

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60163 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Dec 3 2012

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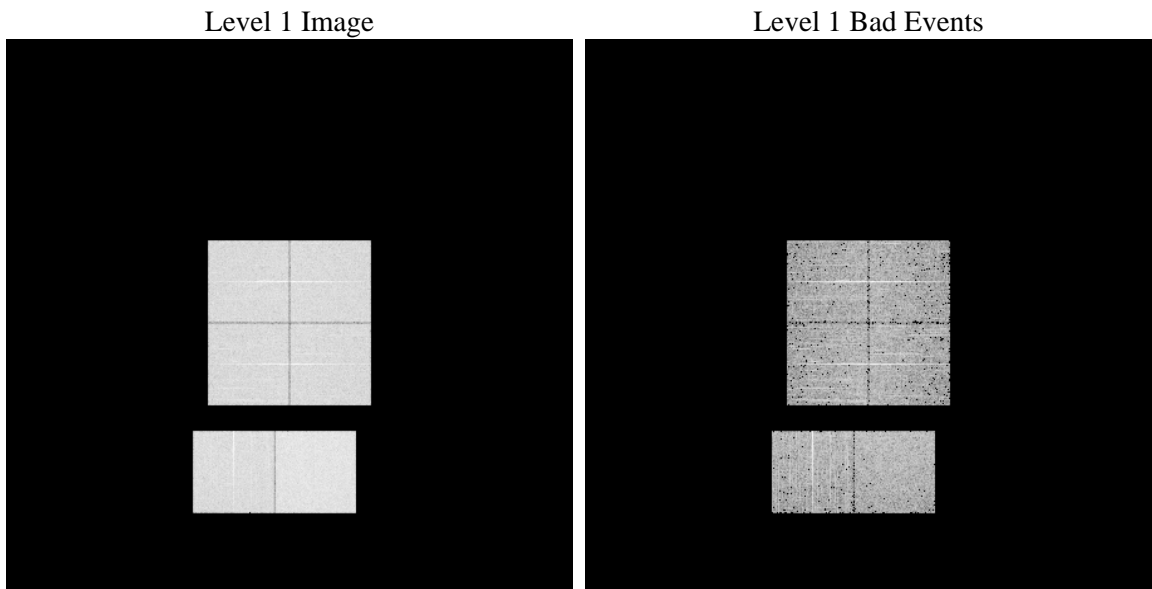
# 1 Front

seq_num	&#160	Sequence number
obs_id	60163	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	305.01675246744	Nominal RA [deg]
dec_nom	-60.97256240031	Nominal Dec [deg]
roll_nom	40.782678678294	Nominal Roll [deg]
revision	4	Processing version of data
ontime	4246.0932295322	Sum of GTIs [s]
livetime	4192.3266403695	Livetime [s]
ontime0	3325.6145972908	Sum of GTIs [s]
ontime1	3338.2464881837	Sum of GTIs [s]
ontime2	3185.9201572239	Sum of GTIs [s]
ontime3	3185.9202560186	Sum of GTIs [s]
ontime6	3409.7566362023	Sum of GTIs [s]
ontime7	4246.0932295322	Sum of GTIs [s]
l2events	606703	Number of level 2 events

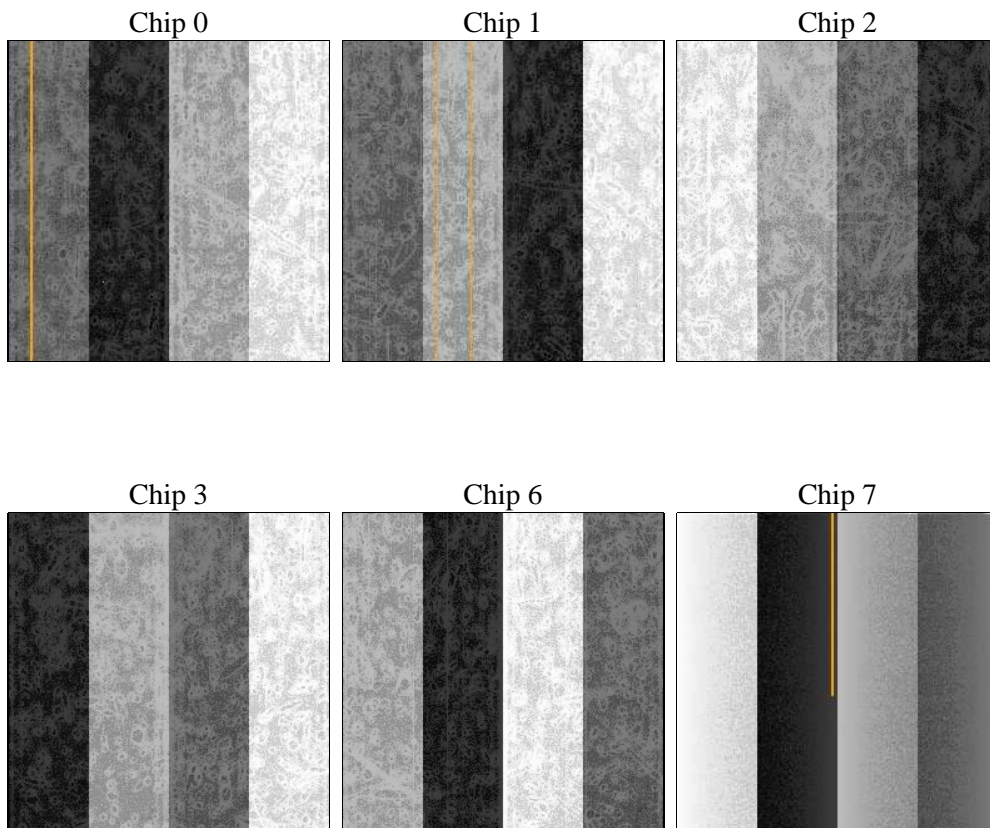
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2880	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4246.0932295322	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	3325.6145972908	Sum of GTIs [s]
date	2012-12-03T14:42:41	Date and time of file creation	ontime1	3338.2464881837	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	3185.9201572239	Sum of GTIs [s]
			ontime3	3185.9202560186	Sum of GTIs [s]
			ontime6	3409.7566362023	Sum of GTIs [s]
			ontime7	4246.0932295322	Sum of GTIs [s]
			l1events	792379	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	122630	123349	121655	121531	135515	167699	grade 0 events	54721	54907	53851	54508	58377	34701
rejected events	23812	23918	25991	25545	28381	28193		44%	44%	44%	44%	43%	20%
rejected %	19%	19%	21%	21%	20%	16%	grade 1 events	300	265	348	343	292	138
								0%	0%	0%	0%	0%	0%
							grade 2 events	17531	18098	16484	16636	18945	31206
								14%	14%	13%	13%	13%	18%
							grade 3 events	6565	6459	6424	6436	6831	14238
								5%	5%	5%	5%	5%	8%
							grade 4 events	6562	6434	6429	6329	6873	14148
								5%	5%	5%	5%	5%	8%
							grade 5 events	1464	1528	1456	1606	1747	4832
								1%	1%	1%	1%	1%	2%
							grade 6 events	14779	14921	13618	13358	17462	47166
								12%	12%	11%	10%	12%	28%
							grade 7 events	20708	20737	23045	22315	24988	21270
								16%	16%	18%	18%	18%	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	OVERRIDE	OVERRIDE
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	305.0167090766426	305.0167524674387	Subarray requested	NONE	NONE
[deg] Pointing Dec	-60.9725805197877	-60.97256240030957	Alternating exposures requested	N	N
[deg] Pointing Roll	40.78264073038451	40.78267867829435	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-0.68282252473119	-0.68282252473119			
[mm] SIM defocus	0.8505140384245534	0.8505140384245534			
[mm] SIM translation stage pos	250.4660330802	250.4660330802			
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584			
[s] Observation start time (MET)	204694534.761699	204694534.761699			
Observation start date	2004-06-27T04:04:00	2004-06-27T03:35:34			
[s] Observation end time (MET)	204700552.706486	204700552.706486			
Observation end date	2004-06-27T04:52:00	2004-06-27T05:15:52			
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	4.2460932295322

### A.2 Comments