

# V&V Summary Report

## L2 ASCDS Version : 10.0.1

Observation 16475 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Dec 6 2014

See [axaff16475N002\\_VV001\\_vvref2.pdf](#) for the full report

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.411062828064

## Comments

This observation was interrupted by safing of the science instruments due to high solar radiation environment. The observation was interrupted at 275:02:04 GMT.

The high count rate resulted in telemetry saturation and a large number of dropped exposures. The ONTIME value reflects the lost exposure time.

The high count rate also lead to biases that were corrupted for a number of pixels. As a result of this corruption, the Level 1 event file exhibits a number of pixels that appear to be hot. The large number of events for these pixels is due to abnormally low estimates of the biases. These pixels were identified as bad by `acis_build_badpix`. The events on them were flagged as being on bad pixels and excluded from the Level 2 event file. These bad pixels do not overlap the bright spot in the vicinity of the source.

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	501948	Sequence number
obs_id	16475	Observation id
title	HESS J1809-193 and PSR J1809-1917: TeV - X-ray Connection	Proposal
observer	Dr. George Pavlov	Principal investigator
object	HESS J1809-193	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	272.434167	Observer's specified target RA [deg]
dec_targ	-19.335444	Observer's specified target Dec [deg]
ra_nom	272.43152261632	Nominal RA [deg]
dec_nom	-19.304842161245	Nominal Dec [deg]
roll_nom	271.60780292423	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2411.062828064	Sum of GTIs [s]
liveltime	2379.5605172167	Livetime [s]
ontime0	4783.8033896089	Sum of GTIs [s]
ontime1	3331.3465931416	Sum of GTIs [s]
ontime2	2411.062828064	Sum of GTIs [s]
ontime3	2585.0761607289	Sum of GTIs [s]
ontime7	11209.161017716	Sum of GTIs [s]
l2events	111559	Number of level 2 events

