

V&V Summary Report

L2 ASCDS Version : 8.5.1.1

Observation 6090 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Dec 28 2012

See axaff06090N003_VV001_vvref2.pdf for the full report

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| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2013.01.24 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 29.14029 |

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=4151.5, y=4239.73) 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.

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|----------|---|---|
| seq_num | 790099 | Sequence number |
| obs_id | 6090 | Observation id |
| title | AO6 Calibration Observations of PKS2155-304 | Proposal title |
| observer | Dr. CXC Calibration | Principal investigator |
| object | PKS2155-304 | Source name |
| dtycycle | 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 | 329.72564224755 | Nominal RA [deg] |
| dec_nom | -30.245118182659 | Nominal Dec [deg] |
| roll_nom | 107.21589646784 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 29140.299503744 | Sum of GTIs [s] |
| livetime | 27526.462340252 | Livetime [s] |
| ontime4 | 29140.299503744 | Sum of GTIs [s] |
| ontime5 | 29140.299503744 | Sum of GTIs [s] |
| ontime6 | 29140.299503744 | Sum of GTIs [s] |
| ontime7 | 29140.299503744 | Sum of GTIs [s] |
| ontime8 | 29140.299503744 | Sum of GTIs [s] |
| ontime9 | 29140.299503744 | Sum of GTIs [s] |
| l2events | 211926 | Number of level 2 events |

