

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 51890 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 13 2015

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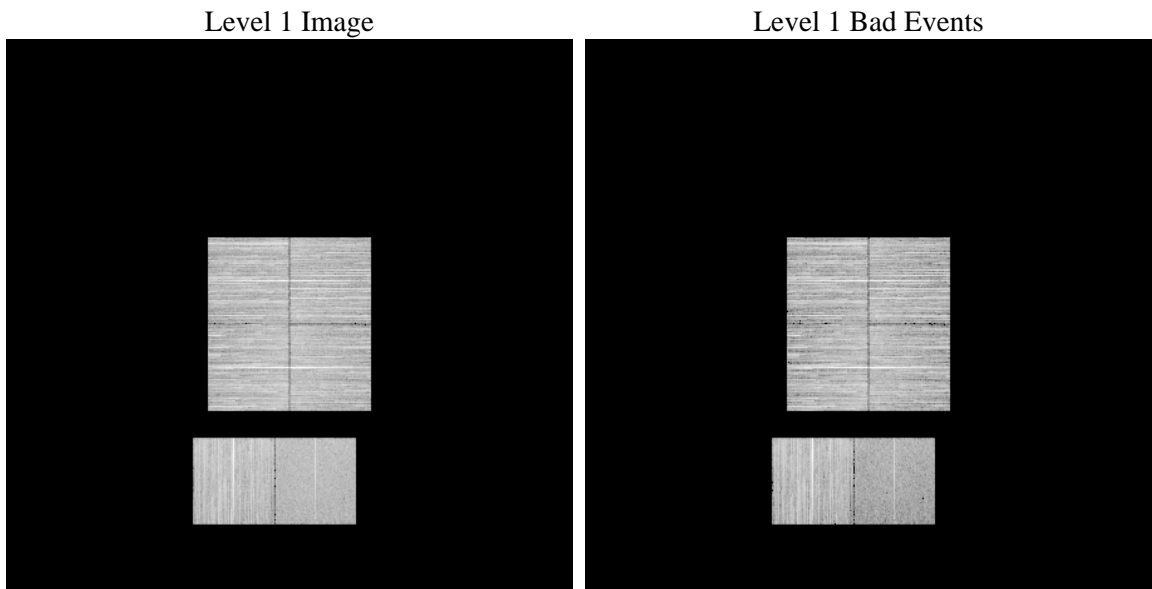
# 1 Front

seq_num	&#160	Sequence number
obs_id	51890	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	267.89481168711	Nominal RA [deg]
dec_nom	-21.269726924114	Nominal Dec [deg]
roll_nom	92.156067950935	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8089.9209297895	Sum of GTIs [s]
livetime	7987.481479811	Livetime [s]
ontime0	7924.5868496895	Sum of GTIs [s]
ontime1	7924.5458097458	Sum of GTIs [s]
ontime2	7930.9868496656	Sum of GTIs [s]
ontime3	7921.4279391766	Sum of GTIs [s]
ontime6	7924.4660538435	Sum of GTIs [s]
ontime7	8089.9209297895	Sum of GTIs [s]
l2events	146963	Number of level 2 events

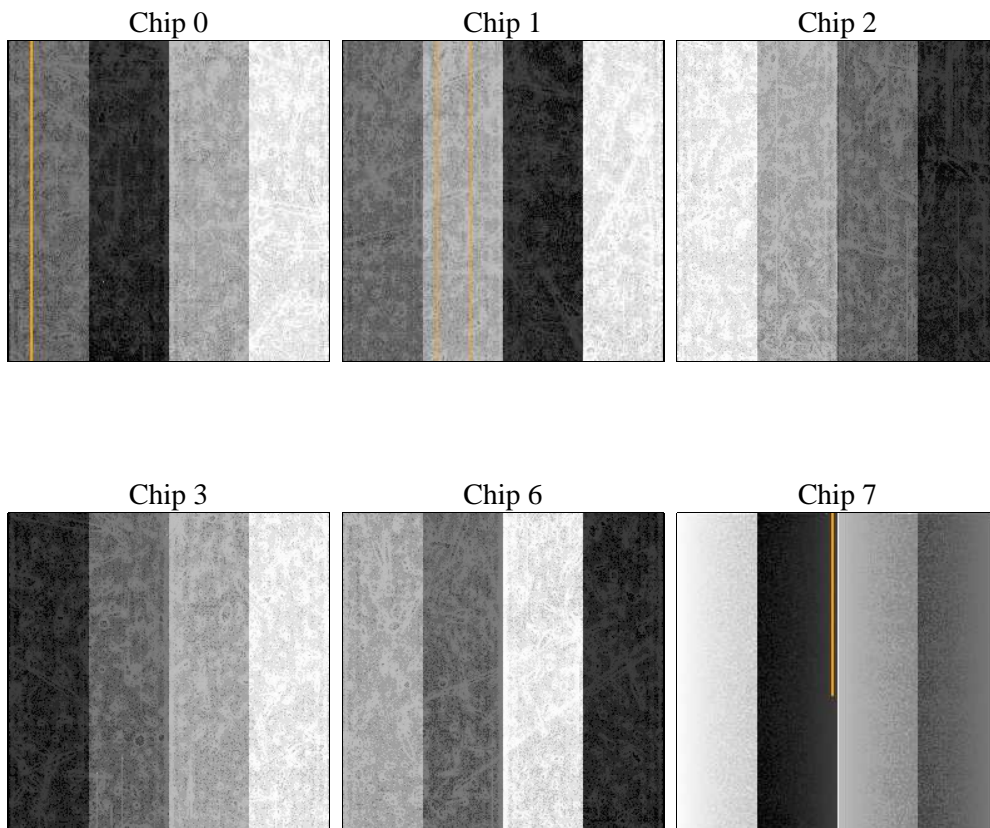
## 2 OBI

### 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	10.3.3	Processing system revision	ontime	8089.9209297895	Sum of GTIs [s]
caldbver	4.6.7	&#160	ontime0	7924.5868496895	Sum of GTIs [s]
date	2015-05-14T02:31:52	Date and time of file creation	ontime1	7924.5458097458	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	7930.9868496656	Sum of GTIs [s]
			ontime3	7921.4279391766	Sum of GTIs [s]
			ontime6	7924.4660538435	Sum of GTIs [s]
			ontime7	8089.9209297895	Sum of GTIs [s]
			l1events	783327	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	131597	131001	140353	128074	143319	108983	grade 0 events	10627	10359	11110	11253	10826	6144
rejected events	110014	109081	118388	106048	120326	62666		8%	7%	7%	8%	7%	5%
rejected %	83%	83%	84%	82%	83%	57%	grade 1 events	64	50	59	84	61	74
								0%	0%	0%	0%	0%	0%
							grade 2 events	4459	4947	4447	4240	4949	11587
								3%	3%	3%	3%	3%	10%
							grade 3 events	1577	1432	1554	1541	1532	3664
								1%	1%	1%	1%	1%	3%
							grade 4 events	1568	1513	1482	1608	1540	3599
								1%	1%	1%	1%	1%	3%
							grade 5 events	2494	2617	2439	2970	2790	6906
								1%	1%	1%	2%	1%	6%
							grade 6 events	3581	3877	3594	3570	4336	21729
								2%	2%	2%	2%	3%	19%
							grade 7 events	107227	106206	115668	102808	117285	55280
								81%	81%	82%	80%	81%	50%

## 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	267.8948116871138	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-21.26972692411385	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	92.15606795093534	[s] Primary exposure time	3.2	3.2
[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)	547917798.480494	547917797.45549			
Observation start date	2015-05-13T15:23:18	2015-05-13T15:23:17			
[s] Observation end time (MET)	547928661.431103	547928660.4061			
Observation end date	2015-05-13T18:24:21	2015-05-13T18:24:20			
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)	2015.05.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0899209297895

### A.2 Comments