

# V&V Reference Report

## L2 ASCDS Version : 10.1

Observation 53296 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Oct 16 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

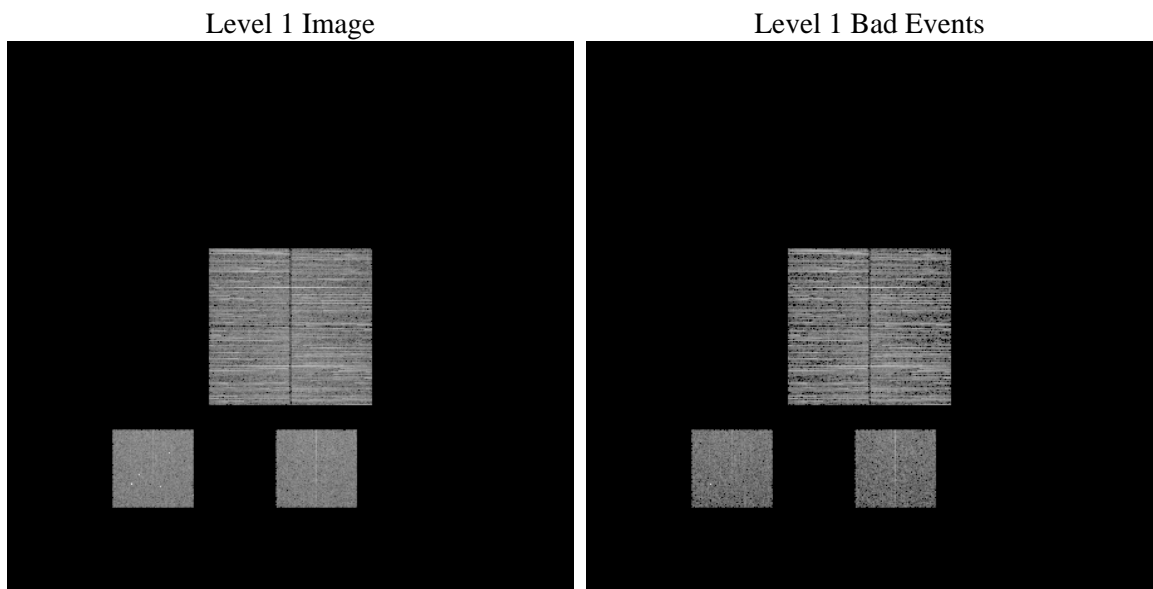
# 1 Front

seq_num	&#160	Sequence number
obs_id	53296	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	3.3655303030144	Nominal RA [deg]
dec_nom	-13.930829910908	Nominal Dec [deg]
roll_nom	320.89340334893	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3289.1114213467	Sum of GTIs [s]
livetime	3247.4627120644	Livetime [s]
ontime0	3191.8391813636	Sum of GTIs [s]
ontime1	3185.316896379	Sum of GTIs [s]
ontime2	3188.5169061422	Sum of GTIs [s]
ontime3	3188.681066215	Sum of GTIs [s]
ontime5	3288.9472613335	Sum of GTIs [s]
ontime7	3289.1114213467	Sum of GTIs [s]
l2events	86281	Number of level 2 events

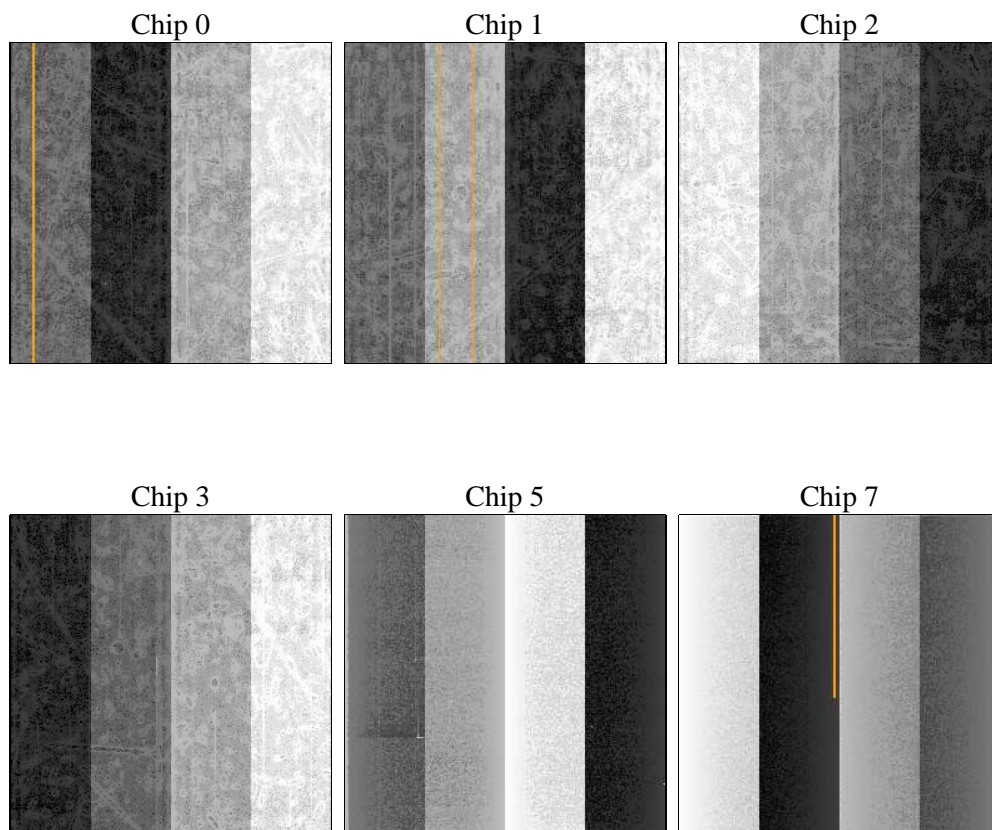
## 2 OBI

### 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	Processing system revision	ontime	3289.1114213467	Sum of GTIs [s]
caldbver	4.5.8	&#160	ontime0	3191.8391813636	Sum of GTIs [s]
date	2013-10-17T03:02:24	Date and time of file creation	ontime1	3185.316896379	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	3188.5169061422	Sum of GTIs [s]
			ontime3	3188.681066215	Sum of GTIs [s]
			ontime5	3288.9472613335	Sum of GTIs [s]
			ontime7	3289.1114213467	Sum of GTIs [s]
			l1events	326740	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	55826	53425	57985	59469	51935	48100	grade 0 events	5868	5850	6135	5975	3481	3187
rejected events	44265	41784	46385	47825	27994	26310		10%	10%	10%	10%	6%	6%
rejected %	79%	78%	79%	80%	53%	54%	grade 1 events	27	31	37	29	63	34
								0%	0%	0%	0%	0%	0%
							grade 2 events	2328	2306	2172	2217	8479	5287
								4%	4%	3%	3%	16%	10%
							grade 3 events	770	781	767	834	837	1782
								1%	1%	1%	1%	1%	3%
							grade 4 events	766	758	829	810	881	1817
								1%	1%	1%	1%	1%	3%
							grade 5 events	1029	1136	1016	1163	2494	2952
								1%	2%	1%	1%	4%	6%
							grade 6 events	1829	1946	1697	1808	10263	9717
								3%	3%	2%	3%	19%	20%
							grade 7 events	43209	40617	45332	46633	25437	23324
								77%	76%	78%	78%	48%	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	3.365530303014424
[deg] Pointing Dec	0	-13.93082991090764
[deg] Pointing Roll	0.0	320.8934033489279
[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)	498330530.232697	498330529.2077
Observation start date	2013-10-16T17:08:50	2013-10-16T17:08:49
[s] Observation end time (MET)	498335530.182971	498335529.15797
Observation end date	2013-10-16T18:32:10	2013-10-16T18:32:09
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)	2013.10.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2891114213467

## A.2 Comments

Short-term dip in THR\_PIX at approximately 2 ks into the observation, lasting about 200 s. This period is not included in the GTI for chips 0-3.