

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 53771 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Apr 17 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

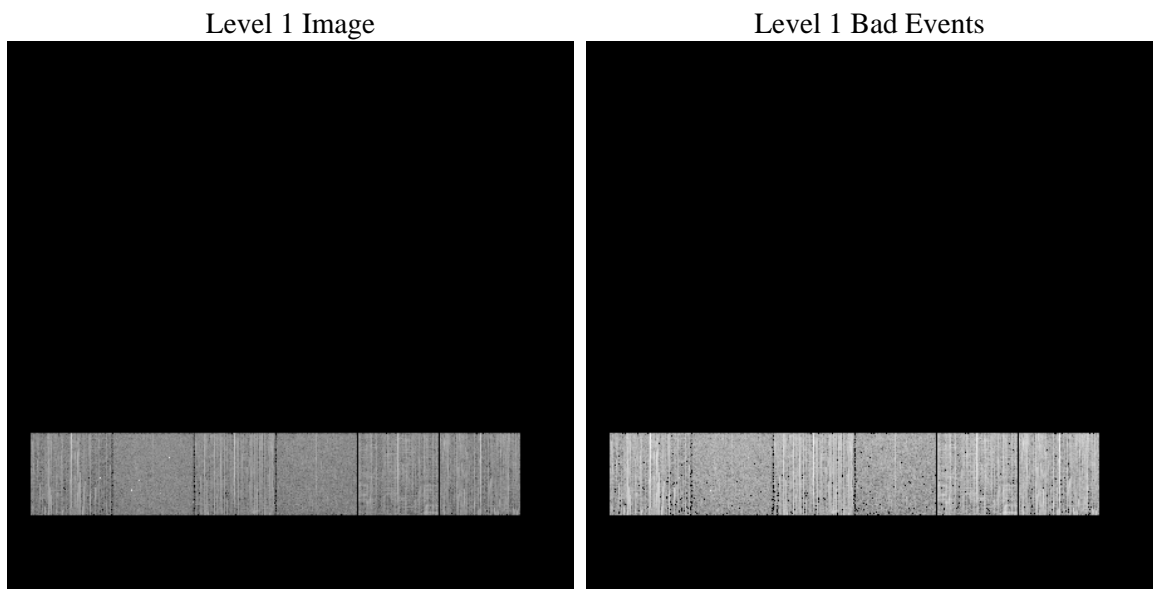
# 1 Front

seq_num	&#160	Sequence number
obs_id	53771	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	185.03410661919	Nominal RA [deg]
dec_nom	8.9681072727493	Nominal Dec [deg]
roll_nom	224.26936144921	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3084.7999885678	Sum of GTIs [s]
livetime	3045.738393669	Livetime [s]
ontime4	3084.7999885678	Sum of GTIs [s]
ontime5	3084.7999885678	Sum of GTIs [s]
ontime6	3084.7999885678	Sum of GTIs [s]
ontime7	3084.7999885678	Sum of GTIs [s]
ontime8	3084.7999885678	Sum of GTIs [s]
ontime9	3084.7999885678	Sum of GTIs [s]
l2events	92208	Number of level 2 events

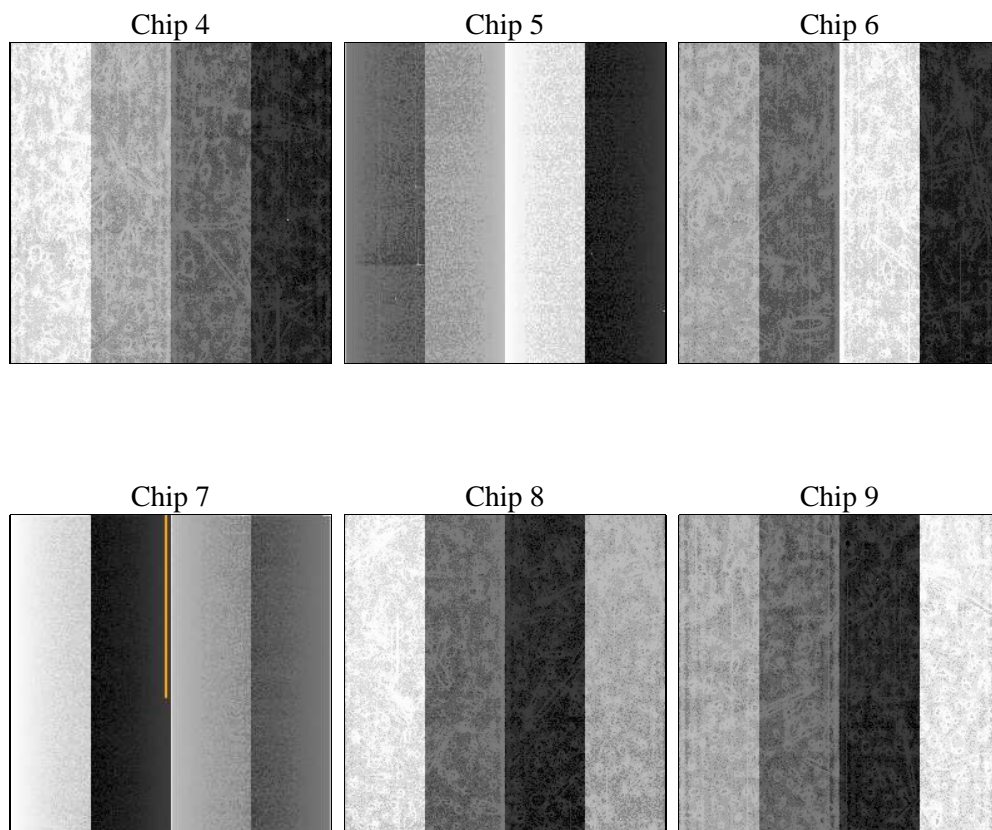
## 2 OBI

### 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	3084.7999885678	Sum of GTIs [s]
caldsver	4.5.6	&#160	ontime4	3084.7999885678	Sum of GTIs [s]
date	2013-04-17T11:59:19	Date and time of file creation	ontime5	3084.7999885678	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3084.7999885678	Sum of GTIs [s]
			ontime7	3084.7999885678	Sum of GTIs [s]
			ontime8	3084.7999885678	Sum of GTIs [s]
			ontime9	3084.7999885678	Sum of GTIs [s]
			l1events	375438	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	62271	55404	70142	51733	67668	68220	grade 0 events	7666	3407	7000	3549	7963	6831
rejected events	49228	30919	56838	28835	51137	55535		12%	6%	9%	6%	11%	10%
rejected %	79%	55%	81%	55%	75%	81%	grade 1 events	53	62	28	39	51	34
								0%	0%	0%	0%	0%	0%
							grade 2 events	2546	9674	2823	5930	3469	2664
								4%	17%	4%	11%	5%	3%
							grade 3 events	892	946	907	2130	1414	901
								1%	1%	1%	4%	2%	1%
							grade 4 events	939	927	968	2037	1420	908
								1%	1%	1%	3%	2%	1%
							grade 5 events	1311	2521	1270	3144	1657	1460
								2%	4%	1%	6%	2%	2%
							grade 6 events	1835	11099	2449	10767	3387	2219
								2%	20%	3%	20%	5%	3%
							grade 7 events	47029	26768	54697	24137	48307	53203
								75%	48%	77%	46%	71%	77%

## 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	185.0341066191872	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	8.968107272749297	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	224.2693614492112	[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)	250.4635187649	250.4635187649			
[mm] SIM translation stage offset	-0.007542945905271381	-0.007542945905271381			
[s] Observation start time (MET)	482535455.673169	482535455.673169			
Observation start date	2013-04-16T21:37:36	2013-04-16T21:37:35			
[s] Observation end time (MET)	482540003.959035	482540003.959035			
Observation end date	2013-04-16T22:53:24	2013-04-16T22:53:23			
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)	2013.04.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.0847999885678

### **A.2 Comments**