

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 59648 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 23 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

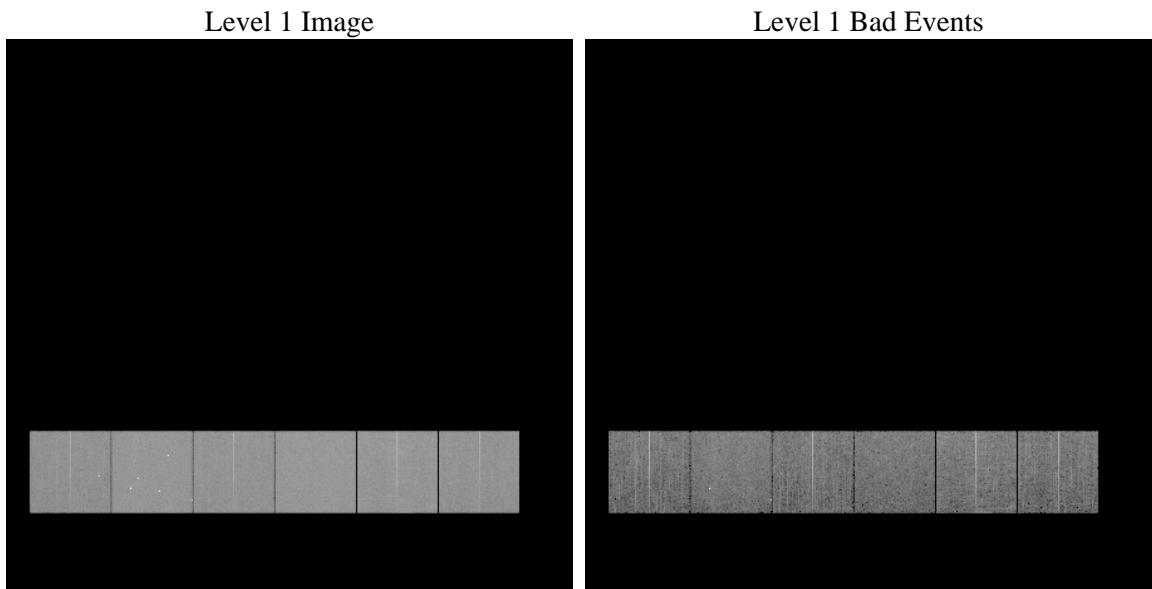
# 1 Front

seq_num	&#160	Sequence number
obs_id	59648	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	245.47301333347	Nominal RA [deg]
dec_nom	6.4883679286376	Nominal Dec [deg]
roll_nom	170.92196396562	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8274.776391089	Sum of GTIs [s]
livetime	8169.9961899528	Livetime [s]
ontime4	6926.4062896073	Sum of GTIs [s]
ontime5	8274.7353510857	Sum of GTIs [s]
ontime6	7315.364495486	Sum of GTIs [s]
ontime7	8274.776391089	Sum of GTIs [s]
ontime8	7707.4413090944	Sum of GTIs [s]
ontime9	7350.6134850681	Sum of GTIs [s]
l2events	1074401	Number of level 2 events

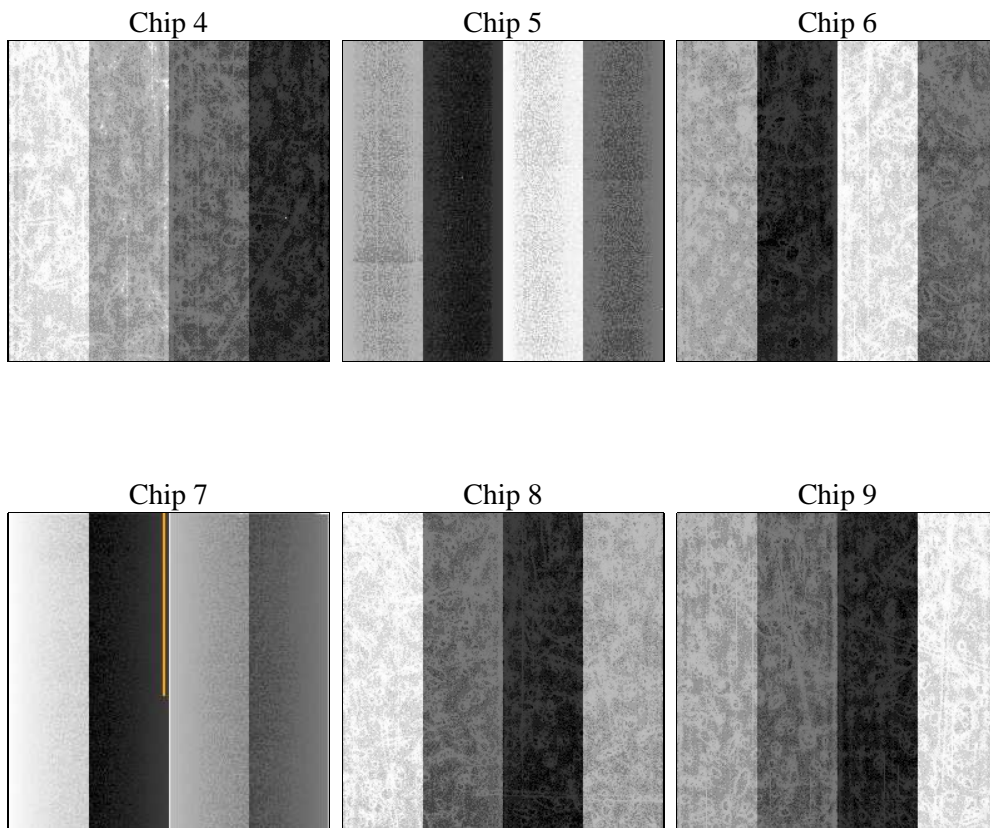
## 2 OBI

### 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	8.5.1.1	Processing system revision	ontime	8274.776391089	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime4	6926.4062896073	Sum of GTIs [s]
date	2012-12-23T21:42:20	Date and time of file creation	ontime5	8274.7353510857	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	7315.364495486	Sum of GTIs [s]
			ontime7	8274.776391089	Sum of GTIs [s]
			ontime8	7707.4413090944	Sum of GTIs [s]
			ontime9	7350.6134850681	Sum of GTIs [s]
			l1events	1489611	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	216447	269846	237772	272449	262383	230714	grade 0 events	95116	45491	99148	52467	107706	97679
rejected events	54116	61124	55200	50657	62652	53630		43%	16%	41%	19%	41%	42%
rejected %	25%	22%	23%	18%	23%	23%	grade 1 events	732	314	509	171	584	566
								0%	0%	0%	0%	0%	0%
							grade 2 events	25273	75984	31349	48750	35296	30276
								11%	28%	13%	17%	13%	13%
							grade 3 events	10672	10997	11269	21740	13006	11383
								4%	4%	4%	7%	4%	4%
							grade 4 events	10673	10822	11378	21566	13152	11256
								4%	4%	4%	7%	5%	4%
							grade 5 events	3069	9690	3475	8819	4351	3584
								1%	3%	1%	3%	1%	1%
							grade 6 events	20664	65514	29520	77369	30667	26490
								9%	24%	12%	28%	11%	11%
							grade 7 events	50248	51034	51124	41567	57621	49480
								23%	18%	21%	15%	21%	21%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	245.4730133334693
[deg] Pointing Dec	0	6.488367928637611
[deg] Pointing Roll	0.0	170.9219639656233
[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)	233293919.99772	233293918.97275
Observation start date	2005-05-24T03:52:00	2005-05-24T03:51:58
[s] Observation end time (MET)	233316002.598726	233316001.57375
Observation end date	2005-05-24T10:00:03	2005-05-24T10:00:01
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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)	2013.01.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.274776391089

### A.2 Comments