

# V&V Reference Report

## L2 ASCDS Version : 10.2.4

Observation 52485 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Sep 9 2014

## 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

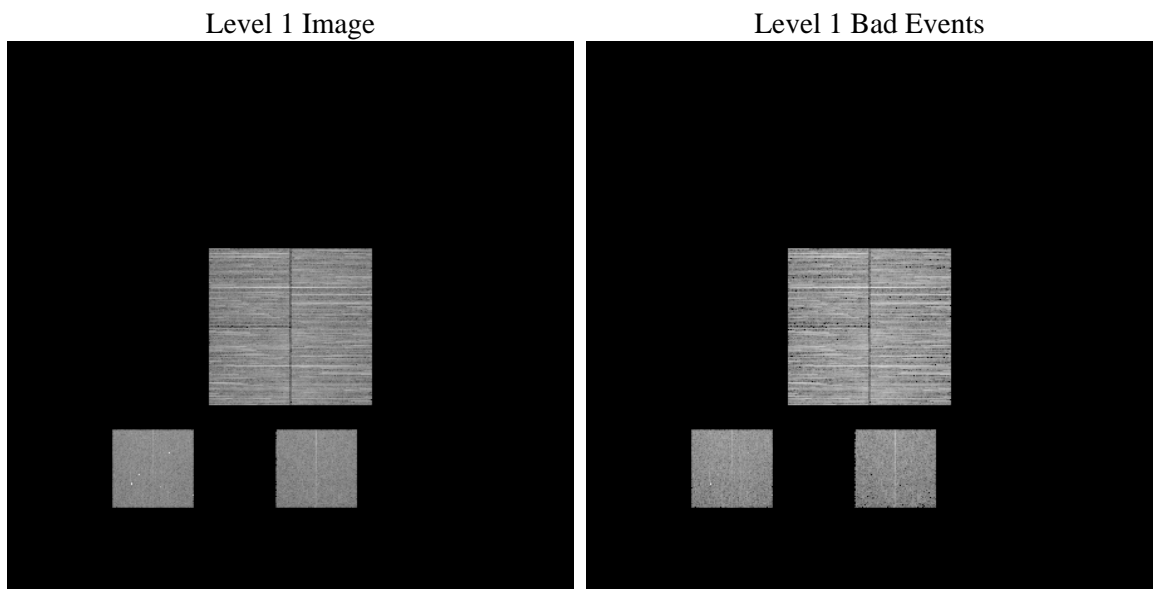
# 1 Front

seq_num	&#160	Sequence number
obs_id	52485	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	325.40183480661	Nominal RA [deg]
dec_nom	-15.657858266979	Nominal Dec [deg]
roll_nom	250.22126768632	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5052.5085269809	Sum of GTIs [s]
livetime	4988.5306217569	Livetime [s]
ontime0	5052.4674869776	Sum of GTIs [s]
ontime1	5052.4264469743	Sum of GTIs [s]
ontime2	5052.385406971	Sum of GTIs [s]
ontime3	5052.5495669842	Sum of GTIs [s]
ontime5	5052.3443669677	Sum of GTIs [s]
ontime7	5052.5085269809	Sum of GTIs [s]
l2events	136234	Number of level 2 events

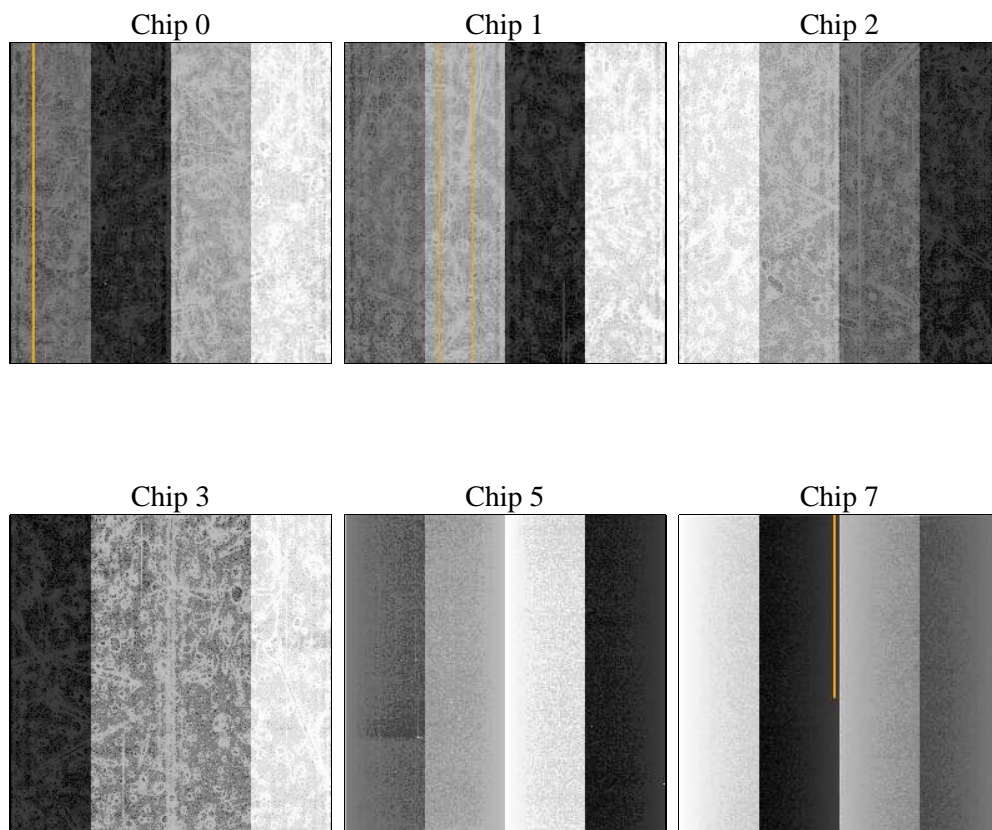
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	5052.5085269809	Sum of GTIs [s]
caldsver	4.6.3	&#160	ontime0	5052.4674869776	Sum of GTIs [s]
date	2014-09-09T18:47:50	Date and time of file creation	ontime1	5052.4264469743	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5052.385406971	Sum of GTIs [s]
			ontime3	5052.5495669842	Sum of GTIs [s]
			ontime5	5052.3443669677	Sum of GTIs [s]
			ontime7	5052.5085269809	Sum of GTIs [s]
			l1events	567461	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	96480	99864	104138	104046	85617	77316	grade 0 events	9459	9092	9836	9588	5510	5476
rejected events	78153	81390	85804	85920	47431	42931		9%	9%	9%	9%	6%	7%
rejected %	81%	81%	82%	82%	55%	55%	grade 1 events	57	45	53	55	121	60
								0%	0%	0%	0%	0%	0%
							grade 2 events	3772	4230	3629	3712	14779	8852
								3%	4%	3%	3%	17%	11%
							grade 3 events	1300	1217	1331	1340	1311	2916
								1%	1%	1%	1%	1%	3%
							grade 4 events	1322	1292	1288	1232	1280	2853
								1%	1%	1%	1%	1%	3%
							grade 5 events	1818	1808	1716	1959	3874	4732
								1%	1%	1%	1%	4%	6%
							grade 6 events	3419	3548	3181	3243	17182	16002
								3%	3%	3%	3%	20%	20%
							grade 7 events	75333	78632	83104	82917	41560	36425
								78%	78%	79%	79%	48%	47%

## 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	325.4018348066134
[deg] Pointing Dec	0	-15.65785826697898
[deg] Pointing Roll	0.0	250.2212676863174
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)	526631691.992829	526631691.992829
Observation start date	2014-09-09T06:34:52	2014-09-09T06:34:51
[s] Observation end time (MET)	526638237.552933	526638237.552933
Observation end date	2014-09-09T08:23:58	2014-09-09T08:23:57
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
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	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.09.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0525085269809

### A.2 Comments