

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 55023 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Feb 27 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

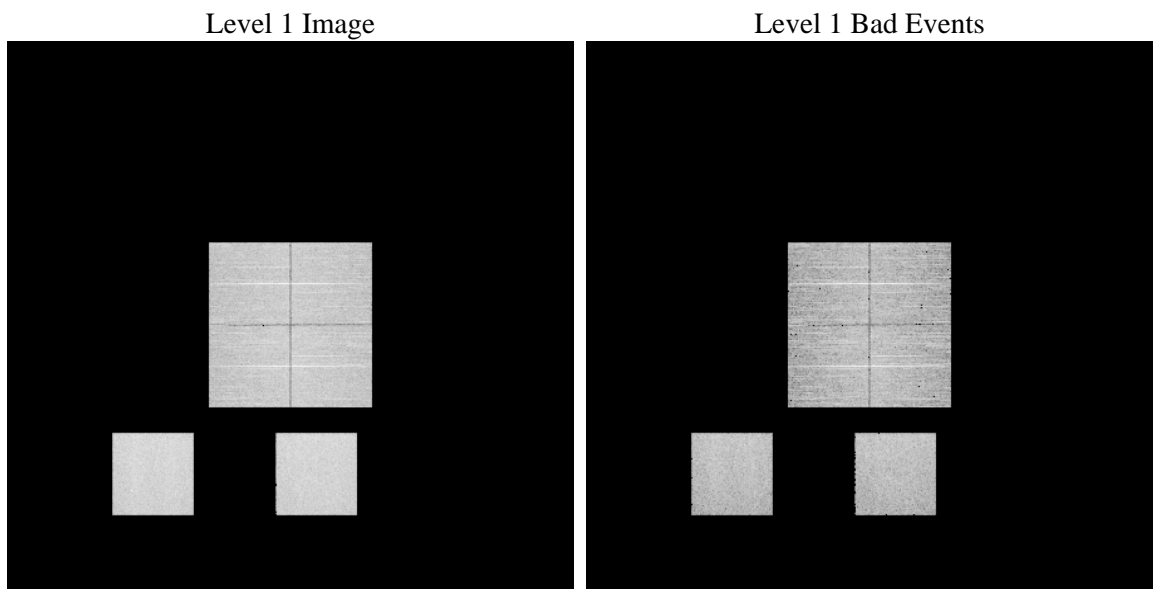
# 1 Front

seq_num	&#160	Sequence number
obs_id	55023	Observation id
title	ACIS-012357 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	97.977765204381	Nominal RA [deg]
dec_nom	30.020919055694	Nominal Dec [deg]
roll_nom	98.079590905328	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8287.3248671293	Sum of GTIs [s]
livetime	8182.3857696338	Livetime [s]
ontime0	8184.0279675126	Sum of GTIs [s]
ontime1	8187.2279675007	Sum of GTIs [s]
ontime2	8158.0178036094	Sum of GTIs [s]
ontime3	8180.3707832098	Sum of GTIs [s]
ontime5	8287.6181275249	Sum of GTIs [s]
ontime7	8287.3248671293	Sum of GTIs [s]
l2events	307198	Number of level 2 events

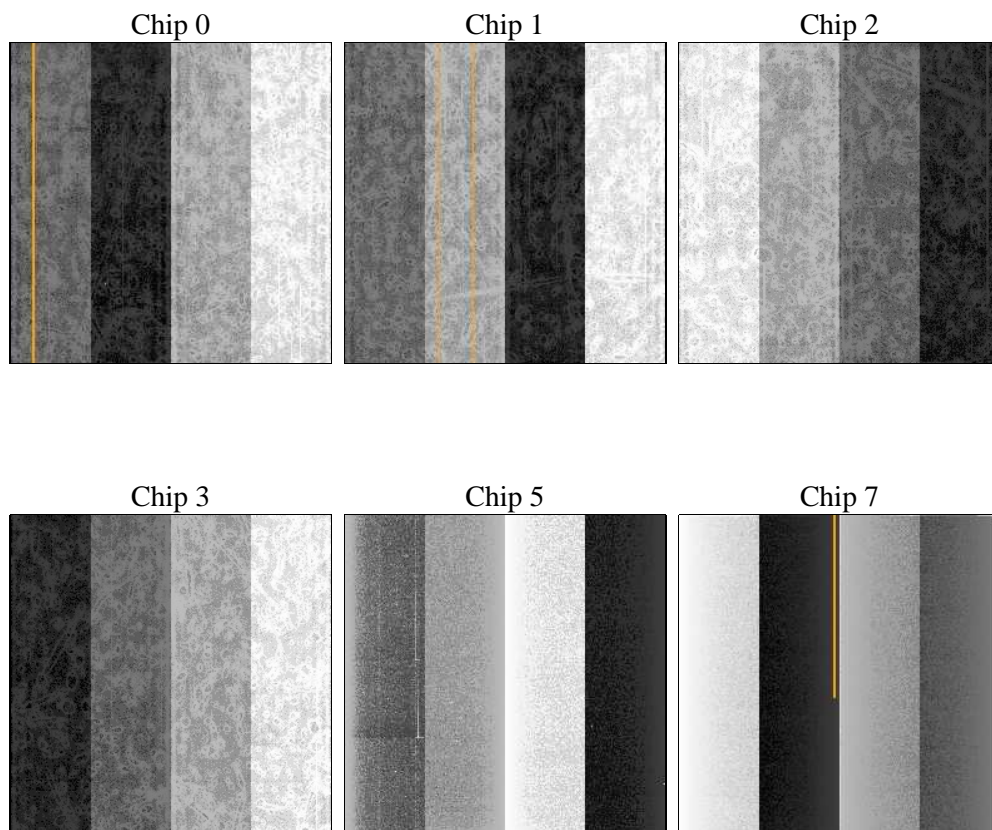
## 2 OBI

### 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	8.4.3	Processing system revision	ontime	8287.3248671293	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	8184.0279675126	Sum of GTIs [s]
date	2012-02-27T15:05:59	Date and time of file creation	ontime1	8187.2279675007	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	8158.0178036094	Sum of GTIs [s]
			ontime3	8180.3707832098	Sum of GTIs [s]
			ontime5	8287.6181275249	Sum of GTIs [s]
			ontime7	8287.3248671293	Sum of GTIs [s]
			l1events	653560	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	95175	94323	96885	101812	134853	130512	grade 0 events	22695	22003	23603	23693	7112	11571
rejected events	51561	50238	53337	57695	60001	57930		23%	23%	24%	23%	5%	8%
rejected %	54%	53%	55%	56%	44%	44%	grade 1 events	129	125	188	163	145	109
								0%	0%	0%	0%	0%	0%
							grade 2 events	8234	9079	7476	7555	28005	16054
								8%	9%	7%	7%	20%	12%
							grade 3 events	2921	2837	3007	3060	2442	6264
								3%	3%	3%	3%	1%	4%
							grade 4 events	2889	2754	2932	3157	2400	6002
								3%	2%	3%	3%	1%	4%
							grade 5 events	3272	3142	3100	3514	6710	8610
								3%	3%	3%	3%	4%	6%
							grade 6 events	6887	7432	6549	6652	34912	32691
								7%	7%	6%	6%	25%	25%
							grade 7 events	48148	46951	50030	54018	53127	49211
								50%	49%	51%	53%	39%	37%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012357	ACIS-012357	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	97.97776520438127	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	30.02091905569372	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	98.0795909053283	[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)	438914629.820467	438914628.7955			
Observation start date	2011-11-29T00:43:50	2011-11-29T00:43:48			
[s] Observation end time (MET)	438925646.521047	438925645.49608			
Observation end date	2011-11-29T03:47:27	2011-11-29T03:47:25			
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)	2012.02.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2873248671293

### A.2 Comments