

# V&V Reference Report

## L2 ASCDS Version : 10.4.1

Observation 51715 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jul 29 2015

## 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

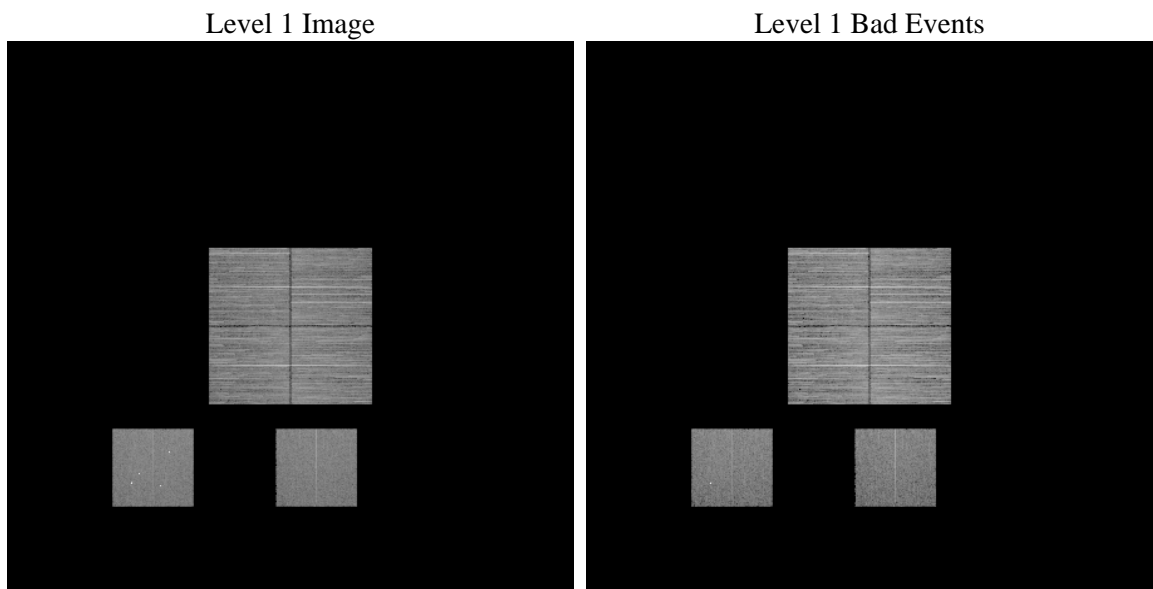
# 1 Front

seq_num	&#160	Sequence number
obs_id	51715	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	329.42936052711	Nominal RA [deg]
dec_nom	-34.761847516829	Nominal Dec [deg]
roll_nom	55.436172894163	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8460.8001260757	Sum of GTIs [s]
livetime	8353.6643803972	Livetime [s]
ontime0	8460.8001260757	Sum of GTIs [s]
ontime1	8460.8001260757	Sum of GTIs [s]
ontime2	8460.8001260757	Sum of GTIs [s]
ontime3	8460.8001260757	Sum of GTIs [s]
ontime5	8460.8001260757	Sum of GTIs [s]
ontime7	8460.8001260757	Sum of GTIs [s]
l2events	183622	Number of level 2 events

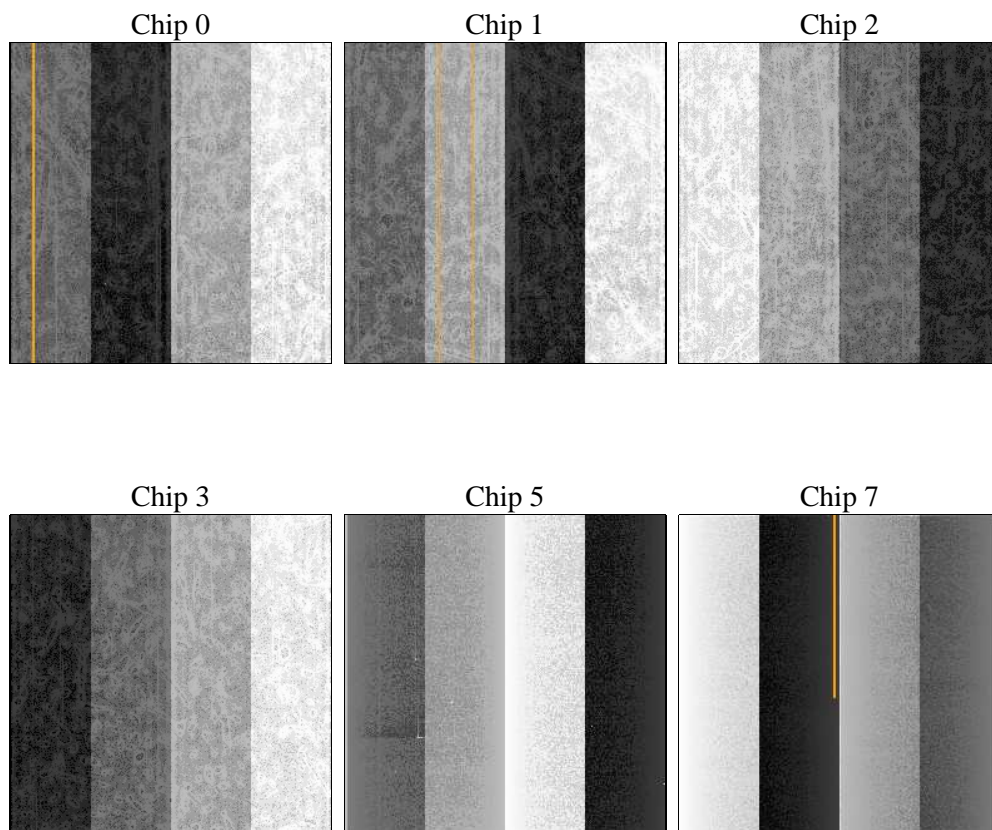
## 2 OBI

### 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	10.4.1	Processing system revision	ontime	8460.8001260757	Sum of GTIs [s]
caldsver	4.6.8	&#160	ontime0	8460.8001260757	Sum of GTIs [s]
date	2015-07-29T16:54:28	Date and time of file creation	ontime1	8460.8001260757	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8460.8001260757	Sum of GTIs [s]
			ontime3	8460.8001260757	Sum of GTIs [s]
			ontime5	8460.8001260757	Sum of GTIs [s]
			ontime7	8460.8001260757	Sum of GTIs [s]
			l1events	852472	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	141449	146442	147510	158795	135908	122368	grade 0 events	10692	10373	11231	10854	9517	6164
rejected events	119301	124008	125397	136807	76005	71785		7%	7%	7%	6%	7%	5%
rejected %	84%	84%	85%	86%	55%	58%	grade 1 events	71	53	68	64	129	97
								0%	0%	0%	0%	0%	0%
							grade 2 events	4775	4916	4398	4251	20163	12552
								3%	3%	2%	2%	14%	10%
							grade 3 events	1554	1519	1566	1675	1893	3949
								1%	1%	1%	1%	1%	3%
							grade 4 events	1516	1613	1588	1600	1825	3939
								1%	1%	1%	1%	1%	3%
							grade 5 events	2961	2960	2760	3344	7035	7860
								2%	2%	1%	2%	5%	6%
							grade 6 events	3611	4013	3330	3608	26505	23979
								2%	2%	2%	2%	19%	19%
							grade 7 events	116269	120995	122569	133399	68841	63828
								82%	82%	83%	84%	50%	52%

## 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	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	329.4293605271095	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-34.76184751682894	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	55.4361728941626	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-0.7809083437167272			
[mm] SIM defocus	0.1037507710433287	0.7524282956875696			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	554543655.102863	554543654.07786			
Observation start date	2015-07-29T07:54:15	2015-07-29T07:54:14			
[s] Observation end time (MET)	554555729.603542	554555728.57854			
Observation end date	2015-07-29T11:15:30	2015-07-29T11:15:28			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.07.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4608001260757

### A.2 Comments