

# V&V Reference Report

## L2 ASCDS Version : 10.4.2.1

Observation 51527 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Nov 4 2015

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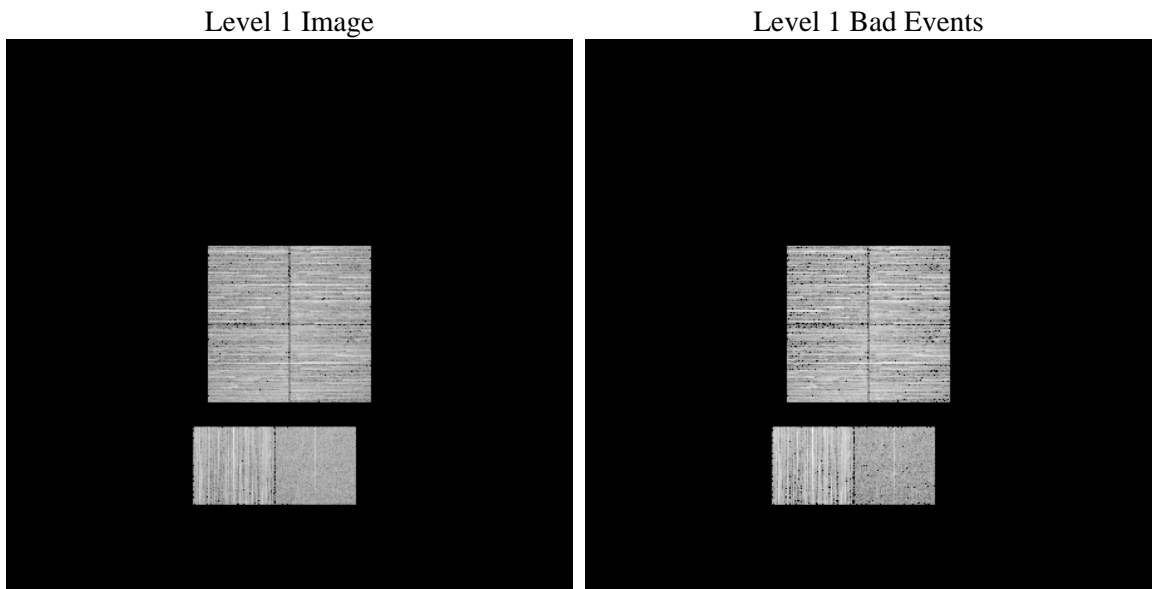
# 1 Front

seq_num	&#160	Sequence number
obs_id	51527	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycle	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	36.969271410714	Nominal RA [deg]
dec_nom	39.98287388103	Nominal Dec [deg]
roll_nom	183.24283397204	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3248.000048399	Sum of GTIs [s]
livetime	3206.8719160753	Livetime [s]
ontime0	3248.000048399	Sum of GTIs [s]
ontime1	3248.000048399	Sum of GTIs [s]
ontime2	3248.000048399	Sum of GTIs [s]
ontime3	3248.000048399	Sum of GTIs [s]
ontime6	3248.000048399	Sum of GTIs [s]
ontime7	3248.000048399	Sum of GTIs [s]
l2events	57876	Number of level 2 events

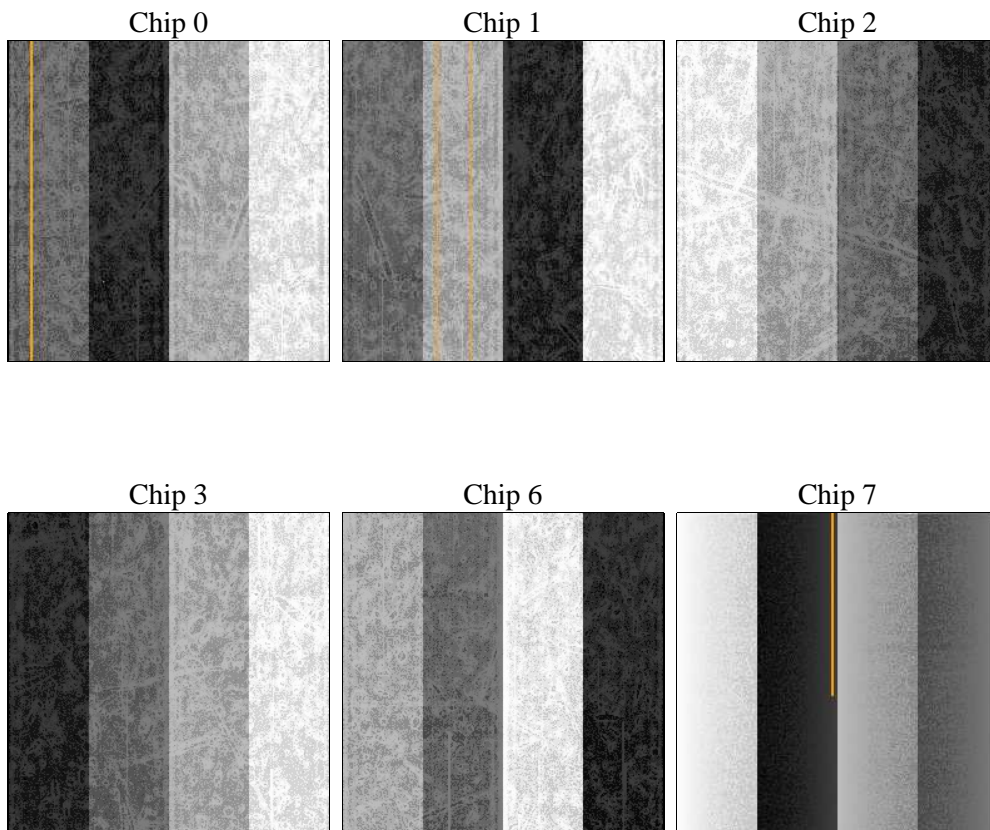
## 2 OBI

### 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	10.4.2.1	Processing system revision	ontime	3248.000048399	Sum of GTIs [s]
caldbver	4.6.10a	&#160	ontime0	3248.000048399	Sum of GTIs [s]
date	2015-11-04T13:32:19	Date and time of file creation	ontime1	3248.000048399	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	3248.000048399	Sum of GTIs [s]
			ontime3	3248.000048399	Sum of GTIs [s]
			ontime6	3248.000048399	Sum of GTIs [s]
			ontime7	3248.000048399	Sum of GTIs [s]
			l1events	353481	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	55743	60910	59466	61198	68275	47889
rejected events	47425	52329	50934	53022	59652	28273
rejected %	85%	85%	85%	86%	87%	59%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	4019	4076	4290	4153	4085	2332
	7%	6%	7%	6%	5%	4%
grade 1 events	18	23	21	31	23	33
	0%	0%	0%	0%	0%	0%
grade 2 events	1843	1888	1749	1652	1854	4945
	3%	3%	2%	2%	2%	10%
grade 3 events	613	615	609	609	590	1556
	1%	1%	1%	0%	0%	3%
grade 4 events	622	618	590	579	574	1552
	1%	1%	0%	0%	0%	3%
grade 5 events	1135	1179	1099	1261	1226	3218
	2%	1%	1%	2%	1%	6%
grade 6 events	1314	1477	1391	1284	1610	9465
	2%	2%	2%	2%	2%	19%
grade 7 events	46179	51034	49717	51629	58313	24788
	82%	83%	83%	84%	85%	51%

## 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	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	36.9692714107141	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	39.98287388103003	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	183.2428339720386	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-0.7809083437167272			
[mm] SIM defocus	0.1037507710433287	0.7524282956875696			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	562961352.017166	562961350.99217			
Observation start date	2015-11-03T18:09:12	2015-11-03T18:09:10			
[s] Observation end time (MET)	562966062.917442	562966061.89244			
Observation end date	2015-11-03T19:27:43	2015-11-03T19:27:41			
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)	2015.11.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.248000048399

## A.2 Comments