

# V&V Summary Report

## L2 ASCDS Version : 8.4.4

Observation 8220 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Apr 22 2012

See axaff08220N004\_VV001\_vvref2.pdf for the full report

|                            |            |
|----------------------------|------------|
| V&V Scientist              | Jen Lauer  |
| V&V Date (YYYY-MM-DD)      | 2012.04.23 |
| V&V Edition                | 1          |
| V&V Disposition and Status | OK         |
| V&V Charge Time            | 16.8423001 |

## Comments

The guide star in slot 5 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.

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Joint Proposal: XMM. Window constraint met.

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The scheduled ACA attitudes and observation intervals for the two Jupiter observations, 08220 and 08218 in the schedule MAR0507A, put the planet's center at 0.11 and 0.09 arcsec, respectively, from the OR-specified offset locations at the midpoint time of each observation interval, which is acceptable. This assumes the original SI-to-ACA offsets of 69.6 arcsec along Y and 56.4 arcsec along Z (with the same sign convention as the OR offsets). Note that I only check pointing and observation interval to verify the OFLS scheduling of the Solar System target. Also note that 08220 is observed before 08218. The astrometric coordinates of Jupiter as seen by Chandra at the midpoint times are RA = 257.418088 and DEC = -22.222006 deg for 08220, and RA = 257.541666 and DEC = -22.232556 deg for 08218 as computed by JPL/Horizons with a predicted Chandra ephemeris.

|          |  |   |
|----------|--|---|
| seq_num  | 100068   | Sequence number                             |
| obs_id   | 8220   | Observation id                              |
| title    | X-Ray Observations of Jupiter in Support of the New Horizons Flyby | &#160                                       |
| observer | Dr. G. Gladstone   | Principal investigator                      |
| object   | Jupiter  | Source name                                 |
| dtcycle  | 0  | &#160                                       |
| cycle    | P  | events from which exps?<br>Prim/Second/Both |
| ra_targ  | 257.446208   | Observer's specified target RA [deg]        |
| dec_targ | -22.219167   | Observer's specified target Dec [deg]       |
| ra_nom   | 257.41574053834  | Nominal RA [deg]                            |
| dec_nom  | -22.21764878575  | Nominal Dec [deg]                           |
| roll_nom | 85.137603916478  | Nominal Roll [deg]                          |
| revision | 4  | Processing version of data                  |
| ontime   | 16842.300129533  | Sum of GTIs [s]                             |
| livetime | 16622.243079219  | Livetime [s]                                |
| ontime2  | 16836.018139124  | Sum of GTIs [s]                             |
| ontime3  | 16839.159169257  | Sum of GTIs [s]                             |
| ontime6  | 16842.300129533  | Sum of GTIs [s]                             |
| ontime7  | 16842.300129533  | Sum of GTIs [s]                             |
| ontime8  | 16842.300129533  | Sum of GTIs [s]                             |
| l2events | 81609  | Number of level 2 events                    |

