

# V&V Summary Report

## L2 ASCDS Version : 8.4.5

Observation 3171 - L2 Version 6  
Chandra X-Ray Center

L2 Processing Date : Feb 9 2013

See [axaff03171N004\\_VV001\\_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.02.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.156

## Comments

Non-standard grating/detector combination required custom parameters. Used flat order-sorting in `tg_resolve_events`, since there is no 'osip' table for ACIS-I. `=== pset grt_lev15 osipfile=none=== pset grt_lev15 osort_lo=0.3=== pset grt_lev15 osort_hi=0.3===` 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=4143.3, y=4305.813`) into the `*src1a.fits` file table. These corrected coordinates were determined by eye because neither the pipeline tool `tgdetect` nor the `findzero` tool was successful in identifying the piled up zeroth order so close to a chip boundary. The determination of the position by eye is expected to be in error by up to 1-2 pixels. 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.  
`===`

The fid light in slot 2 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this fid light from the solution.

seq_num	790065	Sequence number
obs_id	3171	Observation id
title	AO3 LETG/ACIS-I CALIBRATION OBSERVATIONS OF PKS2155-304	Proposal t
observer	Dr. CXC Calibration	Principal investigator
object	PKS2155-304	Source name
dtcycle	0	&#160
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	329.72437132739	Nominal RA [deg]
dec_nom	-30.254162437591	Nominal Dec [deg]
roll_nom	286.91085332954	Nominal Roll [deg]
revision	6	Processing version of data
ontime	8156.8000075817	Sum of GTIs [s]
livetime	8053.5136944504	Livetime [s]
ontime0	8156.8000075817	Sum of GTIs [s]
ontime1	8156.8000075817	Sum of GTIs [s]
ontime2	8156.8000075817	Sum of GTIs [s]
ontime3	8156.8000075817	Sum of GTIs [s]
ontime6	8156.8000075817	Sum of GTIs [s]
ontime7	8156.8000075817	Sum of GTIs [s]
l2events	85538	Number of level 2 events

