

# V&V Reference Report

## L2 ASCDS Version : 8.5.1

Observation 59914 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 14 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

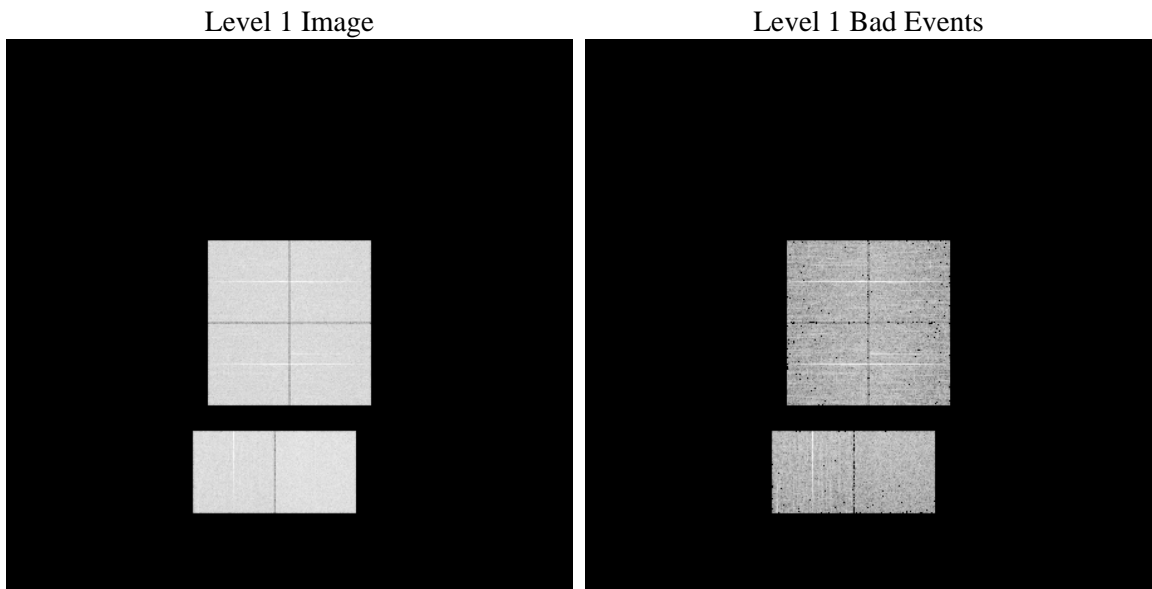
# 1 Front

seq_num	&#160	Sequence number
obs_id	59914	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	51.418512540887	Nominal RA [deg]
dec_nom	26.376682038651	Nominal Dec [deg]
roll_nom	272.54941919832	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5350.2670781314	Sum of GTIs [s]
livetime	5282.5187748441	Livetime [s]
ontime0	4420.0639243126	Sum of GTIs [s]
ontime1	4536.6981544793	Sum of GTIs [s]
ontime2	4280.6192631125	Sum of GTIs [s]
ontime3	4362.4093309939	Sum of GTIs [s]
ontime6	4650.0505847037	Sum of GTIs [s]
ontime7	5350.2670781314	Sum of GTIs [s]
l2events	731172	Number of level 2 events

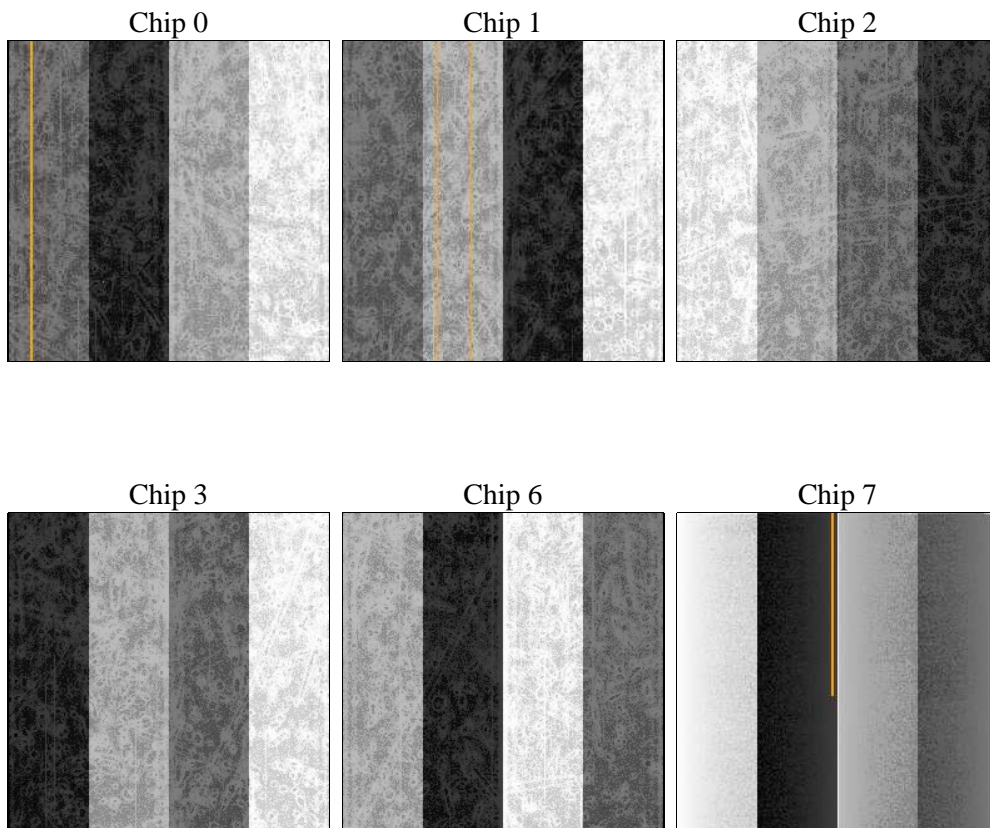
## 2 OBI

### 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	8.5.1	Processing system revision	ontime	5350.2670781314	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime0	4420.0639243126	Sum of GTIs [s]
date	2012-12-14T21:43:21	Date and time of file creation	ontime1	4536.6981544793	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4280.6192631125	Sum of GTIs [s]
			ontime3	4362.4093309939	Sum of GTIs [s]
			ontime6	4650.0505847037	Sum of GTIs [s]
			ontime7	5350.2670781314	Sum of GTIs [s]
			l1events	976124	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	153005	155891	150107	154300	168607	194214	grade 0 events	65719	66848	65191	66978	70663	37563
rejected events	33776	33344	33712	35068	37632	34328		42%	42%	43%	43%	41%	19%
rejected %	22%	21%	22%	22%	22%	17%	grade 1 events	412	363	414	425	375	127
								0%	0%	0%	0%	0%	0%
							grade 2 events	20645	22002	19484	20254	22881	35160
								13%	14%	12%	13%	13%	18%
							grade 3 events	7754	7813	7555	7692	8219	15777
								5%	5%	5%	4%	4%	8%
							grade 4 events	7844	7635	7650	7868	8219	15636
								5%	4%	5%	5%	4%	8%
							grade 5 events	2053	2130	1900	2160	2302	6104
								1%	1%	1%	1%	1%	3%
							grade 6 events	17267	18249	16515	16440	20993	55750
								11%	11%	11%	10%	12%	28%
							grade 7 events	31311	30851	31398	32483	34955	28097
								20%	19%	20%	21%	20%	14%

## 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	51.4185125408867	Alternating exposures requested	N	N
[deg] Pointing Dec	0	26.37668203865074	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	272.5494191983183			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.7524282956875696			
[mm] SIM translation stage pos	-233.592463	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	219771557.685048	219771556.66005			
Observation start date	2004-12-18T15:39:18	2004-12-18T15:39:16			
[s] Observation end time (MET)	219788546.035813	219788545.01081			
Observation end date	2004-12-18T20:22:26	2004-12-18T20:22:25			
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)	2013.01.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.3502670781314

### **A.2 Comments**