

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 56512 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Jun 19 2012

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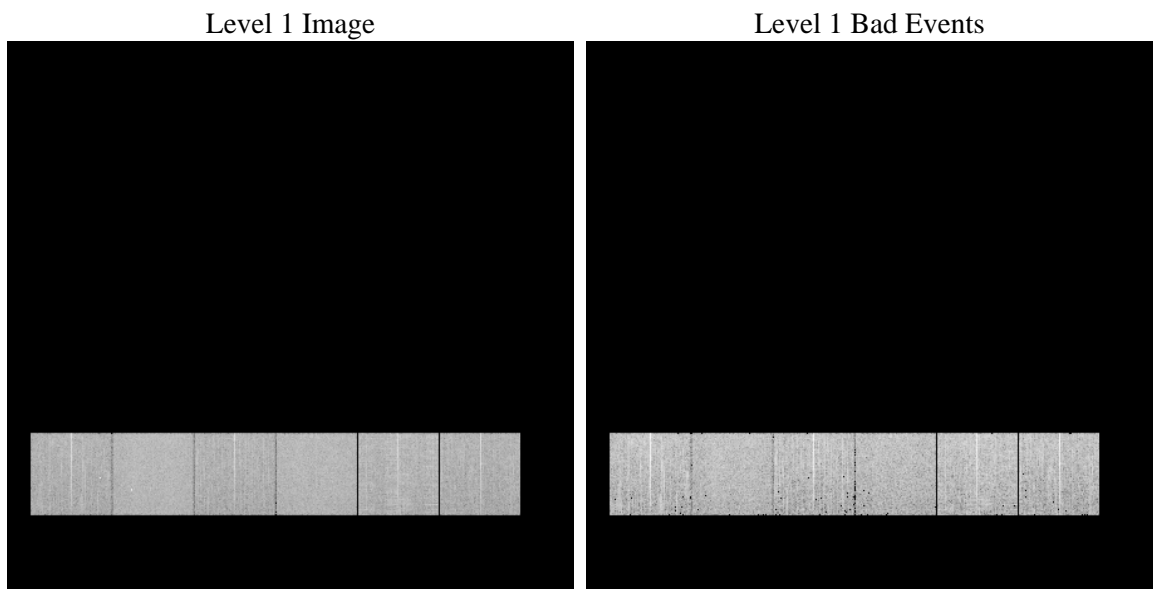
# 1 Front

seq_num	&#160	Sequence number
obs_id	56512	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	145.04418774428	Nominal RA [deg]
dec_nom	19.023443656568	Nominal Dec [deg]
roll_nom	80.825307928298	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4335.6864186525	Sum of GTIs [s]
livetime	4280.7853465826	Livetime [s]
ontime4	4335.5632986426	Sum of GTIs [s]
ontime5	4335.6453786492	Sum of GTIs [s]
ontime6	4335.6043386459	Sum of GTIs [s]
ontime7	4335.6864186525	Sum of GTIs [s]
ontime8	4335.5222586393	Sum of GTIs [s]
ontime9	4335.7274586558	Sum of GTIs [s]
l2events	245337	Number of level 2 events

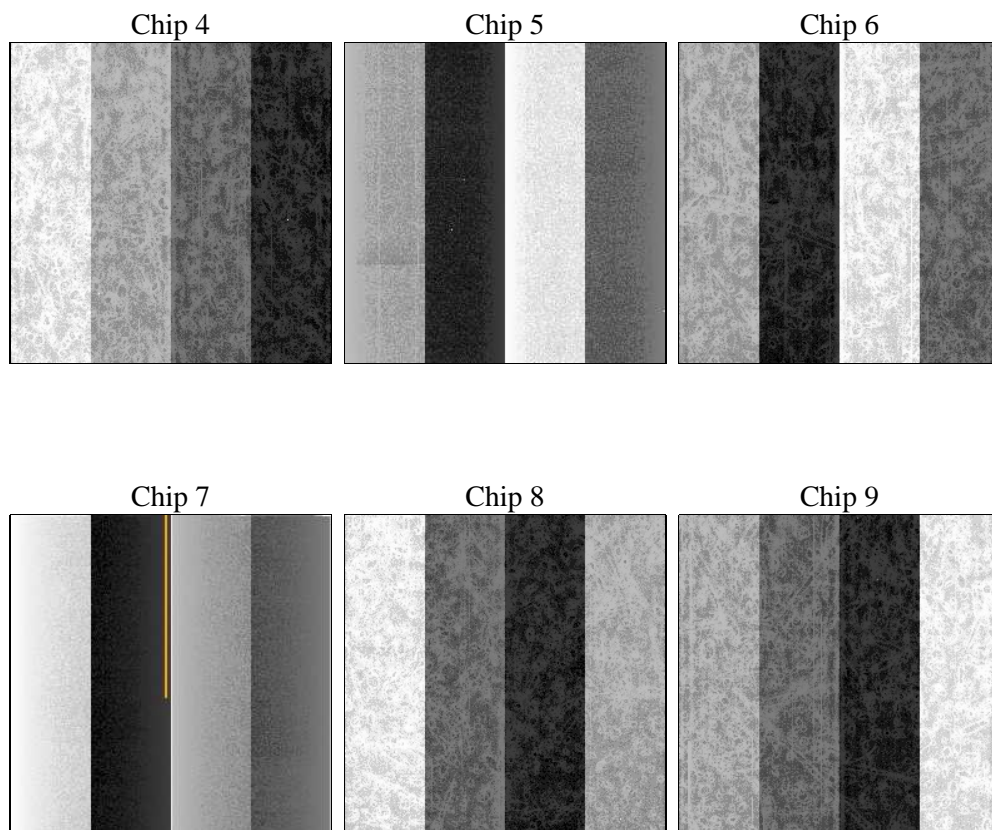
## 2 OBI

### 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	8.4.5	Processing system revision	ontime	4335.6864186525	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime4	4335.5632986426	Sum of GTIs [s]
date	2012-06-19T23:56:10	Date and time of file creation	ontime5	4335.6453786492	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	4335.6043386459	Sum of GTIs [s]
			ontime7	4335.6864186525	Sum of GTIs [s]
			ontime8	4335.5222586393	Sum of GTIs [s]
			ontime9	4335.7274586558	Sum of GTIs [s]
			l1events	539806	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	82871	99830	82571	97163	95773	81598	grade 0 events	20238	6986	19832	10289	22395	19925
rejected events	47919	42701	45211	40695	49810	45045		24%	6%	24%	10%	23%	24%
rejected %	57%	42%	54%	41%	52%	55%	grade 1 events	233	124	143	98	159	152
								0%	0%	0%	0%	0%	0%
							grade 2 events	5775	21529	6938	12739	9162	6650
								6%	21%	8%	13%	9%	8%
							grade 3 events	2619	2560	2536	5292	3610	2573
								3%	2%	3%	5%	3%	3%
							grade 4 events	2553	2348	2388	4981	3388	2537
								3%	2%	2%	5%	3%	3%
							grade 5 events	2273	5316	2509	6221	3206	2677
								2%	5%	3%	6%	3%	3%
							grade 6 events	4841	25427	6798	24897	8657	5981
								5%	25%	8%	25%	9%	7%
							grade 7 events	44339	35540	41427	32646	45196	41103
								53%	35%	50%	33%	47%	50%

## 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	145.0441877442817
[deg] Pointing Dec	0	19.02344365656776
[deg] Pointing Roll	0.0	80.82530792829809
[mm] SIM focus pos	-0.68282252473119	-0.68282252473119
[mm] SIM defocus	0.8505140384245534	0.8505140384245534
[mm] SIM translation stage pos	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	379975536.564136	379975536.564136
Observation start date	2010-01-15T20:45:37	2010-01-15T20:45:36
[s] Observation end time (MET)	379981035.027024	379981035.027024
Observation end date	2010-01-15T22:17:15	2010-01-15T22:17:15
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)	2012.06.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.3356864186525

### A.2 Comments