

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 4416 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Nov 9 2012

See axaff04416N002_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.01.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	49.203

Comments

Zeroth order piled up. Standard data processing software did not correctly locate the zeroth order due to pileup. Manual intervention was used to input the correct sky coordinates (x=4054.41, y=3947.8) into the *src1a.fits file table. These corrected coordinates were determined using a software tool developed by CXC called tg_findzo, available in CIAO. The tool calculates the point of intersection of the readout streak and the leg arm. The zeroth order source position determined by the standard pipeline processing using the tool tgdetect was not used in this processing. The newly determined zeroth order coordinates have been placed in the *src1a.fits file, replacing the coordinates determined by tgdetect. Note that these corrected coordinates of the zeroth order cannot be reproduced by running tgdetect on the data.

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Gain and CTI correction are not well calibrated on CCD_ID 5 (ACIS-S1). Default order sorting can clip some regions, particularly longward of 30A (first order). User-specified custom processing parameters may be required in tg_resolve_events (osipfile=none, osort_lo, osort_hi ~0.5) though this can allow more zeroth order background at short wavelengths.

seq_num	790086	Sequence number
obs_id	4416	Observation id
title	AO4 CALIBRATION OBSERVATIONS OF PKS2155-304	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	PKS2155-304	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	329.716667	Observer's specified target RA [deg]
dec_targ	-30.225556	Observer's specified target Dec [deg]
ra_nom	329.71030359712	Nominal RA [deg]
dec_nom	-30.205242136016	Nominal Dec [deg]
roll_nom	280.75361277612	Nominal Roll [deg]
revision	3	Processing version of data
ontime	49202.999162078	Sum of GTIs [s]
livetime	46478.057073106	Livetime [s]
ontime4	49202.999162078	Sum of GTIs [s]
ontime5	49202.999162078	Sum of GTIs [s]
ontime6	49202.999162078	Sum of GTIs [s]
ontime7	49202.999162078	Sum of GTIs [s]
ontime8	49202.999162078	Sum of GTIs [s]
ontime9	49202.999162078	Sum of GTIs [s]
l2events	330702	Number of level 2 events

