

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 598 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Sep 5 2012

See [axaff00598N002_VV001_vvref2.pdf](#) for the full report

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|----------------------------|-------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2012.10.11 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 13.26 |

Comments

FOR PRIMARY EXPOSURE ONLY:

The livetime for each chip is about 177.75s instead of 1395.6s for each chip because the use of a 0.1 s frame time for the selection of chips and rows used during the observation is shorter than the time it takes to read out one frame of data. The frame time must be at least 0.7 s to avoid 'flushing' the detector before each frame of data is collected. The time required to flush the detector is specified on p. 120 of the ACIS Science Instrument Software User's Guide:

<http://acis.mit.edu/swuserA/swuser.pdf> Events that occur during such a flush are discarded onboard. The flush time is effectively 'dead time.' For this reason, most of the 1395.6s of the observation was spent flushing the detectors instead of collecting data. Had the frame time been 0.7 s or longer, there would have been about 1395.6s of exposure instead of only about 177.75s.

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|----------|--|---|
| seq_num | 500084 | Sequence number |
| obs_id | 598 | Observation id |
| title | X-RAY POSITIONS AND AFTERGLOWS OF GAMMA-RAY BURSTS | Proposal title |
| observer | Dr Luigi Piro | Principal investigator |
| object | GRB000926 | Source name |
| dtcycle | 0 | |
| cycle | P | events are from which exps? P[primary] S[econdar |
| ra_targ | 256.040417 | Observer's specified target RA [deg] |
| dec_targ | 51.786389 | Observer's specified target Dec [deg] |
| ra_nom | 256.04247697029 | Nominal RA [deg] |
| dec_nom | 51.776568921181 | Nominal Dec [deg] |
| roll_nom | 287.92399363184 | Nominal Roll [deg] |
| revision | 4 | Processing version of data |
| ontime | 1395.6159579307 | Sum of GTIs [s] |
| livetime | 177.75829910468 | Livetime [s] |
| ontime4 | 1395.6159579307 | Sum of GTIs [s] |
| ontime5 | 1395.6159579307 | Sum of GTIs [s] |
| ontime6 | 1395.6460442394 | Sum of GTIs [s] |
| ontime7 | 1395.6159579307 | Sum of GTIs [s] |
| ontime8 | 1395.6870842427 | Sum of GTIs [s] |
| ontime9 | 1395.728124246 | Sum of GTIs [s] |
| l2events | 381 | Number of level 2 events |

