

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 10664 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Jun 18 2012

See [axaff10664N002_VV001_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.064799658239

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 ($x=3992.27$, $y=4213.5$) into the *src1a.fits file table. These corrected coordinates were determined using a software tool developed by CXC called findzero, which is expected to be released in CIAO (currently in ISIS). The tool calculates the point of intersection of the readout streak and the meg arm (preferred position), or the readout streak and the heg 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	790201	Sequence number
obs_id	10664	Observation id
title	AO-10 Calibration Observations of PKS2155-304	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	Mkn421	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	166.113333	Observer's specified target RA [deg]
dec_targ	38.208806	Observer's specified target Dec [deg]
ra_nom	166.09575337815	Nominal RA [deg]
dec_nom	38.192923071329	Nominal Dec [deg]
roll_nom	56.10266633516	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20064.729827702	Sum of GTIs [s]
livetime	18953.512468141	Livetime [s]
ontime4	20064.770867705	Sum of GTIs [s]
ontime5	20064.688787699	Sum of GTIs [s]
ontime6	20063.906707644	Sum of GTIs [s]
ontime7	20064.729827702	Sum of GTIs [s]
ontime8	20064.606707692	Sum of GTIs [s]
ontime9	20064.565667689	Sum of GTIs [s]
l2events	693962	Number of level 2 events

