

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 58471 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Apr 22 2012

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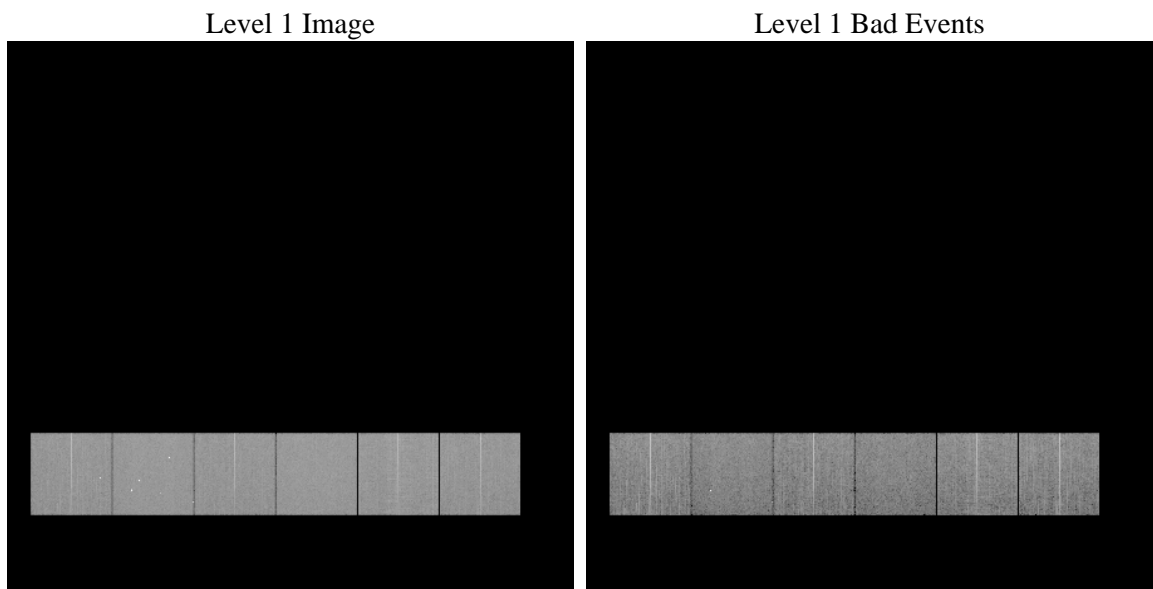
# 1 Front

seq_num	&#160	Sequence number
obs_id	58471	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA [deg]
dec_targ	0.0	Observer's specified target Dec [deg]
ra_nom	176.03116017866	Nominal RA [deg]
dec_nom	-28.586016550947	Nominal Dec [deg]
roll_nom	350.94563024675	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8212.9524492621	Sum of GTIs [s]
livetime	8108.9551001033	Livetime [s]
ontime4	8212.8293292522	Sum of GTIs [s]
ontime5	8212.9114092588	Sum of GTIs [s]
ontime6	8212.8703692555	Sum of GTIs [s]
ontime7	8212.9524492621	Sum of GTIs [s]
ontime8	8212.7882892489	Sum of GTIs [s]
ontime9	8212.9934892654	Sum of GTIs [s]
l2events	784863	Number of level 2 events

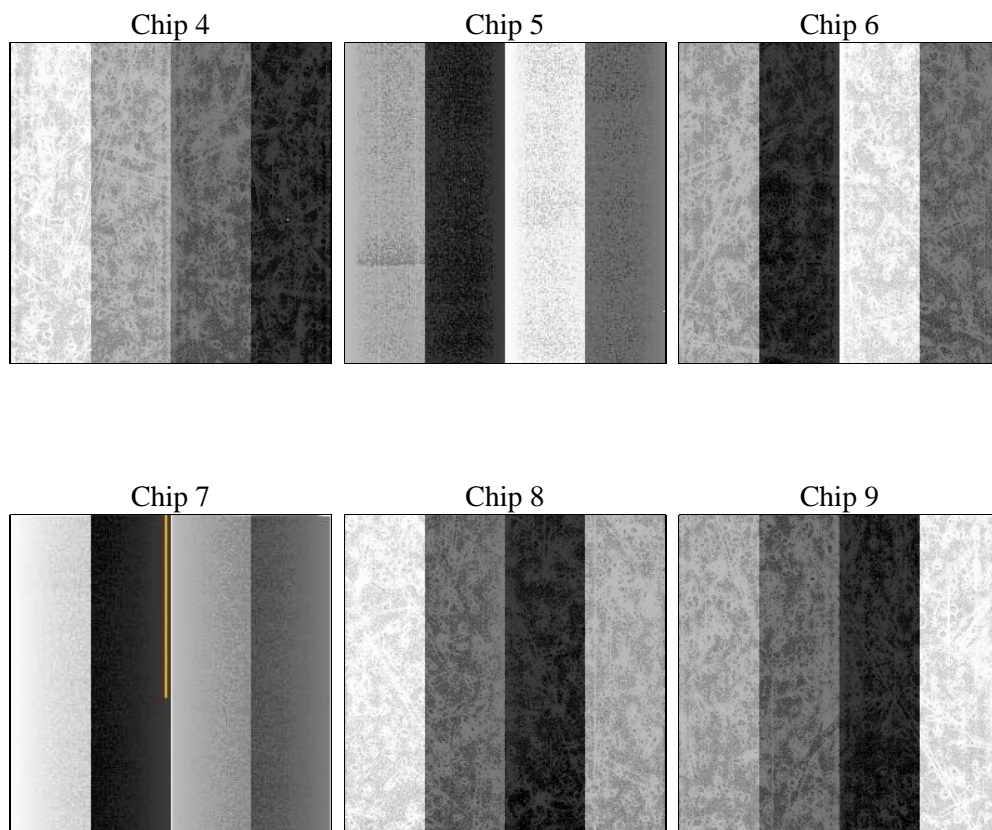
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	8212.9524492621	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime4	8212.8293292522	Sum of GTIs [s]
date	2012-04-22T04:38:37	Date and time of file creation	ontime5	8212.9114092588	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8212.8703692555	Sum of GTIs [s]
			ontime7	8212.9524492621	Sum of GTIs [s]
			ontime8	8212.7882892489	Sum of GTIs [s]
			ontime9	8212.9934892654	Sum of GTIs [s]
			l1events	1306929	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	208985	228907	208343	226898	227387	206409	grade 0 events	72744	30413	71116	34915	75608	69761
rejected events	83933	72275	76170	65452	82803	78440		34%	13%	34%	15%	33%	33%
rejected %	40%	31%	36%	28%	36%	38%	grade 1 events	652	279	424	173	476	487
								0%	0%	0%	0%	0%	0%
							grade 2 events	19922	56063	23621	35422	26344	22077
								9%	24%	11%	15%	11%	10%
							grade 3 events	8522	8233	8388	15595	10122	8577
								4%	3%	4%	6%	4%	4%
							grade 4 events	8516	7698	8432	15468	9984	8641
								4%	3%	4%	6%	4%	4%
							grade 5 events	4160	10959	4489	10709	5549	4674
								1%	4%	2%	4%	2%	2%
							grade 6 events	16306	55399	21644	61326	23581	19940
								7%	24%	10%	27%	10%	9%
							grade 7 events	78163	59863	70229	53290	75723	72252
								37%	26%	33%	23%	33%	35%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
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
[deg] Pointing RA	0	176.031160178664	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-28.58601655094659	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	350.9456302467547			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	290865290.381177	290865289.35617			
Observation start date	2007-03-21T11:54:50	2007-03-21T11:54:49			
[s] Observation end time (MET)	290888945.332303	290888944.3073			
Observation end date	2007-03-21T18:29:05	2007-03-21T18:29:04			
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)	2012.04.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2129524492621

### A.2 Comments