

# V&V Reference Report

## L2 ASCDS Version : 10.2.2

Observation 52707 - 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

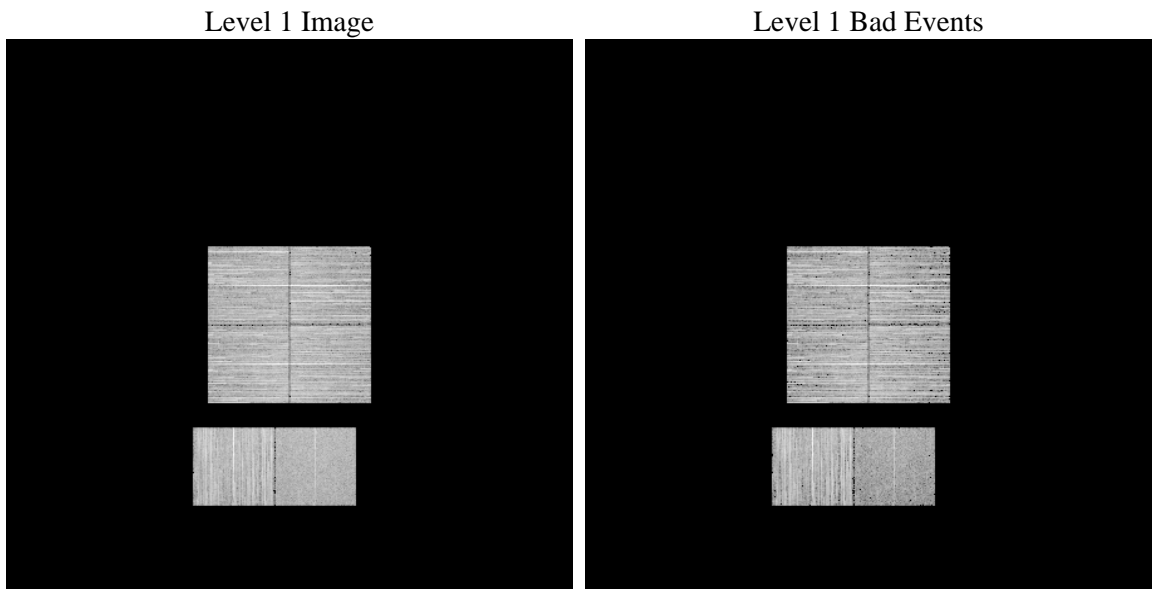
# 1 Front

seq_num	&#160	Sequence number
obs_id	52707	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	288.96989280588	Nominal RA [deg]
dec_nom	-21.974580938112	Nominal Dec [deg]
roll_nom	98.127542887649	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4966.1644531488	Sum of GTIs [s]
livetime	4903.2798885778	Livetime [s]
ontime0	4966.1234131455	Sum of GTIs [s]
ontime1	4966.0823731422	Sum of GTIs [s]
ontime2	4966.0413331389	Sum of GTIs [s]
ontime3	4966.2054931521	Sum of GTIs [s]
ontime6	4962.7592427731	Sum of GTIs [s]
ontime7	4966.1644531488	Sum of GTIs [s]
l2events	103871	Number of level 2 events

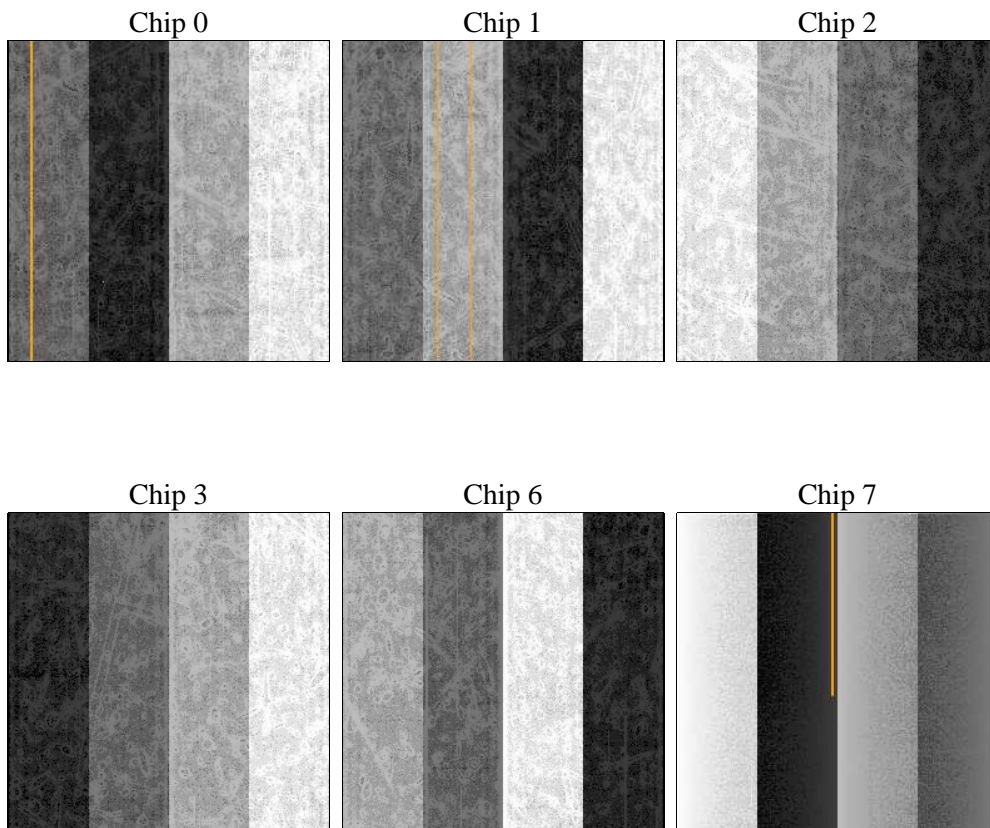
## 2 OBI

### 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	4966.1644531488	Sum of GTIs [s]
caldsver	4.6.1	&#160	ontime0	4966.1234131455	Sum of GTIs [s]
date	2014-06-14T19:49:30	Date and time of file creation	ontime1	4966.0823731422	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	4966.0413331389	Sum of GTIs [s]
			ontime3	4966.2054931521	Sum of GTIs [s]
			ontime6	4962.7592427731	Sum of GTIs [s]
			ontime7	4966.1644531488	Sum of GTIs [s]
			l1events	513360	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	85632	83578	89507	87621	95825	71197	grade 0 events	7650	7348	7979	8170	7602	4016
rejected events	69938	67980	73833	71728	79464	40312		8%	8%	8%	9%	7%	5%
rejected %	81%	81%	82%	81%	82%	56%	grade 1 events	41	27	48	62	37	48
								0%	0%	0%	0%	0%	0%
							grade 2 events	3342	3506	3147	3054	3735	7611
								3%	4%	3%	3%	3%	10%
							grade 3 events	1023	1013	1104	1146	1053	2237
								1%	1%	1%	1%	1%	3%
							grade 4 events	1050	1003	1073	1126	1065	2315
								1%	1%	1%	1%	1%	3%
							grade 5 events	1593	1590	1607	1826	1724	4293
								1%	1%	1%	2%	1%	6%
							grade 6 events	2639	2739	2377	2406	2915	14732
								3%	3%	2%	2%	3%	20%
							grade 7 events	68294	66352	72172	69831	77694	35945
								79%	79%	80%	79%	81%	50%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	288.9698928058792	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-21.97458093811218	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	98.12754288764944	[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)	519120915.926609	519120914.90161			
Observation start date	2014-06-14T08:15:16	2014-06-14T08:15:14			
[s] Observation end time (MET)	519130296.727127	519130295.70213			
Observation end date	2014-06-14T10:51:37	2014-06-14T10:51:35			
Read mode	TIMED	TIMED			

## 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	4.9661644531488

### A.2 Comments