

# V&V Summary Report

## L2 ASCDS Version : 8.4.5

Observation 371 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Aug 31 2012

See [axaff00371N002-VV001\\_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.08.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	48.283

## Comments

Slightly extended source.

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An instrument anomaly occurred during this observation. A condition called 'T-plane latchup' in ACIS caused 2 CCD chips (4 and 6) to be off for the entire observation. The chips affected have zero counts from the astronomical source, although predicted bright pixels can be seen on a displayed image as squares mapping the telescope dithering of the positions of the hot pixels. The positive spectral orders are not affected by the anomaly, because they fall on chips 7, 8, and 9. The negative spectral orders have little coverage due to the anomaly on chips 4 and 6. An additional anomaly is that the effective exposure on chips 8 and 9 is low (36 and 35 ks), caused by a large number of dropped frames. Due to these problems, this observation was redone as ObsID 2417.

seq_num	700043	Sequence number
obs_id	371	Observation id
title	ACIS STUDY OF GRAVITATIONALLY LENSED QUASARS	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	PKS 1830-211	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	278.416417	Observer's specified target RA [deg]
dec_targ	-21.061028	Observer's specified target Dec [deg]
ra_nom	278.4103684293	Nominal RA [deg]
dec_nom	-21.052807056504	Nominal Dec [deg]
roll_nom	135.05445461384	Nominal Roll [deg]
revision	4	Processing version of data
ontime	48283.200119913	Sum of GTIs [s]
livetime	47471.4385212	Livetime [s]
ontime4	9983.8536378741	Sum of GTIs [s]
ontime5	48283.200119913	Sum of GTIs [s]
ontime6	13242.677315384	Sum of GTIs [s]
ontime7	48283.200119913	Sum of GTIs [s]
ontime8	36048.976751566	Sum of GTIs [s]
ontime9	35470.463326275	Sum of GTIs [s]
l2events	291679	Number of level 2 events

