

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 52143 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jan 22 2015

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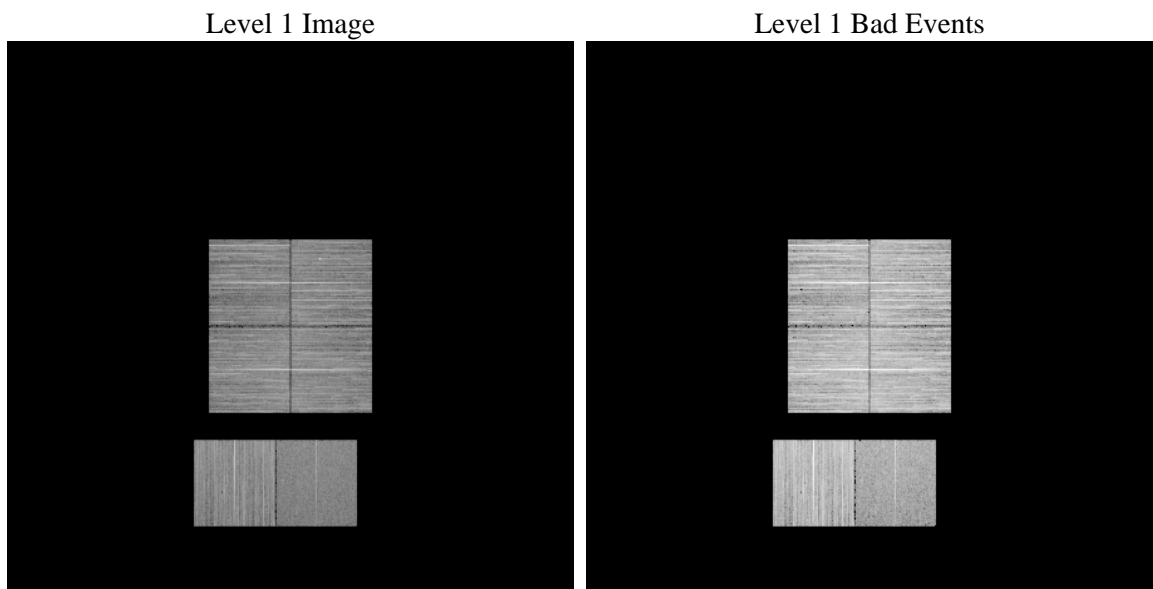
# 1 Front

seq_num	&#160	Sequence number
obs_id	52143	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	212.3670366872	Nominal RA [deg]
dec_nom	34.519961993958	Nominal Dec [deg]
roll_nom	92.530710453785	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8163.2001216412	Sum of GTIs [s]
livetime	8059.8327664119	Livetime [s]
ontime0	8163.2001216412	Sum of GTIs [s]
ontime1	8163.2001216412	Sum of GTIs [s]
ontime2	8163.2001216412	Sum of GTIs [s]
ontime3	8163.2001216412	Sum of GTIs [s]
ontime6	8163.1698386669	Sum of GTIs [s]
ontime7	8163.2001216412	Sum of GTIs [s]
l2events	159094	Number of level 2 events

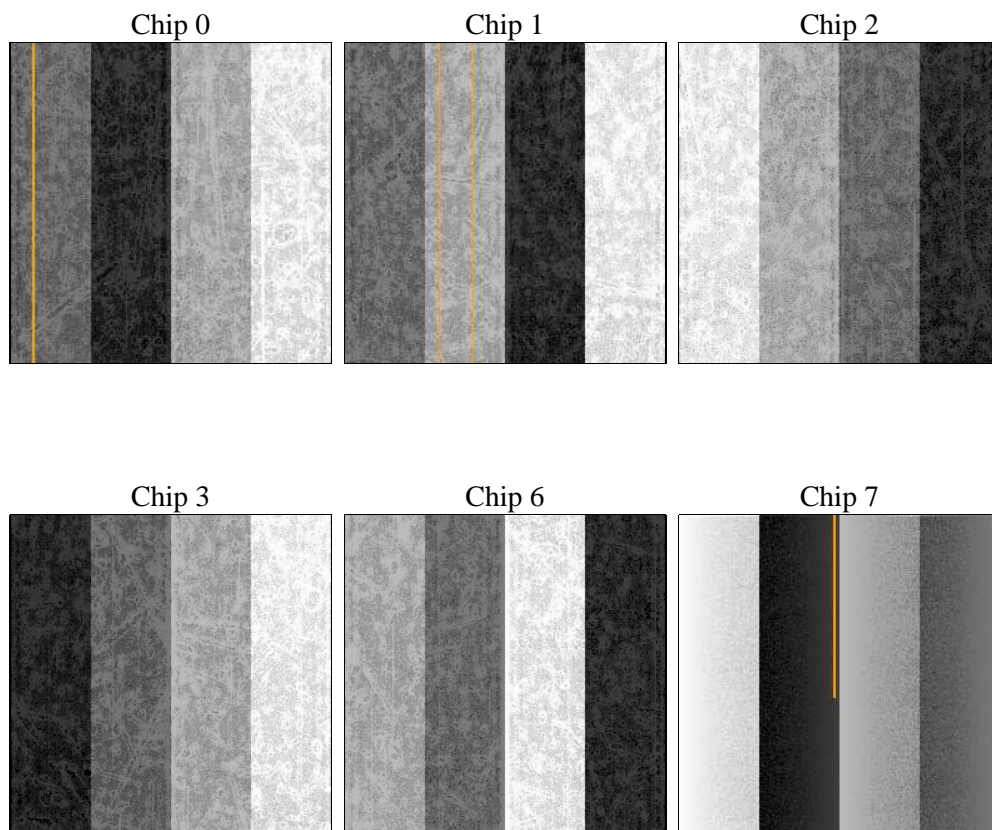
## 2 OBI

### 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	8163.2001216412	Sum of GTIs [s]
caldsver	4.6.6	&#160	ontime0	8163.2001216412	Sum of GTIs [s]
date	2015-01-23T03:06:33	Date and time of file creation	ontime1	8163.2001216412	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8163.2001216412	Sum of GTIs [s]
			ontime3	8163.2001216412	Sum of GTIs [s]
			ontime6	8163.1698386669	Sum of GTIs [s]
			ontime7	8163.2001216412	Sum of GTIs [s]
			l1events	902994	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	143287	158988	163109	158048	160264	119298	grade 0 events	11437	12494	12234	12033	10417	5774
rejected events	119324	132889	138930	134200	135618	71272		7%	7%	7%	7%	6%	4%
rejected %	83%	83%	85%	84%	84%	59%	grade 1 events	58	69	66	75	53	81
								0%	0%	0%	0%	0%	0%
							grade 2 events	5983	6859	5389	5332	7330	12596
								4%	4%	3%	3%	4%	10%
							grade 3 events	1634	1500	1679	1653	1456	3466
								1%	0%	1%	1%	0%	2%
							grade 4 events	1522	1463	1656	1660	1355	3360
								1%	0%	1%	1%	0%	2%
							grade 5 events	2617	2616	2530	2965	2648	6729
								1%	1%	1%	1%	1%	5%
							grade 6 events	4270	4628	4018	4057	4919	24537
								2%	2%	2%	2%	3%	20%
							grade 7 events	115766	129359	135537	130273	132086	62755
								80%	81%	83%	82%	82%	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	212.3670366871979
[deg] Pointing Dec	0	34.51996199395784
[deg] Pointing Roll	0.0	92.53071045378465
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)	538321405.593491	538321405.593491
Observation start date	2015-01-22T13:43:26	2015-01-22T13:43:25
[s] Observation end time (MET)	538331402.19961	538331402.19961
Observation end date	2015-01-22T16:30:02	2015-01-22T16:30:02
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)	2015.01.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1632001216412

### A.2 Comments