

# V&V Summary Report

## L2 ASCDS Version : 8.4.4

Observation 9898 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : May 21 2012

See [axaff09898N002\\_VV001\\_vvref2.pdf](#) for the full report

|                            |             |
|----------------------------|-------------|
| V&V Scientist              | Joy Nichols |
| V&V Date (YYYY-MM-DD)      | 2012.05.22  |
| V&V Edition                | 1           |
| V&V Disposition and Status | OK          |
| V&V Charge Time            | 101.162458  |

## Comments

Zeroth order piled up. Standard data processing software did not correctly locate the zeroth order due to pileup. Manual intervention was used to input the correct sky coordinates ( $x=4072.35$ ,  $y=4120.74$ ) into the `*src1a.fits` file table. These corrected coordinates were determined using a software tool developed by CXC called `findzero`, which is expected to be released in CIAO (currently in ISIS). The tool calculates the point of intersection of the readout streak and the meg arm (preferred position), or the readout streak and the heg arm. The zeroth order source position determined by the standard pipeline processing using the tool `tgdetect` was not used in this processing. The newly determined zeroth order coordinates have been placed in the `*src1a.fits` file, replacing the coordinates determined by `tgdetect`. Note that these corrected coordinates of the zeroth order cannot be reproduced by running `tgdetect` on the data.

|          |   |   |
|----------|---|---|
| seq_num  | 701772  | Sequence number                             |
| obs_id   | 9898  | Observation id                              |
| title    | Obtaining High Signal on the Fe-L Unresolved Transition Array | Prop  |
| observer | Prof Claude Canizares   | Principal investigator                      |
| object   | Ark 564   | Source name                                 |
| dtcycle  | 0   | &#160                                       |
| cycle    | P   | events from which exps?<br>Prim/Second/Both |
| ra_targ  | 340.664167  | Observer's specified target RA [deg]        |
| dec_targ | 29.725361   | Observer's specified target Dec [deg]       |
| ra_nom   | 340.66007483007   | Nominal RA [deg]                            |
| dec_nom  | 29.722065574508   | Nominal Dec [deg]                           |
| roll_nom | 191.1586544755  | Nominal Roll [deg]                          |
| revision | 2   | Processing version of data                  |
| ontime   | 101162.45895982   | Sum of GTIs [s]                             |
| livetime | 99528.597503205   | Livetime [s]                                |
| ontime4  | 101162.45895982   | Sum of GTIs [s]                             |
| ontime5  | 101162.45895982   | Sum of GTIs [s]                             |
| ontime6  | 101162.45895982   | Sum of GTIs [s]                             |
| ontime7  | 101162.45895982   | Sum of GTIs [s]                             |
| ontime8  | 101159.91792947   | Sum of GTIs [s]                             |
| ontime9  | 101162.45895982   | Sum of GTIs [s]                             |
| l2events | 1430692   | Number of level 2 events                    |

