

# V&V Summary Report

## L2 ASCDS Version : 8.4.5

Observation 1852 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Sep 6 2012

See axaff01852N002\_VV001\_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.09.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.148

## Comments

Roll constraint met. Only center segment of HRC-S used in this observation.

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Vela pulsar has an associated wind nebula, making this an extended source.

The pulsar is a point source with a well-defined dispersed spectrum. However,

extended nebular emission overlays the dispersed spectrum and will make background determination complex.

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	500123	Sequence number
obs_id	1852	Observation id
title	THE VELA PULSAR	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	VELA PULSAR	Source name
ra_targ	128.835833	Observer's specified target RA [deg]
dec_targ	-45.176389	Observer's specified target Dec [deg]
ra_nom	128.84245566108	Nominal RA [deg]
dec_nom	-45.175306972941	Nominal Dec [deg]
roll_nom	15.210313495698	Nominal Roll [deg]
revision	4	Processing version of data
ontime	25162.982214823	[s]
livetime	25087.922756854	Ontime multiplied by DTCOR
l2events	713298	Number of level 2 events

