# V&V Summary Report
# L2 ASCDS Version : 8.4.5

### Observation 12206 - L2 Version 2
### Chandra X-Ray Center

### L2 Processing Date : Jun 25 2012

See axaff12206N002_VV001_vvref2.pdf for the full report

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|---|---|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2012.06.26 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 35.046267525196 |

# Comments

THIS IS AN EXAMPLE SPECTRAL EXTRACTION. Very Extended source - special
analysis needed. WARNING::Zeroth order position was manually selected
to correspond to a bright Si feature in the North (R6 in Lazendic et al.
2006) and shows a high Si f/r line ratio. The sky position of the
zeroth order is x=4075.375, y=4276.125.
This extraction position is the same zeroth order position used in TGCat
for this obsid.
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. The spectral data supplied in this processing are only
energy-calibrated for the particular emission knot selected. Roll
angle constraint met. === 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 | 501159 | Sequence number |
| obs_id | 12206 | Observation id |
| title | 2nd Epoch High Resolution Spectra of Cassiopeia A: Plasma Evolution and Doppler Mapping | Proposal title |
| observer | Prof Claude Canizares | Principal investigator |
| object | Cassiopeia A | Source name |
| dtycycle | 0 | &#160 |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 350.86625 | Observer's specified target RA [deg] |
| dec_targ | 58.811806 | Observer's specified target Dec [deg] |
| ra_nom | 350.86598040194 | Nominal RA [deg] |
| dec_nom | 58.816652323074 | Nominal Dec [deg] |
| roll_nom | 60.156843247988 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 35046.267524481 | Sum of GTIs [s] |
| livetime | 34602.490582757 | Livetime [s] |
| ontime4 | 35046.308564484 | Sum of GTIs [s] |
| ontime5 | 35046.226484478 | Sum of GTIs [s] |
| ontime6 | 35046.185444474 | Sum of GTIs [s] |
| ontime7 | 35046.267524481 | Sum of GTIs [s] |
| ontime8 | 35046.144404471 | Sum of GTIs [s] |
| ontime9 | 35046.103364468 | Sum of GTIs [s] |
| l2events | 4028191 | Number of level 2 events |