

# V&V Reference Report

## L2 ASCDS Version : 10.3

Observation 52327 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Nov 12 2014

## 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

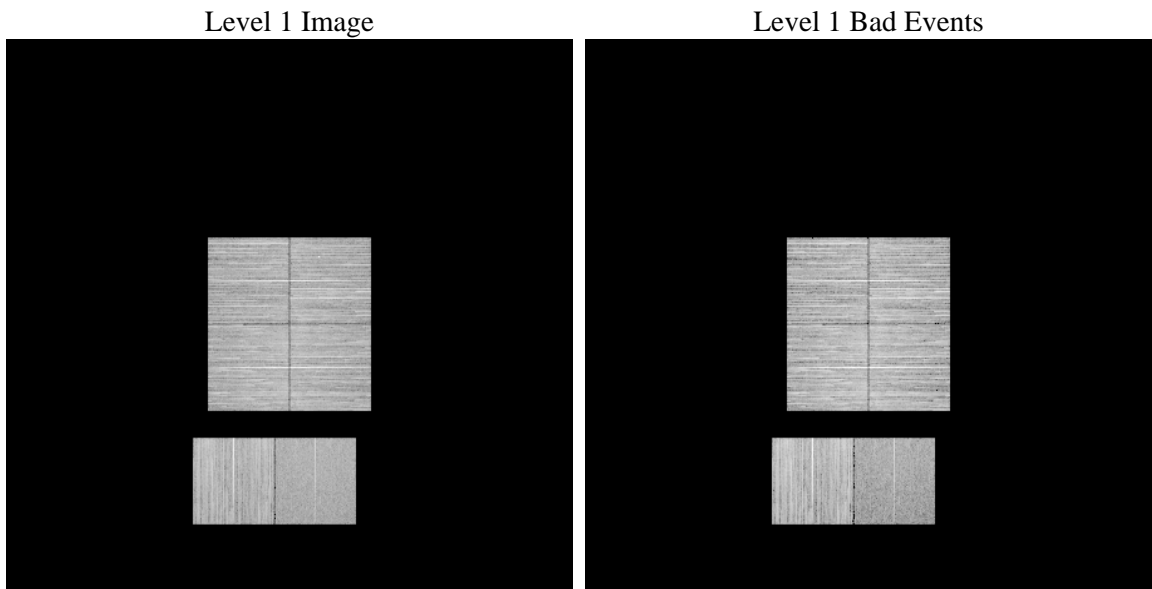
# 1 Front

seq_num	&#160	Sequence number
obs_id	52327	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycycle	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	50.652394520163	Nominal RA [deg]
dec_nom	-11.539899683145	Nominal Dec [deg]
roll_nom	8.0028507213999	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8220.7999694347	Sum of GTIs [s]
livetime	8116.7032502503	Livetime [s]
ontime0	8220.7999694347	Sum of GTIs [s]
ontime1	8220.7999694347	Sum of GTIs [s]
ontime2	8220.7999694347	Sum of GTIs [s]
ontime3	8220.7999694347	Sum of GTIs [s]
ontime6	8220.7999694347	Sum of GTIs [s]
ontime7	8220.7999694347	Sum of GTIs [s]
l2events	159503	Number of level 2 events

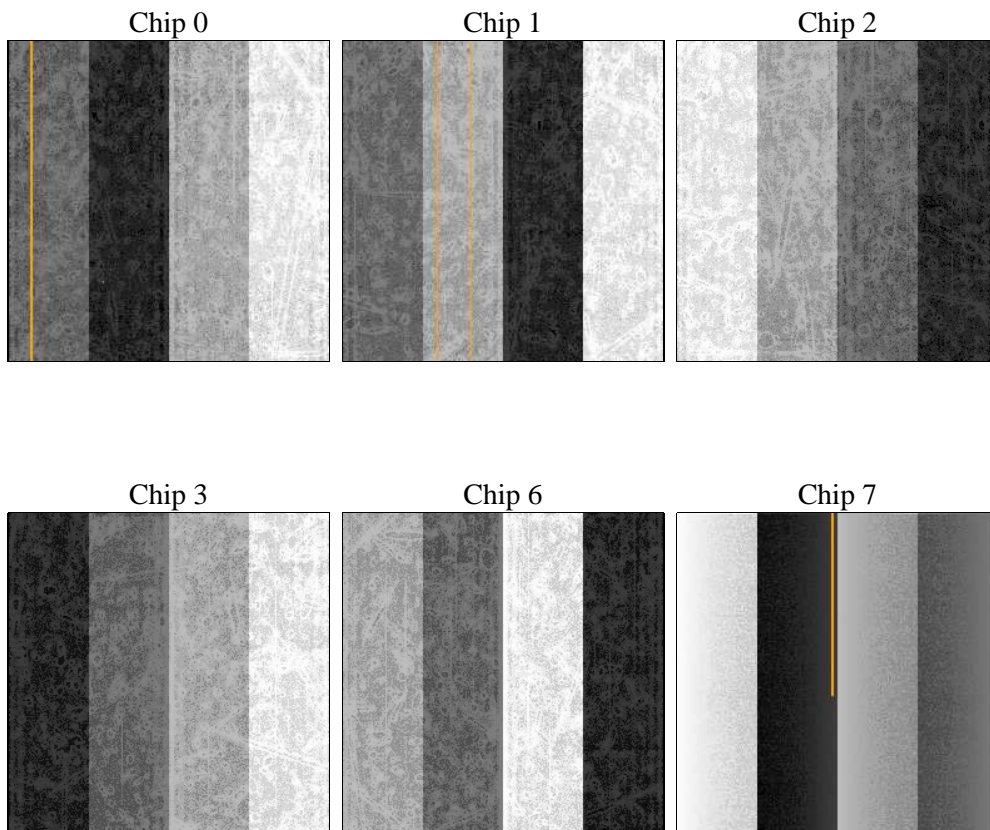
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	8220.7999694347	Sum of GTIs [s]
caldbver	4.6.4	&#160	ontime0	8220.7999694347	Sum of GTIs [s]
date	2014-11-12T14:29:56	Date and time of file creation	ontime1	8220.7999694347	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8220.7999694347	Sum of GTIs [s]
			ontime3	8220.7999694347	Sum of GTIs [s]
			ontime6	8220.7999694347	Sum of GTIs [s]
			ontime7	8220.7999694347	Sum of GTIs [s]
			l1events	857734	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	138749	146353	154366	148766	154196	115304	grade 0 events	11837	11879	12220	12273	11821	6518
rejected events	114957	121791	130808	124871	129301	66106		8%	8%	7%	8%	7%	5%
rejected %	82%	83%	84%	83%	83%	57%	grade 1 events	55	46	68	61	54	81
								0%	0%	0%	0%	0%	0%
							grade 2 events	5031	5521	4640	4682	5442	12311
								3%	3%	3%	3%	3%	10%
							grade 3 events	1639	1550	1665	1721	1672	3912
								1%	1%	1%	1%	1%	3%
							grade 4 events	1620	1643	1577	1665	1652	3856
								1%	1%	1%	1%	1%	3%
							grade 5 events	2751	2728	2680	3024	2987	7290
								1%	1%	1%	2%	1%	6%
							grade 6 events	3856	4142	3655	3751	4555	23026
								2%	2%	2%	2%	2%	19%
							grade 7 events	111960	118844	127861	121589	126013	58310
								80%	81%	82%	81%	81%	50%

## 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	0	50.65239452016343	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-11.53989968314493	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	8.002850721399872	[s] Primary exposure time	3.2	3.2
SIM focus pos (mm)	-1.4281808131	-1.4281808131			
[mm] SIM defocus	0.1051557500557434	0.1051557500557434			
SIM translation stage pos (mm)	250.4660330802	250.4660330802			
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584			
[s] Observation start time (MET)	532111325.897297	532111325.897297			
Observation start date	2014-11-11T16:42:06	2014-11-11T16:42:05			
[s] Observation end time (MET)	532120871.266618	532120871.266618			
Observation end date	2014-11-11T19:21:11	2014-11-11T19:21:11			
Read mode	TIMED	TIMED			

**2.3 Star Slots**

**2.4 FID Slots**

# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.11.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2207999694347

## A.2 Comments