

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 3381 - L2 Version 5
Chandra X-Ray Center

L2 Processing Date : Oct 31 2012

See axaff03381N004_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.11.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	171.073

Comments

An area of artifact emission is present on the plus side of the dispersed spectrum at about 112 A. This artifact emission has 2 apparent diffuse streaks of emission in the cross-dispersion direction, one of which is bisected by a narrow gap in the emission. The source of this artifact emission is believed to be a 5th mag B8 IV star, V686 CrA, within a few arcmin of the

emission streaks. This star is just to the left of the array near the streaks. It is likely the the events from V686 CrA were reflected off of the High Energy Suppression Filter (HESF) mirror flats, which can reflect an off-axis zeroth order across the array. Since there are two HESF flats at different angles, that could also make a doubled reflection.

Also, the far-off-axis PSF of V686 CA is not point-like and would have structure, so even a single source off a single flat might have some structure different from a line.

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It is also possible that the artifact emission streaks are the result of ghost images split due to reflections off of 2 mirror components.

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The fid light in slot 2 was removed from the aspect solution due to poor

data quality. The aspect solution is not expected to be degraded by removing one fid light from the solution.

seq_num	500285	Sequence number
obs_id	3381	Observation id
title	ARCHIVAL RESEARCH FOR ISOLATED NEUTRON STAR RXJ185635-3754	Proposa
observer	Dr. Harvey Tananbaum	Principal investigator
object	RXJ1856.5-3754	Source name
ra_targ	284.147083	Observer's specified target RA [deg]
dec_targ	-37.909556	Observer's specified target Dec [deg]
ra_nom	284.14728199499	Nominal RA [deg]
dec_nom	-37.914285138187	Nominal Dec [deg]
roll_nom	273.77860623654	Nominal Roll [deg]
revision	5	Processing version of data
ontime	171134.26302917	[s]
livetime	169308.33985733	Ontime multiplied by DTCOR
l2events	9972590	Number of level 2 events

