

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60814 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Oct 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

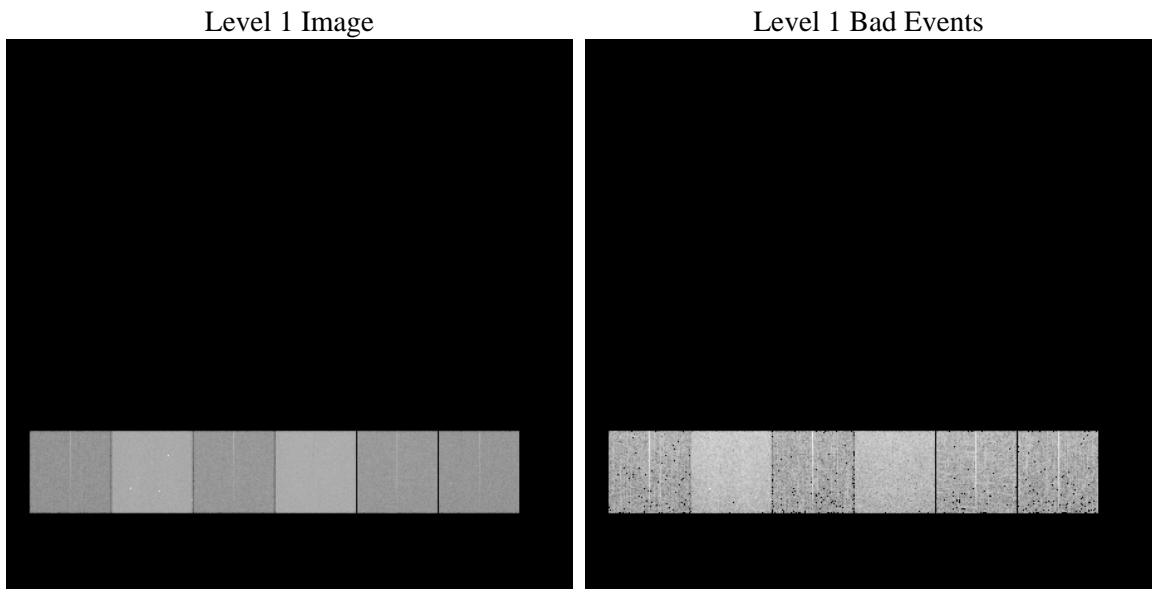
# 1 Front

seq_num	&#160	Sequence number
obs_id	60814	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	183.92512009915	Nominal RA [deg]
dec_nom	68.990284280172	Nominal Dec [deg]
roll_nom	167.05898460784	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8460.3797157109	Sum of GTIs [s]
livetime	8353.2492935215	Livetime [s]
ontime4	3523.0041650534	Sum of GTIs [s]
ontime5	8460.3386757076	Sum of GTIs [s]
ontime6	3882.7565062046	Sum of GTIs [s]
ontime7	8460.3797157109	Sum of GTIs [s]
ontime8	4007.1133909523	Sum of GTIs [s]
ontime9	3748.0368958712	Sum of GTIs [s]
l2events	1266496	Number of level 2 events

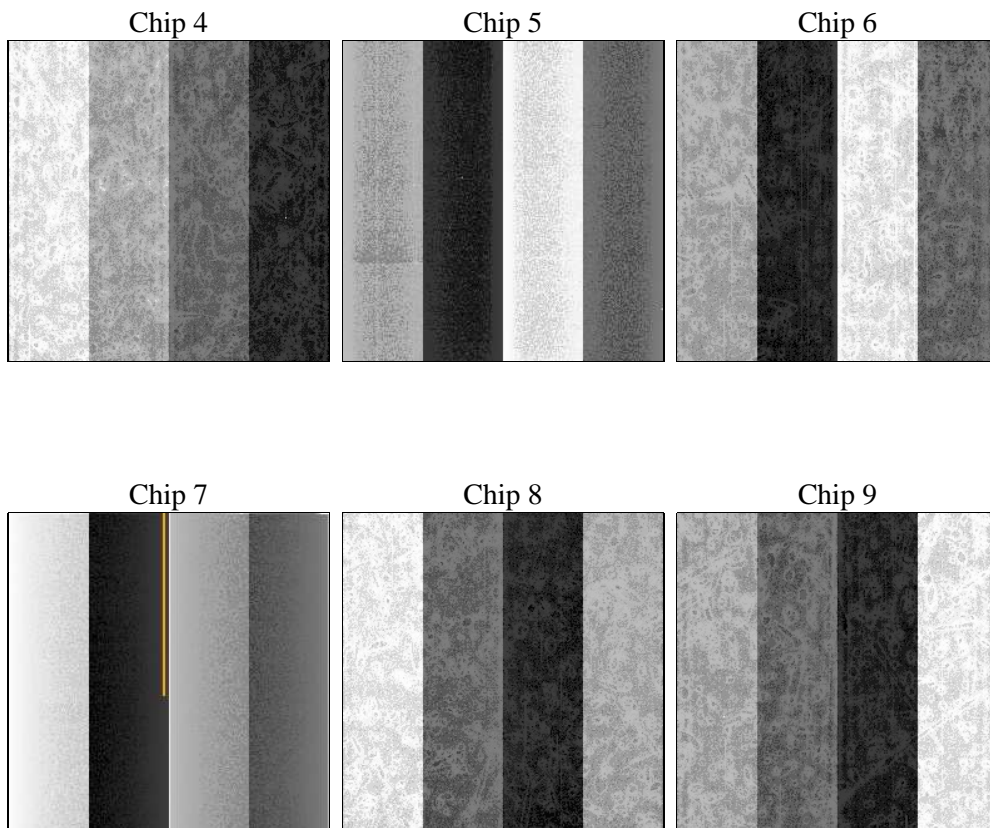
## 2 OBI

### 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	8.4.5	Processing system revision	ontime	8460.3797157109	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime4	3523.0041650534	Sum of GTIs [s]
date	2012-10-24T15:14:40	Date and time of file creation	ontime5	8460.3386757076	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	3882.7565062046	Sum of GTIs [s]
			ontime7	8460.3797157109	Sum of GTIs [s]
			ontime8	4007.1133909523	Sum of GTIs [s]
			ontime9	3748.0368958712	Sum of GTIs [s]
			l1events	1542187	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	167332	380713	194272	412494	204792	182584	grade 0 events	81338	76065	91205	91810	96193	86153
rejected events	26823	56363	27121	45650	30721	27376		48%	19%	46%	22%	46%	47%
rejected %	16%	14%	13%	11%	15%	14%	grade 1 events	605	253	471	239	489	530
								0%	0%	0%	0%	0%	0%
							grade 2 events	22507	116802	28521	80994	30048	26579
								13%	30%	14%	19%	14%	14%
							grade 3 events	9403	20125	10474	37017	11038	9857
								5%	5%	5%	8%	5%	5%
							grade 4 events	9200	19650	10450	36647	11233	9923
								5%	5%	5%	8%	5%	5%
							grade 5 events	1740	9831	1945	8744	2310	1932
								1%	2%	1%	2%	1%	1%
							grade 6 events	18061	91823	26501	120500	25688	22817
								10%	24%	13%	29%	12%	12%
							grade 7 events	24478	46164	24705	36543	27793	24793
								14%	12%	12%	8%	13%	13%

## 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	183.925120099154
[deg] Pointing Dec	0	68.99028428017191
[deg] Pointing Roll	0.0	167.0589846078414
[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)	163846761.897096	163846760.87238
Observation start date	2003-03-12T08:59:22	2003-03-12T08:59:20
[s] Observation end time (MET)	163857674.047555	163857673.02284
Observation end date	2003-03-12T12:01:14	2003-03-12T12:01:13
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	0.000000	3.2

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4603797157109

### A.2 Comments