial region of the original bias map for CCD = 3 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 ( $\sim 20$  eV), it depends on many parameters that have not yet been fully explored for this anomaly. The bias map for CCD = 3 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: (60.93839,2.62885), (60.93672,2.62669), (61.04719,2.54142), (61.04886,2.54357).

seq_num	703357	Sequence number
obs_id	19509	Observation id
title	Extreme rotation measures and high-redshift clusters	Proposal titl
observer	Mark Birkinshaw	Principal investigator
object	J0404+0241	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	61.162917	Observer's specified target RA [deg]
dec_targ	2.695056	Observer's specified target Dec [deg]
ra_nom	61.170228801698	Nominal RA [deg]
dec_nom	2.695763672729	Nominal Dec [deg]
roll_nom	322.28424997757	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20068.047569513	Sum of GTIs [s]
livetime	19805.843754136	Livetime [s]
ontime3	20067.965489507	Sum of GTIs [s]
ontime6	20064.865439296	Sum of GTIs [s]
ontime7	20068.047569513	Sum of GTIs [s]
ontime8	20067.9244449563	Sum of GTIs [s]
l2events	120315	Number of level 2 events

