

# V&V Reference Report

## L2 ASCDS Version : 10.4

Observation 51827 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jun 17 2015

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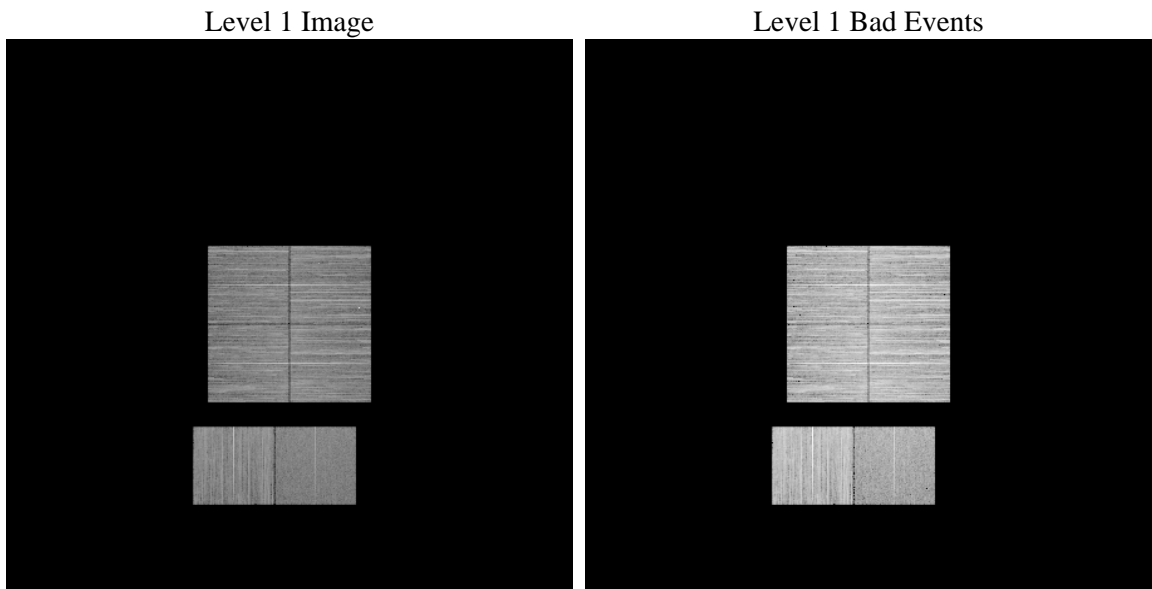
# 1 Front

seq_num	&#160	Sequence number
obs_id	51827	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	237.84926167016	Nominal RA [deg]
dec_nom	-20.643053725284	Nominal Dec [deg]
roll_nom	258.8403382005	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8371.2001247406	Sum of GTIs [s]
livetime	8265.1989482296	Livetime [s]
ontime0	8371.2001247406	Sum of GTIs [s]
ontime1	8371.2001247406	Sum of GTIs [s]
ontime2	8367.9258714914	Sum of GTIs [s]
ontime3	8371.2001247406	Sum of GTIs [s]
ontime6	8371.1258919239	Sum of GTIs [s]
ontime7	8371.2001247406	Sum of GTIs [s]
l2events	149859	Number of level 2 events

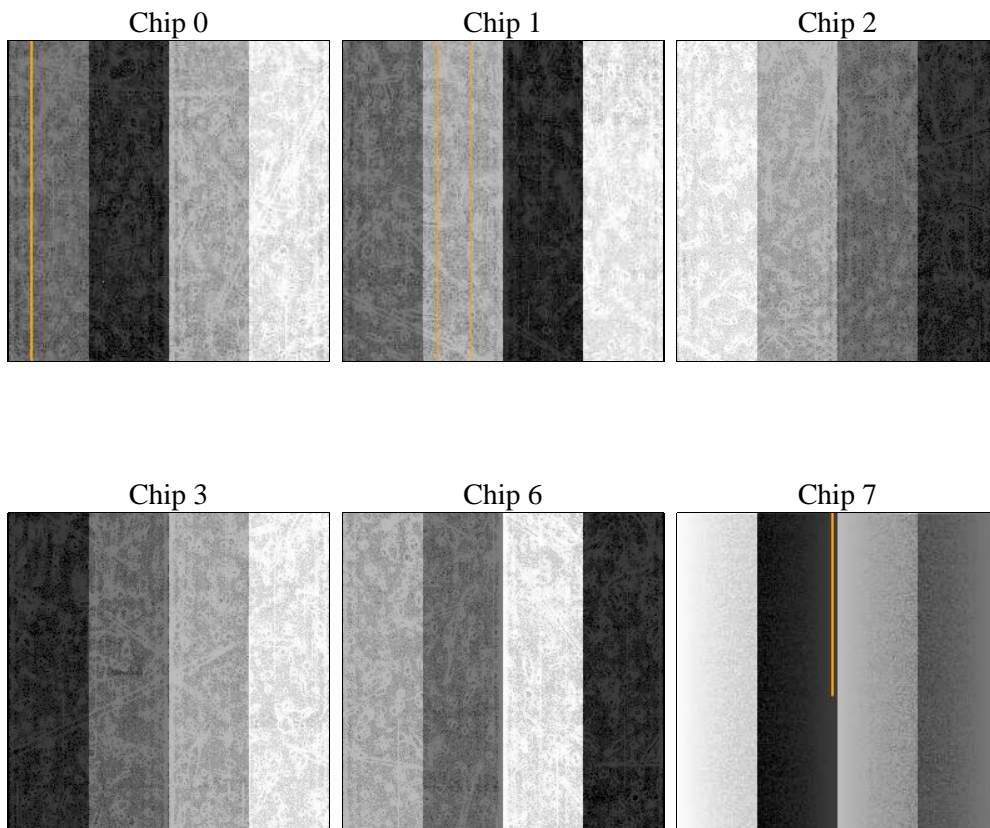
## 2 OBI

### 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	Processing system revision	ontime	8371.2001247406	Sum of GTIs [s]
caldbver	4.6.7	&#160	ontime0	8371.2001247406	Sum of GTIs [s]
date	2015-06-17T16:10:22	Date and time of file creation	ontime1	8371.2001247406	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8367.9258714914	Sum of GTIs [s]
			ontime3	8371.2001247406	Sum of GTIs [s]
			ontime6	8371.1258919239	Sum of GTIs [s]
			ontime7	8371.2001247406	Sum of GTIs [s]
			l1events	868866	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	134402	155554	144597	158775	156484	119054	grade 0 events	10603	10389	11123	11336	10918	5996
rejected events	112498	130980	122641	136575	133742	70399		7%	6%	7%	7%	6%	5%
rejected %	83%	84%	84%	86%	85%	59%	grade 1 events	62	51	61	80	64	86
								0%	0%	0%	0%	0%	0%
							grade 2 events	4715	7453	4365	4357	4905	12029
								3%	4%	3%	2%	3%	10%
							grade 3 events	1565	1512	1567	1589	1492	3712
								1%	0%	1%	1%	0%	3%
							grade 4 events	1525	1533	1554	1649	1482	3741
								1%	0%	1%	1%	0%	3%
							grade 5 events	2886	2827	2621	3179	3118	7645
								2%	1%	1%	2%	1%	6%
							grade 6 events	3684	3928	3522	3466	4146	23642
								2%	2%	2%	2%	2%	19%
							grade 7 events	109362	127861	119784	133119	130359	62203
								81%	82%	82%	83%	83%	52%

## 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	237.849261670165
[deg] Pointing Dec	0	-20.64305372528449
[deg] Pointing Roll	0.0	258.8403382005017
[mm] SIM focus pos	-1.429586	-1.428180813131781
[mm] SIM defocus	0.1037507710433287	0.1051558262725154
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	550888857.497285	550888856.47229
Observation start date	2015-06-17T00:40:57	2015-06-17T00:40:56
[s] Observation end time (MET)	550901065.247972	550901064.22297
Observation end date	2015-06-17T04:04:25	2015-06-17T04:04:24
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)	2015.06.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.3712001247406

### A.2 Comments