

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 59230 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Mar 20 2012

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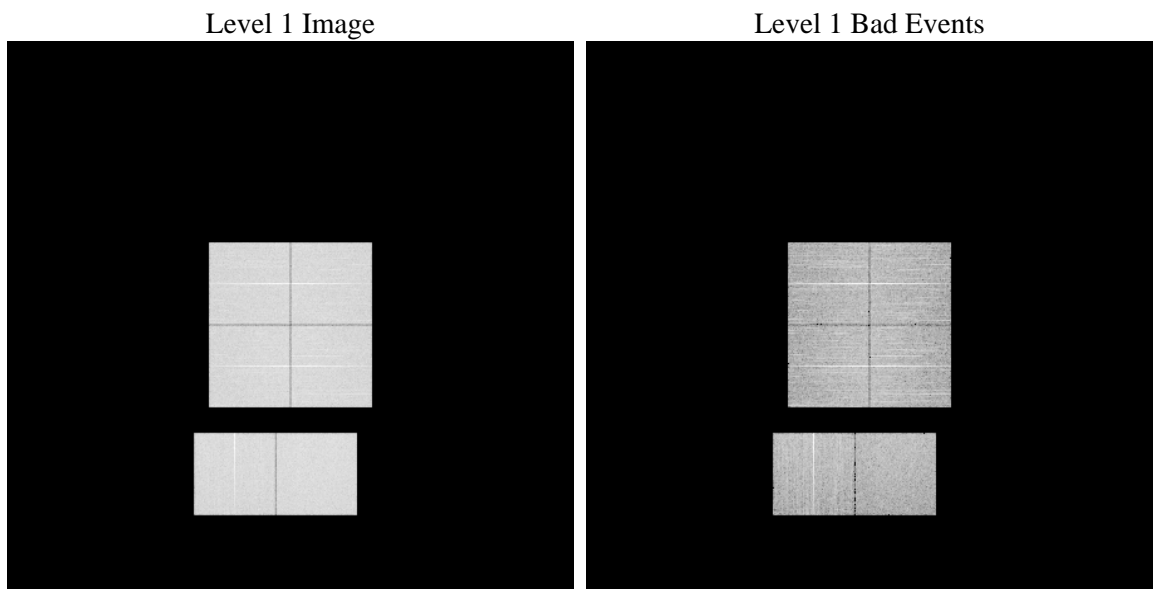
# 1 Front

seq_num	&#160	Sequence number
obs_id	59230	Observation id
title	ACIS-012367 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	81.527806970675	Nominal RA [deg]
dec_nom	-4.4864410998684	Nominal Dec [deg]
roll_nom	349.61793955291	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8197.4055290222	Sum of GTIs [s]
livetime	8093.6050443287	Livetime [s]
ontime0	8197.3644890189	Sum of GTIs [s]
ontime1	8197.3234490156	Sum of GTIs [s]
ontime2	8197.2824090123	Sum of GTIs [s]
ontime3	8194.2055787444	Sum of GTIs [s]
ontime6	8197.2413690388	Sum of GTIs [s]
ontime7	8197.4055290222	Sum of GTIs [s]
l2events	1004902	Number of level 2 events

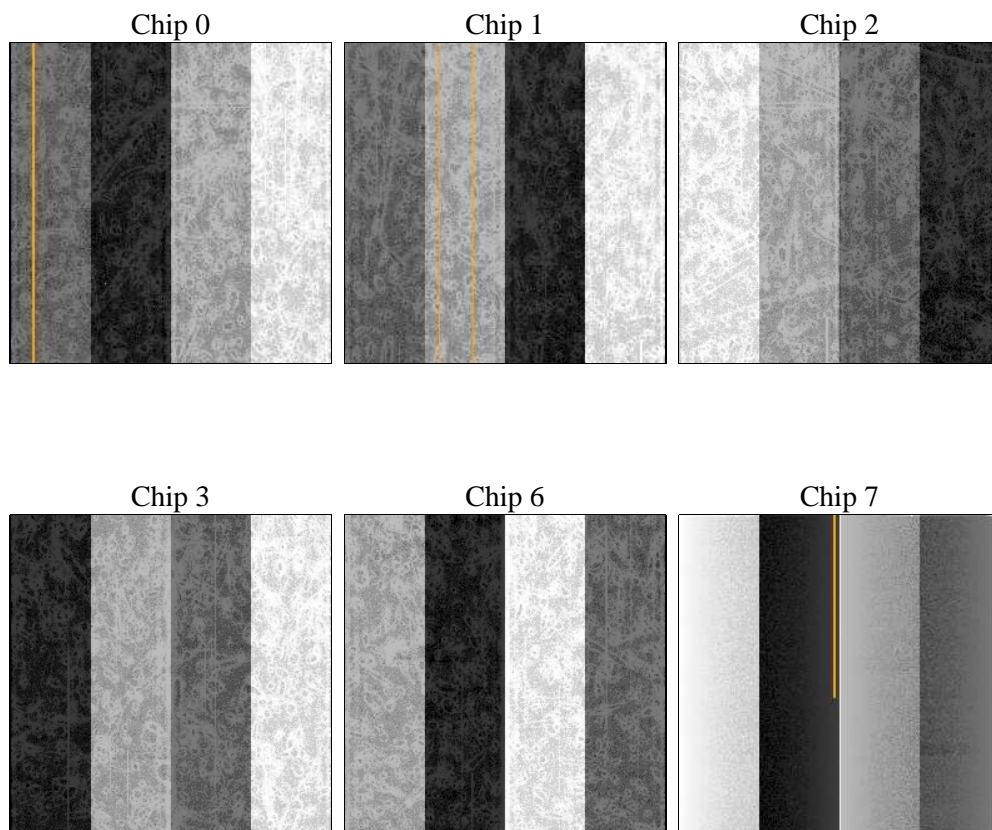
## 2 OBI

### 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	8.4.3	Processing system revision	ontime	8197.4055290222	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	8197.3644890189	Sum of GTIs [s]
date	2012-03-20T06:00:38	Date and time of file creation	ontime1	8197.3234490156	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	8197.2824090123	Sum of GTIs [s]
			ontime3	8194.2055787444	Sum of GTIs [s]
			ontime6	8197.2413690388	Sum of GTIs [s]
			ontime7	8197.4055290222	Sum of GTIs [s]
			l1events	1438461	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	231793	232936	236143	238694	244457	254438	grade 0 events	92988	93704	95735	97245	97157	45908
rejected events	62805	62483	65900	66235	66547	56746		40%	40%	40%	40%	39%	18%
rejected %	27%	26%	27%	27%	27%	22%	grade 1 events	596	497	664	635	600	174
								0%	0%	0%	0%	0%	0%
							grade 2 events	30142	30704	29228	29482	31005	43398
								13%	13%	12%	12%	12%	17%
							grade 3 events	11263	11081	11309	11567	11462	19659
								4%	4%	4%	4%	4%	7%
							grade 4 events	11123	11092	11178	11523	11192	19291
								4%	4%	4%	4%	4%	7%
							grade 5 events	3512	3700	3422	4017	4049	9473
								1%	1%	1%	1%	1%	3%
							grade 6 events	25200	25549	24554	24342	28920	71474
								10%	10%	10%	10%	11%	28%
							grade 7 events	56969	56609	60053	59883	60072	45061
								24%	24%	25%	25%	24%	17%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	81.52780697067467	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-4.48644109986839	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	349.6179395529055			
[mm] SIM focus pos	-0.782348	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-233.592463	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	251338258.62647	251338257.60148			
Observation start date	2005-12-19T00:10:59	2005-12-19T00:10:57			
[s] Observation end time (MET)	251362165.727586	251362164.70258			
Observation end date	2005-12-19T06:49:26	2005-12-19T06:49:24			
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)	2012.03.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1974055290222

### A.2 Comments