

V&V Summary Report

L2 ASCDS Version : 10.4.3.1

Observation 17105 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Feb 8 2018

See axaff17105N002-VV001_vvref2.pdf for the full report

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|----------------------------|-----------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2018.02.12 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 116.08559884667 |

Comments

Zeroth order piled up. The zeroth order sky position was determined using a software tool developed by CXC called findzero, which is available in CIAO as part of the tgdetect2 tool. The tool calculates the point of intersection of the readout streak on the ACIS CCD and the meg or leg dispersed spectral arm, rather than using a centroid position of the source. The findzero results are more accurate than source centroid in this case.

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To compensate for a few bad pixels not marked as bad that were not removed in the Level 2 processing, a custom bad pixel file with additional bad pixels at (chipx, chipy) = (232:234,322:339) in S1 was added in this processing. As a result, the user will NOT find a relatively bright square of pixels on the S1 chip for level 2 data caused by the application of the dither algorithm to the bad pixels in question, as opposed to previous processing(s).

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|----------|--|---|
| seq_num | 703106 | Sequence number |
| obs_id | 17105 | Observation id |
| title | Uncovering the True Nature of Warm-Absorbing Winds: The Power of the Fe XXII Doublet | Proposal title |
| observer | Dr. Ashley King | Principal investigator |
| object | NGC 4051 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 180.79 | Observer's specified target RA [deg] |
| dec_targ | 44.531389 | Observer's specified target Dec [deg] |
| ra_nom | 180.78738170844 | Nominal RA [deg] |
| dec_nom | 44.529880632374 | Nominal Dec [deg] |
| roll_nom | 133.15846488252 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 116085.59884667 | Sum of GTIs [s] |
| livetime | 114133.90900273 | Livetime [s] |
| ontime5 | 116085.59884667 | Sum of GTIs [s] |
| ontime6 | 116085.59884667 | Sum of GTIs [s] |
| ontime7 | 116085.59884667 | Sum of GTIs [s] |
| ontime8 | 116085.59884667 | Sum of GTIs [s] |
| l2events | 918624 | Number of level 2 events |

