

V&V Summary Report

L2 ASCDS Version : 8.4.5

Observation 11967 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Jul 20 2012

See axaff11967N003_VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.07.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.77791764468

Comments

Used flat order-sorting in `tg_resolve_events`, since there is no 'osip' table for ACIS-I.

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```
pset grt_lev15 osipfile=none===  
pset grt_lev15 osort_lo=0.3===  
pset grt_lev15 osort_hi=0.3===
```

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Zeroth order piled up. Standard data processing software did not correctly locate the zeroth order due to pileup. Manual intervention was used to input the correct sky coordinates ($x=4491.25$, $y=4597.25$) into the `*src1a.fits` file table. These corrected coordinates were determined by eye because neither the pipeline tool `tgdetect` nor the `findzero` tool were successful in identifying the zeroth order so close to a chip boundary. The determination of the position by eye is expected to be in error by up to 1-2 pixels. The newly determined zeroth order coordinates have been placed in the `*src1a.fits` file, replacing the coordinates determined by `tgdetect`. Note that these corrected coordinates of the zeroth order cannot be reproduced by running `tgdetect` on the data.

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Placement of the target on the chip is such that the negative dispersed spectrum is truncated at about 10-12 Å.

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The fid 0 radial median offset of 0.401 arcsec and the fid 1 radial median offset of 0.492 arcsec are acceptable for this ACIS CAL observation with a sim_z_offset of -19.99mm.

seq_num	790216	Sequence number
obs_id	11967	Observation id
title	AO-11 Calibration Observations of Mkn421	Proposal title
observer	Dr. 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	166.18289141888	Nominal RA [deg]
dec_nom	38.14041567903	Nominal Dec [deg]
roll_nom	127.71700192032	Nominal Roll [deg]
revision	3	Processing version of data
ontime	19777.917648315	Sum of GTIs [s]
livetime	19519.504593949	Livetime [s]
ontime0	19777.835568309	Sum of GTIs [s]
ontime1	19777.876618266	Sum of GTIs [s]
ontime2	19777.917648315	Sum of GTIs [s]
ontime3	19777.958698273	Sum of GTIs [s]
ontime6	19777.79453826	Sum of GTIs [s]
l2events	326539	Number of level 2 events

