

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 54020 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jan 15 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

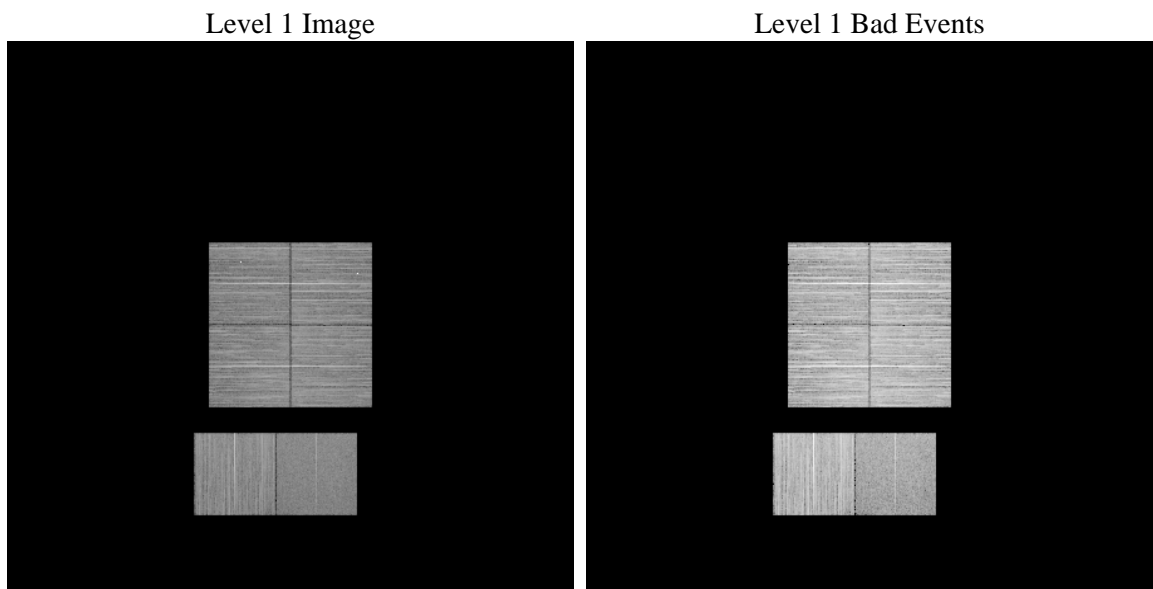
# 1 Front

seq_num	&#160	Sequence number
obs_id	54020	Observation id
title	ACIS-012367 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	153.41728256374	Nominal RA [deg]
dec_nom	45.167288847052	Nominal Dec [deg]
roll_nom	115.42270138158	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8286.6387344003	Sum of GTIs [s]
livetime	8181.7083251305	Livetime [s]
ontime0	8286.597694397	Sum of GTIs [s]
ontime1	8286.5566543937	Sum of GTIs [s]
ontime2	8286.5156143904	Sum of GTIs [s]
ontime3	8286.6797744036	Sum of GTIs [s]
ontime6	8286.4745743871	Sum of GTIs [s]
ontime7	8286.6387344003	Sum of GTIs [s]
l2events	228518	Number of level 2 events

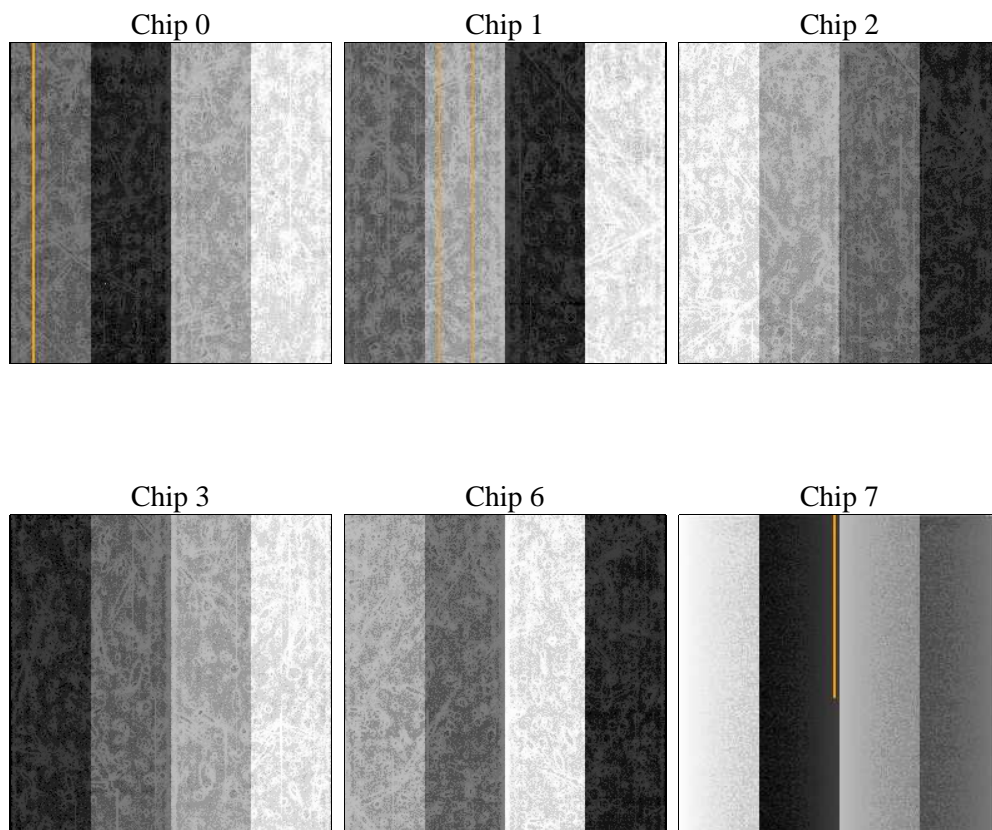
## 2 OBI

### 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	8286.6387344003	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime0	8286.597694397	Sum of GTIs [s]
date	2013-01-15T04:33:38	Date and time of file creation	ontime1	8286.5566543937	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8286.5156143904	Sum of GTIs [s]
			ontime3	8286.6797744036	Sum of GTIs [s]
			ontime6	8286.4745743871	Sum of GTIs [s]
			ontime7	8286.6387344003	Sum of GTIs [s]
			l1events	1012024	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	158949	179937	175600	185371	175266	136901	grade 0 events	20464	19734	18588	18365	18286	9419
rejected events	121116	141976	140154	150044	138466	73319		12%	10%	10%	9%	10%	6%
rejected %	76%	78%	79%	80%	79%	53%	grade 1 events	120	79	95	108	96	100
								0%	0%	0%	0%	0%	0%
							grade 2 events	7019	7563	6707	6680	7436	15585
								4%	4%	3%	3%	4%	11%
							grade 3 events	2452	2380	2452	2470	2353	5211
								1%	1%	1%	1%	1%	3%
							grade 4 events	2387	2451	2425	2474	2345	5226
								1%	1%	1%	1%	1%	3%
							grade 5 events	3122	3176	2914	3479	3290	8097
								1%	1%	1%	1%	1%	5%
							grade 6 events	5511	5833	5274	5338	6380	28141
								3%	3%	3%	2%	3%	20%
							grade 7 events	117874	138721	137145	146457	135080	65122
								74%	77%	78%	79%	77%	47%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	153.4172825637409
[deg] Pointing Dec	0	45.16728884705176
[deg] Pointing Roll	0.0	115.4227013815804
[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)	474534071.540702	474534070.5157
Observation start date	2013-01-14T07:01:12	2013-01-14T07:01:10
[s] Observation end time (MET)	474549081.641513	474549080.61651
Observation end date	2013-01-14T11:11:22	2013-01-14T11:11:20
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.01.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2866387344003

### A.2 Comments