

# V&V Reference Report

## L2 ASCDS Version : 10.2.1

Observation 53007 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Feb 12 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

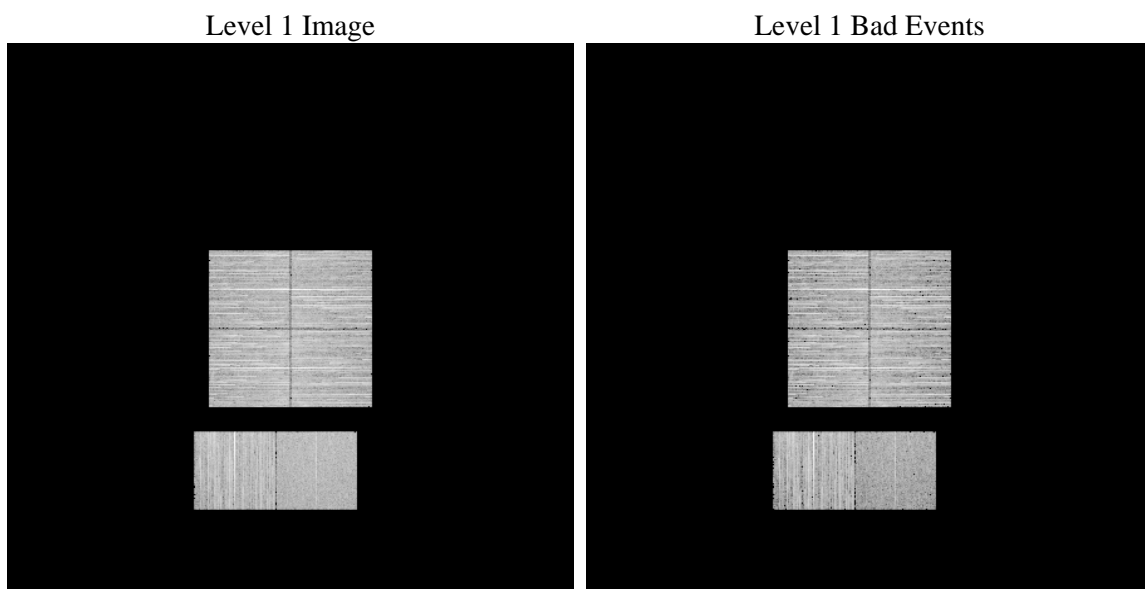
# 1 Front

seq_num	&#160	Sequence number
obs_id	53007	Observation id
title	ACIS-012367 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	270.86469509009	Nominal RA [deg]
dec_nom	53.136559142732	Nominal Dec [deg]
roll_nom	49.629156076079	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5459.1891342998	Sum of GTIs [s]
livetime	5390.0615943522	Livetime [s]
ontime0	5459.1480942965	Sum of GTIs [s]
ontime1	5459.1070542932	Sum of GTIs [s]
ontime2	5459.0660142899	Sum of GTIs [s]
ontime3	5459.1999797225	Sum of GTIs [s]
ontime6	5459.0249742866	Sum of GTIs [s]
ontime7	5459.1891342998	Sum of GTIs [s]
l2events	119424	Number of level 2 events

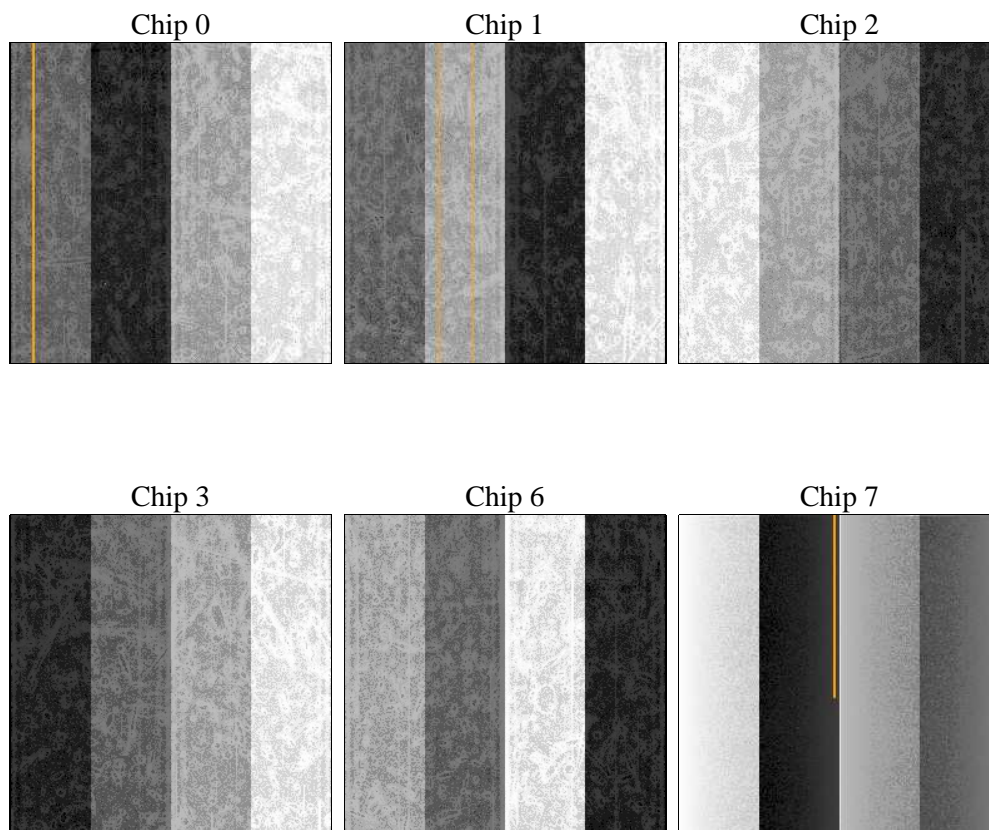
## 2 OBI

### 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	10.2.1	Processing system revision	ontime	5459.1891342998	Sum of GTIs [s]
caldbver	4.6.0	&#160	ontime0	5459.1480942965	Sum of GTIs [s]
date	2014-02-12T16:58:04	Date and time of file creation	ontime1	5459.1070542932	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5459.0660142899	Sum of GTIs [s]
			ontime3	5459.1999797225	Sum of GTIs [s]
			ontime6	5459.0249742866	Sum of GTIs [s]
			ontime7	5459.1891342998	Sum of GTIs [s]
			l1events	557967	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	91163	94483	103069	94265	95201	79786	grade 0 events	9695	9310	9830	10016	9904	5178
rejected events	72938	76082	84746	75946	75913	45522		10%	9%	9%	10%	10%	6%
rejected %	80%	80%	82%	80%	79%	57%	grade 1 events	53	38	54	50	42	37
								0%	0%	0%	0%	0%	0%
							grade 2 events	3875	4110	3794	3598	4011	8689
								4%	4%	3%	3%	4%	10%
							grade 3 events	1362	1320	1355	1375	1380	2954
								1%	1%	1%	1%	1%	3%
							grade 4 events	1305	1337	1363	1351	1381	2909
								1%	1%	1%	1%	1%	3%
							grade 5 events	1856	1889	1726	2040	1979	5096
								2%	1%	1%	2%	2%	6%
							grade 6 events	2881	3196	2874	2868	3532	16265
								3%	3%	2%	3%	3%	20%
							grade 7 events	70136	73283	82073	72967	72972	38658
								76%	77%	79%	77%	76%	48%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	270.8646950900873
[deg] Pointing Dec	0	53.13655914273246
[deg] Pointing Roll	0.0	49.6291560760786
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)	508580655.845184	508580655.845184
Observation start date	2014-02-12T08:24:16	2014-02-12T08:24:15
[s] Observation end time (MET)	508588173.129368	508588173.129368
Observation end date	2014-02-12T10:29:33	2014-02-12T10:29:33
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	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.02.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.4591891342998

### A.2 Comments