

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 59023 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Mar 30 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

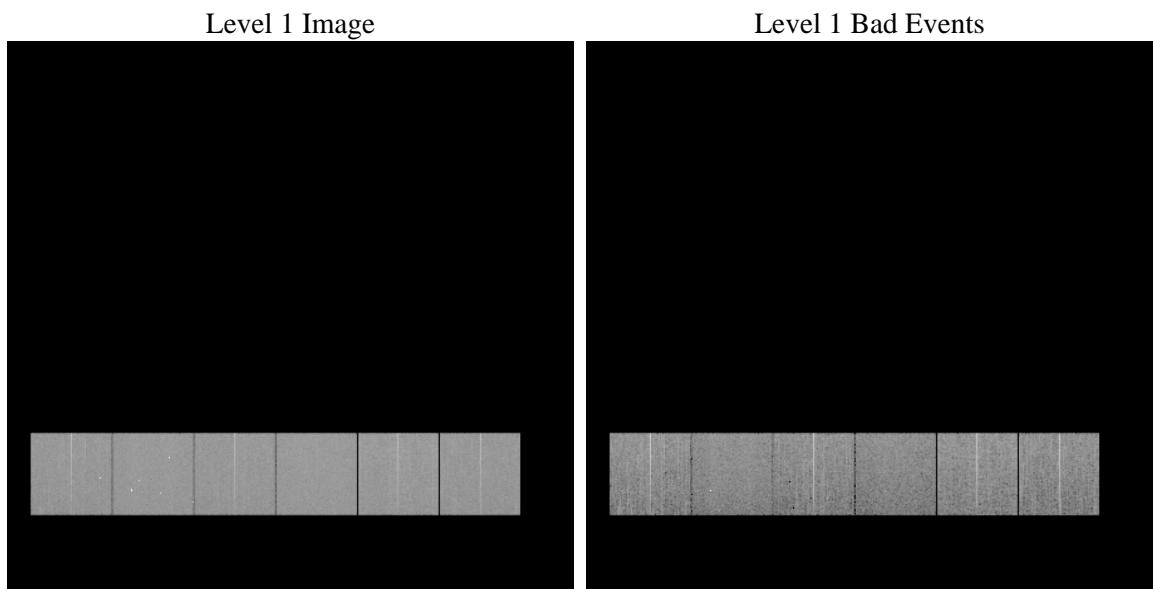
# 1 Front

seq_num	&#160	Sequence number
obs_id	59023	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	197.03211974511	Nominal RA [deg]
dec_nom	-36.984291930582	Nominal Dec [deg]
roll_nom	353.95952320482	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8277.2354380786	Sum of GTIs [s]
livetime	8172.4240990089	Livetime [s]
ontime4	8277.1123180687	Sum of GTIs [s]
ontime5	8277.1943980753	Sum of GTIs [s]
ontime6	8277.153358072	Sum of GTIs [s]
ontime7	8277.2354380786	Sum of GTIs [s]
ontime8	8277.0712780952	Sum of GTIs [s]
ontime9	8277.2764780819	Sum of GTIs [s]
l2events	954510	Number of level 2 events

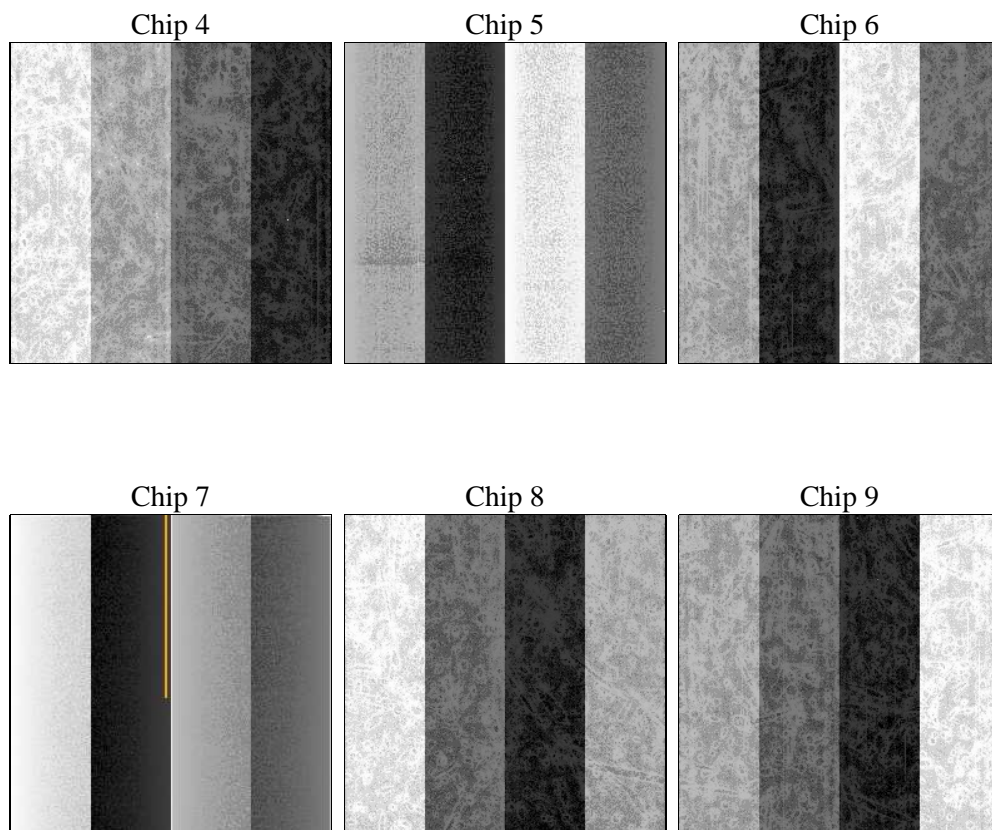
## 2 OBI

### 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	8.4.3	Processing system revision	ontime	8277.2354380786	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime4	8277.1123180687	Sum of GTIs [s]
date	2012-03-30T05:15:19	Date and time of file creation	ontime5	8277.1943980753	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8277.153358072	Sum of GTIs [s]
			ontime7	8277.2354380786	Sum of GTIs [s]
			ontime8	8277.0712780952	Sum of GTIs [s]
			ontime9	8277.2764780819	Sum of GTIs [s]
			l1events	1447206	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	233666	244286	236400	248487	252144	232223	grade 0 events	91375	35261	89687	42774	93099	88084
rejected events	76831	66604	69976	58671	77210	71144		39%	14%	37%	17%	36%	37%
rejected %	32%	27%	29%	23%	30%	30%	grade 1 events	878	240	512	157	580	603
								0%	0%	0%	0%	0%	0%
							grade 2 events	24618	64401	28895	41552	31338	27614
								10%	26%	12%	16%	12%	11%
							grade 3 events	10556	9558	10448	18629	11893	10518
								4%	3%	4%	7%	4%	4%
							grade 4 events	10364	9508	10435	18349	11709	10484
								4%	3%	4%	7%	4%	4%
							grade 5 events	4045	9818	4205	10171	5206	4409
								1%	4%	1%	4%	2%	1%
							grade 6 events	19922	58954	26959	68512	26895	24379
								8%	24%	11%	27%	10%	10%
							grade 7 events	71908	56546	65259	48343	71424	66132
								30%	23%	27%	19%	28%	28%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	197.0321197451111	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-36.98429193058222	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	353.9595232048167			
[mm] SIM focus pos	-0.684267	-0.7809083437167272			
[mm] SIM defocus	0	0.7524282956875696			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	261161676.632619	261161675.60763			
Observation start date	2006-04-11T16:54:37	2006-04-11T16:54:35			
[s] Observation end time (MET)	261185747.73374	261185746.70875			
Observation end date	2006-04-11T23:35:48	2006-04-11T23:35:46			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.03.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2772354380786

### A.2 Comments