

# V&V Summary Report

## L2 ASCDS Version : 8.4.5

Observation 1790 - L2 Version 5  
Chandra X-Ray Center

L2 Processing Date : Aug 31 2012

See axaff01790N003\_VV001\_vvref2.pdf for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.09.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.158

## Comments

This is an off-axis calibration observation. The PSF is significantly extended. The source position from `tgdetect` is the centroid of the zeroth order emission, and is not the brightest point. This may or may not be appropriate, depending on the desired analysis.

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This calibration observation was acquired with the focal plane temperature raised from -120C to -110C, for attempted recalibration of ACIS for the 1999-09-16 through 2000-01-28 period. The current reprocessing of the data applies no charge-transfer inefficiency (CTI) adjustment to the data because the ACIS CTI adjustment has not been calibrated at this temperature. However, if the observation includes one or both back-illuminated CCDs ACIS-S1 and ACIS-S3, then a time-dependent gain adjustment is applied to the data for these CCDs.

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Several bad pixels are not removed in the Level 2 event data. Two of these bad pixels fall on the dispersed spectral order. These bad pixels mimic the dither pattern and thus affect an array of pixels in the event data.

seq_num	390008	Sequence number
obs_id	1790	Observation id
title	GRATINGS CALIBRATION OBSERVATIONS OF PKS2155-304	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	PKS2155-304	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	329.716667	Observer's specified target RA [deg]
dec_targ	-30.225556	Observer's specified target Dec [deg]
ra_nom	329.62079393781	Nominal RA [deg]
dec_nom	-30.273558738753	Nominal Dec [deg]
roll_nom	29.173714578247	Nominal Roll [deg]
revision	5	Processing version of data
ontime	21156.857514039	Sum of GTIs [s]
livetime	20888.956645066	Livetime [s]
ontime4	21153.739663795	Sum of GTIs [s]
ontime5	21156.898554027	Sum of GTIs [s]
ontime6	21156.857514039	Sum of GTIs [s]
ontime7	21156.93959403	Sum of GTIs [s]
ontime8	21156.816503957	Sum of GTIs [s]
ontime9	21156.775414094	Sum of GTIs [s]
l2events	282695	Number of level 2 events

