V&V Summary Report
L2 ASCDS Version : 7.6.9

Observation 1004 - L2 Version 5
Chandra X-Ray Center

L2 Processing Date : Nov 21 2007

See axaff01004N002_VV002_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2007.12.03
V&V Edition	2
V&V Disposition and Status	OK
V&V Charge Time	15.185

Comments

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Source is quite far off-acis, and the PSF is asymmetric and contains
the pattern of the struts. The zeroth order is not found at the precise
center of the PSF, but is within about 1 arcsec. The off-acis position
yields a plus side spectrum with energies beyond 100 A. The minus side
spectrum is truncated.
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The point spread function is signficantly extended by this off-axis
position. Off-axis source gratings observation: 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.
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The current observation has been reprocessed as part of Repro III ('C' supplement)
the purpose of which is to update all HRC-I ObsIDs since Jan 2000 to the
latest calibrations available for that configuration. Specifically, we are updating the DEGAP solution and the Gain Maps applied. For more information see the Repro IIIC web page
at

http://asc.harvard.edu/cda/repro3.html#IIIc

and the associated links.

seq_num	290085
obs_id	1004
title	LETG/HRC-I CALIBRATION OBSERVATIONS OF HZ43
observer	Dr. CXC Calibration
object	HZ43
ra_targ	199.092083
dec_targ	29.099
ra_nom	199.03951652491
dec_nom	28.942945199095
roll_nom	72.918734147438
revision	5
ontime	15189.731833056
livetime	15115.63661944
l2events	408272