

V&V Summary Report

L2 ASCDS Version : 10

Observation 15478 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Dec 3 2014

See [axaff15478N003_VV001_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.11.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.064352868557

Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.

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Zeroth order piled up. The zeroth order sky position was determined using a software tool developed by CXC called findzero, which is available in CIAO as part of the tgdetect2 tool. The tool calculates the point of intersection of the readout streak on the ACIS CCD and the meg dispersed spectral arm, rather than using a centroid position of the source. The findzero results are more accurate than source centroid in this case.

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Faint grating spectra can be seen in an image of bad events. This is probably due to pileup in the spectrum, causing migration to bad grades. This should be considered in analysis.

seq_num	790254	Sequence number
obs_id	15478	Observation id
title	AO-14 Calibration Observations of Mkn421	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	MKN421	Source name
dtcycle	0	
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	166.11909055497	Nominal RA [deg]
dec_nom	38.229355069705	Nominal Dec [deg]
roll_nom	264.79577170591	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10064.352868557	Sum of GTIs [s]
livetime	9506.9726438382	Livetime [s]
ontime4	10064.39390856	Sum of GTIs [s]
ontime5	10064.311828554	Sum of GTIs [s]
ontime6	10064.27078855	Sum of GTIs [s]
ontime7	10064.352868557	Sum of GTIs [s]
ontime8	10064.229748547	Sum of GTIs [s]
ontime9	10064.188708544	Sum of GTIs [s]
l2events	317855	Number of level 2 events

