

V&V Summary Report

L2 ASCDS Version : 10.5.2

Observation 19861 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Feb 2 2017

See axaff19861N001_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.02.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	60.527

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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Zeroth order piled up. The zeroth 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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Large dither pattern used.

seq_num	790301	Sequence number
obs_id	19861	Observation id
title	AO-18 Big Dither Observation of Mkn421	Proposal title
observer	CXC Calibration	Principal investigator
object	MKN421	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	166.113333	Observer's specified target RA [deg]
dec_targ	38.208806	Observer's specified target Dec [deg]
ra_nom	166.12210274683	Nominal RA [deg]
dec_nom	38.189071115569	Nominal Dec [deg]
roll_nom	119.59480985522	Nominal Roll [deg]
revision	1	Processing version of data
ontime	60527.0	Sum of GTIs [s]
livetime	58140.897563975	Livetime [s]
ontime5	60527.0	Sum of GTIs [s]
ontime6	60527.0	Sum of GTIs [s]
ontime7	60527.0	Sum of GTIs [s]
ontime8	60527.0	Sum of GTIs [s]
l2events	715303	Number of level 2 events

