

# V&V Summary Report

## L2 ASCDS Version : 7.6.8.1

Observation 2742 - L2 Version 002  
Chandra X-Ray Center

L2 Processing Date : Oct 11 2006

See axaff02742N002\_VV001\_vvref2.pdf for the full report

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2006.11.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.752

## Comments

Charge time: used highest chip. Time varies with chip due to saturation, since the source is very bright.

Spectral extraction - The zero order manually determined centroid from streak-heg intersection gives  $(x_0, y_0) = (4168.17, 4089.73)$ . Since the zero order is saturated and there is a pileup hole in the image, `tgdetect` found some centroid about 10 pixels away. Data were processed with the manually determined position.

The spectrum is clearly visible in an image of bad events. This is likely due to pileup which causes grade migration into bad event grades.

seq_num	400222
obs_id	2742
title	PHASE RESOLVED HIGH ENERGY RESOLUTION SPECTROSCOPY OF THE BLACK HOLE X-RAY BAINARY CYGNUS X-1
observer	Prof. Shuang Nan Zhang
object	CYG X-1
dtcycle	0
cycle	P
ra_targ	299.590417
dec_targ	35.201611
ra_nom	299.60231796869
dec_nom	35.202531006003
roll_nom	15.235563222379
revision	3
ontime	1917.4713388681
livetime	1872.2724785621
ontime4	4751.8349295259
ontime5	4133.7813647091
ontime6	1464.3773468286
ontime7	1917.4713388681
ontime8	1873.5621470809
ontime9	4142.4842922091
l2events	1690939

