

# V&V Summary Report

## L2 ASCDS Version : 8.3.3.1

Observation 1451 - L2 Version 6  
Chandra X-Ray Center

L2 Processing Date : Dec 14 2010

See axaff01451N003\_VV001\_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	43.296

## Comments

Source is slightly extended and asymmetric. The zeroth order is somewhat piled up. Standard software processing technique using the tool `tgdetect` did not give an accurate position for the zeroth order. Manual intervention was used to input the correct sky coordinates ( $x=4064.32$ ,  $y=4115.18$ ) into the `*srcla.fits` file table. These corrected coordinates were determined using a software tool developed by CXC called `findzero`. The tool calculates the point of intersection of the readout streak and the meg arm (preferred), or the readout streak and the heg arm. Note that these corrected coordinates of the zeroth order cannot be reproduced by running `tgdetect` on the data.

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Telemetry lost during first 1.3 ksec of this observation. This processing eliminated the first 2 ksec of data in order to obtain an accurate aspect solution. === Charge time for this ObsId remains at original value of 43.296 ks, although with the current processing the charge time would have been 43.632 ksec. === Roll constraint met. === The focal plane temperature is approximately -110 C during this

observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present. The ACIS CTI correction has not been calibrated at this temperature, because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front and back illuminated chips are affected. However a T\_GAIN correction has been applied to the BI chips (ACIS-5 and ACIS-7) data included here. The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.

seq_num	200010	Sequence number
obs_id	1451	Observation id
title	STELLAR CORONAL SPECTROSCOPY OF COOL STARS	Proposal title
observer	Prof. Claude Canizares	Principal investigator
object	II PEG (HD 224085)	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	358.766667	Observer's specified target RA
dec_targ	28.633611	Observer's specified target Dec
ra_nom	358.76178031917	Nominal RA
dec_nom	28.631045263466	Nominal Dec
roll_nom	233.66715574011	Nominal Roll
revision	6	Processing version of data
ontime	45632.000042498	Sum of GTIs [s]
liveltime	45054.180181668	Livetime [s]
ontime5	45628.759112209	Sum of GTIs [s]
ontime6	45625.518082142	Sum of GTIs [s]
ontime7	45632.000042498	Sum of GTIs [s]
ontime8	45625.518122077	Sum of GTIs [s]
ontime9	45628.759052351	Sum of GTIs [s]
l2events	585744	Number of level 2 events

