

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 54204 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Nov 2 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

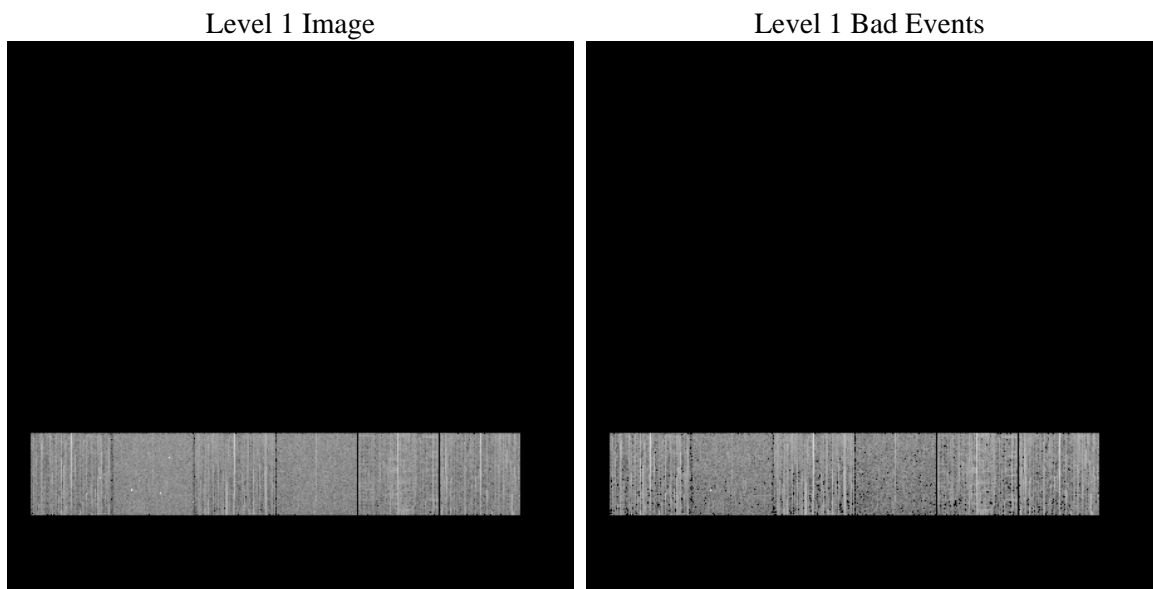
# 1 Front

seq_num	&#160	Sequence number
obs_id	54204	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	25.865240530628	Nominal RA [deg]
dec_nom	0.039469703650957	Nominal Dec [deg]
roll_nom	323.86977951492	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3282.1934504509	Sum of GTIs [s]
livetime	3240.6323406817	Livetime [s]
ontime4	3282.070330441	Sum of GTIs [s]
ontime5	3282.1524104476	Sum of GTIs [s]
ontime6	3282.1113704443	Sum of GTIs [s]
ontime7	3282.1934504509	Sum of GTIs [s]
ontime8	3282.0292904377	Sum of GTIs [s]
ontime9	3282.2344904542	Sum of GTIs [s]
l2events	104339	Number of level 2 events

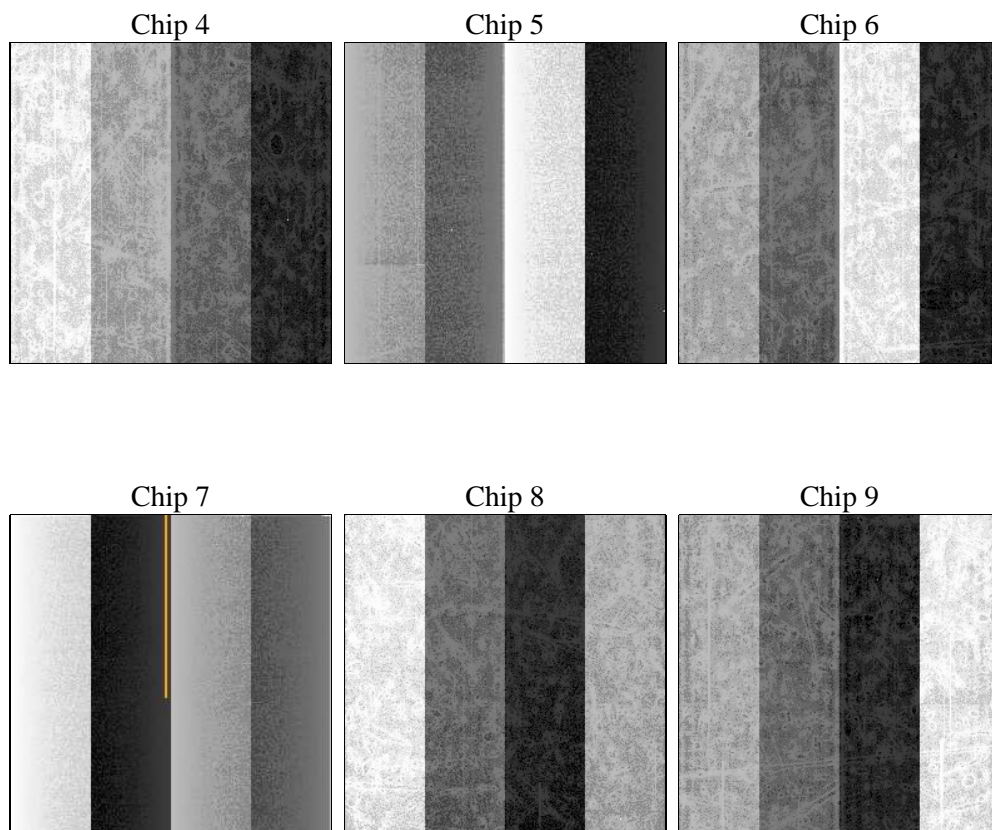
## 2 OBI

### 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	3282.1934504509	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime4	3282.070330441	Sum of GTIs [s]
date	2012-11-02T08:35:27	Date and time of file creation	ontime5	3282.1524104476	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3282.1113704443	Sum of GTIs [s]
			ontime7	3282.1934504509	Sum of GTIs [s]
			ontime8	3282.0292904377	Sum of GTIs [s]
			ontime9	3282.2344904542	Sum of GTIs [s]
			l1events	363276	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	61212	58095	65503	51852	64580	62034	grade 0 events	8374	4259	7747	3819	8598	7384
rejected events	46088	30425	50335	26679	46003	47545		13%	7%	11%	7%	13%	11%
rejected %	75%	52%	76%	51%	71%	76%	grade 1 events	67	62	46	44	36	42
								0%	0%	0%	0%	0%	0%
							grade 2 events	2709	9823	3057	6109	3740	2807
								4%	16%	4%	11%	5%	4%
							grade 3 events	1042	1007	1002	2184	1368	985
								1%	1%	1%	4%	2%	1%
							grade 4 events	1032	1005	972	2096	1345	1005
								1%	1%	1%	4%	2%	1%
							grade 5 events	1242	2565	1283	3101	1686	1497
								2%	4%	1%	5%	2%	2%
							grade 6 events	1967	11576	2390	10965	3526	2308
								3%	19%	3%	21%	5%	3%
							grade 7 events	44779	27798	49006	23534	44281	46006
								73%	47%	74%	45%	68%	74%

## 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	25.86524053062834	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	0.03946970365095714	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	323.8697795149236	[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)	468138706.696457	468138705.67146			
Observation start date	2012-11-01T06:31:47	2012-11-01T06:31:45			
[s] Observation end time (MET)	468144625.046775	468144624.02177			
Observation end date	2012-11-01T08:10:25	2012-11-01T08:10:24			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2012.11.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2821934504509

### A.2 Comments