

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 51306 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jan 26 2016

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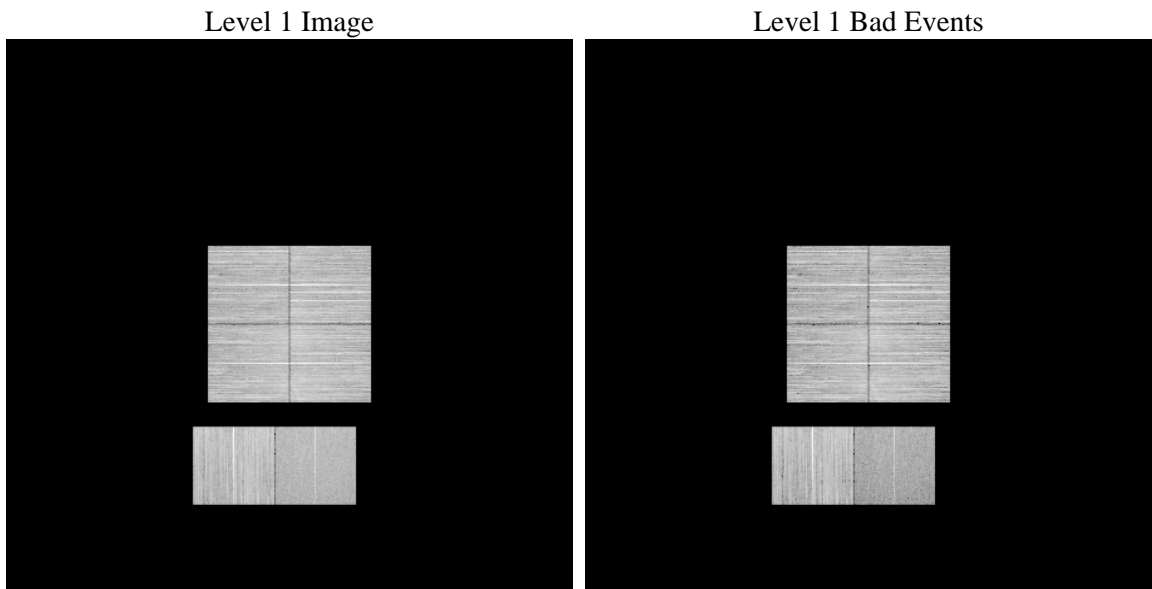
# 1 Front

seq_num	&#160	Sequence number
obs_id	51306	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	103.55625116406	Nominal RA [deg]
dec_nom	-10.076878632668	Nominal Dec [deg]
roll_nom	297.10067417631	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8307.2001237869	Sum of GTIs [s]
livetime	8202.0093538241	Livetime [s]
ontime0	8307.2001237869	Sum of GTIs [s]
ontime1	8307.2001237869	Sum of GTIs [s]
ontime2	8294.2357825041	Sum of GTIs [s]
ontime3	8307.2001237869	Sum of GTIs [s]
ontime6	8307.2001237869	Sum of GTIs [s]
ontime7	8307.2001237869	Sum of GTIs [s]
l2events	164495	Number of level 2 events

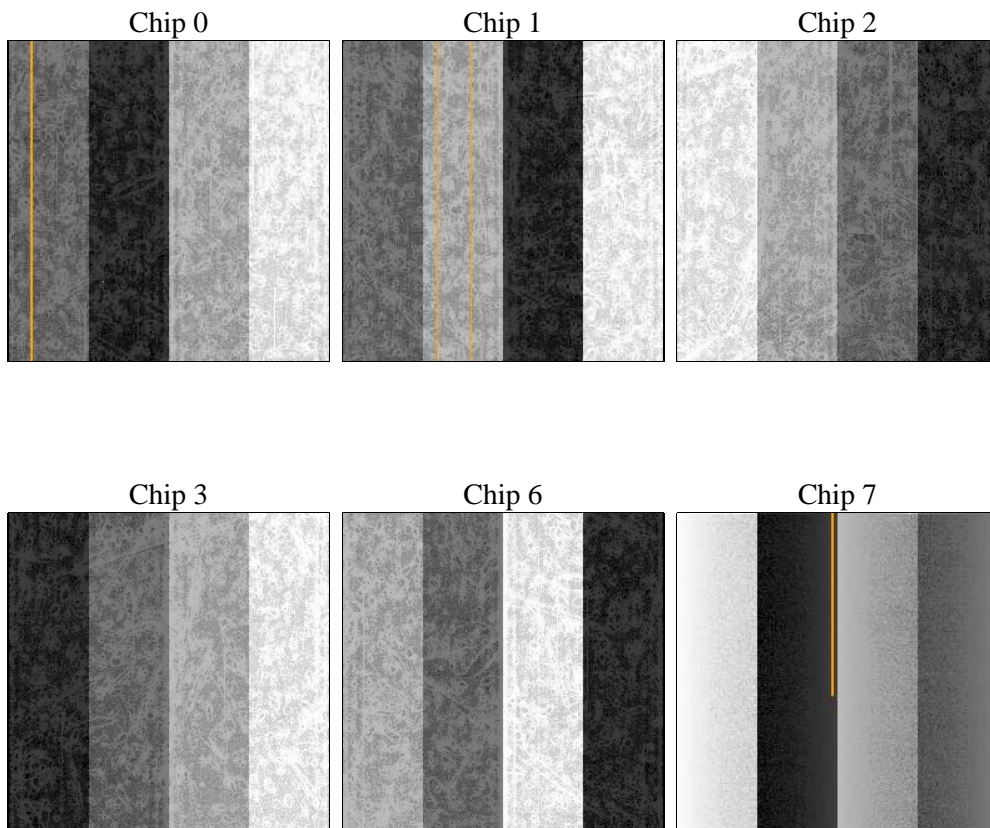
## 2 OBI

### 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	8307.2001237869	Sum of GTIs [s]
caldsver	4.7.0	&#160	ontime0	8307.2001237869	Sum of GTIs [s]
date	2016-01-26T18:18:34	Date and time of file creation	ontime1	8307.2001237869	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8294.2357825041	Sum of GTIs [s]
			ontime3	8307.2001237869	Sum of GTIs [s]
			ontime6	8307.2001237869	Sum of GTIs [s]
			ontime7	8307.2001237869	Sum of GTIs [s]
			l1events	1095524	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	171610	193581	188141	205398	196026	140768	grade 0 events	10931	9920	11394	11617	9959	5821
rejected events	147656	169080	164739	181006	171374	86542		6%	5%	6%	5%	5%	4%
rejected %	86%	87%	87%	88%	87%	61%	grade 1 events	78	64	63	81	62	101
								0%	0%	0%	0%	0%	0%
							grade 2 events	5807	6980	5090	5488	6892	14015
								3%	3%	2%	2%	3%	9%
							grade 3 events	1650	1556	1689	1671	1487	3764
								0%	0%	0%	0%	0%	2%
							grade 4 events	1564	1499	1652	1729	1454	3663
								0%	0%	0%	0%	0%	2%
							grade 5 events	3385	3154	3065	3707	3235	8196
								1%	1%	1%	1%	1%	5%
							grade 6 events	4377	4962	3977	4317	5283	27917
								2%	2%	2%	2%	2%	19%
							grade 7 events	143818	165446	161211	176788	167654	77291
								83%	85%	85%	86%	85%	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	OVERRIDE	OVERRIDE
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	103.5562511640611	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-10.07687863266812	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	297.1006741763093	[s] Primary exposure time	3.2	3.2
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)	570084774.421084	570084774.421084			
Observation start date	2016-01-25T04:52:54	2016-01-25T04:52:54			
[s] Observation end time (MET)	570097359.5722589	570097359.5722589			
Observation end date	2016-01-25T08:22:40	2016-01-25T08:22:39			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.01.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.3072001237869

### A.2 Comments