

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 59149 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Mar 24 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

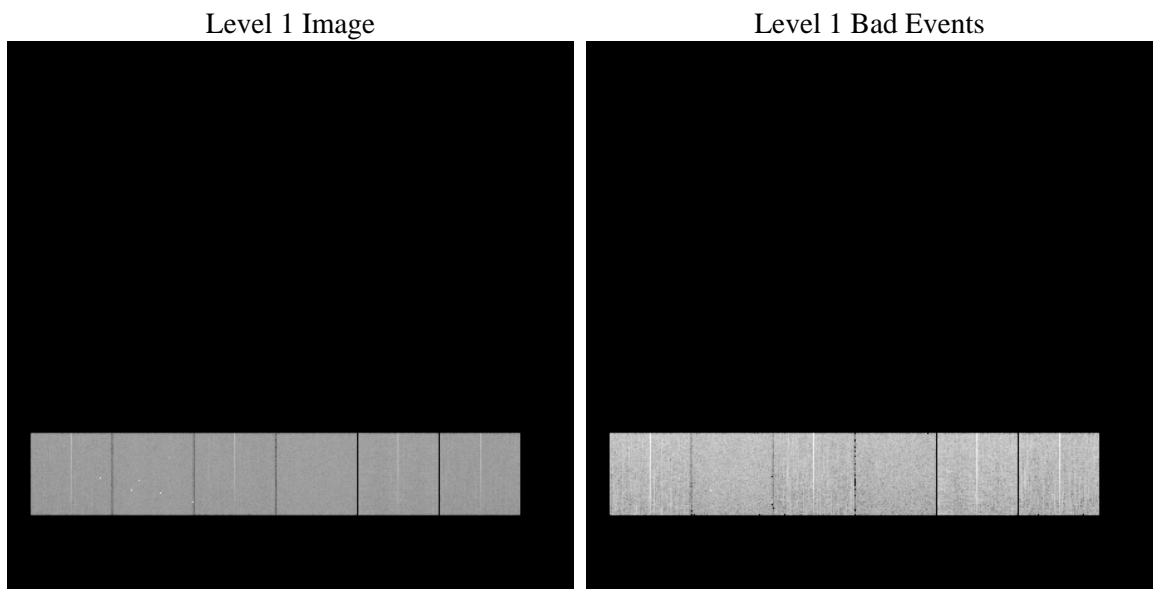
# 1 Front

seq_num	&#160	Sequence number
obs_id	59149	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	124.5268586378	Nominal RA [deg]
dec_nom	-9.9890403583044	Nominal Dec [deg]
roll_nom	349.63482166313	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8277.2335613966	Sum of GTIs [s]
livetime	8172.4222460905	Livetime [s]
ontime4	8277.1104413867	Sum of GTIs [s]
ontime5	8277.1925213933	Sum of GTIs [s]
ontime6	8270.6694909036	Sum of GTIs [s]
ontime7	8277.2335613966	Sum of GTIs [s]
ontime8	8277.0694014132	Sum of GTIs [s]
ontime9	8277.2746013999	Sum of GTIs [s]
l2events	999623	Number of level 2 events

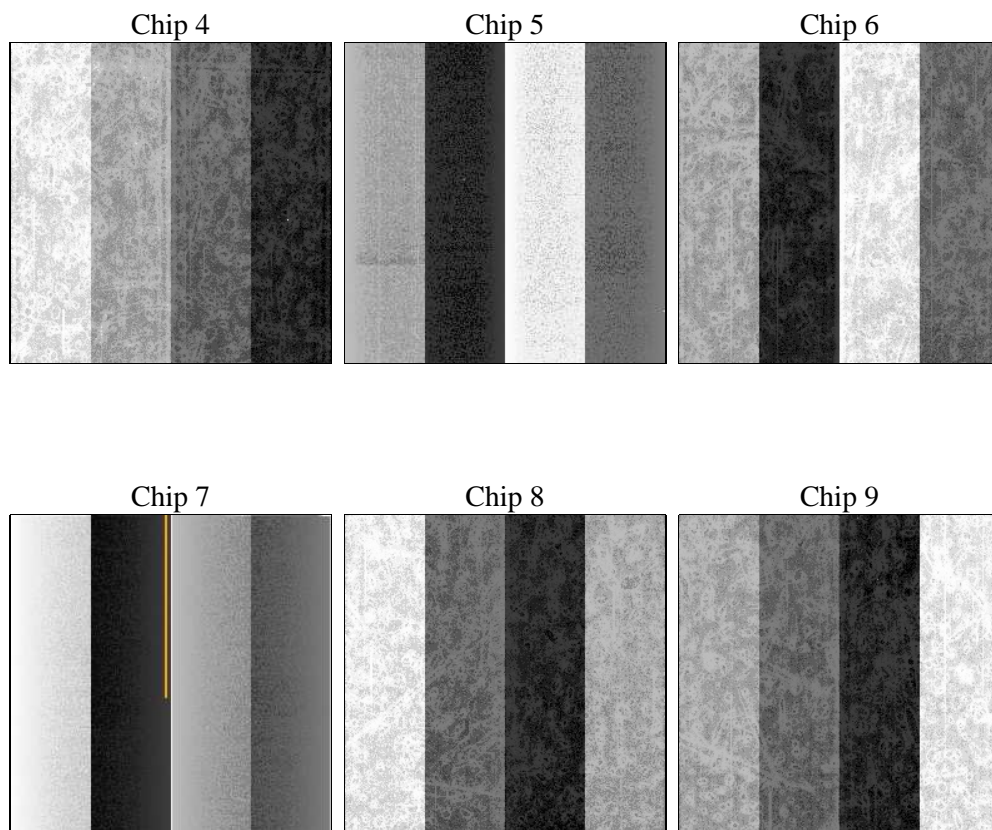
## 2 OBI

### 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	8277.2335613966	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime4	8277.1104413867	Sum of GTIs [s]
date	2012-03-24T08:47:42	Date and time of file creation	ontime5	8277.1925213933	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8270.6694909036	Sum of GTIs [s]
			ontime7	8277.2335613966	Sum of GTIs [s]
			ontime8	8277.0694014132	Sum of GTIs [s]
			ontime9	8277.2746013999	Sum of GTIs [s]
			l1events	1469309	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	235907	243293	241726	252320	259311	236752	grade 0 events	95734	37692	94357	44896	98747	92355
rejected events	71613	61660	66556	55521	73644	67729		40%	15%	39%	17%	38%	39%
rejected %	30%	25%	27%	22%	28%	28%	grade 1 events	836	227	509	195	568	553
								0%	0%	0%	0%	0%	0%
							grade 2 events	25663	64990	30720	43013	33110	28950
								10%	26%	12%	17%	12%	12%
							grade 3 events	11001	10172	11054	19332	12674	11075
								4%	4%	4%	7%	4%	4%
							grade 4 events	10881	9845	11190	19001	12379	10886
								4%	4%	4%	7%	4%	4%
							grade 5 events	3907	9382	4073	9435	5048	4503
								1%	3%	1%	3%	1%	1%
							grade 6 events	21015	58934	27849	70557	28757	25757
								8%	24%	11%	27%	11%	10%
							grade 7 events	66870	52051	61974	45891	68028	62673
								28%	21%	25%	18%	26%	26%

## 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	124.5268586377972	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-9.989040358304425	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	349.6348216631334			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	254755186.484781	254755185.45979			
Observation start date	2006-01-27T13:19:46	2006-01-27T13:19:45			
[s] Observation end time (MET)	254791588.336468	254791587.31148			
Observation end date	2006-01-27T23:26:28	2006-01-27T23:26:27			
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)	2012.03.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2772335613966

### **A.2 Comments**