

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60484 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Nov 8 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

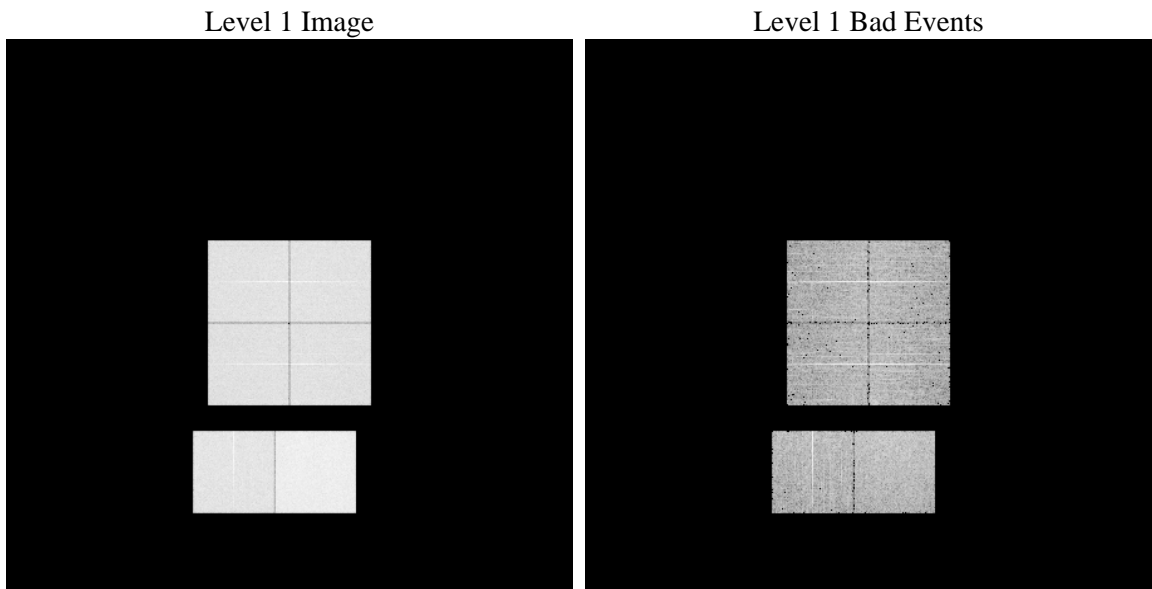
# 1 Front

seq_num	&#160	Sequence number
obs_id	60484	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	19.826017017442	Nominal RA [deg]
dec_nom	1.3880875230974	Nominal Dec [deg]
roll_nom	302.55495048432	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8406.3999686837	Sum of GTIs [s]
livetime	8299.9530705539	Livetime [s]
ontime0	5829.7849936187	Sum of GTIs [s]
ontime1	5794.0926822126	Sum of GTIs [s]
ontime2	5479.6758195758	Sum of GTIs [s]
ontime3	5457.1101242602	Sum of GTIs [s]
ontime6	6007.9153387845	Sum of GTIs [s]
ontime7	8406.3999686837	Sum of GTIs [s]
l2events	1259395	Number of level 2 events

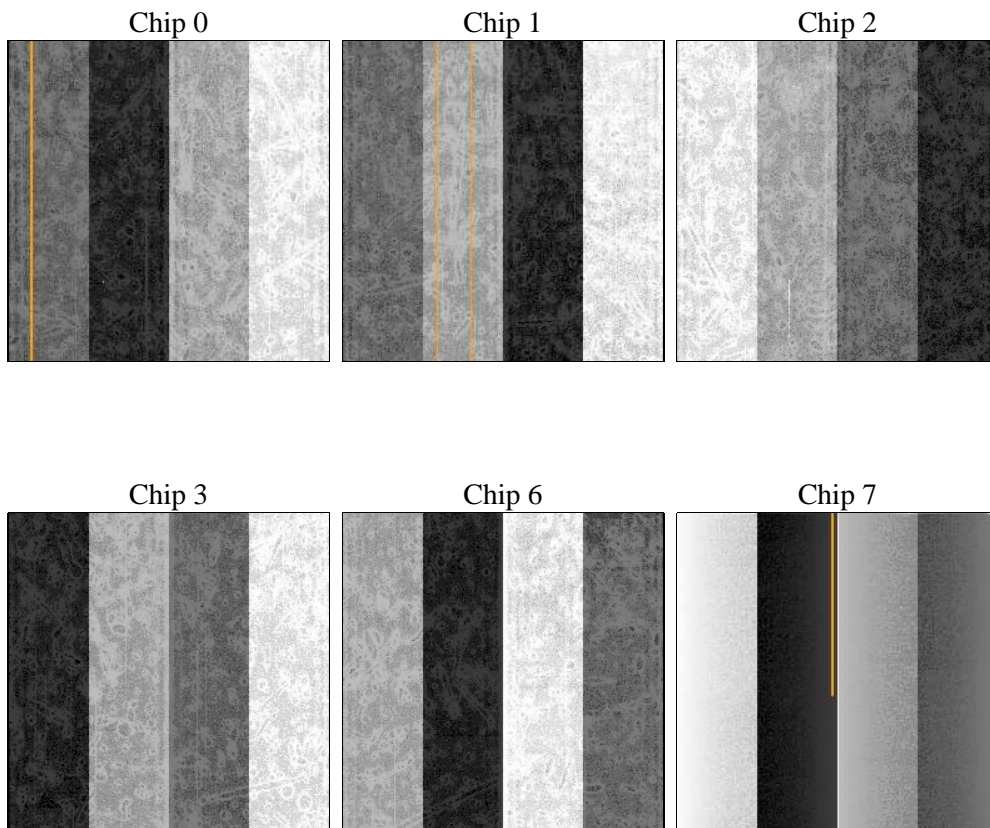
## 2 OBI

### 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	8406.3999686837	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	5829.7849936187	Sum of GTIs [s]
date	2012-11-08T02:47:50	Date and time of file creation	ontime1	5794.0926822126	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	5479.6758195758	Sum of GTIs [s]
			ontime3	5457.1101242602	Sum of GTIs [s]
			ontime6	6007.9153387845	Sum of GTIs [s]
			ontime7	8406.3999686837	Sum of GTIs [s]
			l1events	1537806	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	236549	237501	226059	228563	256901	352233	grade 0 events	112902	112389	108845	109109	120649	78033
rejected events	34127	34820	33091	35626	37478	42865		47%	47%	48%	47%	46%	22%
rejected %	14%	14%	14%	15%	14%	12%	grade 1 events	582	481	600	550	550	191
								0%	0%	0%	0%	0%	0%
							grade 2 events	35618	36238	32700	33213	38024	68221
								15%	15%	14%	14%	14%	19%
							grade 3 events	12992	12908	12610	12743	13740	31489
								5%	5%	5%	5%	5%	8%
							grade 4 events	13124	12891	12817	12506	13852	30970
								5%	5%	5%	5%	5%	8%
							grade 5 events	2278	2369	2140	2267	2708	7686
								0%	0%	0%	0%	1%	2%
							grade 6 events	29455	29851	27438	26593	34958	102909
								12%	12%	12%	11%	13%	29%
							grade 7 events	29598	30374	28909	31582	32420	32734
								12%	12%	12%	13%	12%	9%

## 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	19.82601701744199	Alternating exposures requested	N	N
[deg] Pointing Dec	0	1.388087523097373	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	302.5549504843228			
[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)	185082206.452069	185082205.42731			
Observation start date	2003-11-13T03:43:26	2003-11-13T03:43:25			
[s] Observation end time (MET)	185105344.803076	185105343.77831			
Observation end date	2003-11-13T10:09:05	2003-11-13T10:09:03			
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)	2012.12.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4063999686837

### A.2 Comments