

V&V Summary Report

L2 ASCDS Version : 7.6.10

Observation 49896 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Sep 24 2007

See [axaff49896N002_VV001_vvref2.pdf](#) for the full report

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|----------------------------|-------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2007.10.03 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 9.785 |

Comments

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. The user will need to select a region or source of interest, then use software tools such as CIAO to specify the coordinates of the zeroth order source of interest before running the tools to resolve the dispersed events.

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Standard software processing technique using the tool tgdetect failed to determine a position for the zeroth order for this observation. The source is extended. The coordinates supplied by the user for the position of the zeroth order could not be used in the processing because they are the coordinates for the optical position of Abell 1835, not the coordinates of the X-ray source. For this processing, the zeroth order position was determined with an eyeball estimate. For grating analysis of localized X-ray emission within the extended emission, the investigator

will need to extract one or more dispersed spectra using user-defined zeroth order positions for all positions of interest.

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|----------|--------------------------------------------------------|
| seq_num | 800019 |
| obs_id | 49896 |
| title | HIGH RESOLUTION X-RAY SPECTRA OF CLUSTER COOLING FLOWS |
| observer | Prof. Claude Canizares |
| object | ABELL 1835 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 210.257917 |
| dec_targ | 2.858889 |
| ra_nom | 210.25236237067 |
| dec_nom | 2.8386223379598 |
| roll_nom | 259.6358531986 |
| revision | 3 |
| ontime | 9785.5590488762 |
| livetime | 9661.648408043 |
| ontime4 | 9788.8000091165 |
| ontime5 | 9785.5590488762 |
| ontime6 | 9785.5591885 |
| ontime7 | 9785.5590488762 |
| ontime8 | 9785.5590488762 |
| ontime9 | 9788.8000091165 |
| l2events | 94002 |

