

# V&V Summary Report

## L2 ASCDS Version : 8.4.4

Observation 10815 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Jun 1 2012

See [axaff10815N003\\_VV001\\_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.3825

## Comments

Source is extended and asymmetric. Standard software processing technique using the tool `tgdetect` did not give an accurate position for the zeroth order. The zeroth order position used in this processing was manually determined to be the brightest position in the nucleus. The newly determined zeroth order coordinates ( $x=4131.125$ ,  $y=4099.875$ ) have been placed in the `*src1a.fits` file, replacing the coordinates determined by `tgdetect`. Please note that rerunning `tgdetect` for analysis purposes will not give the same zeroth order position as that used in this processing.

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Roll constraint met.

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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	701591	Sequence number
obs_id	10815	Observation id
title	NGC 1068: Photo-ionized gas in the nucleus, and ionization cone	Pr
observer	Prof Claude Canizares	Principal investigator
object	NGC 1068	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	40.669583	Observer's specified target RA [deg]
dec_targ	-0.013333	Observer's specified target Dec [deg]
ra_nom	40.674425813318	Nominal RA [deg]
dec_nom	-0.01372969833098	Nominal Dec [deg]
roll_nom	323.65662977438	Nominal Roll [deg]
revision	3	Processing version of data
ontime	19382.5	Sum of GTIs [s]
livetime	19069.455813368	Livetime [s]
ontime4	19382.5	Sum of GTIs [s]
ontime5	19382.5	Sum of GTIs [s]
ontime6	19382.5	Sum of GTIs [s]
ontime7	19382.5	Sum of GTIs [s]
ontime8	19382.5	Sum of GTIs [s]
ontime9	19382.5	Sum of GTIs [s]
l2events	262538	Number of level 2 events

