

V&V Summary Report

L2 ASCDS Version : 8.1.2

Observation 165 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Dec 16 2009

See [axaff00165N001_VV001_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.03.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.747

Comments

Off-axis effective area measurement for chip S2.

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Slot 7 was not utilized in this observation.

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Charge time for this ObsId remains at previous value of 9.747 ksec, although

with the current processing the charge time would have been 9.758 ksec.

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The focal plane temperature is approximately -100 C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present.

The ACIS CTI correction has not been calibrated at this temperature, because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front and back illuminated chips are affected. However a T_GAIN correction has been applied to the BI chips (ACIS-5 and ACIS-7) data included here.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich

depend on the most accurate spectral response should not notice an effect.

seq_num	590033	Sequence number
obs_id	165	Observation id
title	ACIS CHIP RESPONSE TO A CONTINUUM SOURCE	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	G21.5-0.9 [Chip S2, T=100, Offsets=6,0,0]	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	278.389583	Observer's specified target RA
dec_targ	-10.568528	Observer's specified target Dec
ra_nom	278.39927779827	Nominal RA
dec_nom	-10.465469267291	Nominal Dec
roll_nom	263.65416805864	Nominal Roll
revision	2	Processing version of data
ontime	9758.7314669192	Sum of GTIs [s]
livetime	9635.1605330824	Livetime [s]
ontime2	9758.8545869216	Sum of GTIs [s]
ontime3	9758.8135469183	Sum of GTIs [s]
ontime5	9758.8956269175	Sum of GTIs [s]
ontime6	9758.7314669192	Sum of GTIs [s]
ontime7	9758.9366669208	Sum of GTIs [s]
ontime8	9758.7725069225	Sum of GTIs [s]
l2events	215270	Number of level 2 events

