

# V&V Summary Report

## L2 ASCDS Version : 8.4.3.1

Observation 13626 - L2 Version 7  
Chandra X-Ray Center

L2 Processing Date : Aug 13 2012

See axaff13626N007\_VV001\_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.08.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.82

## Comments

This observation was taken while the spacecraft traversed the Draconid meteor shower. During that time the spacecraft was oriented in the anti-radiant direction of the meteor shower to minimize the potential of damage to the spacecraft. beta Pic was a good target in this direction. On 2 occasions during this observation the spacecraft went into maneuver mode (but did not change its overall pointing direction) to reorient the solar panels for a safe passage through the peak of the meteor shower. Therefore there are 3 separate aspect intervals for this observation. The time periods of these 2 brief maneuver mode events are not included in the GTI. The 3 separate aspect intervals have been used to create an acceptable aspect solution that has been reviewed and approved by the Aspect Team. There are no problems with this obsid that would affect the analysis. There is a large RMS values across all guide star slots due to a bad point at the beginning of the third aspect interval. When plotting the third interval, instead of discarding a centroid with a time before the aspect solution begins, the V&V plotting algorithm seems to be interpolating quaternions across the aspect interval gap. This is a bug and has been reported for investigation to ascds\_help. ==== The aspect is acceptable and the plots show large RMS values due to a software problem.

seq_num	200780	Sequence number
obs_id	13626	Observation id
title	X-ray emission from beta Pic	Proposal title
observer	Dr. Hans Guenther	Principal investigator
object	beta Pic	Source name
ra_targ	86.82125	Observer's specified target RA [deg]
dec_targ	-51.0665	Observer's specified target Dec [deg]
ra_nom	86.82423536136	Nominal RA [deg]
dec_nom	-51.065621812967	Nominal Dec [deg]
roll_nom	73.007170192349	Nominal Roll [deg]
revision	7	Processing version of data
ontime	18821.118702948	[s]
livetime	18650.622103994	Ontime multiplied by DTCOR
l2events	1211451	Number of level 2 events

