

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 92 - L2 Version 5
Chandra X-Ray Center

L2 Processing Date : Aug 24 2012

See axaff00092N002_VV001_vvref2.pdf for the full report

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| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2012.08.29 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 18.713 |

Comments

Phase constraint met.

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This is an interleaved-mode observation. The primary exposure (e1) is shorter than the secondary exposure (e2). Therefore the longer exposure was used to determine the zeroth order position, then that position was applied to both exposures.

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Zeroth order in the e2 exposure was 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=4088.61, y=4127.42) into the *src1a.fits file tables for both e1 and e2 exposures. These corrected coordinates were determined using a software tool developed by CXC called findzero, which is expected to be released in CIAO as tg_findzo (currently in ISIS as findzo. The tool calculates the point of intersection of the readout streak and the meg 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 files for both e1 and e2 exposures, replacing the coordinates determined by tgdetect. Note that these corrected

coordinates of the zeroth order cannot be reproduced by running tgdetect on the data.

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|----------|---------------------------|--|
| seq_num | 400005 | Sequence number |
| obs_id | 92 | Observation id |
| title | MEASURING BLACK HOLE SPIN | Proposal title |
| observer | Professor Gordon Garmire | Principal investigator |
| object | LMC X-3 | Source name |
| dtcycle | 0 | |
| cycle | P | events are from which exps? P[primary] S[econdar] |
| ra_targ | 84.735 | Observer's specified target RA [deg] |
| dec_targ | -64.08375 | Observer's specified target Dec [deg] |
| ra_nom | 84.733478633685 | Nominal RA [deg] |
| dec_nom | -64.088504207842 | Nominal Dec [deg] |
| roll_nom | 285.0066414259 | Nominal Roll [deg] |
| revision | 5 | Processing version of data |
| ontime | 2226.1941867322 | Sum of GTIs [s] |
| livetime | 190.1993119531 | Livetime [s] |
| ontime4 | 2226.1941567957 | Sum of GTIs [s] |
| ontime5 | 2226.1941867322 | Sum of GTIs [s] |
| ontime6 | 2226.1941867322 | Sum of GTIs [s] |
| ontime7 | 2226.1941867322 | Sum of GTIs [s] |
| ontime8 | 2226.1941567957 | Sum of GTIs [s] |
| ontime9 | 2226.1941867322 | Sum of GTIs [s] |
| l2events | 6941 | Number of level 2 events |

