

V&V Summary Report

L2 ASCDS Version : 8.4.4

Observation 9148 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Jun 4 2012

See [axaff09148N003_VV001_vvref2.pdf](#) for the full report

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|----------------------------|-------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2012.06.07 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 80.8775 |

Comments

Source is extended and asymmetric. Standard software processing technique using the tool `tgdetect` did not give an accurate position for the zeroth order. The zeroth order position used in this processing was manually determined to be the brightest position in the nucleus. The newly determined zeroth order coordinates ($x=4130.375$, $y=4107.25$) have been placed in the `*src1a.fits` file, replacing the coordinates determined by `tgdetect`. Please note that rerunning `tgdetect` for analysis purposes will not give the same zeroth order position as that used in this processing.

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Roll constraint met.

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WARNING: there are no standard ciao tools for analysis of grating spectra from extended sources. The shape of an emission 'line' will be the shape of the zero order spatial structure convolved with the instrumental LSF. Grating extractions can be used, but need to be combined with custom spatial-spectral analysis, since wavelength is multi-valued at any particular diffraction angle.

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|----------|---|--|
| seq_num | 701591 | Sequence number |
| obs_id | 9148 | Observation id |
| title | NGC 1068: Photo-ionized gas in the nucleus, and ionization cone | Pr |
| observer | Prof Claude Canizares | Principal investigator |
| object | NGC 1068 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 40.669583 | Observer's specified target RA [deg] |
| dec_targ | -0.013333 | Observer's specified target Dec [deg] |
| ra_nom | 40.674239088956 | Nominal RA [deg] |
| dec_nom | -0.014687299676637 | Nominal Dec [deg] |
| roll_nom | 312.15662900195 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 80877.5 | Sum of GTIs [s] |
| livetime | 79571.258224978 | Livetime [s] |
| ontime4 | 80877.5 | Sum of GTIs [s] |
| ontime5 | 80877.5 | Sum of GTIs [s] |
| ontime6 | 80877.5 | Sum of GTIs [s] |
| ontime7 | 80877.5 | Sum of GTIs [s] |
| ontime8 | 80877.5 | Sum of GTIs [s] |
| ontime9 | 80877.5 | Sum of GTIs [s] |
| l2events | 1078270 | Number of level 2 events |

