

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60243 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Nov 30 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Star Slots . . . . .	6
2.4	FID Slots . . . . .	6
<b>A</b>	<b>Summary</b>	<b>7</b>
A.1	Status . . . . .	7
A.2	Comments . . . . .	7

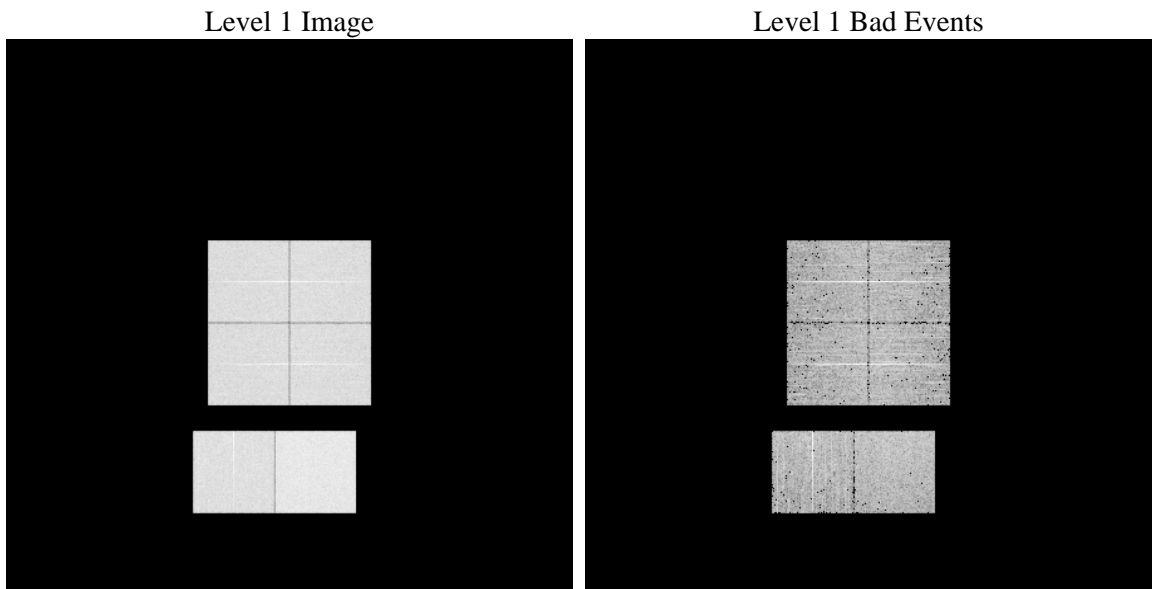
# 1 Front

seq_num	&#160	Sequence number
obs_id	60243	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	219.98528068267	Nominal RA [deg]
dec_nom	-7.024639036252	Nominal Dec [deg]
roll_nom	206.32231795669	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5833.0961936414	Sum of GTIs [s]
livetime	5759.2340173687	Livetime [s]
ontime0	4332.4841326475	Sum of GTIs [s]
ontime1	4342.1654062569	Sum of GTIs [s]
ontime2	4158.2258327305	Sum of GTIs [s]
ontime3	4145.262052834	Sum of GTIs [s]
ontime6	4474.9639251232	Sum of GTIs [s]
ontime7	5833.0961936414	Sum of GTIs [s]
l2events	837774	Number of level 2 events

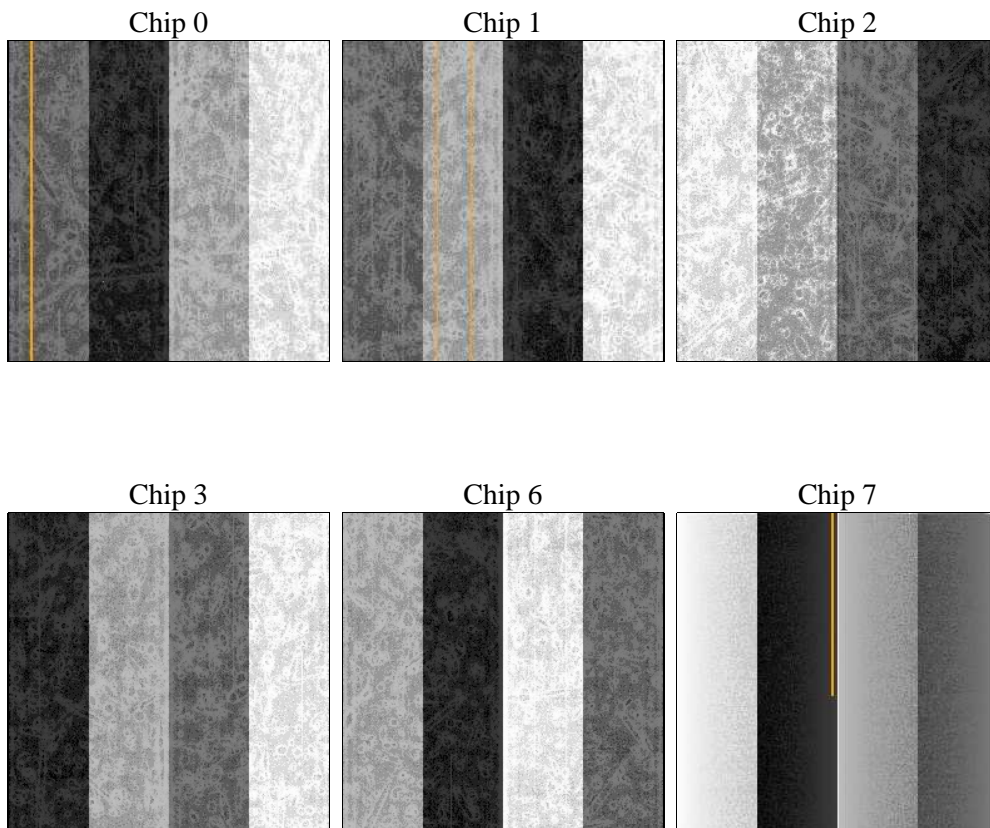
## 2 OBI

### 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	5833.0961936414	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime0	4332.4841326475	Sum of GTIs [s]
date	2012-12-01T00:32:22	Date and time of file creation	ontime1	4342.1654062569	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4158.2258327305	Sum of GTIs [s]
			ontime3	4145.262052834	Sum of GTIs [s]
			ontime6	4474.9639251232	Sum of GTIs [s]
			ontime7	5833.0961936414	Sum of GTIs [s]
			l1events	1065203	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	163709	165899	160522	162545	178979	233549	grade 0 events	74015	73821	73418	73277	79312	48530
rejected events	28487	30270	29415	31702	32442	34100		45%	44%	45%	45%	44%	20%
rejected %	17%	18%	18%	19%	18%	14%	grade 1 events	421	367	431	458	423	150
								0%	0%	0%	0%	0%	0%
							grade 2 events	23693	24242	22024	22419	25256	44114
								14%	14%	13%	13%	14%	18%
							grade 3 events	8804	8759	8597	8422	9084	19995
								5%	5%	5%	5%	5%	8%
							grade 4 events	8946	8602	8570	8572	9240	19675
								5%	5%	5%	5%	5%	8%
							grade 5 events	1949	1916	1774	1946	2198	6180
								1%	1%	1%	1%	1%	2%
							grade 6 events	19764	20205	18498	18153	23645	67135
								12%	12%	11%	11%	13%	28%
							grade 7 events	26117	27987	27210	29298	29821	27770
								15%	16%	16%	18%	16%	11%

## 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	219.9852806826693	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-7.024639036252039	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	206.3223179566887			
[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)	200357585.320021	200357584.29499			
Observation start date	2004-05-07T22:53:05	2004-05-07T22:53:04			
[s] Observation end time (MET)	200371045.620615	200371044.59558			
Observation end date	2004-05-08T02:37:26	2004-05-08T02:37:24			
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)	2012.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.8330961936414

### A.2 Comments