

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 51918 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 2 2015

## 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

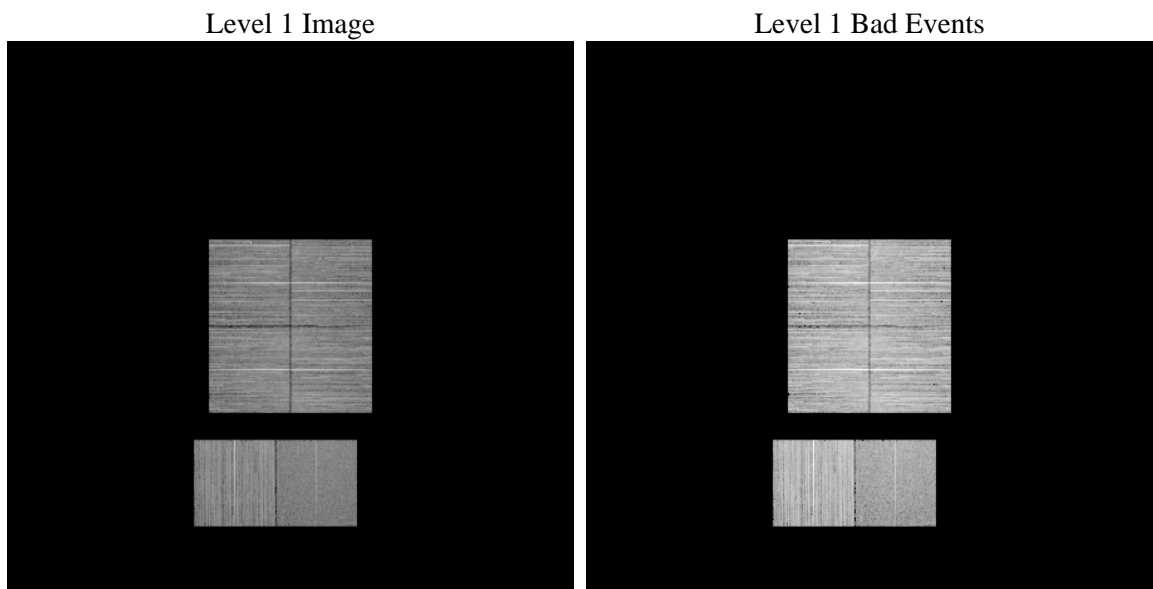
# 1 Front

seq_num	&#160	Sequence number
obs_id	51918	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	221.03254924886	Nominal RA [deg]
dec_nom	-44.282864720852	Nominal Dec [deg]
roll_nom	3.6555024825242	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8022.4001195431	Sum of GTIs [s]
livetime	7920.81565872	Livetime [s]
ontime0	8022.4001195431	Sum of GTIs [s]
ontime1	8022.4001195431	Sum of GTIs [s]
ontime2	8022.4001195431	Sum of GTIs [s]
ontime3	8022.4001195431	Sum of GTIs [s]
ontime6	8022.4001195431	Sum of GTIs [s]
ontime7	8022.4001195431	Sum of GTIs [s]
l2events	141157	Number of level 2 events

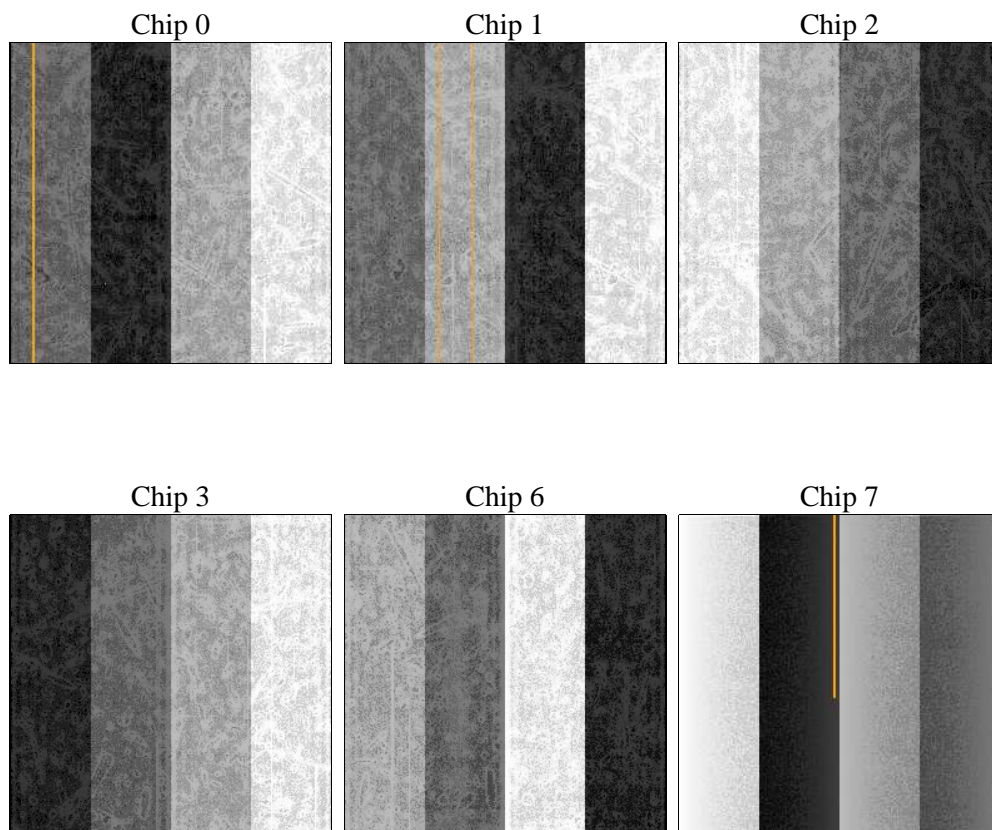
## 2 OBI

### 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	10.3.3	Processing system revision	ontime	8022.4001195431	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime0	8022.4001195431	Sum of GTIs [s]
date	2015-05-03T03:25:17	Date and time of file creation	ontime1	8022.4001195431	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8022.4001195431	Sum of GTIs [s]
			ontime3	8022.4001195431	Sum of GTIs [s]
			ontime6	8022.4001195431	Sum of GTIs [s]
			ontime7	8022.4001195431	Sum of GTIs [s]
			l1events	830563	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	138982	136041	145948	150873	147478	111241	grade 0 events	12604	10022	10612	10765	9808	5276
rejected events	115550	114243	125134	129873	125771	67137		9%	7%	7%	7%	6%	4%
rejected %	83%	83%	85%	86%	85%	60%	grade 1 events	70	57	71	67	40	69
								0%	0%	0%	0%	0%	0%
							grade 2 events	4897	5582	4487	4537	5550	11288
								3%	4%	3%	3%	3%	10%
							grade 3 events	1475	1363	1503	1465	1384	3260
								1%	1%	1%	0%	0%	2%
							grade 4 events	1523	1418	1454	1416	1334	3345
								1%	1%	0%	0%	0%	3%
							grade 5 events	2587	2583	2410	2799	2683	6626
								1%	1%	1%	1%	1%	5%
							grade 6 events	3642	4049	3427	3481	4293	22262
								2%	2%	2%	2%	2%	20%
							grade 7 events	112184	110967	121984	126343	122386	59115
								80%	81%	83%	83%	82%	53%

## 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	221.0325492488554	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-44.28286472085215	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	3.655502482524169	[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)	546963894.477038	546963894.477038			
Observation start date	2015-05-02T14:24:54	2015-05-02T14:24:54			
[s] Observation end time (MET)	546973443.501264	546973443.501264			
Observation end date	2015-05-02T17:04:04	2015-05-02T17:04:03			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.05.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0224001195431

### A.2 Comments