

# V&V Summary Report

## L2 ASCDS Version : 8.4.3.1

Observation 13105 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Mar 21 2012

See axaff13105N003\_VV001\_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.03.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.999333827913

## Comments

The MEG spectrum appears faintly in the Level 1 Bad Events image, and so may have significant pileup. 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=4111.51, y=4106.76) 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.

seq_num	790235	Sequence number
obs_id	13105	Observation id
title	AO-12 Calibration Observations of Mkn421	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	MKN421	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	166.113333	Observer's specified target RA [deg]
dec_targ	38.208806	Observer's specified target Dec [deg]
ra_nom	166.11649691114	Nominal RA [deg]
dec_nom	38.207376022633	Nominal Dec [deg]
roll_nom	267.28893851409	Nominal Roll [deg]
revision	3	Processing version of data
ontime	14999.333826184	Sum of GTIs [s]
livetime	14757.081575048	Livetime [s]
ontime4	14999.374866188	Sum of GTIs [s]
ontime5	14999.292786181	Sum of GTIs [s]
ontime6	14999.251746178	Sum of GTIs [s]
ontime7	14999.333826184	Sum of GTIs [s]
ontime8	14999.210706174	Sum of GTIs [s]
ontime9	14996.628646016	Sum of GTIs [s]
l2events	280078	Number of level 2 events

