

# V&V Reference Report

## L2 ASCDS Version : 10.2.2

Observation 52711 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jun 14 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

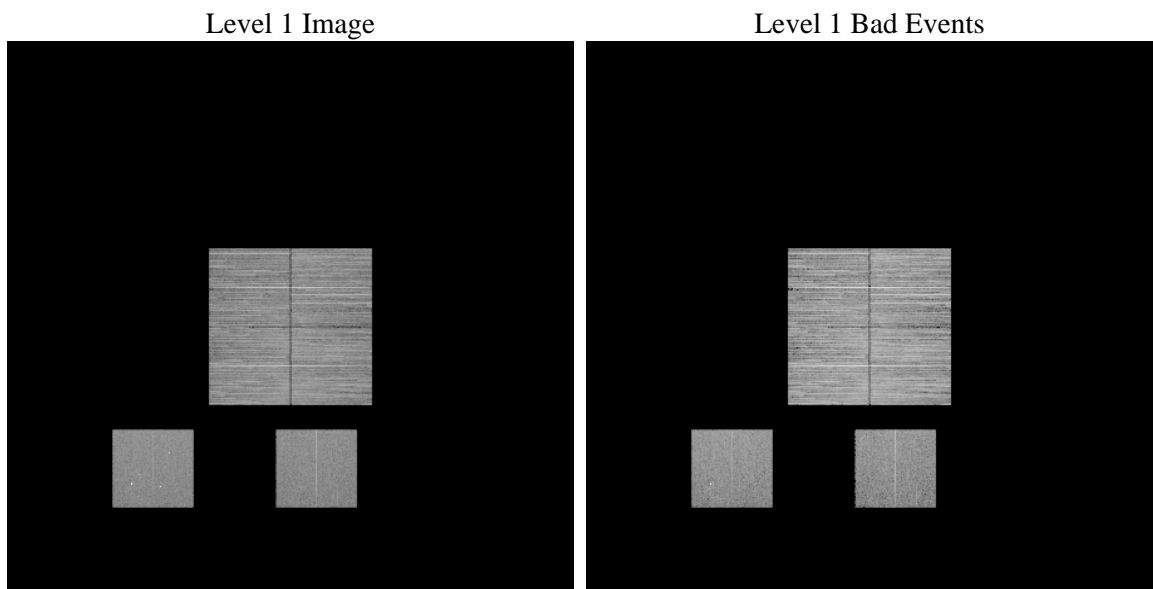
# 1 Front

seq_num	&#160	Sequence number
obs_id	52711	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	280.01188855252	Nominal RA [deg]
dec_nom	-44.972524920061	Nominal Dec [deg]
roll_nom	39.963435099634	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8153.5999696851	Sum of GTIs [s]
livetime	8050.3541773604	Livetime [s]
ontime0	8153.5681720376	Sum of GTIs [s]
ontime1	8153.5271320343	Sum of GTIs [s]
ontime2	8153.486092031	Sum of GTIs [s]
ontime3	8153.5999696851	Sum of GTIs [s]
ontime5	8153.4450520277	Sum of GTIs [s]
ontime7	8153.5999696851	Sum of GTIs [s]
l2events	203141	Number of level 2 events

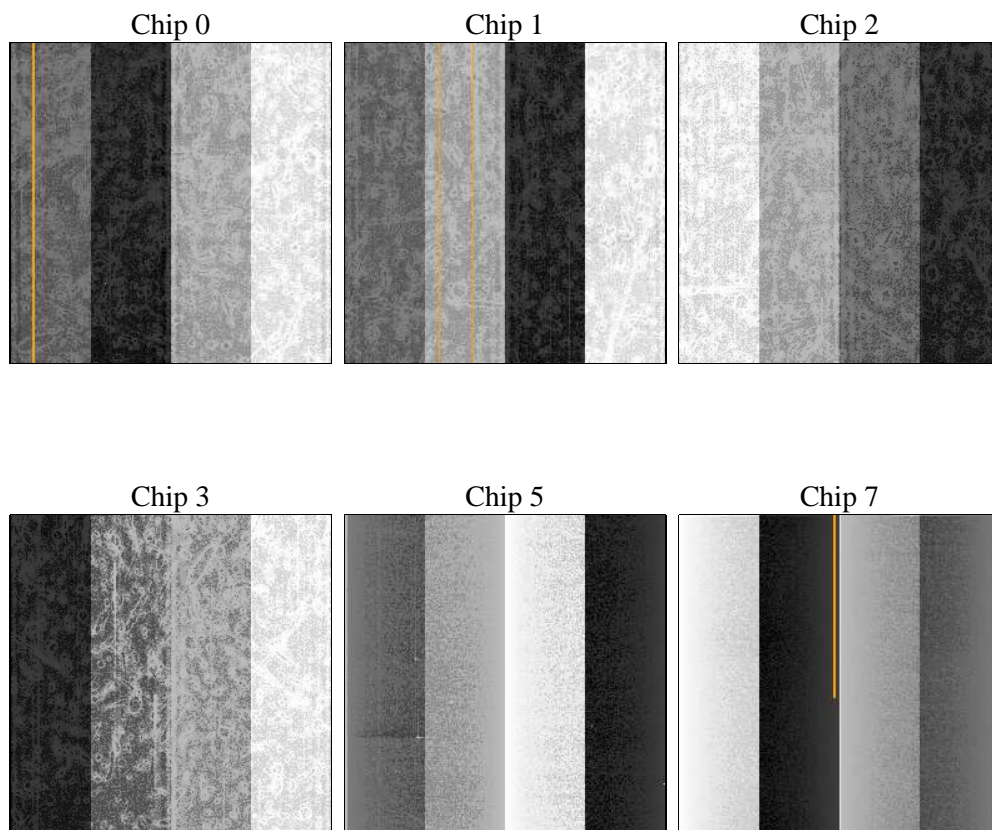
## 2 OBI

### 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	10.2.2	Processing system revision	ontime	8153.5999696851	Sum of GTIs [s]
caldsver	4.6.1	&#160	ontime0	8153.5681720376	Sum of GTIs [s]
date	2014-06-14T14:37:06	Date and time of file creation	ontime1	8153.5271320343	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8153.486092031	Sum of GTIs [s]
			ontime3	8153.5999696851	Sum of GTIs [s]
			ontime5	8153.4450520277	Sum of GTIs [s]
			ontime7	8153.5999696851	Sum of GTIs [s]
			l1events	845486	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	136098	145222	160047	154321	130063	119735	grade 0 events	13350	12993	14006	14132	6657	7327
rejected events	109731	118935	133377	127876	72152	67278		9%	8%	8%	9%	5%	6%
rejected %	80%	81%	83%	82%	55%	56%	grade 1 events	69	66	77	76	137	78
								0%	0%	0%	0%	0%	0%
							grade 2 events	5265	5590	5285	5091	21794	13014
								3%	3%	3%	3%	16%	10%
							grade 3 events	1910	1762	1879	1806	2009	4350
								1%	1%	1%	1%	1%	3%
							grade 4 events	1884	1890	1889	1937	1930	4340
								1%	1%	1%	1%	1%	3%
							grade 5 events	2915	2879	2618	3221	5998	7514
								2%	1%	1%	2%	4%	6%
							grade 6 events	4389	4564	4102	3986	26557	24383
								3%	3%	2%	2%	20%	20%
							grade 7 events	106316	115478	130191	124072	64981	58729
								78%	79%	81%	80%	49%	49%

## 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	280.0118885525185
[deg] Pointing Dec	0	-44.97252492006083
[deg] Pointing Roll	0.0	39.96343509963413
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)	519089917.874895	519089917.874895
Observation start date	2014-06-13T23:38:38	2014-06-13T23:38:37
[s] Observation end time (MET)	519098837.117549	519098837.117549
Observation end date	2014-06-14T02:07:17	2014-06-14T02:07:17
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	Joy Nichols
V&V Date (YYYY-MM-DD)	2014.06.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1535999696851

### A.2 Comments