

# V&V Summary Report

## L2 ASCDS Version : 8.4.5

Observation 1022 - L2 Version 5  
Chandra X-Ray Center

L2 Processing Date : Sep 25 2012

See axaff01022N003\_VV001\_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.09.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.888

## Comments

Standard data processing software did not correctly locate the zeroth order because a spatial exclusion window was used to block the zeroth order image. Manual intervention was used to input the correct sky coordinates (x=4086.41, y=4127.29) into the \*src1a.fits file table. These corrected coordinates were determined using a software tool developed by CXC called findzero, which is expected to be released in CIAO (currently in ISIS). The tool calculates the point of intersection of the readout streak and the meg arm. The zeroth order source position determined by the standard pipeline processing using the tool tgdetect was not used in this processing. The newly determined zeroth order coordinates have been placed in the \*src1a.fits file, replacing the coordinates determined by tgdetect. Note that these corrected coordinates of the zeroth order cannot be reproduced by running tgdetect on the data.

===

The high count rate resulted in telemetry saturation and a large number of dropped exposures. The number of dropped exposures varied between the CCD chips.

This variation is reflected in the ONTIME for each chip.

The charge time is based on CCD\_ID=5 (S1), which had no dropped frames and does reflect the requested exposure. Other chips have effective

exposures ranging from 6.7-10.888ks.

seq_num	400100	Sequence number
obs_id	1022	Observation id
title	ACCRETION DISK LINES AND CONTINUUM IN 4U 1820-30	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	NGC6624	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	275.91875	Observer's specified target RA [deg]
dec_targ	-30.361111	Observer's specified target Dec [deg]
ra_nom	275.91718841916	Nominal RA [deg]
dec_nom	-30.365316224011	Nominal Dec [deg]
roll_nom	274.41501376697	Nominal Roll [deg]
revision	5	Processing version of data
ontime	10888.199981987	Sum of GTIs [s]
livetime	10645.482970265	Livetime [s]
ontime4	9262.596590966	Sum of GTIs [s]
ontime5	10888.199981987	Sum of GTIs [s]
ontime6	6713.8960778266	Sum of GTIs [s]
ontime7	10888.199981987	Sum of GTIs [s]
ontime8	8649.5454682708	Sum of GTIs [s]
ontime9	10731.714541972	Sum of GTIs [s]
l2events	1519509	Number of level 2 events

