

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60161 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 3 2012

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# 1 Front

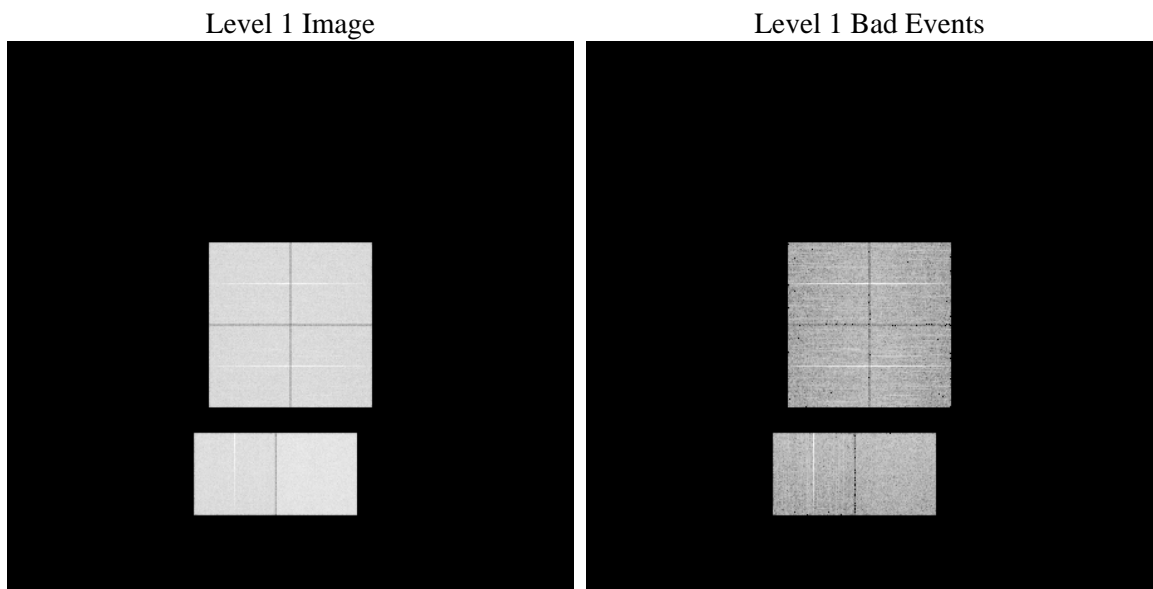
seq_num	&#160	Sequence number
obs_id	60161	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA [deg]
dec_targ	0.0	Observer's specified target Dec [deg]
ra_nom	324.97606770062	Nominal RA [deg]
dec_nom	-9.9837569123757	Nominal Dec [deg]
roll_nom	112.5309521349	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8283.5704417229	Sum of GTIs [s]
livetime	8178.6788850225	Livetime [s]
ontime0	6277.4482669532	Sum of GTIs [s]
ontime1	6407.1289453506	Sum of GTIs [s]
ontime2	6102.5176026225	Sum of GTIs [s]
ontime3	6102.3530841768	Sum of GTIs [s]
ontime6	6648.1080462039	Sum of GTIs [s]
ontime7	8283.5704417229	Sum of GTIs [s]
l2events	1160143	Number of level 2 events



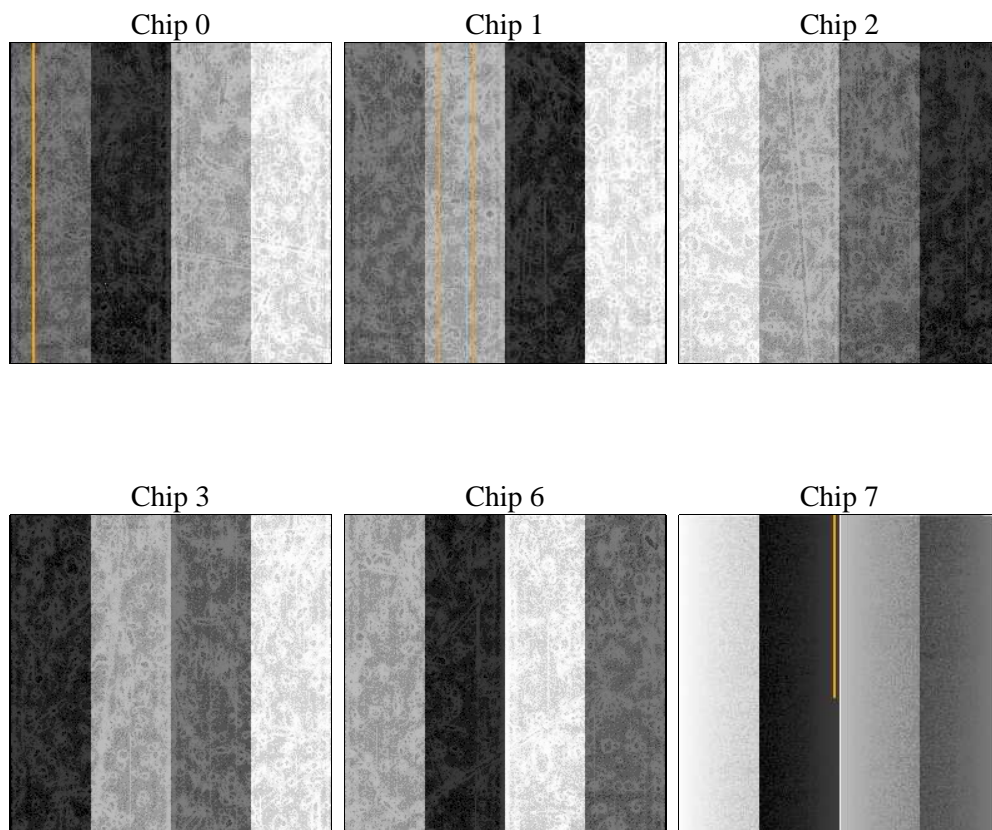
## 2 OBI

### 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	8283.5704417229	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	6277.4482669532	Sum of GTIs [s]
date	2012-12-03T15:01:47	Date and time of file creation	ontime1	6407.1289453506	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	6102.5176026225	Sum of GTIs [s]
			ontime3	6102.3530841768	Sum of GTIs [s]
			ontime6	6648.1080462039	Sum of GTIs [s]
			ontime7	8283.5704417229	Sum of GTIs [s]
			l1events	1500352	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	230565	234779	228360	229398	256010	321240	grade 0 events	101790	103887	102704	102796	112251	64776
rejected events	45197	45218	45837	46918	49719	50864		44%	44%	44%	44%	43%	20%
rejected %	19%	19%	20%	20%	19%	15%	grade 1 events	597	537	638	641	586	199
								0%	0%	0%	0%	0%	0%
							grade 2 events	32243	33750	30315	30784	35722	59318
								13%	14%	13%	13%	13%	18%
							grade 3 events	12071	12005	12088	11831	12739	26722
								5%	5%	5%	5%	4%	8%
							grade 4 events	12133	11946	11819	11857	12675	26588
								5%	5%	5%	5%	4%	8%
							grade 5 events	2820	2963	2696	3022	3207	9159
								1%	1%	1%	1%	1%	2%
							grade 6 events	27131	27973	25597	25212	33006	92972
								11%	11%	11%	10%	12%	28%
							grade 7 events	41780	41718	42503	43255	45824	41506
								18%	17%	18%	18%	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	324.9760677006231	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-9.983756912375711	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	112.5309521348999			
[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)	204732146.113365	204732145.08837			
Observation start date	2004-06-27T14:02:26	2004-06-27T14:02:25			
[s] Observation end time (MET)	204753455.864309	204753454.83931			
Observation end date	2004-06-27T19:57:36	2004-06-27T19:57:34			
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	8.2835704417229

### A.2 Comments