

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 53751 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Apr 25 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

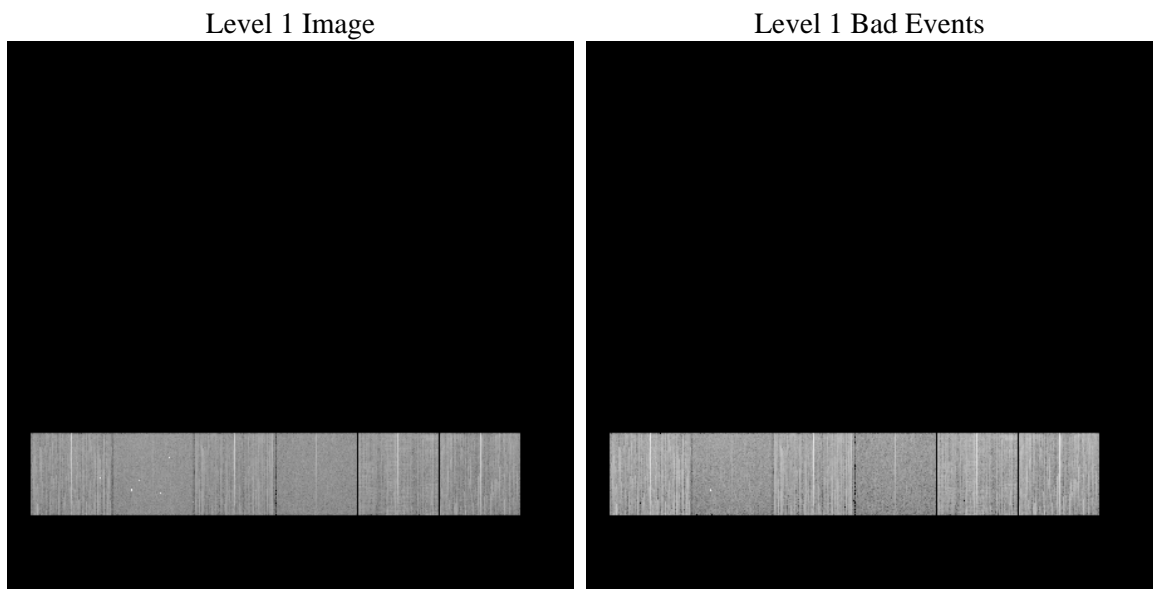
# 1 Front

seq_num	&#160	Sequence number
obs_id	53751	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	217.38820787219	Nominal RA [deg]
dec_nom	-25.356464529171	Nominal Dec [deg]
roll_nom	22.155886264302	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7580.7999718189	Sum of GTIs [s]
livetime	7484.807317966	Livetime [s]
ontime4	7580.7999718189	Sum of GTIs [s]
ontime5	7580.7999718189	Sum of GTIs [s]
ontime6	7580.7999718189	Sum of GTIs [s]
ontime7	7580.7999718189	Sum of GTIs [s]
ontime8	7580.7934538722	Sum of GTIs [s]
ontime9	7580.7999718189	Sum of GTIs [s]
l2events	225890	Number of level 2 events

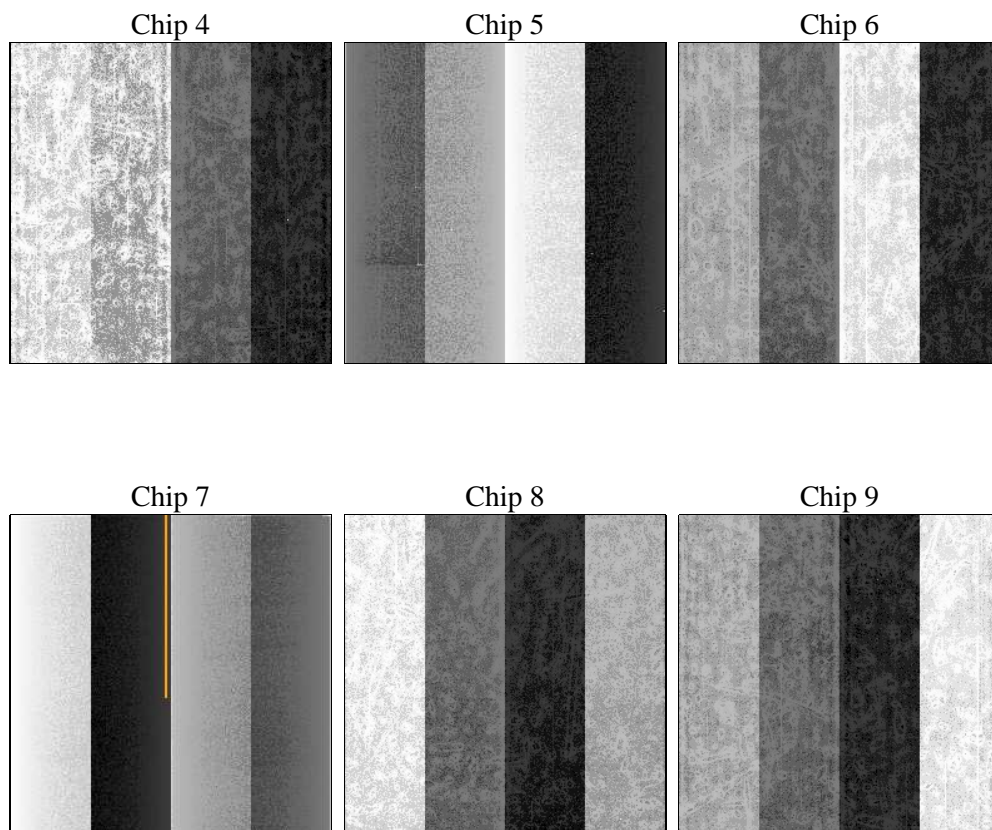
## 2 OBI

### 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	7580.7999718189	Sum of GTIs [s]
caldsver	4.5.6	&#160	ontime4	7580.7999718189	Sum of GTIs [s]
date	2013-04-25T09:41:17	Date and time of file creation	ontime5	7580.7999718189	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	7580.7999718189	Sum of GTIs [s]
			ontime7	7580.7999718189	Sum of GTIs [s]
			ontime8	7580.7934538722	Sum of GTIs [s]
			ontime9	7580.7999718189	Sum of GTIs [s]
			l1events	864380	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	155842	131605	151126	119510	157223	149074	grade 0 events	17550	8656	15935	8316	18185	15671
rejected events	124043	69656	119193	63767	116638	118399		11%	6%	10%	6%	11%	10%
rejected %	79%	52%	78%	53%	74%	79%	grade 1 events	144	118	71	99	114	98
								0%	0%	0%	0%	0%	0%
							grade 2 events	5763	22483	6361	13582	8455	5907
								3%	17%	4%	11%	5%	3%
							grade 3 events	2168	2332	2111	4587	3060	2086
								1%	1%	1%	3%	1%	1%
							grade 4 events	2122	2079	2070	4627	3054	2043
								1%	1%	1%	3%	1%	1%
							grade 5 events	2983	6093	3008	7406	4018	3435
								1%	4%	1%	6%	2%	2%
							grade 6 events	4210	26438	5466	24662	7851	4982
								2%	20%	3%	20%	4%	3%
							grade 7 events	120902	63406	116104	56231	112486	114852
								77%	48%	76%	47%	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	NONE	UPDATED
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	217.3882078721856	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-25.3564645291709	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	22.15588626430197	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	483216434.960073	483216433.93507			
Observation start date	2013-04-24T18:47:15	2013-04-24T18:47:13			
[s] Observation end time (MET)	483230590.21084	483230589.18584			
Observation end date	2013-04-24T22:43:10	2013-04-24T22:43:09			
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)	2013.04.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.5807999718189

### A.2 Comments