

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 51148 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Mar 28 2016

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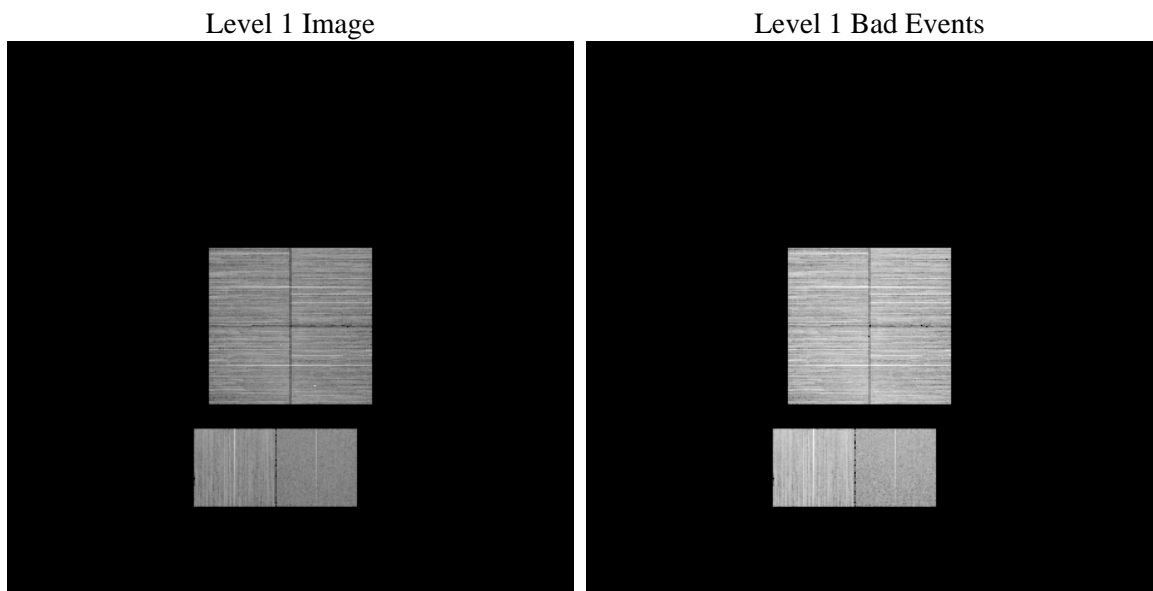
# 1 Front

seq_num	&#160	Sequence number
obs_id	51148	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	303.99245617404	Nominal RA [deg]
dec_nom	18.91323204566	Nominal Dec [deg]
roll_nom	82.548784160242	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7984.0001189709	Sum of GTIs [s]
livetime	7882.9019020768	Livetime [s]
ontime0	7984.0001189709	Sum of GTIs [s]
ontime1	7984.0001189709	Sum of GTIs [s]
ontime2	7984.0001189709	Sum of GTIs [s]
ontime3	7984.0001189709	Sum of GTIs [s]
ontime6	7984.0001189709	Sum of GTIs [s]
ontime7	7984.0001189709	Sum of GTIs [s]
l2events	138502	Number of level 2 events

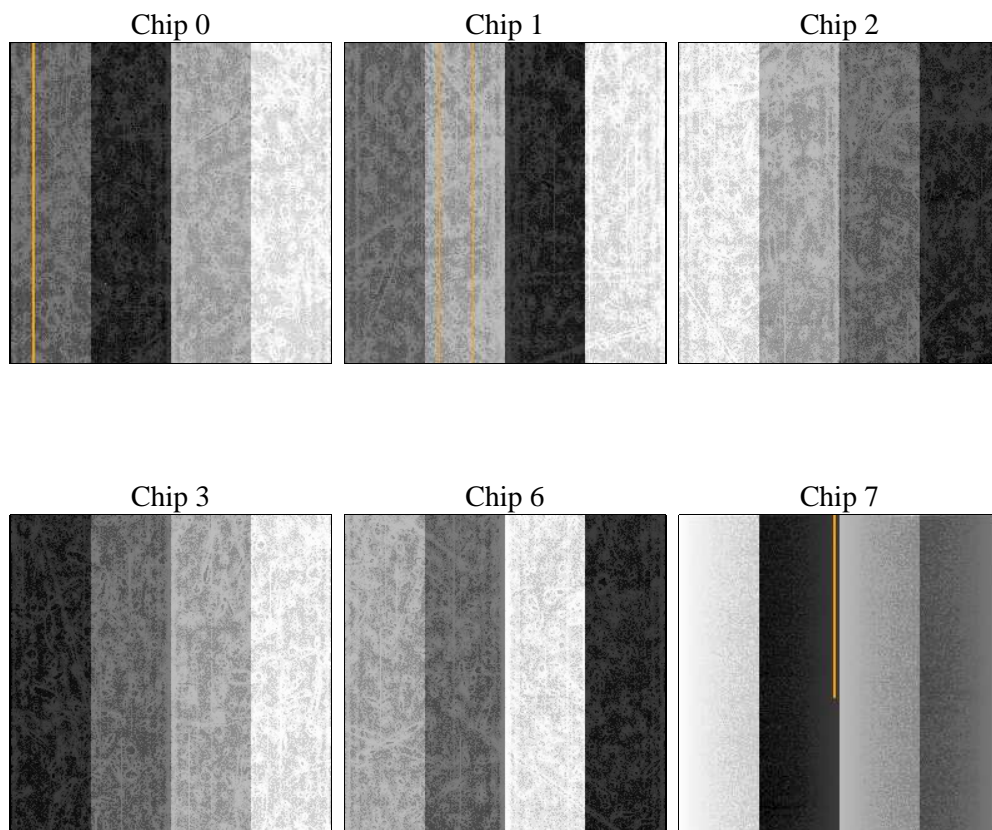
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	7984.0001189709	Sum of GTIs [s]
caldsver	4.7.1	&#160	ontime0	7984.0001189709	Sum of GTIs [s]
date	2016-03-28T13:53:52	Date and time of file creation	ontime1	7984.0001189709	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	7984.0001189709	Sum of GTIs [s]
			ontime3	7984.0001189709	Sum of GTIs [s]
			ontime6	7984.0001189709	Sum of GTIs [s]
			ontime7	7984.0001189709	Sum of GTIs [s]
			l1events	1025388	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	172365	186491	182373	172725	178877	132557	grade 0 events	9031	8370	9858	12264	8635	5223
rejected events	152932	166710	162695	150589	158619	83653		5%	4%	5%	7%	4%	3%
rejected %	88%	89%	89%	87%	88%	63%	grade 1 events	56	52	153	78	60	112
								0%	0%	0%	0%	0%	0%
							grade 2 events	5019	5640	4511	4556	5633	12780
								2%	3%	2%	2%	3%	9%
							grade 3 events	1429	1346	1460	1475	1368	3532
								0%	0%	0%	0%	0%	2%
							grade 4 events	1362	1313	1395	1526	1286	3467
								0%	0%	0%	0%	0%	2%
							grade 5 events	2981	2974	2938	3549	3137	8146
								1%	1%	1%	2%	1%	6%
							grade 6 events	3590	4069	3408	3385	4321	25918
								2%	2%	1%	1%	2%	19%
							grade 7 events	148897	162727	158650	145892	154437	73379
								86%	87%	86%	84%	86%	55%

## 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	303.9924561740426
[deg] Pointing Dec	0	18.91323204565963
[deg] Pointing Roll	0.0	82.54878416024196
SIM focus pos (mm)	-0.68282252473119	-0.68282252473119
[mm] SIM defocus	0.8505140384245534	0.8505140384245534
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	575523951.516472	575523951.516472
Observation start date	2016-03-28T03:45:52	2016-03-28T03:45:51
[s] Observation end time (MET)	575533497.434278	575533497.434278
Observation end date	2016-03-28T06:24:57	2016-03-28T06:24:57
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	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.03.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.9840001189709

### A.2 Comments