

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 54256 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Oct 11 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

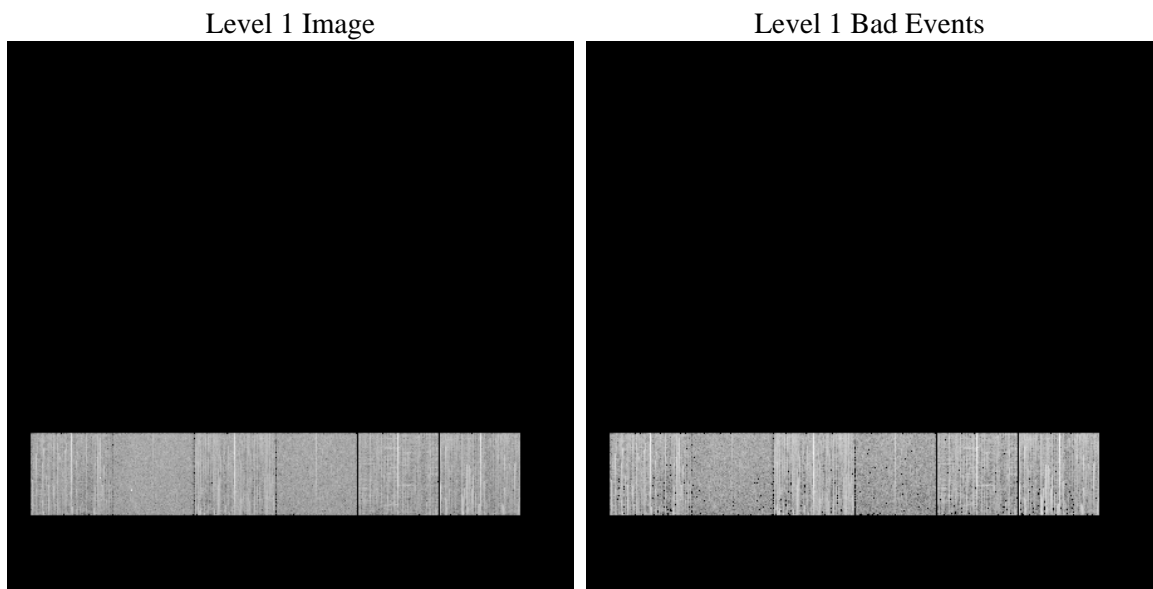
# 1 Front

seq_num	&#160	Sequence number
obs_id	54256	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	35.485041615183	Nominal RA [deg]
dec_nom	-8.2922832562546	Nominal Dec [deg]
roll_nom	50.721803722609	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3708.0346994996	Sum of GTIs [s]
livetime	3661.0813314241	Livetime [s]
ontime4	3707.9115794897	Sum of GTIs [s]
ontime5	3707.9936594963	Sum of GTIs [s]
ontime6	3707.952619493	Sum of GTIs [s]
ontime7	3708.0346994996	Sum of GTIs [s]
ontime8	3707.8705394864	Sum of GTIs [s]
ontime9	3708.0757395029	Sum of GTIs [s]
l2events	116378	Number of level 2 events

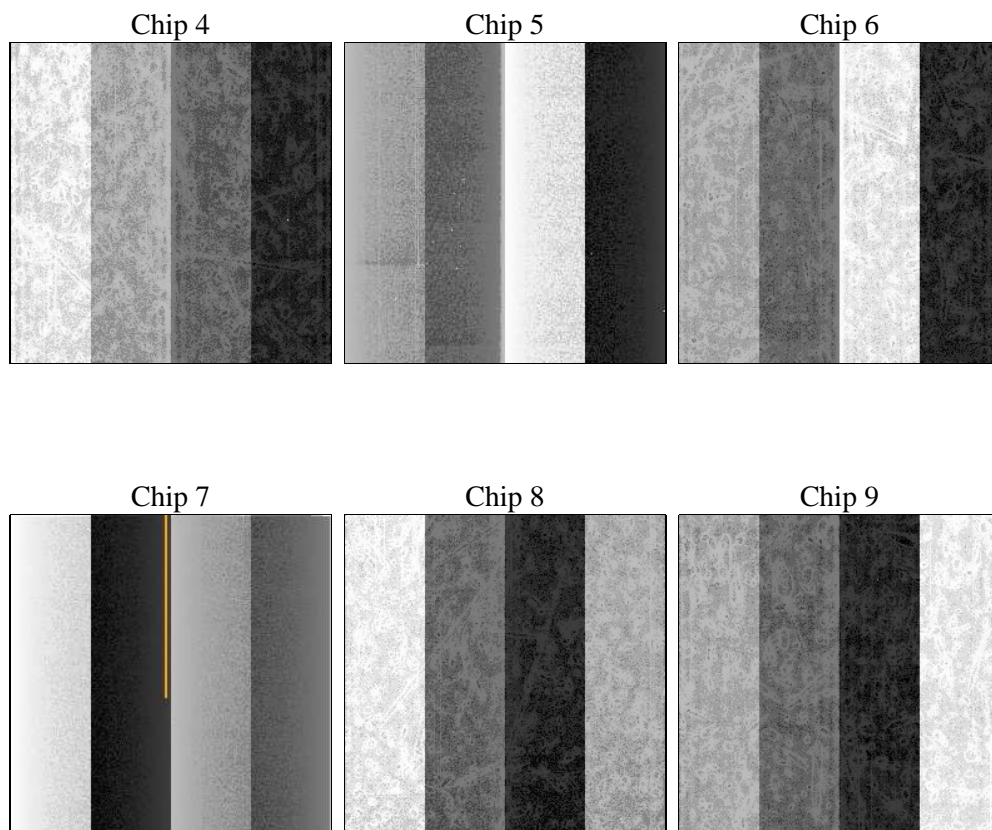
## 2 OBI

### 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	3708.0346994996	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime4	3707.9115794897	Sum of GTIs [s]
date	2012-10-11T23:40:48	Date and time of file creation	ontime5	3707.9936594963	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3707.952619493	Sum of GTIs [s]
			ontime7	3708.0346994996	Sum of GTIs [s]
			ontime8	3707.8705394864	Sum of GTIs [s]
			ontime9	3708.0757395029	Sum of GTIs [s]
			l1events	419835	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	70717	60724	79608	59075	71545	78166	grade 0 events	9127	2423	8082	4022	9806	8428
rejected events	54050	32420	62278	31459	50811	61419		12%	3%	10%	6%	13%	10%
rejected %	76%	53%	78%	53%	71%	78%	grade 1 events	63	65	35	30	46	50
								0%	0%	0%	0%	0%	0%
							grade 2 events	3098	10743	4211	6982	4128	3396
								4%	17%	5%	11%	5%	4%
							grade 3 events	1151	1042	1032	2163	1539	1137
								1%	1%	1%	3%	2%	1%
							grade 4 events	1098	914	977	2106	1499	1118
								1%	1%	1%	3%	2%	1%
							grade 5 events	1398	2491	1270	3231	1852	1517
								1%	4%	1%	5%	2%	1%
							grade 6 events	2199	13207	3041	12375	3773	2685
								3%	21%	3%	20%	5%	3%
							grade 7 events	52583	29839	60960	28166	48902	59835
								74%	49%	76%	47%	68%	76%

## 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	35.48504161518346	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-8.292283256254626	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	50.72180372260897	[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)	466336082.149649	466336081.12465			
Observation start date	2012-10-11T09:48:02	2012-10-11T09:48:01			
[s] Observation end time (MET)	466341690.94995	466341689.92495			
Observation end date	2012-10-11T11:21:31	2012-10-11T11:21:29			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.10.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.7080346994996

### A.2 Comments