

# V&V Summary Report

## L2 ASCDS Version : 10.9.1

Observation 5554 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Oct 9 2020

See [axaff05554N004\\_VV001\\_vvref2.pdf](#) for the full report

V&V Scientist	David Principe
V&V Date (YYYY-MM-DD)	2020.10.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.1814004

## Comments

HETG is inserted as a filter; there is very little useful gratings information in the observation. The zeroth order position used in the grating extraction is NOT at the position of the pulsar, but is near a bright emission knot to the NE, on the outer ring circumscribing the pulsar. The dispersed spectrum only contains data for the meg +1 order between 1-2 A. The pulsar is near the edge of the read portion of the detector. Broad east/west streak in Level 2 data is instrumental, due to the fact that the spacecraft dither during this observation was only 1 arcsec. Aim point located 30 arcsec east of the pulsar, as requested by the observer.

seq_num	500543	Sequence number
obs_id	5554	Observation id
title	Monitoring of the Relativistic Magnetohydrodynamic Shock in the Crab Nebula	Proposal title
observer	Dr Koji Mori	Principal investigator
object	Crab Nebula	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.640417	Observer's specified target RA [deg]
dec_targ	22.016472	Observer's specified target Dec [deg]
ra_nom	83.645475186749	Nominal RA [deg]
dec_nom	22.026945050121	Nominal Dec [deg]
roll_nom	93.280068960638	Nominal Roll [deg]
revision	4	Processing version of data
ontime	10181.400404572	Sum of GTIs [s]
livetime	8956.1931778435	Livetime [s]
ontime7	10181.400404572	Sum of GTIs [s]
l2events	1118217	Number of level 2 events

