V&V Summary Report L2 ASCDS Version: 8.4.5

Observation 1703 - L2 Version 4 Chandra X-Ray Center

L2 Processing Date: Aug 28 2012

See axaff01703N002_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.08.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.185

Comments

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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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=4119.5, y=3876.42) 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 as tg_findzo (currently in ISIS as findzo). The tool calculates the point of intersection of the readout streak and the meg 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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Charge time for this ObsId remains at previous value of 26.185 ks, although with the current processing the charge time would be 26.218 ks

seq_num	700261	Sequence number
obs_id	1703	Observation id
title	HETG OBSERVATIONS OF VARIOUS ACTIVE GALACTIC NUCLEI	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	PKS 2155-304	Source name
dtycycle	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	329.72061404899	Nominal RA [deg]
dec_nom	-30.195499003067	Nominal Dec [deg]
roll_nom	97.770585593685	Nominal Roll [deg]
revision	4	Processing version of data
ontime	26218.499857932	Sum of GTIs [s]
livetime	25275.494148957	Livetime [s]
ontime4	26218.499857932	Sum of GTIs [s]
ontime5	26218.499857932	Sum of GTIs [s]
ontime6	26218.499857932	Sum of GTIs [s]
ontime7	26218.499857932	Sum of GTIs [s]
ontime8	26218.499857932	Sum of GTIs [s]
ontime9	26218.499857932	Sum of GTIs [s]
12events	237411	Number of level 2 events

