

# V&V Summary Report

## L2 ASCDS Version : 10.4.3.1

Observation 18620 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Mar 25 2016

See [axaff18620N001\\_VV001\\_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.03.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	31.072600871563

## Comments

Zereth order piled up. The zereth order sky position was determined using a software tool developed by CXC called findzero, which is available in CIAO as part of the tgdetect2 tool. The tool calculates the point of intersection of the readout streak on the ACIS CCD and the meg or leg dispersed spectral arm, rather than using a centroid position of the source. The findzero results are more accurate than source centroid in this case.

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Faint grating spectra can be seen in an image of bad events. This is probably due to pileup in the spectrum, causing migration to bad grades. This should be considered in analysis.

seq_num	401812	Sequence number
obs_id	18620	Observation id
title	Ionization and Reflection Physics in SMC X-1	Proposal title
observer	Prof. Claude Canizares	Principal investigator
object	SMC X-1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	19.27125	Observer's specified target RA [deg]
dec_targ	-73.443333	Observer's specified target Dec [deg]
ra_nom	19.271066891198	Nominal RA [deg]
dec_nom	-73.446048499986	Nominal Dec [deg]
roll_nom	196.69219456401	Nominal Roll [deg]
revision	1	Processing version of data
ontime	31072.600871563	Sum of GTIs [s]
livetime	30340.153863011	Livetime [s]
ontime5	31072.600871563	Sum of GTIs [s]
ontime6	31072.600871563	Sum of GTIs [s]
ontime7	31072.600871563	Sum of GTIs [s]
ontime8	31072.600871563	Sum of GTIs [s]
ontime9	31072.600871563	Sum of GTIs [s]
l2events	566012	Number of level 2 events

