V&V Summary Report
L2 ASCDS Version : 10.3.3

Observation 17320 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Feb 28 2015

See axaff17320N001_VV001_vvref2.pdf for the full report

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.03.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.8145

Comments

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Joint proposal with HST.
Observation coordinated with HST.
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.
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seq_num	201020	Sequence number
obs_id	17320	Observation id
title	The MUSCLES Treasury Survey: Measurements of the Ultraviolet Spectral Characteristics of Low-mass Exoplanetary Systems	Proposal title
observer	Dr. Kevin France	Principal investigator
object	GJ176	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	70.735417	Observer's specified target RA [deg]
dec_targ	18.953528	Observer's specified target Dec [deg]
ra_nom	70.739598373235	Nominal RA [deg]
dec_nom	18.949790703286	Nominal Dec [deg]
roll_nom	277.89535513709	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9814.5	Sum of GTIs [s]
livetime	9553.1264600529	Livetime [s]
ontime7	9814.5	Sum of GTIs [s]
l2events	8382	Number of level 2 events