

V&V Summary Report

L2 ASCDS Version : 8.4.3

Observation 6241 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Mar 27 2012

See axaff06241N002_VV001_vvref2.pdf for the full report

| | |
|----------------------------|-------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2012.03.28 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 17.95199 |

Comments

Source is extended and asymmetric. It could be 2 unresolved stars or one star with an extended structure. Zeroth order used for spectral extraction was manually determined and positioned at the location of the brightest X-ray flux, presumably the position of the brighter star. The sky coordinates of the zeroth order used in this extraction are $x=4092.663$, $y=4110.998$. The extended-structure/stellar-source is positioned parallel to (along) the spectral dispersion direction, extending about 2 arcsec to the SE. ACIS cannot differentiate the energies and positions of such closely-placed emission sources, so the entire emission structure will be included in the extracted spectral data. Please note that rerunning `tgdetect` for analysis purposes will not give the same zeroth order position as that used in this processing.

=====

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.

| | | |
|----------|--------------------------------------------------------------------------|---------------------------------------------|
| seq_num | 200353 | Sequence number |
| obs_id | 6241 | Observation id |
| title | MAGNETIC ACTIVITY IN YOUNG STARS: THE WEAK-LINED T TAURI STAR HDE 245059 | Proposal title |
| observer | Prof. Marc Audard | Principal investigator |
| object | HDE 245059 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 83.645417 | Observer's specified target RA [deg] |
| dec_targ | 10.118389 | Observer's specified target Dec [deg] |
| ra_nom | 83.64489891859 | Nominal RA [deg] |
| dec_nom | 10.116371916565 | Nominal Dec [deg] |
| roll_nom | 308.45672131678 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 17951.999933124 | Sum of GTIs [s] |
| livetime | 17724.680900574 | Livetime [s] |
| ontime4 | 17951.999933124 | Sum of GTIs [s] |
| ontime5 | 17951.999933124 | Sum of GTIs [s] |
| ontime6 | 17951.999933124 | Sum of GTIs [s] |
| ontime7 | 17951.999933124 | Sum of GTIs [s] |
| ontime8 | 17945.517962515 | Sum of GTIs [s] |
| ontime9 | 17948.758942813 | Sum of GTIs [s] |
| l2events | 234996 | Number of level 2 events |

