

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 53832 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Mar 27 2013

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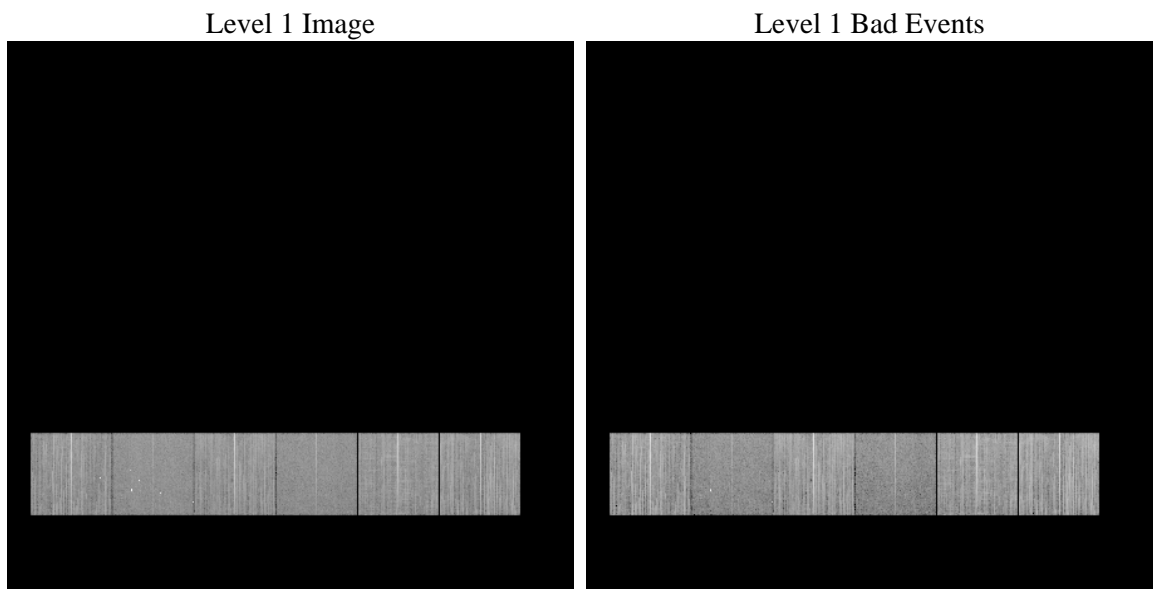
# 1 Front

seq_num	&#160	Sequence number
obs_id	53832	Observation id
title	ACIS-456789 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	170.08901883845	Nominal RA [deg]
dec_nom	20.073159857957	Nominal Dec [deg]
roll_nom	216.06282024208	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8278.1492623687	Sum of GTIs [s]
livetime	8173.3263519055	Livetime [s]
ontime4	8278.0261423588	Sum of GTIs [s]
ontime5	8278.1082223654	Sum of GTIs [s]
ontime6	8278.0671823621	Sum of GTIs [s]
ontime7	8278.1492623687	Sum of GTIs [s]
ontime8	8277.9851023555	Sum of GTIs [s]
ontime9	8278.190302372	Sum of GTIs [s]
l2events	248903	Number of level 2 events

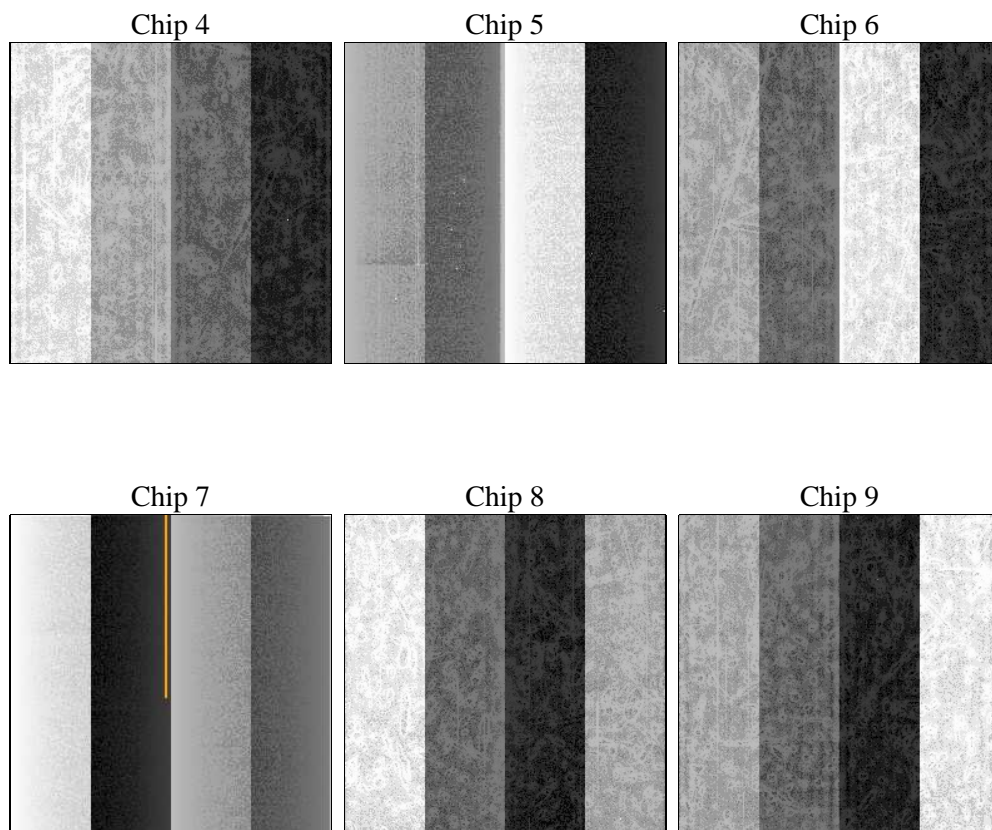
## 2 OBI

### 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	8.5.1.1	Processing system revision	ontime	8278.1492623687	Sum of GTIs [s]
caldsver	4.5.6	&#160	ontime4	8278.0261423588	Sum of GTIs [s]
date	2013-03-27T17:10:57	Date and time of file creation	ontime5	8278.1082223654	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8278.0671823621	Sum of GTIs [s]
			ontime7	8278.1492623687	Sum of GTIs [s]
			ontime8	8277.9851023555	Sum of GTIs [s]
			ontime9	8278.190302372	Sum of GTIs [s]
			l1events	972586	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	164356	144372	170410	131823	173563	188062	grade 0 events	19847	7373	15327	8057	19635	17084
rejected events	128263	78469	134966	71943	129098	153109		12%	5%	8%	6%	11%	9%
rejected %	78%	54%	79%	54%	74%	81%	grade 1 events	143	230	57	97	103	107
								0%	0%	0%	0%	0%	0%
							grade 2 events	6719	24590	9636	15217	9901	7663
								4%	17%	5%	11%	5%	4%
							grade 3 events	2441	2004	1932	4454	3201	2153
								1%	1%	1%	3%	1%	1%
							grade 4 events	2467	1844	1905	4386	3155	2131
								1%	1%	1%	3%	1%	1%
							grade 5 events	3156	5935	2787	7151	3983	3483
								1%	4%	1%	5%	2%	1%
							grade 6 events	4633	30116	6659	27793	8584	5934
								2%	20%	3%	21%	4%	3%
							grade 7 events	124950	72280	132107	64668	125001	149507
								76%	50%	77%	49%	72%	79%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	170.0890188384523	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	20.07315985795708	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	216.0628202420762	[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)	480733683.925648	480733682.90065			
Observation start date	2013-03-27T01:08:04	2013-03-27T01:08:02			
[s] Observation end time (MET)	480743864.226199	480743863.2012			
Observation end date	2013-03-27T03:57:44	2013-03-27T03:57:43			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.03.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2781492623687

### A.2 Comments