

V&V Summary Report

L2 ASCDS Version : 10.4.3.1

Observation 17765 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : May 6 2016

See axaff17765N001-VV001_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.05.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	62.031000477195

Comments

The target is monitored optically with slot 7 of the Aspect Camera during this observation. 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 $m_{ACA} = 10.2$ mag. The bright-end limit for monitor star photometry is $m_{ACA}=6.2$ 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. Using one monitor slot represents a 15 - 25% increase in the aspect image reconstruction RMS diameter, depending on the particular guide star configuration. 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	201074	Sequence number
obs_id	17765	Observation id
title	Heating the Primordial Soup: X-raying the Circumstellar Disk of RY Lupi	Proposal title
observer	David Principe	Principal investigator
object	RY Lup	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	239.868333	Observer's specified target RA [deg]
dec_targ	-40.364222	Observer's specified target Dec [deg]
ra_nom	239.86739841282	Nominal RA [deg]
dec_nom	-40.361770842404	Nominal Dec [deg]
roll_nom	33.15602663599	Nominal Roll [deg]
revision	1	Processing version of data
ontime	62031.000477195	Sum of GTIs [s]
livetime	61220.519789402	Livetime [s]
ontime5	62031.000477195	Sum of GTIs [s]
ontime6	62027.859417081	Sum of GTIs [s]
ontime7	62031.000477195	Sum of GTIs [s]
ontime8	62031.000477195	Sum of GTIs [s]
l2events	566233	Number of level 2 events

