

# V&V Summary Report

## L2 ASCDS Version : 8.4.5

Observation 11607 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Jun 18 2012

See axaff11607N003\_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	5.1379999124408

## 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=4010.13, y=4225.07) 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. == Both zeroth order and portion of spectral arms piled up.

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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	702193	Sequence number
obs_id	11607	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	&#160
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	166.09885521444	Nominal RA [deg]
dec_nom	38.191333147035	Nominal Dec [deg]
roll_nom	63.238119862379	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5137.9999124408	Sum of GTIs [s]
livetime	4853.4491238105	Livetime [s]
ontime4	5137.9999124408	Sum of GTIs [s]
ontime5	5137.9980399013	Sum of GTIs [s]
ontime6	5137.956999898	Sum of GTIs [s]
ontime7	5137.9999124408	Sum of GTIs [s]
ontime8	5137.9159598947	Sum of GTIs [s]
ontime9	5137.8749198914	Sum of GTIs [s]
l2events	184392	Number of level 2 events

