

# V&V Reference Report

## L2 ASCDS Version : 10.1.1

Observation 53193 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Dec 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

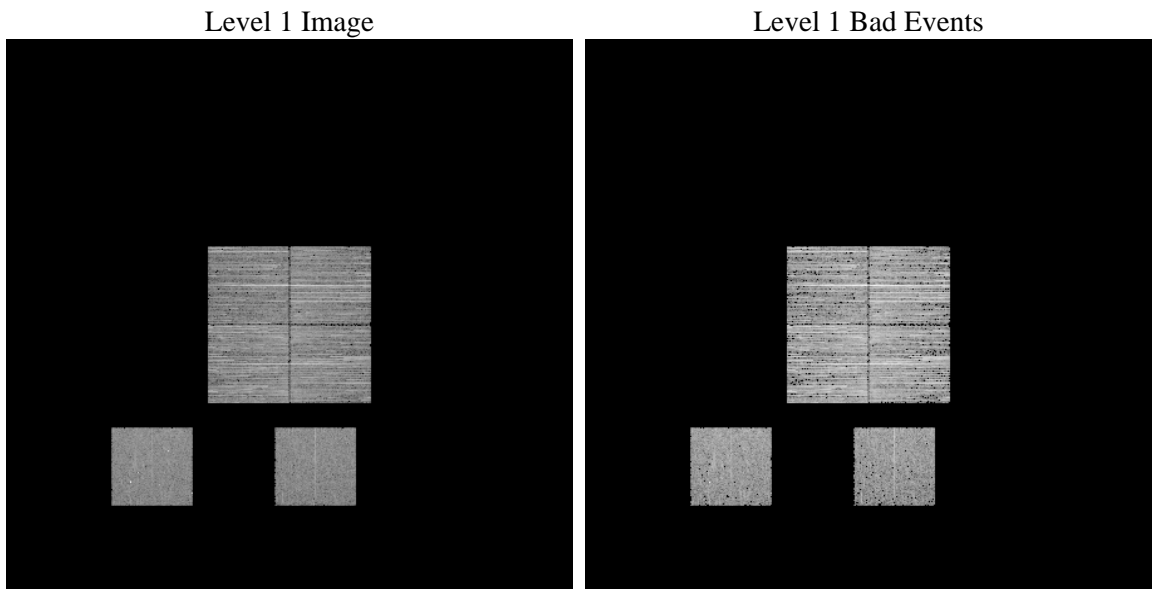
# 1 Front

seq_num	&#160	Sequence number
obs_id	53193	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	221.48475468601	Nominal RA [deg]
dec_nom	23.285542843123	Nominal Dec [deg]
roll_nom	30.538973560491	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3448.4237991571	Sum of GTIs [s]
livetime	3404.7577806207	Livetime [s]
ontime0	3448.4237991571	Sum of GTIs [s]
ontime1	3448.4237692356	Sum of GTIs [s]
ontime2	3448.4237991571	Sum of GTIs [s]
ontime3	3448.4237991571	Sum of GTIs [s]
ontime5	3449.2343174815	Sum of GTIs [s]
ontime7	3448.4237991571	Sum of GTIs [s]
l2events	90409	Number of level 2 events

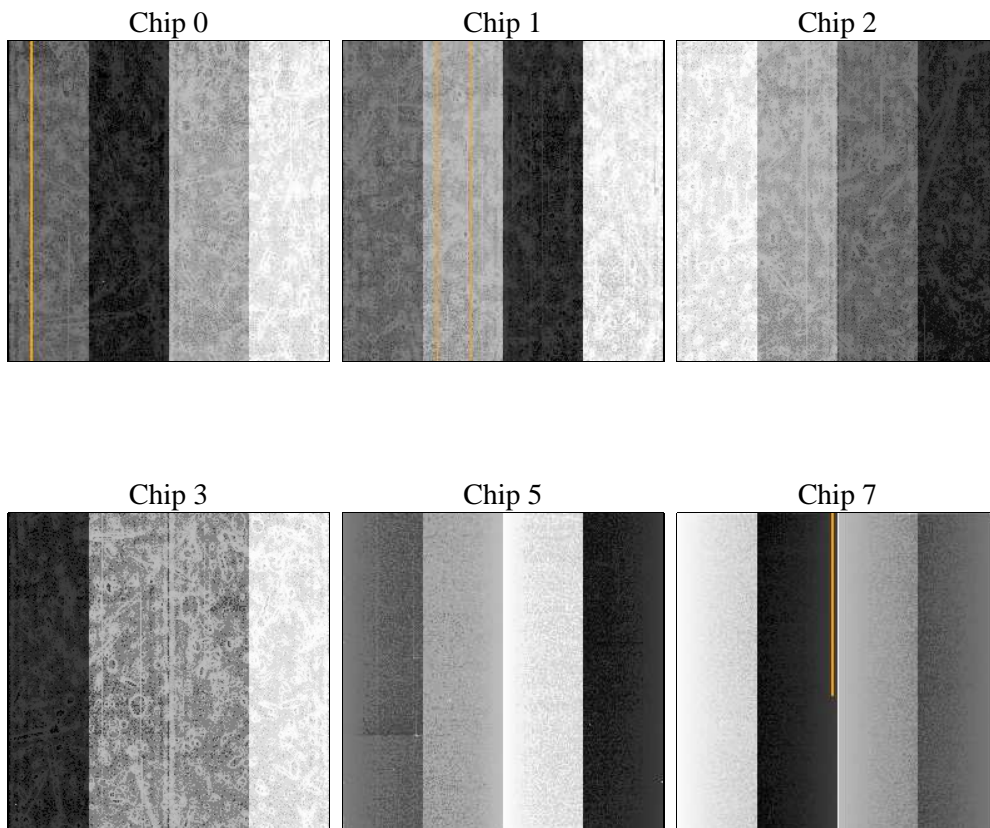
## 2 OBI

### 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	10.1.1	Processing system revision	ontime	3448.4237991571	Sum of GTIs [s]
caldbver	4.5.9	&#160	ontime0	3448.4237991571	Sum of GTIs [s]
date	2013-12-01T05:54:16	Date and time of file creation	ontime1	3448.4237692356	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	3448.4237991571	Sum of GTIs [s]
			ontime3	3448.4237991571	Sum of GTIs [s]
			ontime5	3449.2343174815	Sum of GTIs [s]
			ontime7	3448.4237991571	Sum of GTIs [s]
			l1events	353717	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	53901	62839	68995	63224	54387	50371	grade 0 events	5881	5907	6383	6215	2935	3283
rejected events	42046	50715	56661	51147	29484	27443		10%	9%	9%	9%	5%	6%
rejected %	78%	80%	82%	80%	54%	54%	grade 1 events	31	35	34	32	96	36
								0%	0%	0%	0%	0%	0%
							grade 2 events	2359	2591	2490	2232	9153	5579
								4%	4%	3%	3%	16%	11%
							grade 3 events	864	803	866	866	903	1933
								1%	1%	1%	1%	1%	3%
							grade 4 events	872	842	838	879	886	1838
								1%	1%	1%	1%	1%	3%
							grade 5 events	1163	1149	1030	1320	2492	3103
								2%	1%	1%	2%	4%	6%
							grade 6 events	1879	1981	1757	1885	11056	10295
								3%	3%	2%	2%	20%	20%
							grade 7 events	40852	49531	55597	49795	26866	24304
								75%	78%	80%	78%	49%	48%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012357	ACIS-012357
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	221.4847546860127
[deg] Pointing Dec	0	23.28554284312274
[deg] Pointing Roll	0.0	30.53897356049072
[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)	502212109.095294	502212108.07029
Observation start date	2013-11-30T15:21:49	2013-11-30T15:21:48
[s] Observation end time (MET)	502219782.245714	502219781.22071
Observation end date	2013-11-30T17:29:42	2013-11-30T17:29:41
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)	2013.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.4484237991571

### A.2 Comments