

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 54059 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jan 1 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

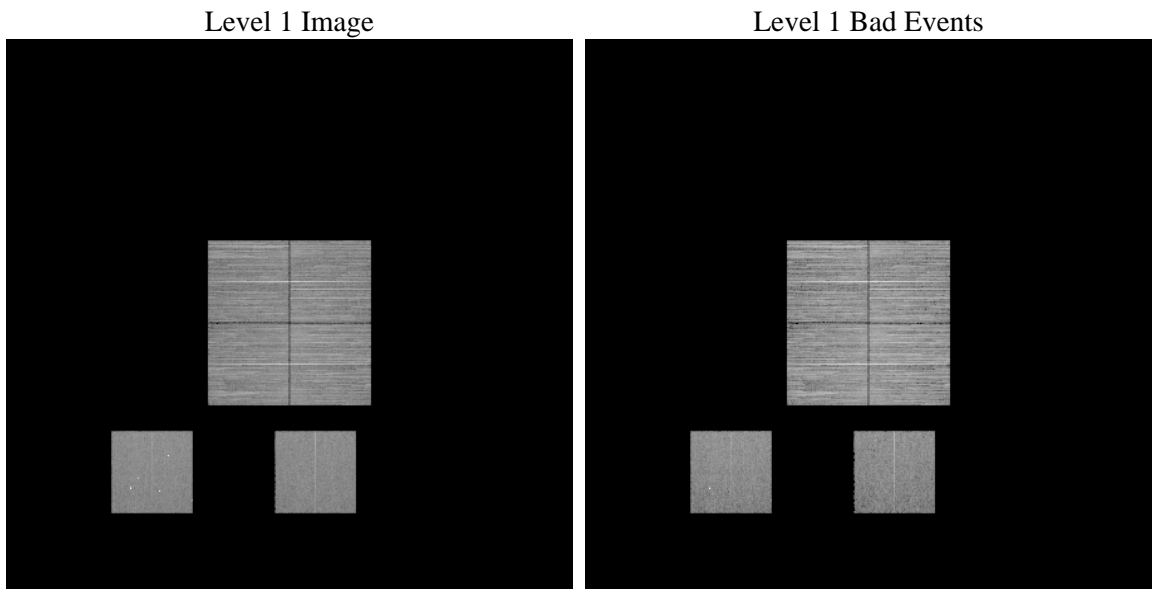
# 1 Front

seq_num	&#160	Sequence number
obs_id	54059	Observation id
title	ACIS-012357 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	253.7128352367	Nominal RA [deg]
dec_nom	22.326137472786	Nominal Dec [deg]
roll_nom	32.760493431851	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8099.1999698877	Sum of GTIs [s]
livetime	7996.6430231163	Livetime [s]
ontime0	8095.9589297175	Sum of GTIs [s]
ontime1	8099.1999698877	Sum of GTIs [s]
ontime2	8099.1999698877	Sum of GTIs [s]
ontime3	8099.1999698877	Sum of GTIs [s]
ontime5	8099.1999698877	Sum of GTIs [s]
ontime7	8099.1999698877	Sum of GTIs [s]
l2events	252402	Number of level 2 events

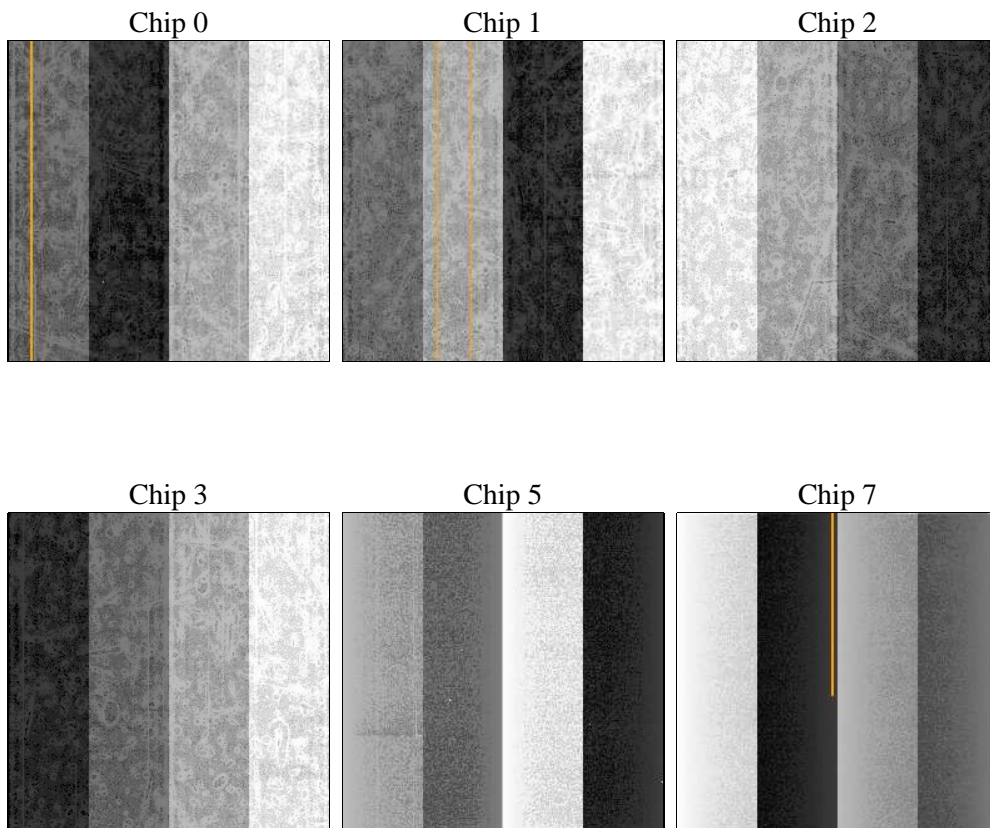
## 2 OBI

### 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	8099.1999698877	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime0	8095.9589297175	Sum of GTIs [s]
date	2013-01-01T17:48:55	Date and time of file creation	ontime1	8099.1999698877	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8099.1999698877	Sum of GTIs [s]
			ontime3	8099.1999698877	Sum of GTIs [s]
			ontime5	8099.1999698877	Sum of GTIs [s]
			ontime7	8099.1999698877	Sum of GTIs [s]
			l1events	937745	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	155836	161739	161070	176066	147474	135560	grade 0 events	18060	17793	18594	18578	10466	9688
rejected events	121305	126889	126394	141238	78636	73211		11%	11%	11%	10%	7%	7%
rejected %	77%	78%	78%	80%	53%	54%	grade 1 events	100	88	88	93	327	110
								0%	0%	0%	0%	0%	0%
							grade 2 events	6937	7268	6791	6845	25568	15594
								4%	4%	4%	3%	17%	11%
							grade 3 events	2446	2403	2428	2467	2441	5360
								1%	1%	1%	1%	1%	3%
							grade 4 events	2388	2344	2459	2485	2309	5363
								1%	1%	1%	1%	1%	3%
							grade 5 events	2989	3161	2956	3321	6570	8287
								1%	1%	1%	1%	4%	6%
							grade 6 events	5474	5831	5224	5233	29604	27818
								3%	3%	3%	2%	20%	20%
							grade 7 events	117442	122851	122530	137044	70189	63340
								75%	75%	76%	77%	47%	46%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012357	ACIS-012357	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	253.7128352367027	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	22.32613747278605	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	32.76049343185149	[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)	250.4660330802	250.4660330802			
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584			
[s] Observation start time (MET)	473390841.828959	473390841.828959			
Observation start date	2013-01-01T01:27:22	2013-01-01T01:27:21			
[s] Observation end time (MET)	473399276.655153	473399276.655153			
Observation end date	2013-01-01T03:47:57	2013-01-01T03:47:56			
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)	2013.01.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0991999698877

### A.2 Comments