

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 11606 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Jun 18 2012

See [axaff11606N003_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	5.2443999106288

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=4006.01, y=4221.89) into the *srcla.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 *srcla.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	702192	Sequence number
obs_id	11606	Observation id
title	A Joint Chandra, Fermi, MAGIC, and VERITAS Broadband Study of One High-Energy Blazar in A Major Outburst	Proposal title
observer	Prof Alexander Konopelko	Principal investigator
object	Mrk 421	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	166.11375	Observer's specified target RA [deg]
dec_targ	38.208806	Observer's specified target Dec [deg]
ra_nom	166.09814284789	Nominal RA [deg]
dec_nom	38.191756149844	Nominal Dec [deg]
roll_nom	61.480263771044	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5244.3999106288	Sum of GTIs [s]
livetime	4953.9565171113	Livetime [s]
ontime4	5244.3999106288	Sum of GTIs [s]
ontime5	5244.3999106288	Sum of GTIs [s]
ontime6	5244.3999106288	Sum of GTIs [s]
ontime7	5244.3999106288	Sum of GTIs [s]
ontime8	5244.3999106288	Sum of GTIs [s]
ontime9	5244.3999106288	Sum of GTIs [s]
l2events	191079	Number of level 2 events

