

# V&V Reference Report

## L2 ASCDS Version : 10.1.1

Observation 53147 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Dec 21 2013

## 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

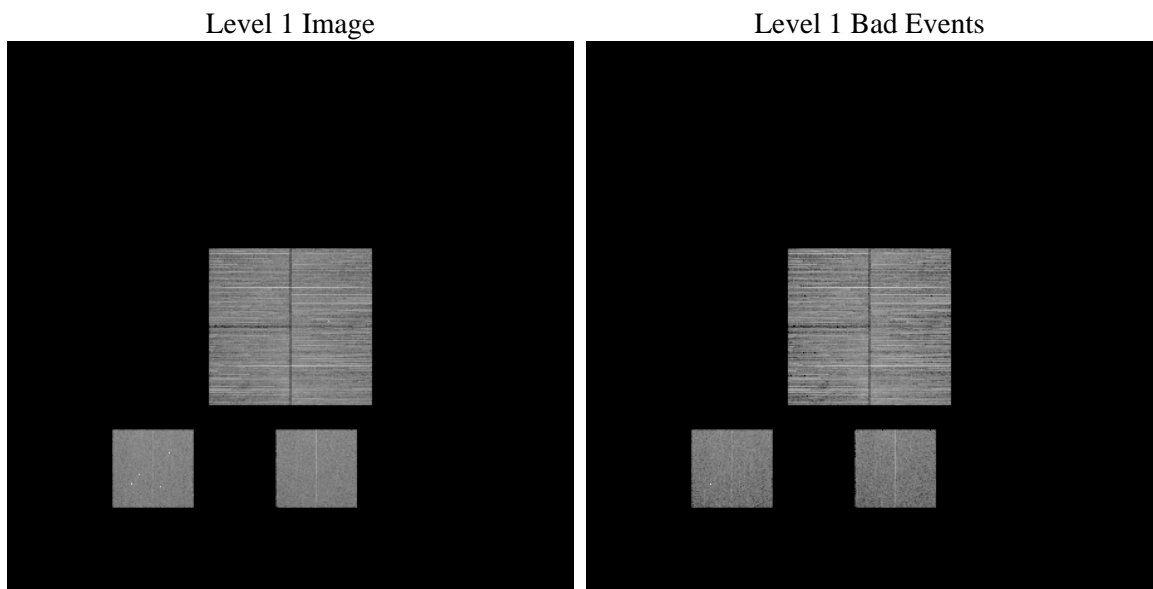
# 1 Front

seq_num	&#160	Sequence number
obs_id	53147	Observation id
title	ACIS-012357 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	117.4704439097	Nominal RA [deg]
dec_nom	35.889921651636	Nominal Dec [deg]
roll_nom	106.29291773206	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7788.7999710441	Sum of GTIs [s]
livetime	7690.1734959584	Livetime [s]
ontime0	7788.7999710441	Sum of GTIs [s]
ontime1	7788.7999710441	Sum of GTIs [s]
ontime2	7788.7999710441	Sum of GTIs [s]
ontime3	7788.7999710441	Sum of GTIs [s]
ontime5	7788.7999710441	Sum of GTIs [s]
ontime7	7788.7999710441	Sum of GTIs [s]
l2events	199174	Number of level 2 events

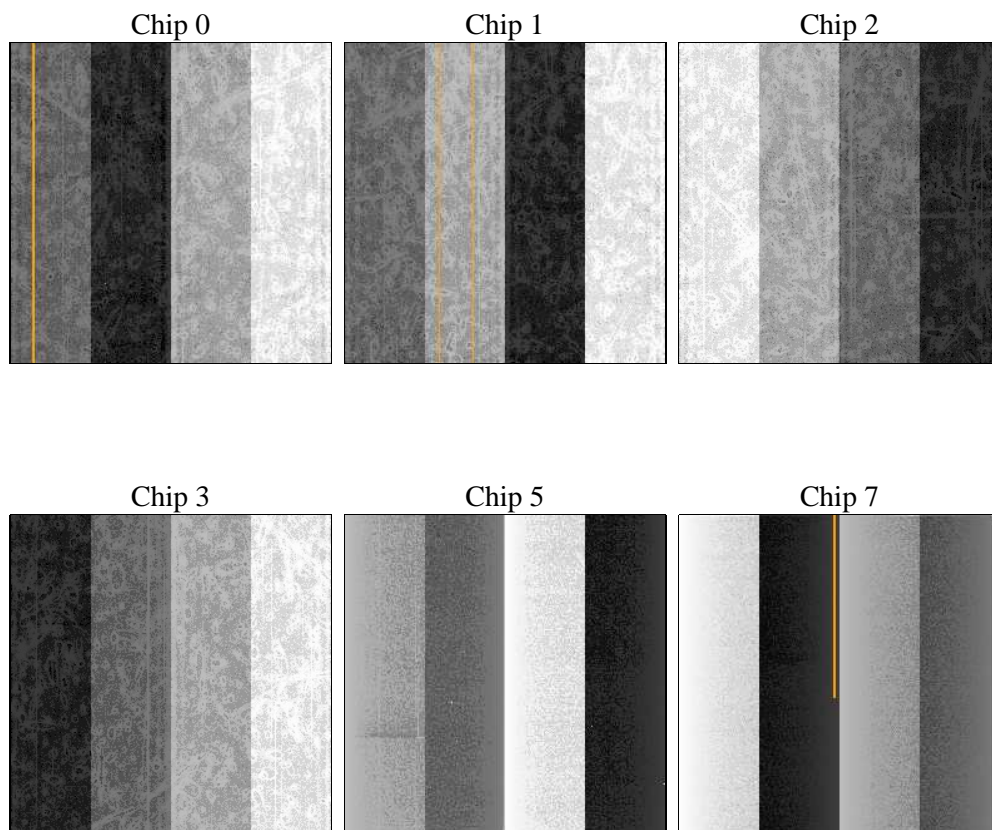
## 2 OBI

### 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	10.1.1	Processing system revision	ontime	7788.7999710441	Sum of GTIs [s]
caldsver	4.6.0	&#160	ontime0	7788.7999710441	Sum of GTIs [s]
date	2013-12-21T23:07:07	Date and time of file creation	ontime1	7788.7999710441	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	7788.7999710441	Sum of GTIs [s]
			ontime3	7788.7999710441	Sum of GTIs [s]
			ontime5	7788.7999710441	Sum of GTIs [s]
			ontime7	7788.7999710441	Sum of GTIs [s]
			l1events	771185	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	130079	133504	131177	142244	121224	112957	grade 0 events	13492	13195	13917	14119	7610	7220
rejected events	103565	106647	104502	115463	66156	62710		10%	9%	10%	9%	6%	6%
rejected %	79%	79%	79%	81%	54%	55%	grade 1 events	78	54	70	84	118	77
								0%	0%	0%	0%	0%	0%
							grade 2 events	5335	5683	5183	5084	19938	12439
								4%	4%	3%	3%	16%	11%
							grade 3 events	1845	1784	1868	1877	1871	4184
								1%	1%	1%	1%	1%	3%
							grade 4 events	1777	1851	1884	1841	1896	4082
								1%	1%	1%	1%	1%	3%
							grade 5 events	2643	2764	2439	2968	5514	6957
								2%	2%	1%	2%	4%	6%
							grade 6 events	4266	4547	4049	4063	24169	22695
								3%	3%	3%	2%	19%	20%
							grade 7 events	100643	103626	101767	112208	60108	55303
								77%	77%	77%	78%	49%	48%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012357	ACIS-012357
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	117.4704439096995
[deg] Pointing Dec	0	35.88992165163597
[deg] Pointing Roll	0.0	106.2929177320624
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)	504009362.643883	504009362.643883
Observation start date	2013-12-21T10:36:03	2013-12-21T10:36:02
[s] Observation end time (MET)	504018918.599617	504018918.599617
Observation end date	2013-12-21T13:15:19	2013-12-21T13:15:18
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)	2013.12.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.7887999710441

### A.2 Comments