

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 61912 - L2 Version 001
Chandra X-Ray Center

L2 Processing Date : Jun 8 2007

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Star Slots	6
2.4	FID Slots	6
A	Summary	7
A.1	Status	7
A.2	Comments	7

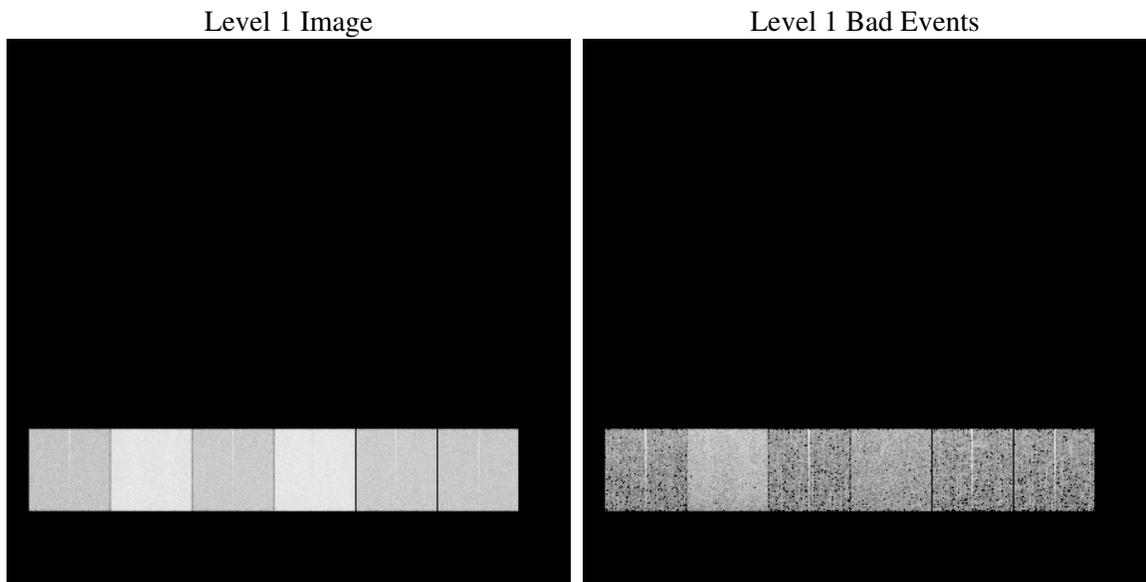
1 Front

seq_num	
obs_id	61912
title	ACIS-456789 diagnostics
observer	CHANDRA engineering request/realtime commanding
object	
dtcycle	0
cycle	P
ra_targ	0.0
dec_targ	0.0
ra_nom	15.778262179888
dec_nom	24.37161863243
roll_nom	144.32245839579
revision	2
ontime	4903.3904742897
livetime	4841.3007916369
ontime4	2074.1068845242
ontime5	5305.3111912906
ontime6	2268.5281343758
ontime7	4903.3904742897
ontime8	2284.8152947426
ontime9	2190.6200446486
l2events	1358113

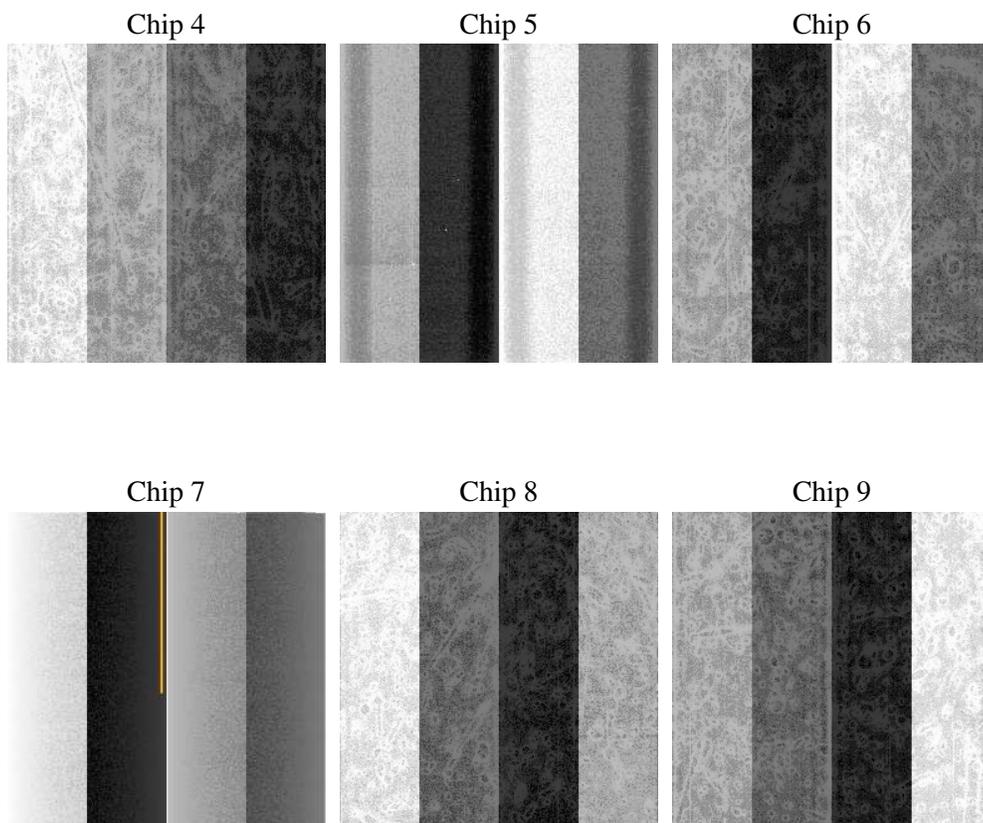
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldbver	3.4.0
date	2007-06-08T15:25:21
revision	2

sched_exp_time	0.0
ontime	4903.3904742897
ontime4	2074.1068845242
ontime5	5305.3111912906
ontime6	2268.5281343758
ontime7	4903.3904742897
ontime8	2284.8152947426
ontime9	2190.6200446486
l1events	1554336

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	169622	393834	197584	406581	201612	185103
rejected events	18811	40322	18529	24472	19604	18056
rejected %	11%	10%	9%	6%	9%	9%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	82087	78211	96723	97780	100168	90753
	48%	19%	48%	24%	49%	49%
grade 1 events	406	263	413	284	463	450
	0%	0%	0%	0%	0%	0%
grade 2 events	30666	135329	32758	83680	32876	30869
	18%	34%	16%	20%	16%	16%
grade 3 events	8596	20762	10495	39233	11035	10012
	5%	5%	5%	9%	5%	5%
grade 4 events	8491	20177	10538	38200	11156	9868
	5%	5%	5%	9%	5%	5%
grade 5 events	1308	7982	1447	5475	1525	1376
	0%	2%	0%	1%	0%	0%
grade 6 events	20971	99033	28541	123378	26773	25674
	12%	25%	14%	30%	13%	13%
grade 7 events	17097	32077	16669	18551	17616	16101
	10%	8%	8%	4%	8%	8%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
Pointing RA	0	15.77826217988827	Alternating exposures requested	N	N
Pointing Dec	0	24.37161863242964	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	144.3224583957852			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.8505141146731063			
SIM translation stage pos (mm)	-190.132523	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	85934772.17399999	85934771.406029			
Observation start date	2000-09-21T14:46:12	2000-09-21T14:46:11			
Observation end time	85945280.47499999	85945279.706424			
Observation end date	2000-09-21T17:41:20	2000-09-21T17:41:19			
Read mode	TIMED	TIMED			

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.06.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.90339047

A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the entire observation. This temperature is the upper limit of the verified ACIS calibration for the front-illuminated chips. The focal plane temperature is warmer than -116.7 degrees C for the entire observation. This temperature is the upper limit of the verified ACIS calibration for the back-illuminated chips. The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.