

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 60031 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 9 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

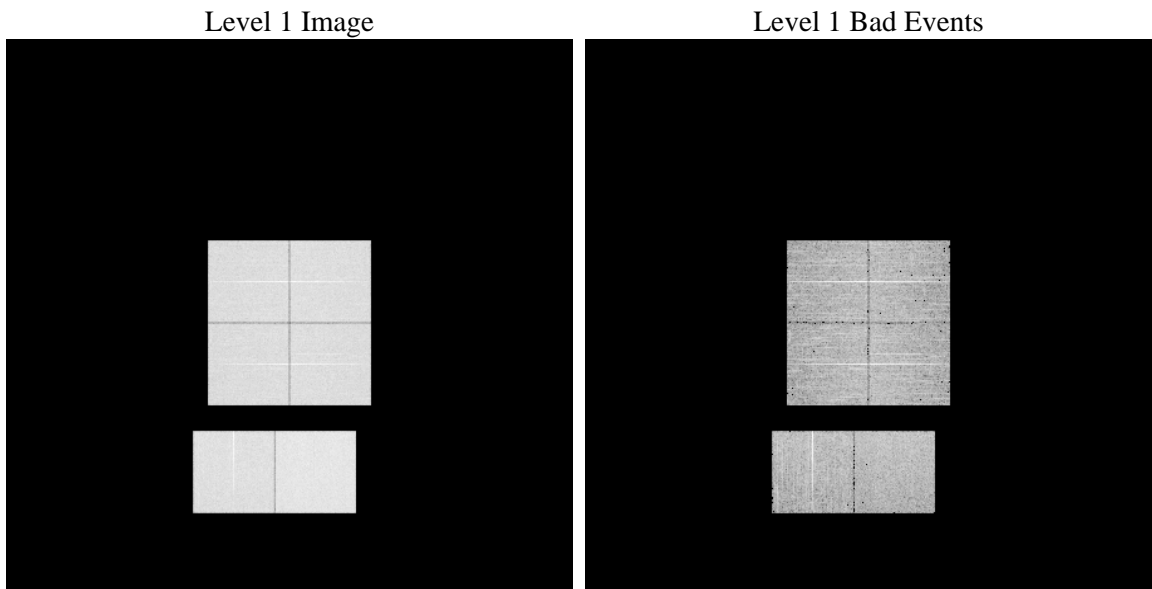
# 1 Front

seq_num	&#160	Sequence number
obs_id	60031	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	195.65679689599	Nominal RA [deg]
dec_nom	-63.217997666599	Nominal Dec [deg]
roll_nom	195.41075152355	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7798.1867779791	Sum of GTIs [s]
livetime	7699.441441492	Livetime [s]
ontime0	6219.7973381281	Sum of GTIs [s]
ontime1	6439.8820366859	Sum of GTIs [s]
ontime2	5982.9056887925	Sum of GTIs [s]
ontime3	6145.337700367	Sum of GTIs [s]
ontime6	6563.2161682546	Sum of GTIs [s]
ontime7	7798.1867779791	Sum of GTIs [s]
l2events	1083843	Number of level 2 events

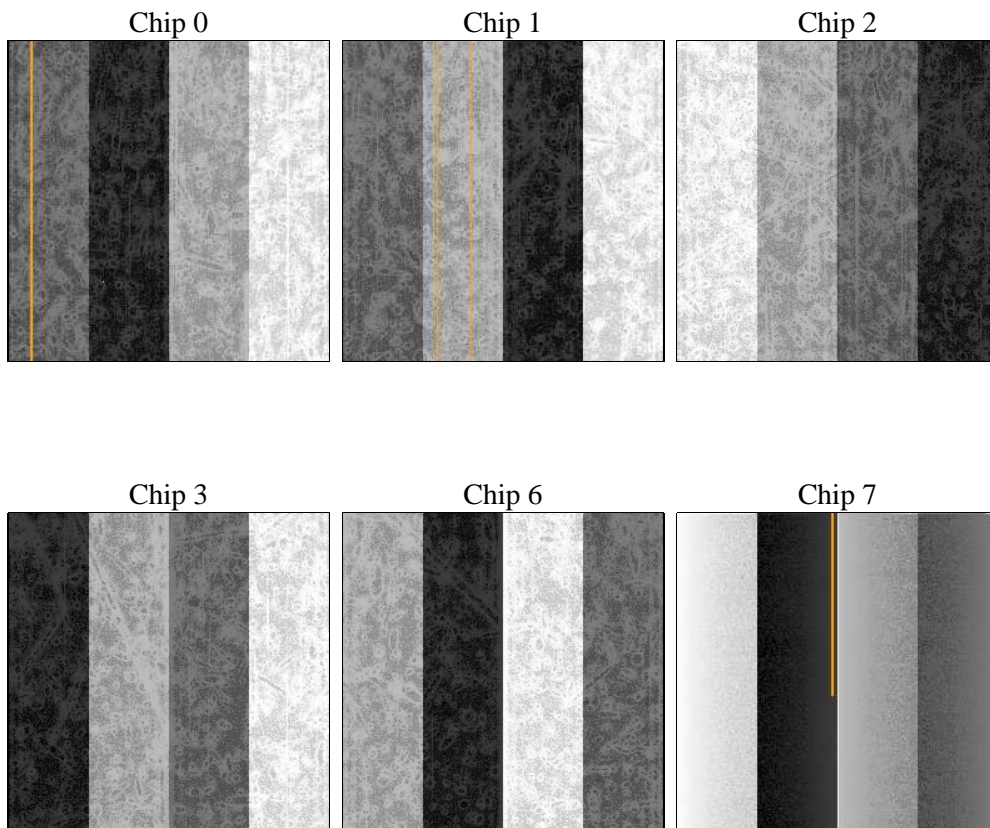
## 2 OBI

### 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	8.5	Processing system revision	ontime	7798.1867779791	Sum of GTIs [s]
caldsver	4.5.4	&#160	ontime0	6219.7973381281	Sum of GTIs [s]
date	2012-12-09T07:47:38	Date and time of file creation	ontime1	6439.8820366859	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	5982.9056887925	Sum of GTIs [s]
			ontime3	6145.337700367	Sum of GTIs [s]
			ontime6	6563.2161682546	Sum of GTIs [s]
			ontime7	7798.1867779791	Sum of GTIs [s]
			l1events	1412905	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	218650	225589	214875	221451	241841	290499	grade 0 events	96050	99223	94734	97880	105354	58153
rejected events	43653	44536	44882	46500	48409	47049		43%	43%	44%	44%	43%	20%
rejected %	19%	19%	20%	20%	20%	16%	grade 1 events	568	511	611	603	530	196
								0%	0%	0%	0%	0%	0%
							grade 2 events	30811	32206	28723	30104	33494	53454
								14%	14%	13%	13%	13%	18%
							grade 3 events	11496	11557	11169	11362	12018	24317
								5%	5%	5%	5%	4%	8%
							grade 4 events	11282	11650	11268	11501	11814	23952
								5%	5%	5%	5%	4%	8%
							grade 5 events	2809	3003	2517	2902	3187	8639
								1%	1%	1%	1%	1%	2%
							grade 6 events	25449	26417	24099	24201	30849	83669
								11%	11%	11%	10%	12%	28%
							grade 7 events	40185	41022	41754	42898	44595	38119
								18%	18%	19%	19%	18%	13%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
[deg] Pointing RA	0	195.6567968959893	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-63.21799766659875	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	195.410751523548			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.7524282956875696			
[mm] SIM translation stage pos	-233.592463	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	212458766.607164	212458765.58216			
Observation start date	2004-09-25T00:19:27	2004-09-25T00:19:25			
[s] Observation end time (MET)	212499282.808976	212499281.78397			
Observation end date	2004-09-25T11:34:43	2004-09-25T11:34:41			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2013.01.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.7981867779791

### A.2 Comments