

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60187 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 3 2012

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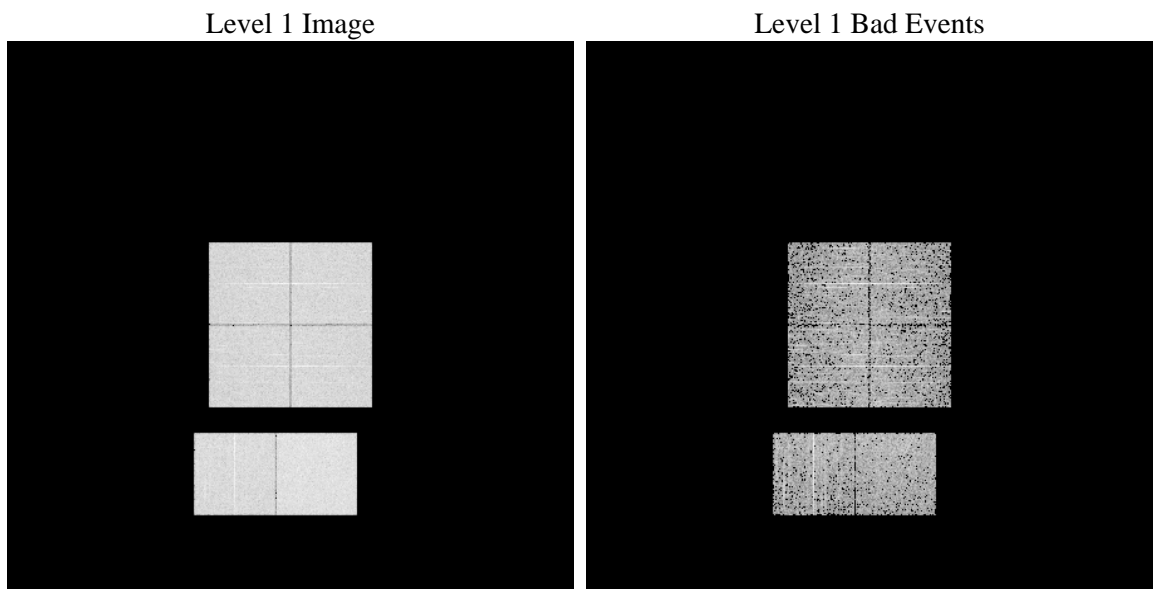
# 1 Front

seq_num	&#160	Sequence number
obs_id	60187	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	257.0189587614	Nominal RA [deg]
dec_nom	-26.020825582712	Nominal Dec [deg]
roll_nom	282.08964739838	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2774.1183351874	Sum of GTIs [s]
livetime	2738.9907784538	Livetime [s]
ontime0	2135.6043097973	Sum of GTIs [s]
ontime1	2232.7930466533	Sum of GTIs [s]
ontime2	2054.4975138605	Sum of GTIs [s]
ontime3	2135.6864894927	Sum of GTIs [s]
ontime6	2291.048263222	Sum of GTIs [s]
ontime7	2774.1183351874	Sum of GTIs [s]
l2events	404261	Number of level 2 events

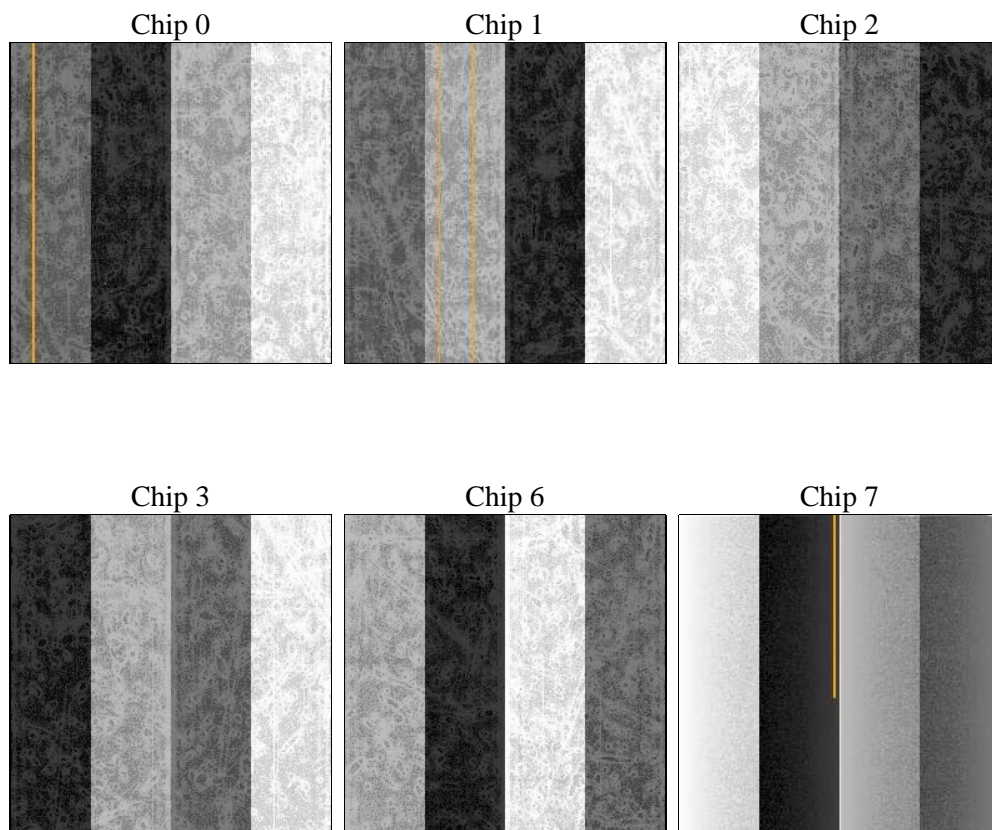
## 2 OBI

### 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	8.4.5	Processing system revision	ontime	2774.1183351874	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	2135.6043097973	Sum of GTIs [s]
date	2012-12-03T11:54:57	Date and time of file creation	ontime1	2232.7930466533	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	2054.4975138605	Sum of GTIs [s]
			ontime3	2135.6864894927	Sum of GTIs [s]
			ontime6	2291.048263222	Sum of GTIs [s]
			ontime7	2774.1183351874	Sum of GTIs [s]
			l1events	519749	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	79510	81759	79082	80909	90173	108316	grade 0 events	35245	36776	35055	36870	39792	22258
rejected events	15259	14686	16388	15542	17083	16636		44%	44%	44%	45%	44%	20%
rejected %	19%	17%	20%	19%	18%	15%	grade 1 events	208	169	239	227	167	64
								0%	0%	0%	0%	0%	0%
							grade 2 events	11315	11820	10562	11059	12569	20012
								14%	14%	13%	13%	13%	18%
							grade 3 events	4177	4284	3968	4259	4562	9199
								5%	5%	5%	5%	5%	8%
							grade 4 events	4094	4164	4247	4192	4523	9023
								5%	5%	5%	5%	5%	8%
							grade 5 events	947	1044	918	1068	1093	2910
								1%	1%	1%	1%	1%	2%
							grade 6 events	9420	10029	8862	8987	11644	31188
								11%	12%	11%	11%	12%	28%
							grade 7 events	14104	13473	15231	14247	15823	13662
								17%	16%	19%	17%	17%	12%

## 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	257.0189587613951	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-26.02082558271218	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	282.0896473983756			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.7524282956875696			
[mm] SIM translation stage pos	-233.592463	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	204010839.231449	204010838.20642			
Observation start date	2004-06-19T05:40:39	2004-06-19T05:40:38			
[s] Observation end time (MET)	204025482.382098	204025481.35707			
Observation end date	2004-06-19T09:44:42	2004-06-19T09:44:41			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.12.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.7741183351874

### A.2 Comments