

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 50953 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jun 13 2016

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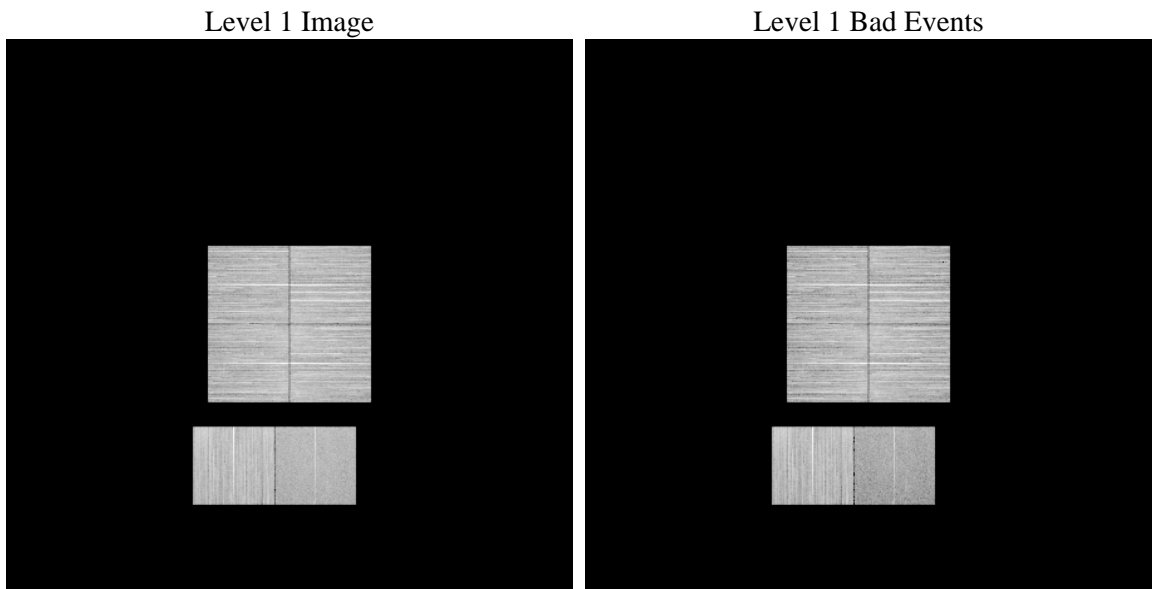
# 1 Front

seq_num	&#160	Sequence number
obs_id	50953	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycycle	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	228.73060036294	Nominal RA [deg]
dec_nom	-13.351945451792	Nominal Dec [deg]
roll_nom	247.62248210031	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8217.5462892056	Sum of GTIs [s]
livetime	8113.4907700793	Livetime [s]
ontime0	8217.5052491426	Sum of GTIs [s]
ontime1	8217.464209199	Sum of GTIs [s]
ontime2	8217.423169136	Sum of GTIs [s]
ontime3	8217.5873291492	Sum of GTIs [s]
ontime6	8217.3821291924	Sum of GTIs [s]
ontime7	8217.5462892056	Sum of GTIs [s]
l2events	150141	Number of level 2 events

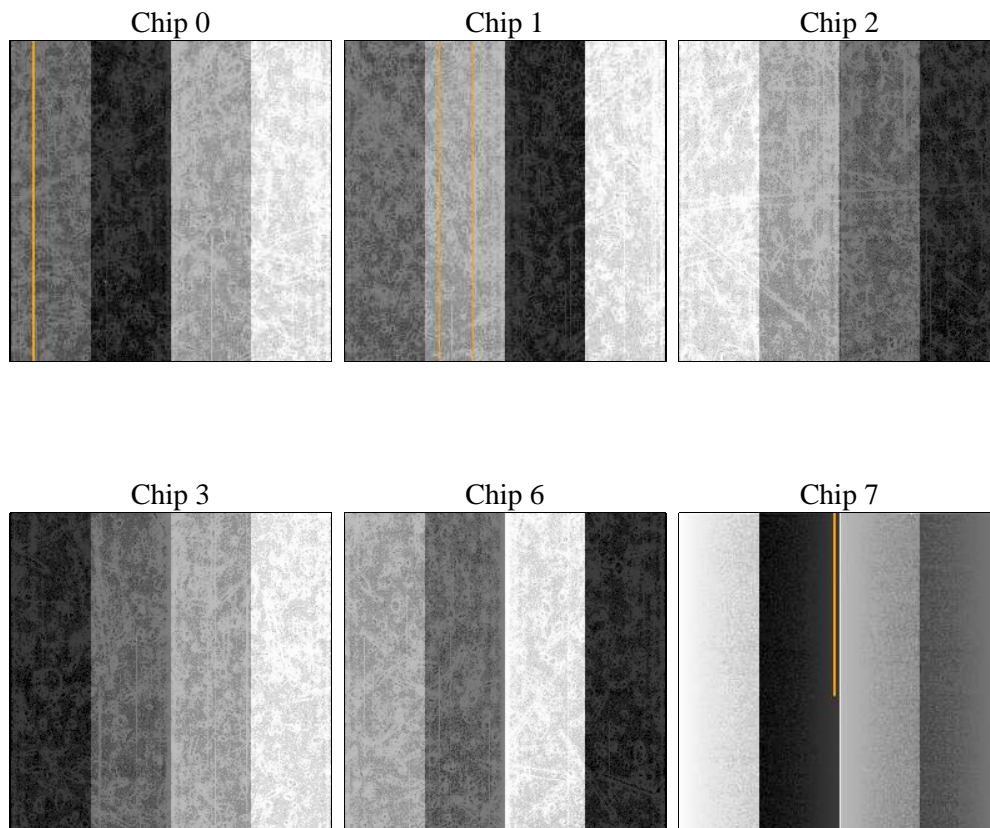
## 2 OBI

### 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	8217.5462892056	Sum of GTIs [s]
caldbver	4.7.2	&#160	ontime0	8217.5052491426	Sum of GTIs [s]
date	2016-06-13T12:45:46	Date and time of file creation	ontime1	8217.464209199	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8217.423169136	Sum of GTIs [s]
			ontime3	8217.5873291492	Sum of GTIs [s]
			ontime6	8217.3821291924	Sum of GTIs [s]
			ontime7	8217.5462892056	Sum of GTIs [s]
			l1events	1074151	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	174521	192945	179052	193137	196463	138033	grade 0 events	9608	8894	10222	9830	9347	5502
rejected events	153476	171608	158091	172155	174366	84399		5%	4%	5%	5%	4%	3%
rejected %	87%	88%	88%	89%	88%	61%	grade 1 events	67	70	80	78	52	109
								0%	0%	0%	0%	0%	0%
							grade 2 events	4908	5582	4511	4552	5638	13472
								2%	2%	2%	2%	2%	9%
							grade 3 events	1505	1397	1451	1457	1420	3883
								0%	0%	0%	0%	0%	2%
							grade 4 events	1382	1404	1416	1604	1409	3850
								0%	0%	0%	0%	0%	2%
							grade 5 events	3347	3327	3184	3692	3334	8670
								1%	1%	1%	1%	1%	6%
							grade 6 events	3753	4155	3470	3634	4410	27150
								2%	2%	1%	1%	2%	19%
							grade 7 events	149951	168116	154718	168290	170853	75397
								85%	87%	86%	87%	86%	54%

## 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	228.7306003629398	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-13.35194545179158	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	247.6224821003059	[s] Primary exposure time	3.2	3.2
[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)	582150865.945408	582150864.92041			
Observation start date	2016-06-12T20:34:26	2016-06-12T20:34:24			
[s] Observation end time (MET)	582160869.945981	582160868.92098			
Observation end date	2016-06-12T23:21:10	2016-06-12T23:21:08			
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)	2016.06.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2175462892056

## A.2 Comments