

V&V Summary Report

L2 ASCDS Version : 8.4.3

Observation 12472 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Feb 1 2012

See axaff12472N002_VV001_vvref2.pdf for the full report

V&V Scientist	John Houck
V&V Date (YYYY-MM-DD)	2012.02.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24

Comments

Comments for Obi 0

Fid in slot 0 radial offset > 0.400000 arcsec

Phase constraint met. Due to saturation ONTIME is significantly shorter time than the elapsed time; this is expected for very bright sources.

The actual elapsed time on source was 24 ksec, consistent with the proposed observation length.

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	401213	Sequence number
obs_id	12472	Observation id
title	Filling the gap in understanding the wind structure of HDE 226868 / Cyg X-1	Proposal title
observer	Manfred Hanke	Principal investigator
object	Cyg X-1	Source name
ra_targ	299.590417	Observer's specified target RA [deg]
dec_targ	35.201611	Observer's specified target Dec [deg]
ra_nom	299.59606692199	Nominal RA [deg]
dec_nom	35.203132201739	Nominal Dec [deg]
roll_nom	346.66185758502	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3319.1482067108	Sum of GTIs [s]
livetime	3306.1827840284	Livetime [s]
ontime4	7263.336720109	Sum of GTIs [s]
ontime5	11449.685310006	Sum of GTIs [s]
ontime6	5223.3373606801	Sum of GTIs [s]
ontime7	3319.1482067108	Sum of GTIs [s]
ontime8	5525.4517768025	Sum of GTIs [s]
ontime9	7396.1275841594	Sum of GTIs [s]
l2events	3616314	Number of level 2 events

