

# V&V Summary Report

## L2 ASCDS Version : 8.4.3

Observation 13242 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Feb 6 2012

See [axaff13242N002\\_VV001\\_vvref2.pdf](#) for the full report

|                            |                 |
|----------------------------|-----------------|
| V&V Scientist              | Joy Nichols     |
| V&V Date (YYYY-MM-DD)      | 2012.02.08      |
| V&V Edition                | 1               |
| V&V Disposition and Status | OK              |
| V&V Charge Time            | 44.003199836135 |

## 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. ===== WARNING::Zeroth order selected by pipeline tools is a point source inside the supernova remnant. The user may want 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 data for this observation have been processed using the 'EDSER' sub-pixel event-repositioning algorithm of Li et al. (2004, ApJ, 610, 1204). Small-scale features should become sharper for sources near the aim point. The improvement will be less noticeable for off-axis sources where the size of the point-spread function is comparable to or larger than the size of an ACIS pixel. To take full advantage of the improvement, images should be binned on spatial scales smaller than the size of an ACIS pixel. Note that, at present, the point-spread function has not been calibrated for data to which the EDSER algorithm has been applied. If dither was disabled for the observation, then the algorithm

can introduce artificial aliasing effects on spatial scales smaller than a pixel. If you would prefer to use no sub-pixel adjustment or to apply a coordinate randomization, then use `acis_process_events` to reprocess the data with the parameter `pix_adj=NONE` or `RANDOMIZE`, respectively.

|          |   |   |
|----------|---|---|
| seq_num  | 501388  | Sequence number                             |
| obs_id   | 13242   | Observation id                              |
| title    | Chandra HETGS Observation of the Oxygen-Rich Supernova Remnant G292.0+1.8 | Proposal title                              |
| observer | Sangwook Park   | Principal investigator                      |
| object   | G292.0+1.8  | Source name                                 |
| dtcycle  | 0   | &#160                                       |
| cycle    | P   | events from which exps?<br>Prim/Second/Both |
| ra_targ  | 171.164583  | Observer's specified target RA [deg]        |
| dec_targ | -59.265667  | Observer's specified target Dec [deg]       |
| ra_nom   | 171.17362908333   | Nominal RA [deg]                            |
| dec_nom  | -59.264187777061  | Nominal Dec [deg]                           |
| roll_nom | 346.16439965662   | Nominal Roll [deg]                          |
| revision | 2   | Processing version of data                  |
| ontime   | 44003.199836135   | Sum of GTIs [s]                             |
| livetime | 43446.004824264   | Livetime [s]                                |
| ontime4  | 43990.235694826   | Sum of GTIs [s]                             |
| ontime5  | 44003.199836135   | Sum of GTIs [s]                             |
| ontime6  | 43999.958805799   | Sum of GTIs [s]                             |
| ontime7  | 44003.199836135   | Sum of GTIs [s]                             |
| ontime8  | 44003.199836135   | Sum of GTIs [s]                             |
| ontime9  | 43999.958795846   | Sum of GTIs [s]                             |
| l2events | 861844  | Number of level 2 events                    |

