

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 54113 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Dec 6 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

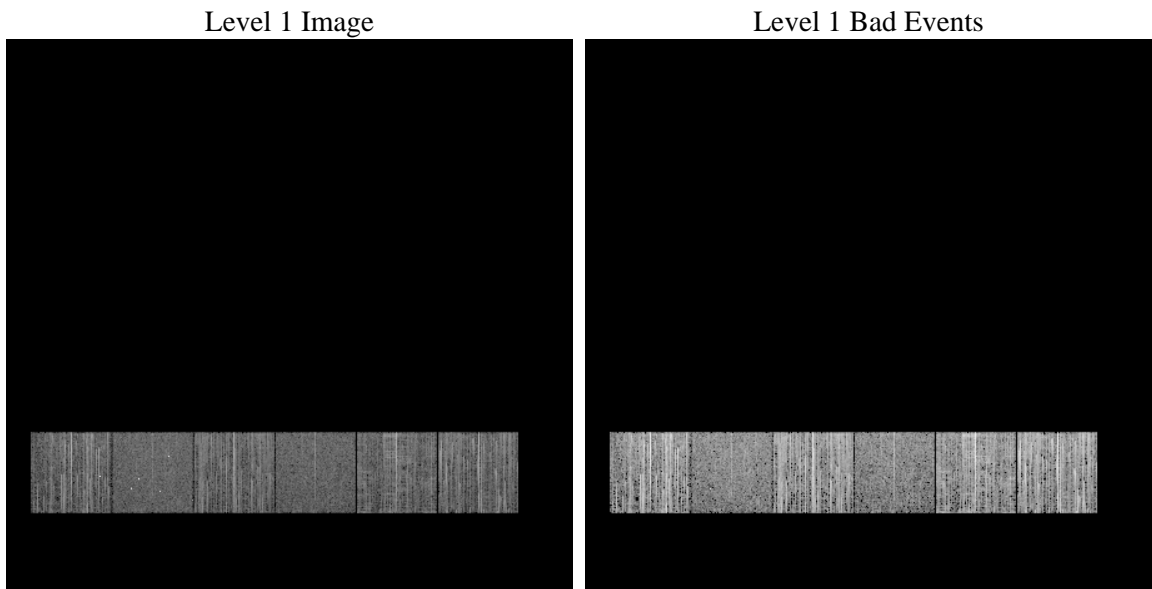
# 1 Front

seq_num	&#160	Sequence number
obs_id	54113	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	96.495949321835	Nominal RA [deg]
dec_nom	13.528464608821	Nominal Dec [deg]
roll_nom	65.022817103391	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3286.3921362758	Sum of GTIs [s]
livetime	3244.7778602185	Livetime [s]
ontime4	3286.3006486297	Sum of GTIs [s]
ontime5	3286.3827286363	Sum of GTIs [s]
ontime6	3286.341688633	Sum of GTIs [s]
ontime7	3286.3921362758	Sum of GTIs [s]
ontime8	3286.2596086264	Sum of GTIs [s]
ontime9	3286.3510962725	Sum of GTIs [s]
l2events	102942	Number of level 2 events

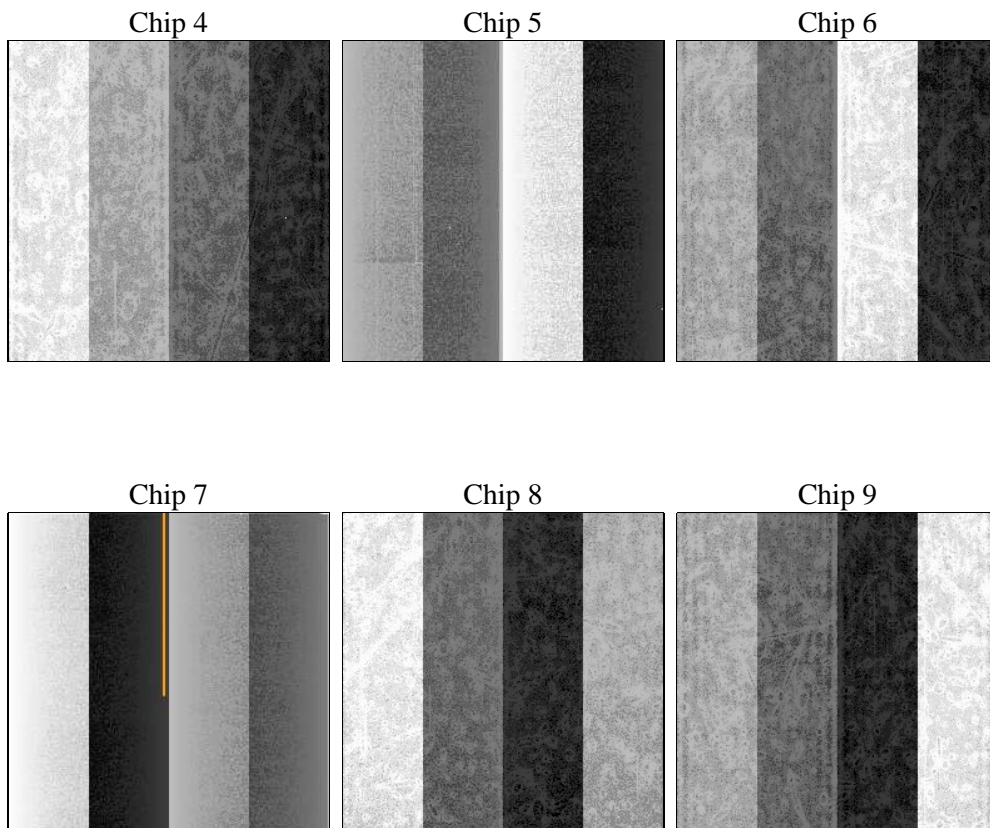
## 2 OBI

### 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	Processing system revision	ontime	3286.3921362758	Sum of GTIs [s]
caldbver	4.5.4	&#160	ontime4	3286.3006486297	Sum of GTIs [s]
date	2012-12-06T13:19:40	Date and time of file creation	ontime5	3286.3827286363	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3286.341688633	Sum of GTIs [s]
			ontime7	3286.3921362758	Sum of GTIs [s]
			ontime8	3286.2596086264	Sum of GTIs [s]
			ontime9	3286.3510962725	Sum of GTIs [s]
			l1events	381505	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	66276	57327	66990	52634	65562	72716	grade 0 events	8349	4734	7308	3941	8503	7351
rejected events	51341	29434	52116	27640	47248	58293		12%	8%	10%	7%	12%	10%
rejected %	77%	51%	77%	52%	72%	80%	grade 1 events	66	55	34	39	38	42
								0%	0%	0%	0%	0%	0%
							grade 2 events	2685	9760	3043	6128	3648	2772
								4%	17%	4%	11%	5%	3%
							grade 3 events	996	958	975	2035	1361	969
								1%	1%	1%	3%	2%	1%
							grade 4 events	997	915	999	2049	1337	1000
								1%	1%	1%	3%	2%	1%
							grade 5 events	1311	2649	1380	3106	1663	1425
								1%	4%	2%	5%	2%	1%
							grade 6 events	1908	11526	2549	10841	3465	2331
								2%	20%	3%	20%	5%	3%
							grade 7 events	49964	26730	50702	24495	45547	56826
								75%	46%	75%	46%	69%	78%

## 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	96.49594932183544	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	13.52846460882084	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	65.02281710339064	[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)	471133488.307471	471133487.28247			
Observation start date	2012-12-05T22:24:48	2012-12-05T22:24:47			
[s] Observation end time (MET)	471138666.60775	471138665.58275			
Observation end date	2012-12-05T23:51:07	2012-12-05T23:51:05			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.12.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2863921362758

### A.2 Comments