

V&V Summary Report

L2 ASCDS Version : 10.3.3

Observation 17630 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Feb 22 2015

See axaff17630N001_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.02.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.457600215435

Comments

Window constraint met. Simultaneous with HST.

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Zeroth order is extended and piled up. The zeroth order sky position was determined using a software tool developed by CXC called findzero, which is available in CIAO as part of the tgdetect2 tool. The tool calculates the point of intersection of the readout streak on the ACIS CCD and the meg dispersed spectral arm, rather than using a centroid position of the source. The findzero results are more accurate than source centroid in this case.

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WARNING: Zeroth order selected by findzero software is near the center of the extended region. The zeroth order used for extracting the spectral data in this processing is not located at the position of the brightest X-ray emission. The user will need to select a region or source of interest, then use software tools such as CIAO to specify the coordinates of the zeroth order source of interest before running the tools to resolve the dispersed events. The spectral data supplied in this processing are only energy-calibrated for the particular zeroth order positio selected.

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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.

seq_num	401688	Sequence number
obs_id	17630	Observation id
title	Simultaneous UV and X-ray spectroscopy with HST and Chandra: observing wind accretion onto a NS	Proposal title
observer	Dr. Lidia Oskinova	Principal investigator
object	4U1700-37	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	255.986667	Observer's specified target RA [deg]
dec_targ	-37.844139	Observer's specified target Dec [deg]
ra_nom	255.98247880082	Nominal RA [deg]
dec_nom	-37.839830711878	Nominal Dec [deg]
roll_nom	88.5373523624	Nominal Roll [deg]
revision	1	Processing version of data
ontime	14457.600215435	Sum of GTIs [s]
livetime	14274.529376185	Livetime [s]
ontime4	14457.600215435	Sum of GTIs [s]
ontime5	14457.600215435	Sum of GTIs [s]
ontime6	14457.57674551	Sum of GTIs [s]
ontime7	14457.600215435	Sum of GTIs [s]
ontime8	14457.535705447	Sum of GTIs [s]
ontime9	14457.494665504	Sum of GTIs [s]
l2events	241199	Number of level 2 events

