

# V&V Reference Report

## L2 ASCDS Version : 10.3.1

Observation 52194 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jan 9 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

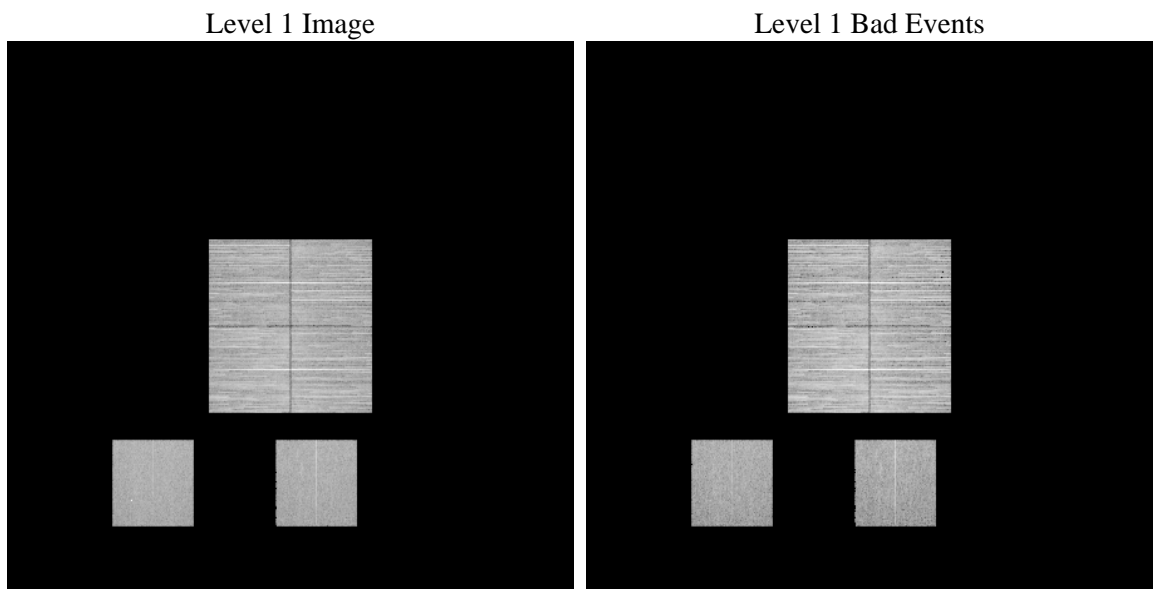
# 1 Front

seq_num	&#160	Sequence number
obs_id	52194	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	136.23298570569	Nominal RA [deg]
dec_nom	13.882392589381	Nominal Dec [deg]
roll_nom	67.793545416604	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8428.8001255989	Sum of GTIs [s]
livetime	8322.0695831945	Livetime [s]
ontime0	8428.8001255989	Sum of GTIs [s]
ontime1	8428.8001255989	Sum of GTIs [s]
ontime2	8428.8001255989	Sum of GTIs [s]
ontime3	8428.8001255989	Sum of GTIs [s]
ontime5	8428.8001255989	Sum of GTIs [s]
ontime7	8428.8001255989	Sum of GTIs [s]
l2events	189572	Number of level 2 events

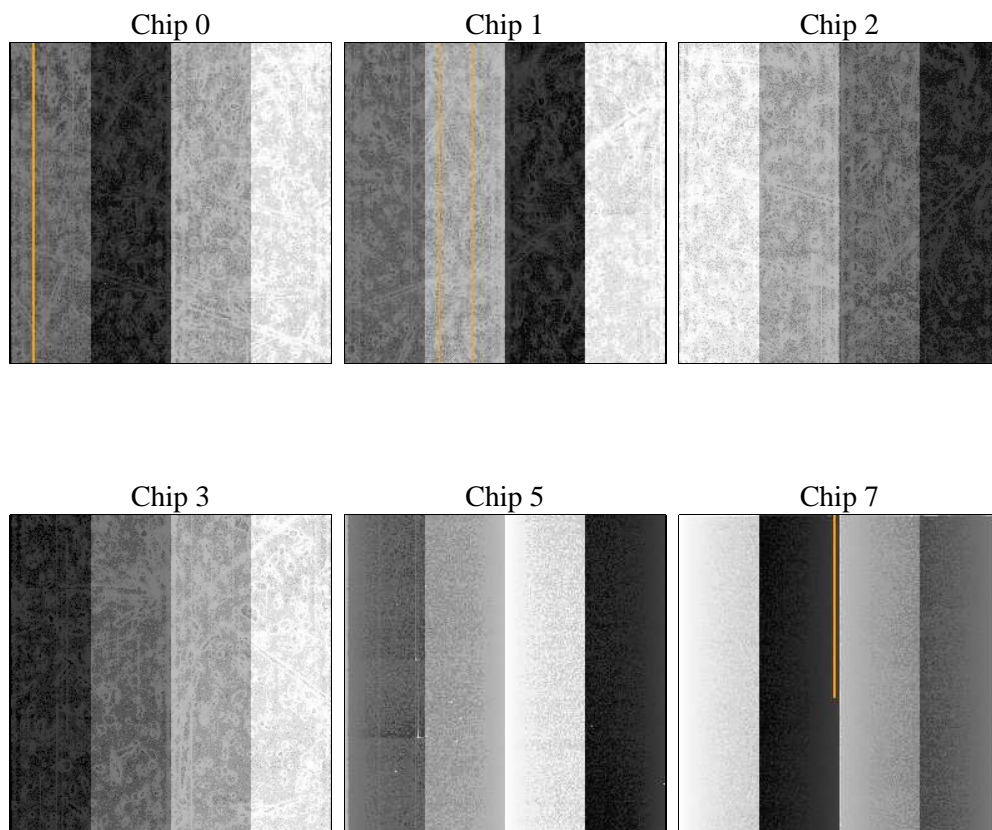
## 2 OBI

### 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	10.3.1	Processing system revision	ontime	8428.8001255989	Sum of GTIs [s]
caldsver	4.6.5	&#160	ontime0	8428.8001255989	Sum of GTIs [s]
date	2015-01-10T04:26:43	Date and time of file creation	ontime1	8428.8001255989	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8428.8001255989	Sum of GTIs [s]
			ontime3	8428.8001255989	Sum of GTIs [s]
			ontime5	8428.8001255989	Sum of GTIs [s]
			ontime7	8428.8001255989	Sum of GTIs [s]
			l1events	861724	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	143907	148150	174738	152803	123370	118756	grade 0 events	11372	10222	11925	12121	3605	5895
rejected events	119467	123941	150339	127954	71452	69338		7%	6%	6%	7%	2%	4%
rejected %	83%	83%	86%	83%	57%	58%	grade 1 events	50	44	62	75	161	87
								0%	0%	0%	0%	0%	0%
							grade 2 events	5768	6615	5346	5368	18829	12443
								4%	4%	3%	3%	15%	10%
							grade 3 events	1599	1454	1696	1686	1565	3571
								1%	0%	0%	1%	1%	3%
							grade 4 events	1493	1438	1570	1681	1519	3437
								1%	0%	0%	1%	1%	2%
							grade 5 events	2640	2500	2573	2932	5132	6674
								1%	1%	1%	1%	4%	5%
							grade 6 events	4213	4486	3870	4002	26424	24089
								2%	3%	2%	2%	21%	20%
							grade 7 events	116772	121391	147696	124938	66135	62560
								81%	81%	84%	81%	53%	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	136.2329857056888	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	13.88239258938123	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	67.79354541660439	[s] Primary exposure time	3.2	3.2
[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)	537177936.02966	537177935.00466			
Observation start date	2015-01-09T08:05:36	2015-01-09T08:05:35			
[s] Observation end time (MET)	537190533.280363	537190532.25536			
Observation end date	2015-01-09T11:35:33	2015-01-09T11:35:32			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2015.01.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4288001255989

### A.2 Comments