

# V&V Reference Report

## L2 ASCDS Version : 10.0.1

Observation 53422 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Sep 7 2013

## 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

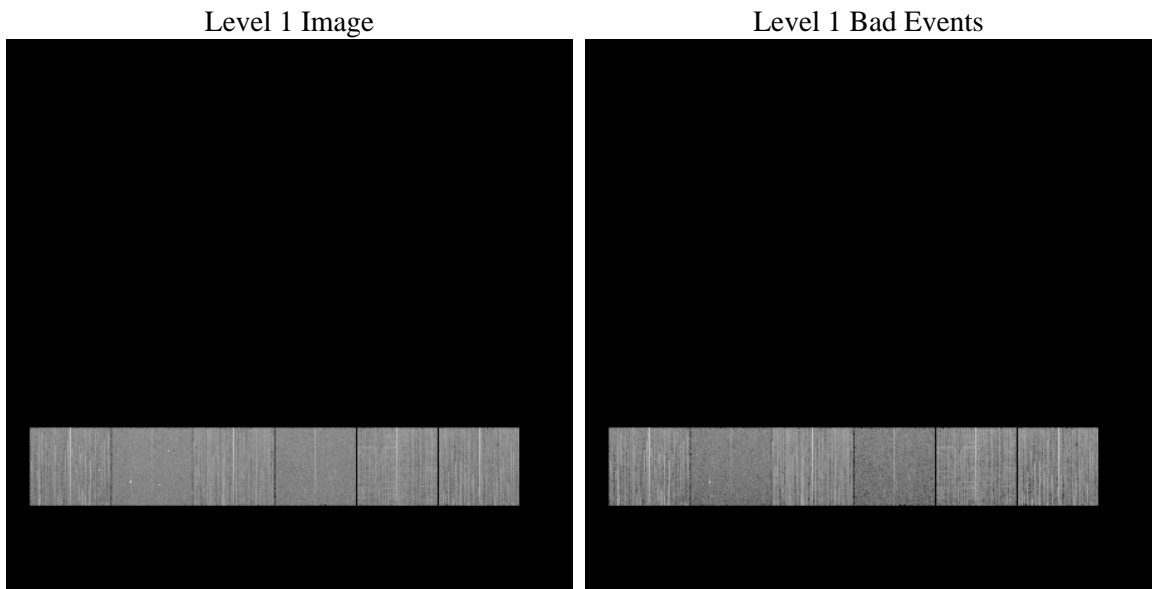
# 1 Front

seq_num	&#160	Sequence number
obs_id	53422	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycle	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	350.02370940571	Nominal RA [deg]
dec_nom	-29.979919728956	Nominal Dec [deg]
roll_nom	11.579736844923	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7992.9114864469	Sum of GTIs [s]
livetime	7891.700428452	Livetime [s]
ontime4	7992.788366437	Sum of GTIs [s]
ontime5	7992.8704464436	Sum of GTIs [s]
ontime6	7992.8294064403	Sum of GTIs [s]
ontime7	7992.9114864469	Sum of GTIs [s]
ontime8	7992.7473264337	Sum of GTIs [s]
ontime9	7992.9525264502	Sum of GTIs [s]
l2events	220293	Number of level 2 events

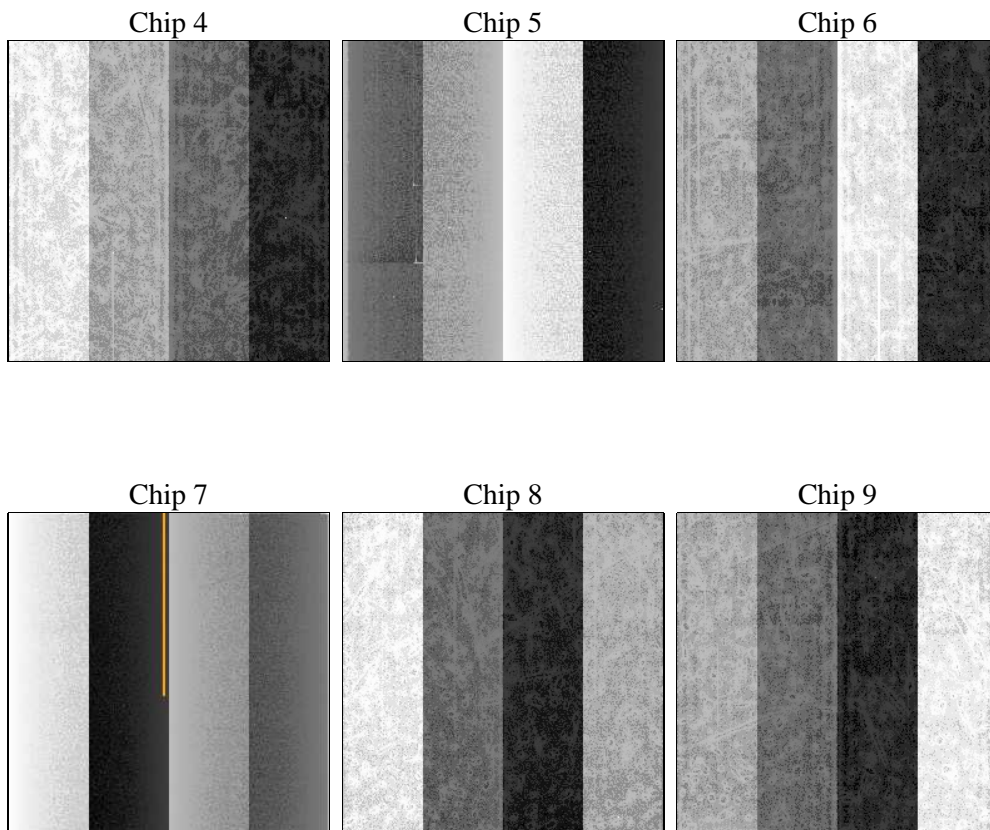
## 2 OBI

### 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	10	Processing system revision	ontime	7992.9114864469	Sum of GTIs [s]
caldbver	4.5.8	&#160	ontime4	7992.788366437	Sum of GTIs [s]
date	2013-09-07T04:32:00	Date and time of file creation	ontime5	7992.8704464436	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	7992.8294064403	Sum of GTIs [s]
			ontime7	7992.9114864469	Sum of GTIs [s]
			ontime8	7992.7473264337	Sum of GTIs [s]
			ontime9	7992.9525264502	Sum of GTIs [s]
			l1events	838260	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	141380	130452	157016	118141	147647	143624	grade 0 events	17340	7803	16217	8510	18659	15873
rejected events	110479	72263	125539	64666	108145	112980		12%	5%	10%	7%	12%	11%
rejected %	78%	55%	79%	54%	73%	78%	grade 1 events	106	173	79	85	90	88
								0%	0%	0%	0%	0%	0%
							grade 2 events	5933	22168	6459	13681	8241	6202
								4%	16%	4%	11%	5%	4%
							grade 3 events	2256	2242	2191	4650	3215	2062
								1%	1%	1%	3%	2%	1%
							grade 4 events	2197	2091	2032	4605	3100	2224
								1%	1%	1%	3%	2%	1%
							grade 5 events	2972	6466	2878	7197	3943	3385
								2%	4%	1%	6%	2%	2%
							grade 6 events	4366	26054	5774	24021	7811	5442
								3%	19%	3%	20%	5%	3%
							grade 7 events	106210	63455	121386	55392	102588	108348
								75%	48%	77%	46%	69%	75%

## 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	OVERRIDE	OVERRIDE
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	350.02370940571	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-29.97991972895644	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	11.57973684492315	[s] Primary exposure time	3.2	3.2
SIM focus pos (mm)	-1.4281808131	-1.4281808131			
[mm] SIM defocus	0.1051557500557434	0.1051557500557434			
SIM translation stage pos (mm)	250.4660330802	250.4660330802			
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584			
[s] Observation start time (MET)	494870146.44359	494870146.44359			
Observation start date	2013-09-06T15:55:46	2013-09-06T15:55:46			
[s] Observation end time (MET)	494879693.574181	494879693.574181			
Observation end date	2013-09-06T18:34:54	2013-09-06T18:34:53			
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)	2013.09.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.9929114864469

### **A.2 Comments**