V&V Summary Report L2 ASCDS Version: 8.4.3

Observation 13261 - L2 Version 3 Chandra X-Ray Center

L2 Processing Date: Feb 9 2012

See axaff13261N003_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.02.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.4475

Comments

Roll constraint met.

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The guide star in slot 3 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.

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WARNING: there are no standard ciao tools for analysis of grating spectra from extended sources. The shape of an emission 'line' will be the shape of the zero order spatial structure convolved with the instrumental LSF. Grating extractions can be used, but need to be combined with custom spatial-spectral analysis, since wavelength is multi-valued at any particular diffraction angle.

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The data for this observation have been processed using the 'EDSER' sub-pixel event-repositioning algorithm of Li et al. (2004, ApJ, 610, 1204). Small-scale features should become sharper for sources near the aim point. The improvement will be less noticeable for off-axis sources where the size of the point-spread function is comparable to or larger than the size of an ACIS pixel. To take full advantage of the improvement, images should be binned on spatial scales smaller than the size of an ACIS pixel. Note that, at present, the point-spread function

has not been calibrated for data to which the EDSER algorithm has been applied. If dither was disabled for the observation, then the algorithm can introduce artificial aliasing effects on spatial scales smaller than a pixel. If you would prefer to use no sub-pixel adjustment or to apply a coordinate randomization, then use acis_process_events to reprocess the data with the parameter pix_adj=NONE or RANDOMIZE, respectively.

seq_num	702507	Sequence number
obs_id	13261	Observation id
title	THE FIRST SPATIALLY RESOLVED SPECTRUM OF AN AGN OUTFLOW IN AN EARLY-TYPE GALAXY: A DEEP HETG OBSERVATION OF MRK 3	Proposal title
observer	Dr Daniel Evans	Principal investigator
object	Markarian 3	Source name
dtycycle	0	% #160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	93.90125	Observer's specified target RA [deg]
dec_targ	71.0375	Observer's specified target Dec [deg]
ra_nom	93.91433249868	Nominal RA [deg]
dec_nom	71.035193991149	Nominal Dec [deg]
roll_nom	299.84424307864	Nominal Roll [deg]
revision	3	Processing version of data
ontime	22447.5	Sum of GTIs [s]
livetime	22084.953404905	Livetime [s]
ontime4	22447.5	Sum of GTIs [s]
ontime5	22447.5	Sum of GTIs [s]
ontime6	22447.5	Sum of GTIs [s]
ontime7	22447.5	Sum of GTIs [s]
ontime8	22447.5	Sum of GTIs [s]
ontime9	22447.5	Sum of GTIs [s]
12events	182250	Number of level 2 events

