

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 53642 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jun 11 2013

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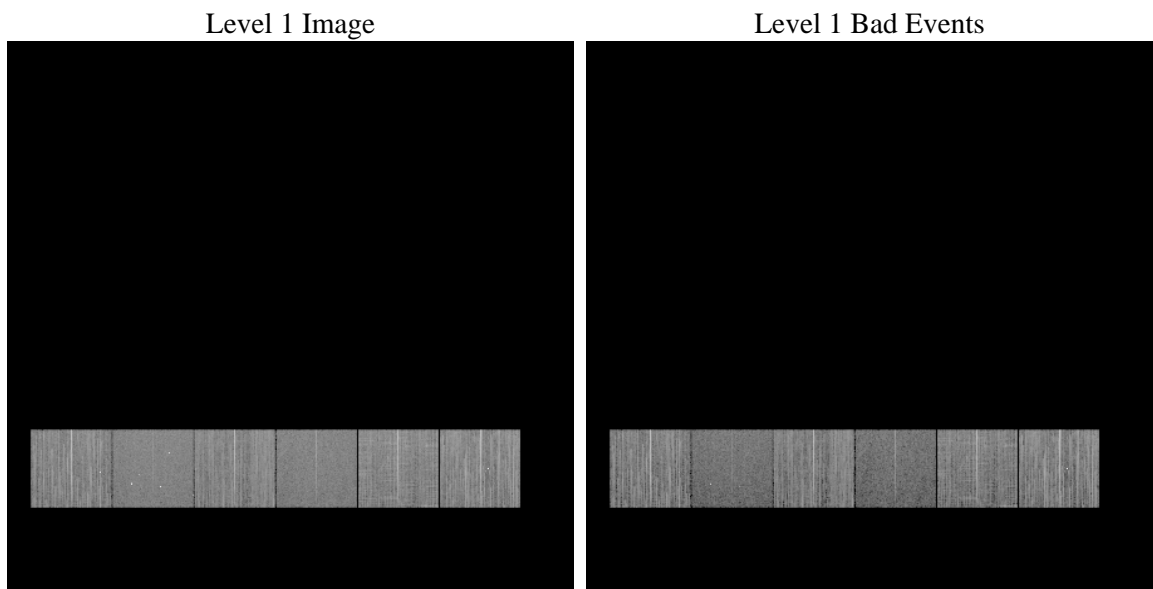
# 1 Front

seq_num	&#160	Sequence number
obs_id	53642	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	292.56116598436	Nominal RA [deg]
dec_nom	-19.864498780596	Nominal Dec [deg]
roll_nom	102.02650910084	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8079.1609764695	Sum of GTIs [s]
livetime	7976.8577754988	Livetime [s]
ontime4	8079.0378564596	Sum of GTIs [s]
ontime5	8079.1199364662	Sum of GTIs [s]
ontime6	8079.0788964629	Sum of GTIs [s]
ontime7	8079.1609764695	Sum of GTIs [s]
ontime8	8078.9968164563	Sum of GTIs [s]
ontime9	8079.2020164728	Sum of GTIs [s]
l2events	228056	Number of level 2 events

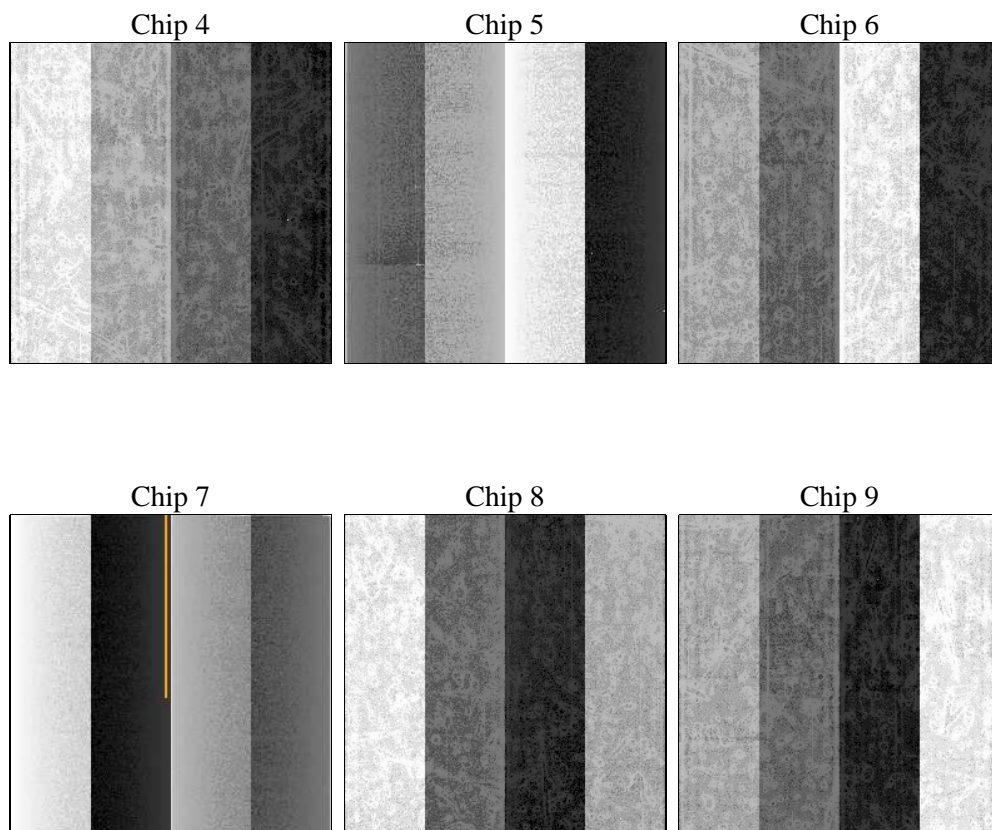
## 2 OBI

### 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	Processing system revision	ontime	8079.1609764695	Sum of GTIs [s]
caldsver	4.5.6	&#160	ontime4	8079.0378564596	Sum of GTIs [s]
date	2013-06-11T21:32:54	Date and time of file creation	ontime5	8079.1199364662	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8079.0788964629	Sum of GTIs [s]
			ontime7	8079.1609764695	Sum of GTIs [s]
			ontime8	8078.9968164563	Sum of GTIs [s]
			ontime9	8079.2020164728	Sum of GTIs [s]
			l1events	876920	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	153208	131453	148727	119248	154793	169491	grade 0 events	19069	9566	16817	8558	19144	16472
rejected events	120084	69390	116260	64041	113787	137503		12%	7%	11%	7%	12%	9%
rejected %	78%	52%	78%	53%	73%	81%	grade 1 events	122	135	71	66	112	2576
								0%	0%	0%	0%	0%	1%
							grade 2 events	6174	22791	6521	13994	8531	6492
								4%	17%	4%	11%	5%	3%
							grade 3 events	2288	2281	2183	4742	3326	2251
								1%	1%	1%	3%	2%	1%
							grade 4 events	2168	2229	2148	4597	3036	2168
								1%	1%	1%	3%	1%	1%
							grade 5 events	2930	6066	3044	7176	3903	3309
								1%	4%	2%	6%	2%	1%
							grade 6 events	4282	26744	5638	24678	8082	5438
								2%	20%	3%	20%	5%	3%
							grade 7 events	116175	61641	112305	55437	108659	130785
								75%	46%	75%	46%	70%	77%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	292.5611659843638
[deg] Pointing Dec	0	-19.86449878059576
[deg] Pointing Roll	0.0	102.02650910084
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)	487326861.482946	487326861.482946
Observation start date	2013-06-11T08:34:21	2013-06-11T08:34:21
[s] Observation end time (MET)	487336408.726255	487336408.726255
Observation end date	2013-06-11T11:13:29	2013-06-11T11:13:28
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	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.06.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0791609764695

### A.2 Comments