

# V&V Summary Report

## L2 ASCDS Version : 8.4.5

Observation 9947 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Jun 17 2012

See [axaff09947N003\\_VV001\\_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	141.28198315793

## Comments

The zeroth order for extracting the spectral data was determined using the pipeline tool `tgdetect`, in conformance to `TGCat`. There was not manual intervention in this step.

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Level 2 event file shows significant streaking in chip S4. In general, these streak events are filtered in the pipeline with the `destreak` tool. The default `destreak` parameters do a good job for most obsids with moderate streaking. However, there are some datasets which are exceptionally bad, e.g. Obsid 5190. In these cases, the default `destreak` 'max' setting may leave considerable streaking.

We have found that removing background flares on ACIS-8 (ACIS-S4) before running `destreak`, in combination with setting the 'max' parameter to '1' (that is, one streak event per row per node per exposure), does a very good job at suppressing the streaks. It's important to look for the flare on ACIS-8 as the back-illuminated chips may not show a significant flare where ACIS-8 does.

Setting 'max' to 1, especially for gratings data, may remove a large fraction of the data. Users should check the output 'timefile' to see

what percent of the data was removed.

## Notes

Destreak should always be used with caution because it removes counts from any source sufficiently bright to generate, within a single frame-time, multiple events within a single row of one CCD node. Bright point sources are certain to be affected.

seq_num	200560	Sequence number
obs_id	9947	Observation id
title	The true nature of HD 110432: the most extreme gamma Cas analog	Pr
observer	Dr. Jose Torrejon	Principal investigator
object	HD 110432	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	190.709583	Observer's specified target RA [deg]
dec_targ	-63.058639	Observer's specified target Dec [deg]
ra_nom	190.6993329807	Nominal RA [deg]
dec_nom	-63.057257683114	Nominal Dec [deg]
roll_nom	131.7718093457	Nominal Roll [deg]
revision	3	Processing version of data
ontime	141281.98315883	Sum of GTIs [s]
livetime	139492.98561827	Livetime [s]
ontime4	141272.30136752	Sum of GTIs [s]
ontime5	141281.94211882	Sum of GTIs [s]
ontime6	141281.90107882	Sum of GTIs [s]
ontime7	141281.98315883	Sum of GTIs [s]
ontime8	141278.6190685	Sum of GTIs [s]
ontime9	141278.5780285	Sum of GTIs [s]
l2events	2683028	Number of level 2 events

