

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 50987 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 31 2016

## 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

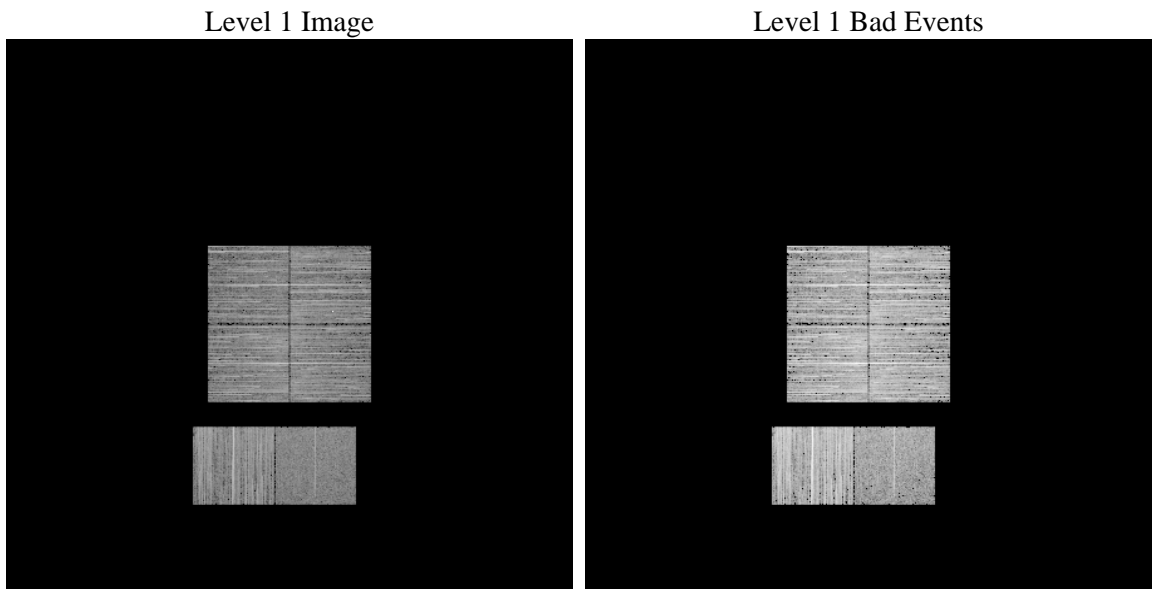
# 1 Front

seq_num	&#160	Sequence number
obs_id	50987	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	266.96938838371	Nominal RA [deg]
dec_nom	20.995741512862	Nominal Dec [deg]
roll_nom	155.90914569893	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3435.1210354567	Sum of GTIs [s]
livetime	3391.6234645241	Livetime [s]
ontime0	3435.1620451212	Sum of GTIs [s]
ontime1	3436.8000512123	Sum of GTIs [s]
ontime2	3436.8000512123	Sum of GTIs [s]
ontime3	3435.0799651146	Sum of GTIs [s]
ontime6	3436.8000512123	Sum of GTIs [s]
ontime7	3435.1210354567	Sum of GTIs [s]
l2events	58641	Number of level 2 events

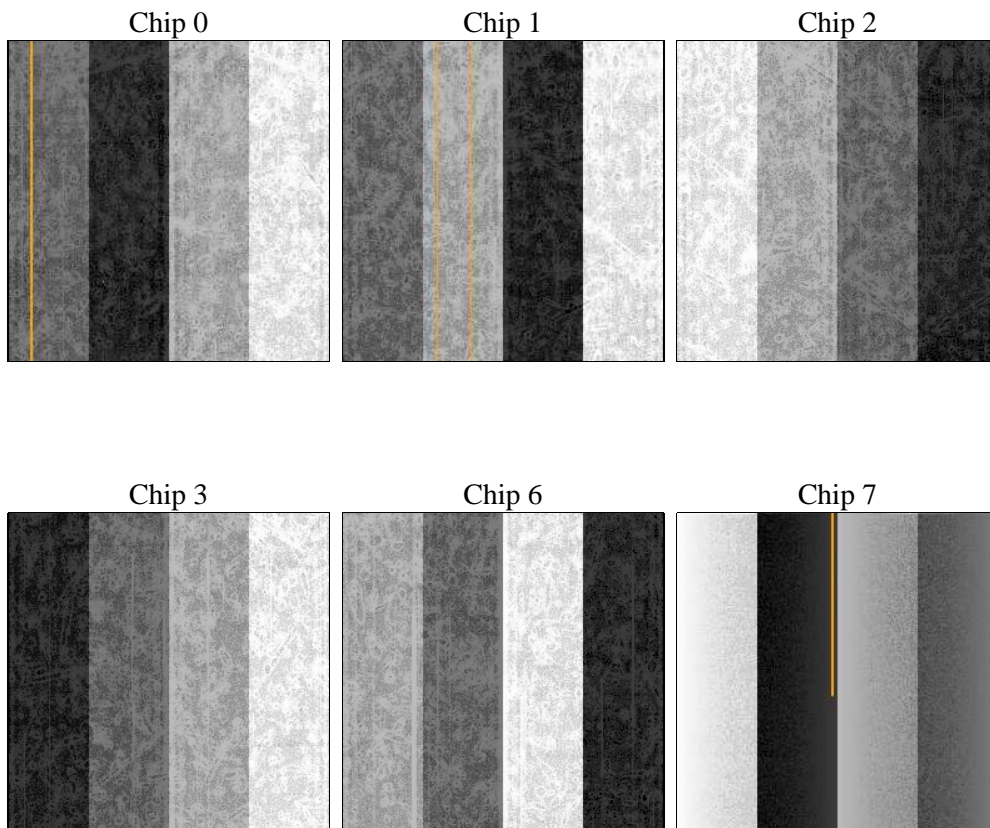
## 2 OBI

### 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	10.4.3.1	Processing system revision	ontime	3435.1210354567	Sum of GTIs [s]
caldbver	4.7.2	&#160	ontime0	3435.1620451212	Sum of GTIs [s]
date	2016-05-31T23:25:09	Date and time of file creation	ontime1	3436.8000512123	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	3436.8000512123	Sum of GTIs [s]
			ontime3	3435.0799651146	Sum of GTIs [s]
			ontime6	3436.8000512123	Sum of GTIs [s]
			ontime7	3435.1210354567	Sum of GTIs [s]
			l1events	420950	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	62673	74034	77182	70209	81489	55363
rejected events	54311	64479	69098	62040	73051	34241
rejected %	86%	87%	89%	88%	89%	61%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	3762	4611	3964	3838	3504	2147
	6%	6%	5%	5%	4%	3%
grade 1 events	32	30	22	26	24	38
	0%	0%	0%	0%	0%	0%
grade 2 events	1984	2229	1712	1771	2203	5330
	3%	3%	2%	2%	2%	9%
grade 3 events	623	543	544	629	543	1434
	0%	0%	0%	0%	0%	2%
grade 4 events	546	585	571	625	546	1462
	0%	0%	0%	0%	0%	2%
grade 5 events	1340	1300	1260	1467	1391	3331
	2%	1%	1%	2%	1%	6%
grade 6 events	1447	1596	1302	1306	1648	10749
	2%	2%	1%	1%	2%	19%
grade 7 events	52939	63140	67807	60547	71630	30872
	84%	85%	87%	86%	87%	55%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	266.9693883837126
[deg] Pointing Dec	0	20.99574151286239
[deg] Pointing Roll	0.0	155.9091456989328
[mm] SIM focus pos	-1.429586	-0.6828225247311905
[mm] SIM defocus	0.1037507710433287	0.8505141146731063
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	581052342.632502	581052341.6075
Observation start date	2016-05-31T03:25:43	2016-05-31T03:25:41
[s] Observation end time (MET)	581058941.58288	581058940.55788
Observation end date	2016-05-31T05:15:42	2016-05-31T05:15:40
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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)	2016.06.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.4351210354567

### A.2 Comments