

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 51909 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 5 2015

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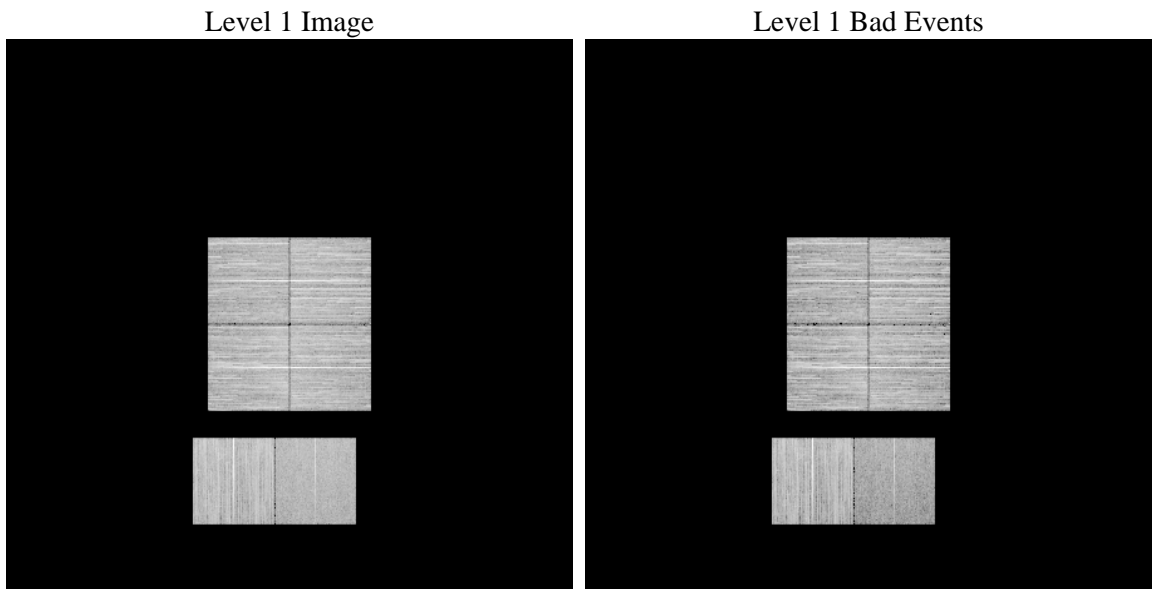
# 1 Front

seq_num	&#160	Sequence number
obs_id	51909	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	308.17977145158	Nominal RA [deg]
dec_nom	6.4504139366167	Nominal Dec [deg]
roll_nom	95.821272237366	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8216.2214592695	Sum of GTIs [s]
livetime	8112.1827159376	Livetime [s]
ontime0	8216.1804192066	Sum of GTIs [s]
ontime1	8216.1393792629	Sum of GTIs [s]
ontime2	8216.0983392	Sum of GTIs [s]
ontime3	8216.2624992132	Sum of GTIs [s]
ontime6	8216.0572992563	Sum of GTIs [s]
ontime7	8216.2214592695	Sum of GTIs [s]
l2events	149263	Number of level 2 events

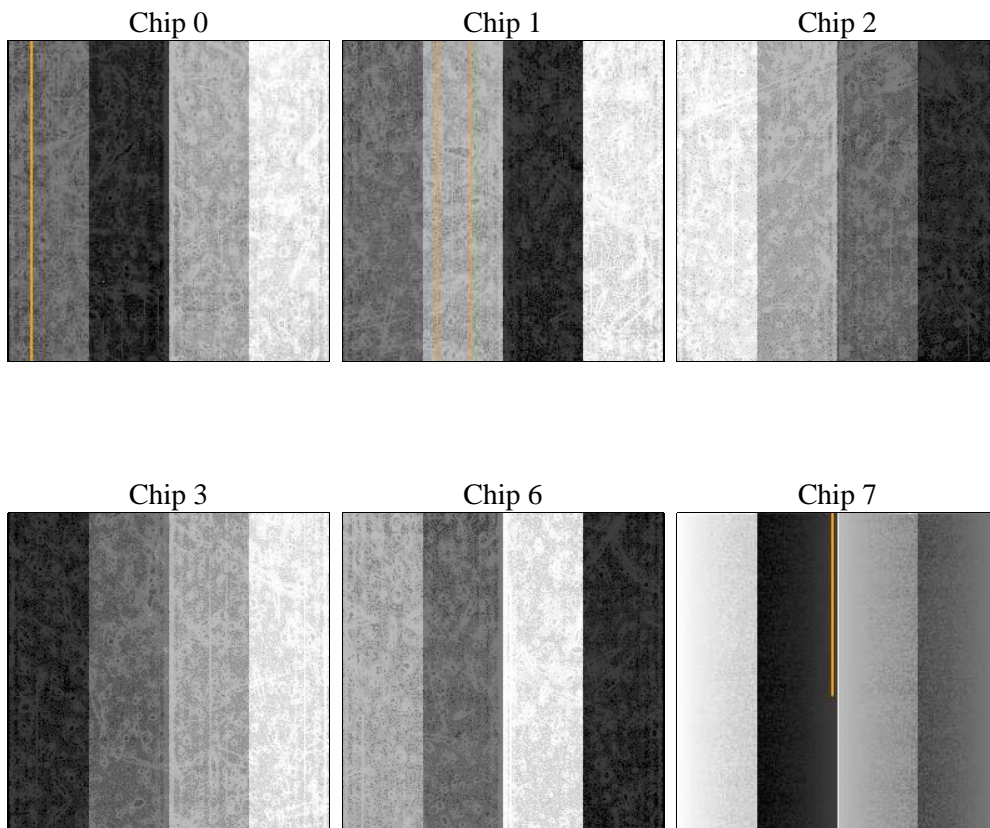
## 2 OBI

### 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	8216.2214592695	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime0	8216.1804192066	Sum of GTIs [s]
date	2015-05-06T01:37:15	Date and time of file creation	ontime1	8216.1393792629	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8216.0983392	Sum of GTIs [s]
			ontime3	8216.2624992132	Sum of GTIs [s]
			ontime6	8216.0572992563	Sum of GTIs [s]
			ontime7	8216.2214592695	Sum of GTIs [s]
			l1events	795394	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	127074	141506	138493	131673	144569	112079	grade 0 events	10799	10278	11119	11387	10903	6050
rejected events	105022	119545	116448	109292	121644	64804		8%	7%	8%	8%	7%	5%
rejected %	82%	84%	84%	83%	84%	57%	grade 1 events	50	71	63	77	51	91
								0%	0%	0%	0%	0%	0%
							grade 2 events	4653	4922	4366	4413	4939	11670
								3%	3%	3%	3%	3%	10%
							grade 3 events	1569	1528	1576	1642	1500	3694
								1%	1%	1%	1%	1%	3%
							grade 4 events	1512	1472	1566	1540	1536	3671
								1%	1%	1%	1%	1%	3%
							grade 5 events	2587	2672	2575	2950	2837	7230
								2%	1%	1%	2%	1%	6%
							grade 6 events	3609	3848	3501	3483	4143	22390
								2%	2%	2%	2%	2%	19%
							grade 7 events	102295	116715	113727	106181	118660	57283
								80%	82%	82%	80%	82%	51%

## 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	308.1797714515757
[deg] Pointing Dec	0	6.450413936616664
[deg] Pointing Roll	0.0	95.82127223736589
SIM focus pos (mm)	-1.4281808131	-1.4281808131
[mm] SIM defocus	0.1051557500557434	0.1051557500557434
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	547233457.1921721	547233457.1921721
Observation start date	2015-05-05T17:17:37	2015-05-05T17:17:37
[s] Observation end time (MET)	547243234.905531	547243234.905531
Observation end date	2015-05-05T20:00:35	2015-05-05T20:00:34
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
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	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.05.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2162214592695

### A.2 Comments