

# V&V Summary Report

## L2 ASCDS Version : 10.1.1

Observation 16503 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 7 2014

See axaff16503N003\_VV001\_vvref2.pdf for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.8432001317739

## Comments

Charge time for this ObsId remains at previous value of 8.8432 ks although with the current processing the charge time would have been 9.086 ksec.

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Window constraint met.

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This is a moving target. Users will need to run sso\_freeze or similar software to position the events in the reference frame of the target.

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The presence of the optically bright Venus on the aspect camera CCD significantly degraded the star tracking and fiducial light registration capabilities of the system. As only one fiducial light was successfully tracked, the aspect solution may have an uncompensated offset in roll. As a reduced number of stars were available for tracking, the image reconstruction is degraded and the astrometric accuracy may be reduced.

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These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.

seq_num	100092	Sequence number
obs_id	16503	Observation id
title	Venus at Solar Maximum	Proposal title
observer	Dr. Peter Predehl	Principal investigator
object	Venus	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	273.45104	Observer's specified target RA [deg]
dec_targ	-27.19193	Observer's specified target Dec [deg]
ra_nom	273.45779702998	Nominal RA [deg]
dec_nom	-27.220754566216	Nominal Dec [deg]
roll_nom	268.06207319981	Nominal Roll [deg]
revision	3	Processing version of data
ontime	9086.4001353979	Sum of GTIs [s]
livetime	8859.1626143401	Livetime [s]
ontime1	9084.7591551542	Sum of GTIs [s]
ontime3	9086.4001353979	Sum of GTIs [s]
l2events	6135	Number of level 2 events

