

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 57981 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : May 9 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

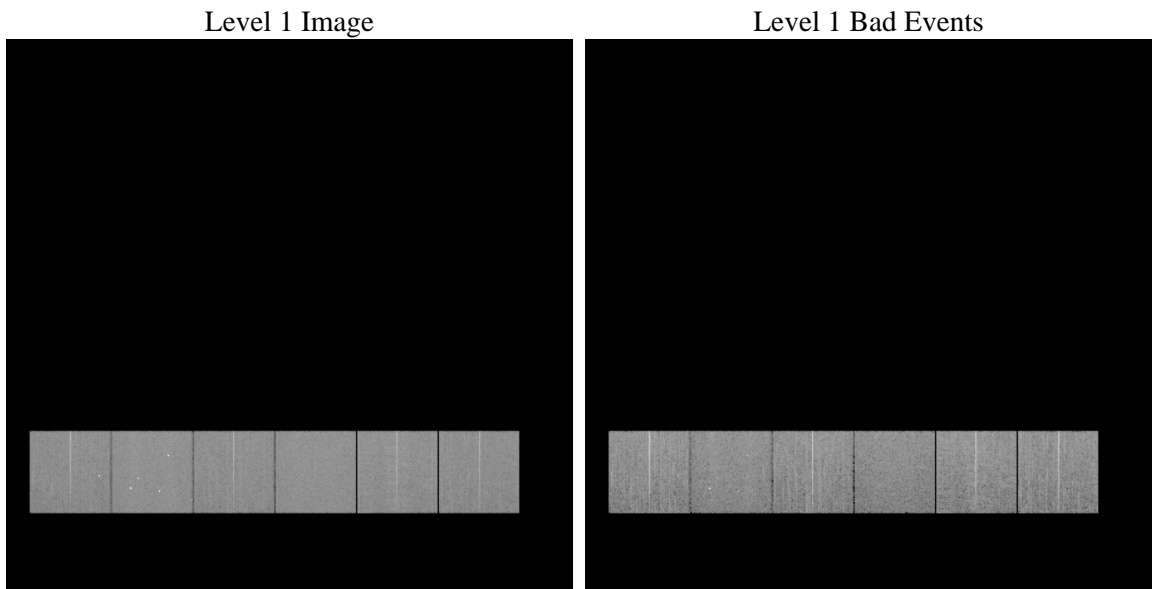
# 1 Front

seq_num	&#160	Sequence number
obs_id	57981	Observation id
title	ACIS-456789 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	170.28023581175	Nominal RA [deg]
dec_nom	21.922109817908	Nominal Dec [deg]
roll_nom	96.714486277319	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7505.8657260537	Sum of GTIs [s]
livetime	7410.8219347407	Livetime [s]
ontime4	7505.7426060438	Sum of GTIs [s]
ontime5	7505.8246860504	Sum of GTIs [s]
ontime6	7505.7836460471	Sum of GTIs [s]
ontime7	7505.8657260537	Sum of GTIs [s]
ontime8	7505.7015660405	Sum of GTIs [s]
ontime9	7505.906766057	Sum of GTIs [s]
l2events	613757	Number of level 2 events

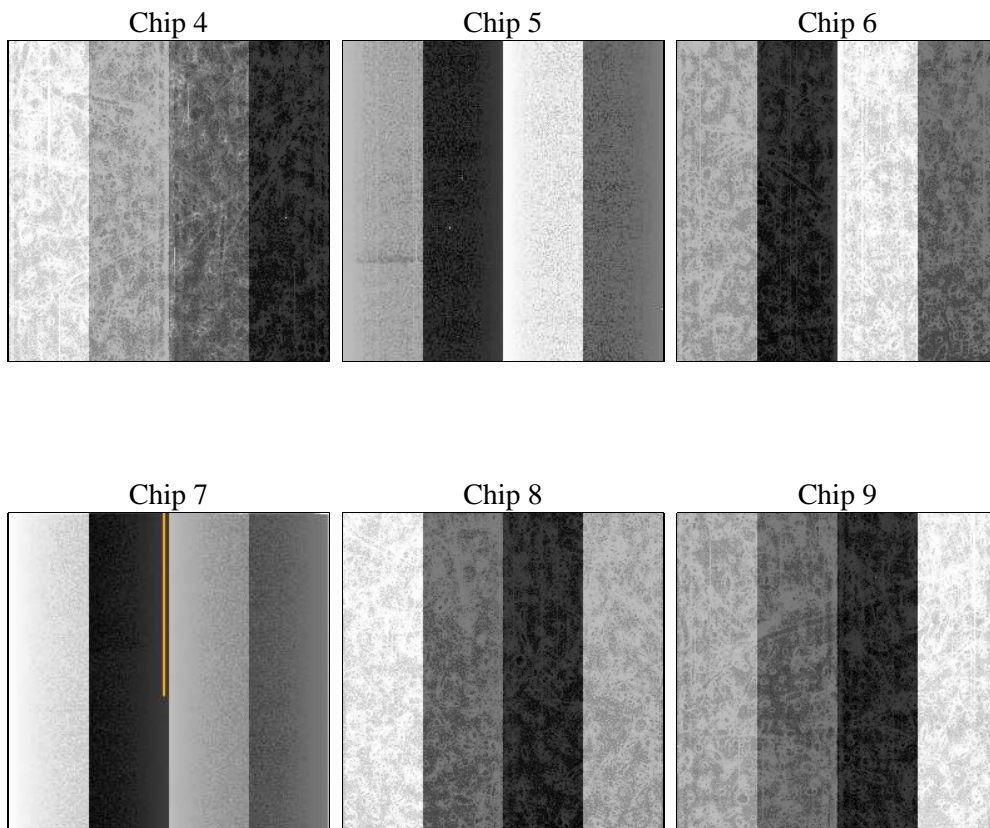
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6780	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	7505.8657260537	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime4	7505.7426060438	Sum of GTIs [s]
date	2012-05-09T06:10:03	Date and time of file creation	ontime5	7505.8246860504	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	7505.7836460471	Sum of GTIs [s]
			ontime7	7505.8657260537	Sum of GTIs [s]
			ontime8	7505.7015660405	Sum of GTIs [s]
			ontime9	7505.906766057	Sum of GTIs [s]
			l1events	1133916	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	178773	204477	182141	195736	195509	177280	grade 0 events	59366	24073	55443	27134	60490	55754
rejected events	81996	73921	80585	67556	82480	78973		33%	11%	30%	13%	30%	31%
rejected %	45%	36%	44%	34%	42%	44%	grade 1 events	592	1211	325	124	379	406
								0%	0%	0%	0%	0%	0%
							grade 2 events	14902	50187	19335	29155	21530	17338
								8%	24%	10%	14%	11%	9%
							grade 3 events	6538	5681	6714	12232	8013	6717
								3%	2%	3%	6%	4%	3%
							grade 4 events	7004	5666	6541	12243	8021	6572
								3%	2%	3%	6%	4%	3%
							grade 5 events	3885	8412	4079	9704	5133	4580
								2%	4%	2%	4%	2%	2%
							grade 6 events	13378	50373	18015	52887	19893	16310
								7%	24%	9%	27%	10%	9%
							grade 7 events	73108	58874	71689	52257	72050	69603
								40%	28%	39%	26%	36%	39%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	170.2802358186797	170.2802358117481
[deg] Pointing Dec	21.92210983384335	21.92210981790753
[deg] Pointing Roll	96.71448627474896	96.71448627731922
[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)	318699070.368855	318699070.368855
Observation start date	2008-02-06T15:48:00	2008-02-06T15:31:10
[s] Observation end time (MET)	318708586.322277	318708586.322277
Observation end date	2008-02-06T17:41:00	2008-02-06T18:09:46
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.05.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.5058657260537

### A.2 Comments