

# V&V Summary Report

## L2 ASCDS Version : 8.4.3.1

Observation 5409 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Mar 26 2012

See axaff05409N002\_VV001\_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.04.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	86.5055996

## Comments

Gain and CTI correction are not well calibrated on CCD\_ID 5 (ACIS-S1). Default order sorting can clip some regions, particularly longward of 30A (first order). User-specified custom processing parameters may be required in `tg_resolve_events` (`osipfile=none`, `osort_lo`, `osort_hi ~0.5`) though this can allow more zeroth order background at short wavelengths.

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WARNING: Zeroth order selected by pipeline tools is well-centered in the PN, but is not at the position of the peak emission. 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.

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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	200343	Sequence number
obs_id	5409	Observation id
title	The X-ray Spectrum of a Planetary Nebula at High Resolution	Propos
observer	Dr. Joel Kastner	Principal investigator
object	BD +303639	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	293.688333	Observer's specified target RA [deg]
dec_targ	30.516361	Observer's specified target Dec [deg]
ra_nom	293.67131277033	Nominal RA [deg]
dec_nom	30.50128365404	Nominal Dec [deg]
roll_nom	41.414466291548	Nominal Roll [deg]
revision	2	Processing version of data
ontime	86505.599677742	Sum of GTIs [s]
livetime	85410.213687203	Livetime [s]
ontime4	86505.599677742	Sum of GTIs [s]
ontime5	86505.599677742	Sum of GTIs [s]
ontime6	86502.358717471	Sum of GTIs [s]
ontime7	86505.599677742	Sum of GTIs [s]
ontime8	86502.358657628	Sum of GTIs [s]
ontime9	86505.599677742	Sum of GTIs [s]
l2events	1203350	Number of level 2 events

