

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 1005 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Sep 21 2012

See axaff01005N003_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.476

Comments

Source is placed about 12 arcmin off-axis toward the corner of the detector. The point spread function is significantly extended by this off-axis position. The zeroth order position found by the software is not at the precise center of the PSF, but is within about 1 arcsec. The off-axis position yields a minus side spectrum with energies beyond 100 A. The plus side spectrum is truncated.

===

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. WARNING: The user will need to deconvolve the PSF of the off-axis source to get an accurate determination of the zeroth order position, then use software tools such as CIAO to specify the coordinates of the zeroth order before running the tools to resolve the dispersed events. The spectral data supplied in this processing are only energy-calibrated for the zeroth order position found by tgdetect, which is not necessarily correct.

seq_num	290086	Sequence number
obs_id	1005	Observation id
title	LETG/HRC-I CALIBRATION OBSERVATIONS OF HZ43	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	HZ43	Source name
ra_targ	199.092083	Observer's specified target RA [deg]
dec_targ	29.099	Observer's specified target Dec [deg]
ra_nom	199.05469225012	Nominal RA [deg]
dec_nom	28.93163882555	Nominal Dec [deg]
roll_nom	259.41824750742	Nominal Roll [deg]
revision	4	Processing version of data
ontime	15482.881857947	[s]
livetime	15399.200049473	Ontime multiplied by DTCOR
l2events	453021	Number of level 2 events

