

# V&V Summary Report

## L2 ASCDS Version : 8.4.5

Observation 13816 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Nov 27 2014

See axaff13816N002\_VV001\_vvref2.pdf for the full report

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	74.071400569677

## Comments

Joint proposal with HST.

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.

seq_num	600995	Sequence number
obs_id	13816	Observation id
title	M51: Using the Kinematics of a Grand-Design Spiral to Understand the Physics of the Hot ISM, SNRs, and XRBs	Proposal title
observer	Dr. K.D. Kuntz	Principal investigator
object	M51	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	202.5	Observer's specified target RA [deg]
dec_targ	47.2	Observer's specified target Dec [deg]
ra_nom	202.51814607733	Nominal RA [deg]
dec_nom	47.183226423332	Nominal Dec [deg]
roll_nom	335.00606164132	Nominal Roll [deg]
revision	2	Processing version of data
ontime	74071.400569677	Sum of GTIs [s]
livetime	73103.603190663	Livetime [s]
ontime5	74071.400569677	Sum of GTIs [s]
ontime6	74068.25957948	Sum of GTIs [s]
ontime7	74071.400569677	Sum of GTIs [s]
ontime8	74071.400569677	Sum of GTIs [s]
l2events	658356	Number of level 2 events

