V&V Summary Report
L2 ASCDS Version : 10.9.1

Observation 5415 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Oct 5 2020

See axaff05415N004_VV001_vvref2.pdf for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.03

Comments

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Window preference not met.
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The ACA has the capability to devote one or more of the eight image slots to "monitor" particular sky locations. This allows simultaneous optical photometry of one or more targets in the ACA field of view. These optical sources can be slightly fainter than the ACA guide star limit of mACA = 10.2 mag. The bright-end limit for monitor star photometry is mACA=6.2 mag. However, since there are a fixed number of image slots, devoting a slot to photometry instead of tracking a guide star results in a degradation of the image reconstruction and celestial location accuracy (Section 5.4). Using one monitor slot represents a 15 - 25% increase in the aspect image reconstruction RMS diameter, depending on the particular guide star configuration. Two monitor slots would increase the diameter by about 50 - 60%, but this configuration is not operationally allowed under normal circumstances. The photometric accuracy which can be achieved depends primarily on the star magnitude, integration time, CCD dark current, CCD read noise, sky background, and the CCD dark current uncertainty.

seq_num	200348		Sequence number
obs_id	5415		Observation id
title	Untangling the Accretion Spots on Classical T Tauri Stars		Proposal
observer	Dr. Andisheh Mahdavi		Principal investigator
object	GK Tau		Source name
dtycycle	0		&#160
cycle	P		events from which exps? Prim/Second/Both
ra_targ	68.39375		Observer's specified target RA [deg]
dec_targ	24.3525		Observer's specified target Dec [deg]
ra_nom	68.389542774454		Nominal RA [deg]
dec_nom	24.344792119435		Nominal Dec [deg]
roll_nom	275.16239802892		Nominal Roll [deg]
revision	4		Processing version of data
ontime	15030.0		Sum of GTIs [s]
livetime	13889.915717877		Livetime [s]
ontime5	15030.0		Sum of GTIs [s]
ontime7	15030.0		Sum of GTIs [s]
l2events	21548		Number of level 2 events