

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 56027 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Jul 3 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Star Slots . . . . .	6
2.4	FID Slots . . . . .	6
<b>A</b>	<b>Summary</b>	<b>7</b>
A.1	Status . . . . .	7
A.2	Comments . . . . .	7

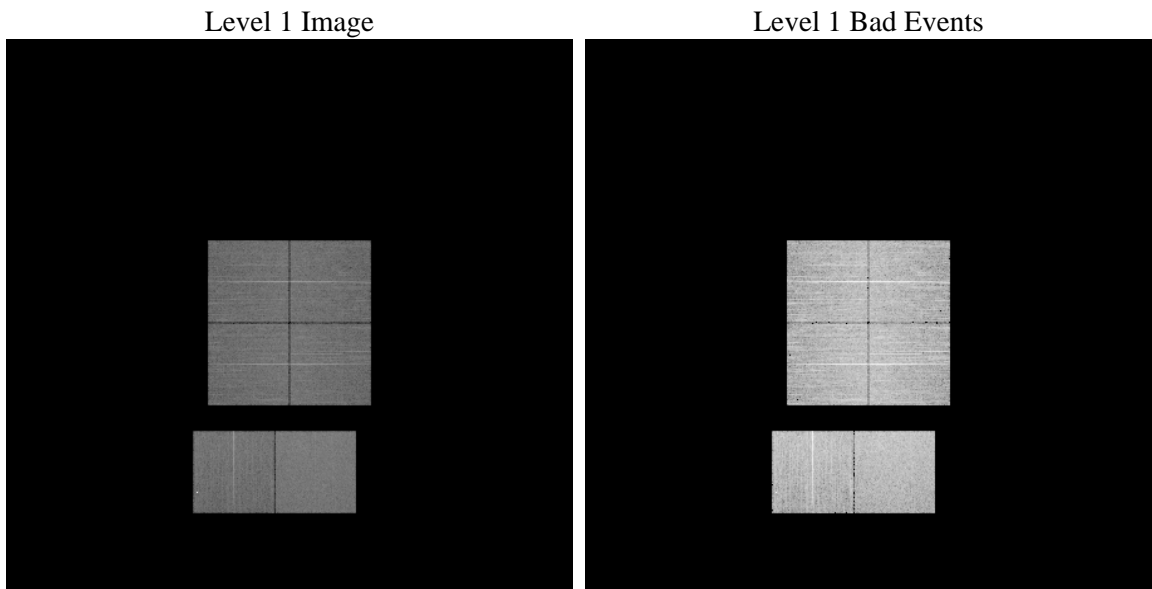
# 1 Front

seq_num	&#160	Sequence number
obs_id	56027	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	10.009955710378	Nominal RA [deg]
dec_nom	-24.972654922576	Nominal Dec [deg]
roll_nom	38.902459093172	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8110.5642478466	Sum of GTIs [s]
livetime	8007.8633997449	Livetime [s]
ontime0	8107.2821875215	Sum of GTIs [s]
ontime1	8110.48216784	Sum of GTIs [s]
ontime2	8110.4411278367	Sum of GTIs [s]
ontime3	8110.6052878499	Sum of GTIs [s]
ontime6	8110.4000878334	Sum of GTIs [s]
ontime7	8110.5642478466	Sum of GTIs [s]
l2events	360453	Number of level 2 events

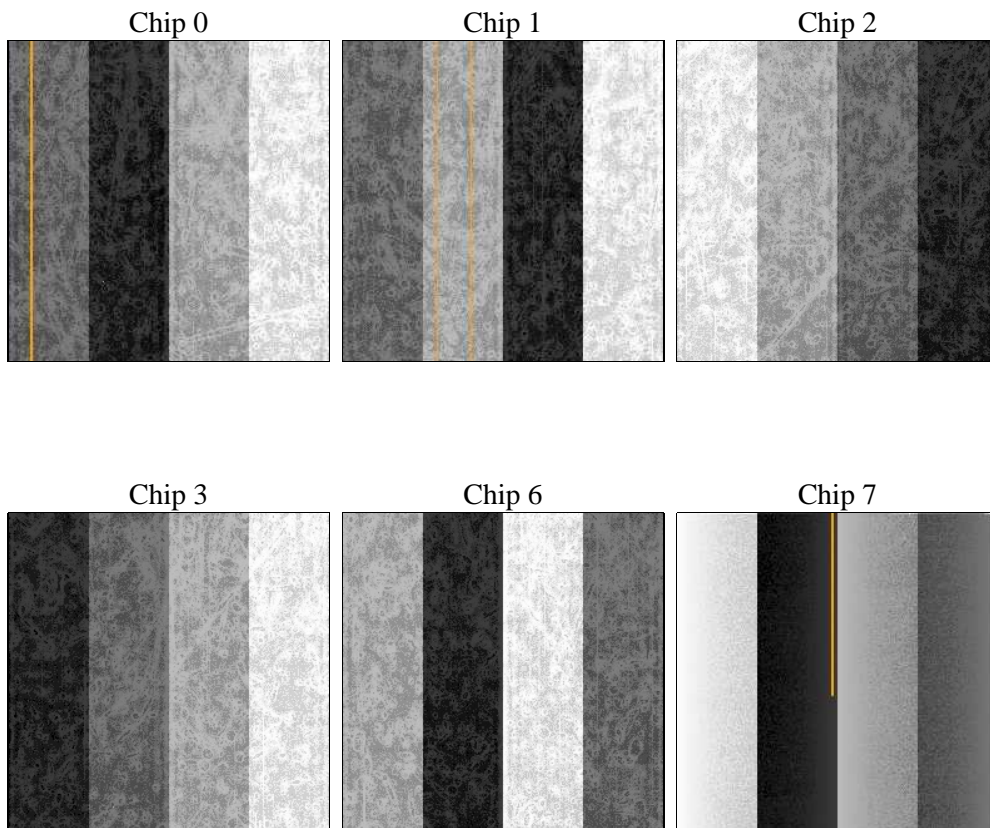
## 2 OBI

### 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	8110.5642478466	Sum of GTIs [s]
caldsver	4.5.0	&#160	ontime0	8107.2821875215	Sum of GTIs [s]
date	2012-07-03T10:46:09	Date and time of file creation	ontime1	8110.48216784	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	8110.4411278367	Sum of GTIs [s]
			ontime3	8110.6052878499	Sum of GTIs [s]
			ontime6	8110.4000878334	Sum of GTIs [s]
			ontime7	8110.5642478466	Sum of GTIs [s]
			l1events	775067	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	118624	118871	123053	125764	131082	157673	grade 0 events	30885	30523	31752	32085	33827	16377
rejected events	61489	60903	65745	67659	66779	66455		26%	25%	25%	25%	25%	10%
rejected %	51%	51%	53%	53%	50%	42%	grade 1 events	206	174	231	220	149	138
								0%	0%	0%	0%	0%	0%
							grade 2 events	10579	11407	10241	10502	13526	20156
								8%	9%	8%	8%	10%	12%
							grade 3 events	4062	3973	4050	4004	3908	8349
								3%	3%	3%	3%	2%	5%
							grade 4 events	3913	3938	4067	4134	4113	8559
								3%	3%	3%	3%	3%	5%
							grade 5 events	3724	3903	3624	4215	4104	10271
								3%	3%	2%	3%	3%	6%
							grade 6 events	8943	9372	8522	8650	10333	39718
								7%	7%	6%	6%	7%	25%
							grade 7 events	56312	55581	60566	61954	61122	54105
								47%	46%	49%	49%	46%	34%

## 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	10.00995571037833
[deg] Pointing Dec	0	-24.97265492257571
[deg] Pointing Roll	0.0	38.90245909317221
[mm] SIM focus pos	-1.4281808131	-1.4281808131
[mm] SIM defocus	0.1051557500557434	0.1051557500557434
[mm] SIM translation stage pos	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	400956832.532784	400956832.532784
Observation start date	2010-09-15T16:53:53	2010-09-15T16:53:52
[s] Observation end time (MET)	400966380.459404	400966380.459404
Observation end date	2010-09-15T19:33:00	2010-09-15T19:33:00
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)	2012.07.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1105642478466

### A.2 Comments