

V&V Summary Report

L2 ASCDS Version : 10.3.3

Observation 16694 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : May 24 2015

See [axaff16694N001_VV001_vvref2.pdf](#) for the full report

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.05.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	80.50475

Comments

As of November 1, 2009, events with a flight grade of 66 were added to the telemetry stream for continuous-clocking mode observations because it was found that a significant fraction of real X-ray events have this flight grade in this mode. To prevent these events from being discarded from Level 2 event files, the CALDB grade file was modified to change the 'ASCA' grade for these events from 7 (a bad grade) to 2 (a good grade). The new grade file has been used in standard pipeline processing for code versions DS 10.3 and later (i.e. 2014 Oct 30 and later). Since the calibration products for continuous-clocking mode observations are appropriate for data that includes flight grade 66 events, data obtained on or after 2009 Nov 1, but that were processed using an earlier version of the pipeline code, should be reprocessed with CIAO using version 4.7 (i.e. 2014 December) or later. Note that it is not possible to fix the data obtained before 2009 Nov 1. Since these earlier continuous-clocking observations are not calibrated at present, spectral analyses of these data may yield inaccurate results.

===

For ACIS/CC-mode w/ HETG, at with no SIM-Z offset, there are no MEG even order counts. MEG even orders overlap with HEG orders in energy, but MEG even order efficiencies are very low. Since HEG and MEG cannot be spatially separated, events are preferentially assigned to HEG. (MEG odd

orders can be resolved.) For observations with a SIM-Z offset, MEG negative and MEG positive orders will be missing (off the array), and remove some of the ambiguity.

seq_num	401616	Sequence number
obs_id	16694	Observation id
title	Hunting for discrete spectral features in the Rapid Burster	Propos
observer	Dr. Jelle Kaastra	Principal investigator
object	MXB 1730-335	Source name
ra_targ	263.3525	Observer's specified target RA [deg]
dec_targ	-33.388861	Observer's specified target Dec [deg]
ra_nom	263.34534422477	Nominal RA [deg]
dec_nom	-33.393571957287	Nominal Dec [deg]
roll_nom	65.254212156095	Nominal Roll [deg]
revision	1	Processing version of data
ontime	80504.75	Sum of GTIs [s]
livetime	80190.278320312	Livetime [s]
ontime5	80504.75	Sum of GTIs [s]
ontime6	80504.75	Sum of GTIs [s]
ontime7	80504.75	Sum of GTIs [s]
ontime8	80504.75	Sum of GTIs [s]
ontime9	80504.75	Sum of GTIs [s]
l2events	4153700	Number of level 2 events

