

# V&V Summary Report

## L2 ASCDS Version : 8.4.4

Observation 10853 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : May 29 2012

See axaff10853N002-VV001\_vvref2.pdf for the full report

|                            |                 |
|----------------------------|-----------------|
| V&V Scientist              | Joy Nichols     |
| V&V Date (YYYY-MM-DD)      | 2012.05.29      |
| V&V Edition                | 1               |
| V&V Disposition and Status | OK              |
| V&V Charge Time            | 11.667700252891 |

## Comments

Source is extended with structure. The zeroth order used for extracting the spectral data in this processing is located at the centroid of the SNR, but is not located at the position of the brightest X-ray emission in the supernova remnant. 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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The sub-array configuration chosen eliminates counts from the soft ends of

the spectral arms for both HEG (>9A) and MEG (>19A).

===Obsid 10130 used for cross-calibration purposes. ===

|          |   |   |
|----------|---|---|
| seq_num  | 501148  | Sequence number                             |
| obs_id   | 10853   | Observation id                              |
| title    | Chandra Cycle 10 Spatial and Spectral Monitoring of SNR 1987A | Prop  |
| observer | Prof. David Burrows   | Principal investigator                      |
| object   | SNR 1987A   | Source name                                 |
| dtcycle  | 0   | &#160                                       |
| cycle    | P   | events from which exps?<br>Prim/Second/Both |
| ra_targ  | 83.866667   | Observer's specified target RA [deg]        |
| dec_targ | -69.26975   | Observer's specified target Dec [deg]       |
| ra_nom   | 83.880354520396   | Nominal RA [deg]                            |
| dec_nom  | -69.269769146147  | Nominal Dec [deg]                           |
| roll_nom | 328.16942208749   | Nominal Roll [deg]                          |
| revision | 2   | Processing version of data                  |
| ontime   | 11667.700252891   | Sum of GTIs [s]                             |
| livetime | 11248.045886366   | Livetime [s]                                |
| ontime4  | 11667.700252891   | Sum of GTIs [s]                             |
| ontime5  | 11667.700252891   | Sum of GTIs [s]                             |
| ontime6  | 11667.700252891   | Sum of GTIs [s]                             |
| ontime7  | 11667.700252891   | Sum of GTIs [s]                             |
| ontime8  | 11667.700252891   | Sum of GTIs [s]                             |
| ontime9  | 11667.700252891   | Sum of GTIs [s]                             |
| l2events | 40653   | Number of level 2 events                    |

