

# V&V Summary Report

## L2 ASCDS Version : 8.4.5

Observation 774 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Oct 11 2012

See axaff00774N002\_VV001\_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.10.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.913

## Comments

Zeroth order position chosen to match the zeroth order position in TGCat (x=3958.00, y=5154.06). The zeroth order position is approximately centered in the SNR, but due to the asymmetry of the X-ray emission, the zeroth order is not at the location of the brightest X-ray emission. Note that the SNR is not uniformly bright and this can lead to apparent line shifts between plus and minus orders.

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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. The spectral data supplied in this processing are only energy-calibrated for the particular zeroth order position selected. Warning: The spectral lines are spatially-broadened and the rmfs are not valid.

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In addition, the source is off-axis by about 9 arcmin. This was done deliberately to place the dispersed spectral data of interest on the back-illuminated chip at the aim point for maximum sensitivity and resolution.

The zeroth order image will have a broader PSF in the off-axis position.

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Charge time for this ObsId remains at previous value of 39.913 ks, although with the current processing the charge time would be 40.019 ks.

seq_num	500070	Sequence number
obs_id	774	Observation id
title	HIGH RESOLUTION LINE SPECTROSCOPY OF THREE YOUNG SUPERNOVA REMNANTS IN THE LARGE MAGELLANIC CLOUD	Proposal title
observer	PROF. STEVEN KAHN	Principal investigator
object	0509-67.5	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	77.382917	Observer's specified target RA [deg]
dec_targ	-67.521417	Observer's specified target Dec [deg]
ra_nom	77.331192275086	Nominal RA [deg]
dec_nom	-67.665837362896	Nominal Dec [deg]
roll_nom	81.663803823185	Nominal Roll [deg]
revision	3	Processing version of data
ontime	40019.159077018	Sum of GTIs [s]
livetime	39512.412388141	Livetime [s]
ontime4	40022.400037259	Sum of GTIs [s]
ontime5	40022.400037259	Sum of GTIs [s]
ontime6	40019.159077018	Sum of GTIs [s]
ontime7	40019.159077004	Sum of GTIs [s]
ontime8	40019.159206644	Sum of GTIs [s]
ontime9	40022.400037259	Sum of GTIs [s]
l2events	333247	Number of level 2 events

