

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60416 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Nov 10 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

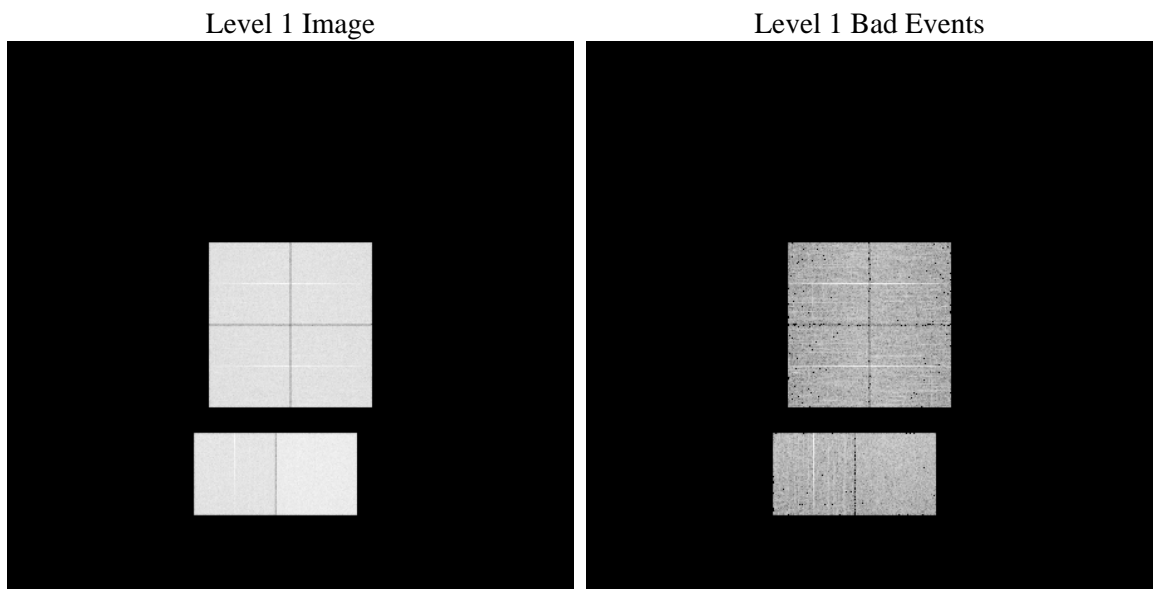
# 1 Front

seq_num	&#160	Sequence number
obs_id	60416	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	124.00060511091	Nominal RA [deg]
dec_nom	13.028602148686	Nominal Dec [deg]
roll_nom	55.985392932569	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8467.1026881337	Sum of GTIs [s]
livetime	8359.8871356194	Livetime [s]
ontime0	5974.751098305	Sum of GTIs [s]
ontime1	6065.4583232105	Sum of GTIs [s]
ontime2	5778.737973541	Sum of GTIs [s]
ontime3	5819.2661864161	Sum of GTIs [s]
ontime6	6242.1978316009	Sum of GTIs [s]
ontime7	8467.1026881337	Sum of GTIs [s]
l2events	1259682	Number of level 2 events

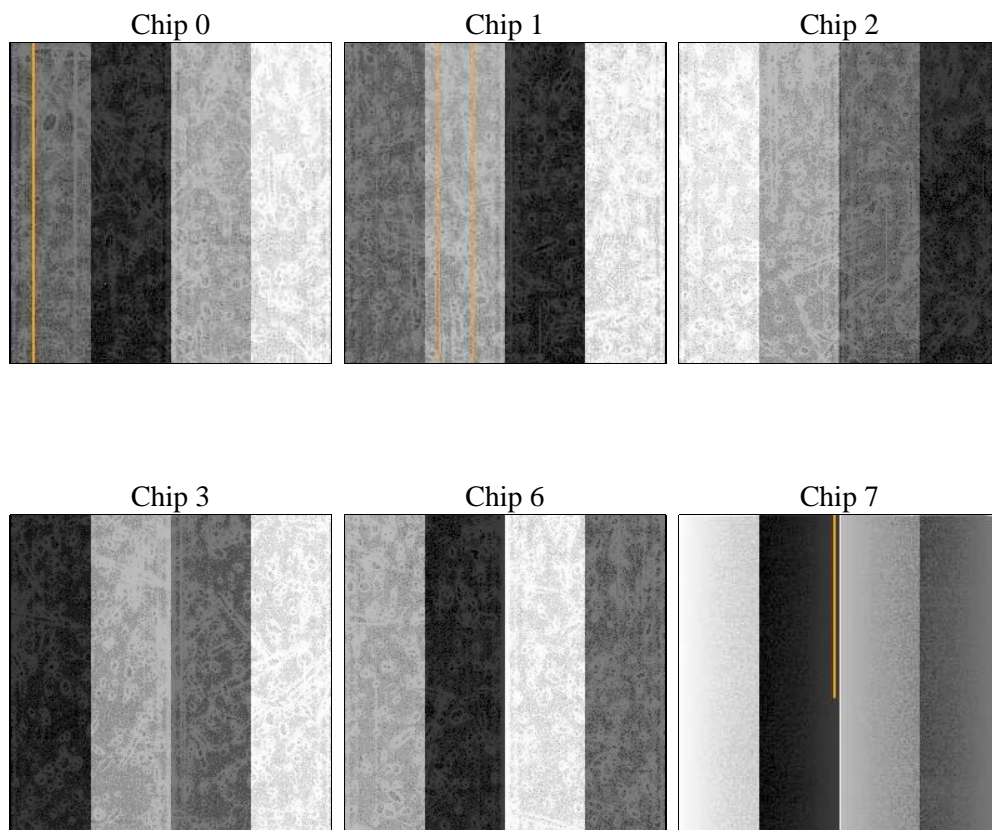
## 2 OBI

### 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	8467.1026881337	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	5974.751098305	Sum of GTIs [s]
date	2012-11-10T08:42:07	Date and time of file creation	ontime1	6065.4583232105	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	5778.737973541	Sum of GTIs [s]
			ontime3	5819.2661864161	Sum of GTIs [s]
			ontime6	6242.1978316009	Sum of GTIs [s]
			ontime7	8467.1026881337	Sum of GTIs [s]
			l1events	1536996	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	235119	239141	229233	233354	257953	342196	grade 0 events	110504	111999	109676	111385	120014	74794
rejected events	34970	34720	33766	35130	37574	40907		46%	46%	47%	47%	46%	21%
rejected %	14%	14%	14%	15%	14%	11%	grade 1 events	596	507	582	589	529	206
								0%	0%	0%	0%	0%	0%
							grade 2 events	35000	36290	33040	33809	37852	66592
								14%	15%	14%	14%	14%	19%
							grade 3 events	12850	12980	12905	12991	13709	30221
								5%	5%	5%	5%	5%	8%
							grade 4 events	12884	13037	12735	12828	13747	30008
								5%	5%	5%	5%	5%	8%
							grade 5 events	2486	2495	2210	2383	2711	7778
								1%	1%	0%	1%	1%	2%
							grade 6 events	29009	30232	27111	27211	35057	99784
								12%	12%	11%	11%	13%	29%
							grade 7 events	31790	31601	30974	32158	34334	32813
								13%	13%	13%	13%	13%	9%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	124.000605110912
[deg] Pointing Dec	0	13.02860214868596
[deg] Pointing Roll	0.0	55.98539293256938
[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)	189884177.910475	189884176.88576
Observation start date	2004-01-07T17:36:18	2004-01-07T17:36:16
[s] Observation end time (MET)	189906707.411455	189906706.38675
Observation end date	2004-01-07T23:51:47	2004-01-07T23:51:46
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4671026881337

### A.2 Comments