

# V&V Summary Report

## L2 ASCDS Version : 10.9.2

Observation 13823 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Mar 1 2021

See axaff13823N004\_VV001\_vvref2.pdf for the full report

|                            |                 |
|----------------------------|-----------------|
| V&V Scientist              | Beth Sundheim   |
| V&V Date (YYYY-MM-DD)      | 2021.03.02      |
| V&V Edition                | 1               |
| V&V Disposition and Status | OK              |
| V&V Charge Time            | 29.961599888444 |

## Comments

A spatial region of the original bias map for CCD = 3 suffered from anomalously high data values. Pixels in the event data that were bias-corrected by one of the original affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small (~20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD = 3 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation. The pixels affected by the anomaly are bounded by sky coords:  
(4.52864,-10.34639),(4.52487,-10.34940),(4.61461,-10.45740),(4.61837,-10.45439).

|          |  |   |
|----------|--|---|
| seq_num  | 600997                                     | Sequence number                             |
| obs_id   | 13823                                      | Observation id                              |
| title    | Colliding Galaxies Arp 256 and NGC 5754/52 | Proposal title                              |
| observer | Saul Rappaport                             | Principal investigator                      |
| object   | Arp 256                                    | Source name                                 |
| dtcycle  | 0  | &#160                                       |
| cycle    | P  | events from which exps?<br>Prim/Second/Both |
| ra_targ  | 4.712083                                   | Observer's specified target RA [deg]        |
| dec_targ | -10.376778                                 | Observer's specified target Dec [deg]       |
| ra_nom   | 4.7089974856707                            | Nominal RA [deg]                            |
| dec_nom  | -10.375820410783                           | Nominal Dec [deg]                           |
| roll_nom | 309.27003247183                            | Nominal Roll [deg]                          |
| revision | 4  | Processing version of data                  |
| ontime   | 29961.599888444                            | Sum of GTIs [s]                             |
| livetime | 29582.208069947                            | Livetime [s]                                |
| ontime2  | 29961.599888444                            | Sum of GTIs [s]                             |
| ontime3  | 29961.599888444                            | Sum of GTIs [s]                             |
| ontime5  | 29961.599888444                            | Sum of GTIs [s]                             |
| ontime6  | 29958.358878076                            | Sum of GTIs [s]                             |
| ontime7  | 29961.599888444                            | Sum of GTIs [s]                             |
| ontime8  | 29958.358848214                            | Sum of GTIs [s]                             |
| l2events | 278229                                     | Number of level 2 events                    |

