

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 52005 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Mar 22 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

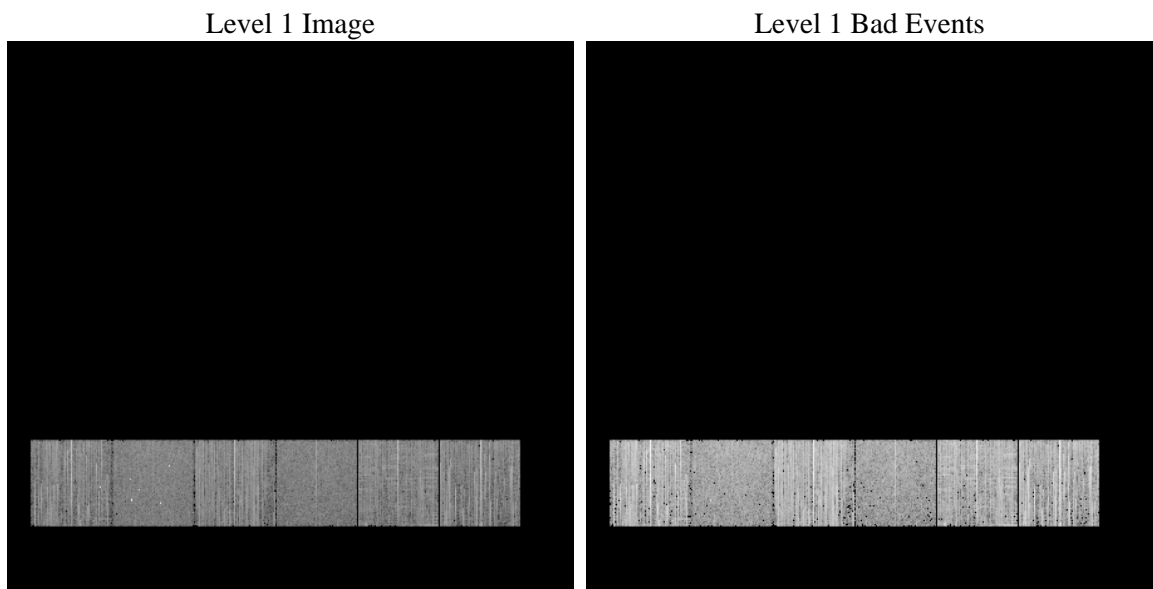
# 1 Front

seq_num	&#160	Sequence number
obs_id	52005	Observation id
title	ACIS-456789 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	203.97898628925	Nominal RA [deg]
dec_nom	6.0199444982067	Nominal Dec [deg]
roll_nom	103.50745272923	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4012.8000597954	Sum of GTIs [s]
livetime	3961.9875692201	Livetime [s]
ontime4	4012.8000597954	Sum of GTIs [s]
ontime5	4012.8000597954	Sum of GTIs [s]
ontime6	4012.8000597954	Sum of GTIs [s]
ontime7	4012.8000597954	Sum of GTIs [s]
ontime8	4012.8000597954	Sum of GTIs [s]
ontime9	4012.8000597954	Sum of GTIs [s]
l2events	84916	Number of level 2 events

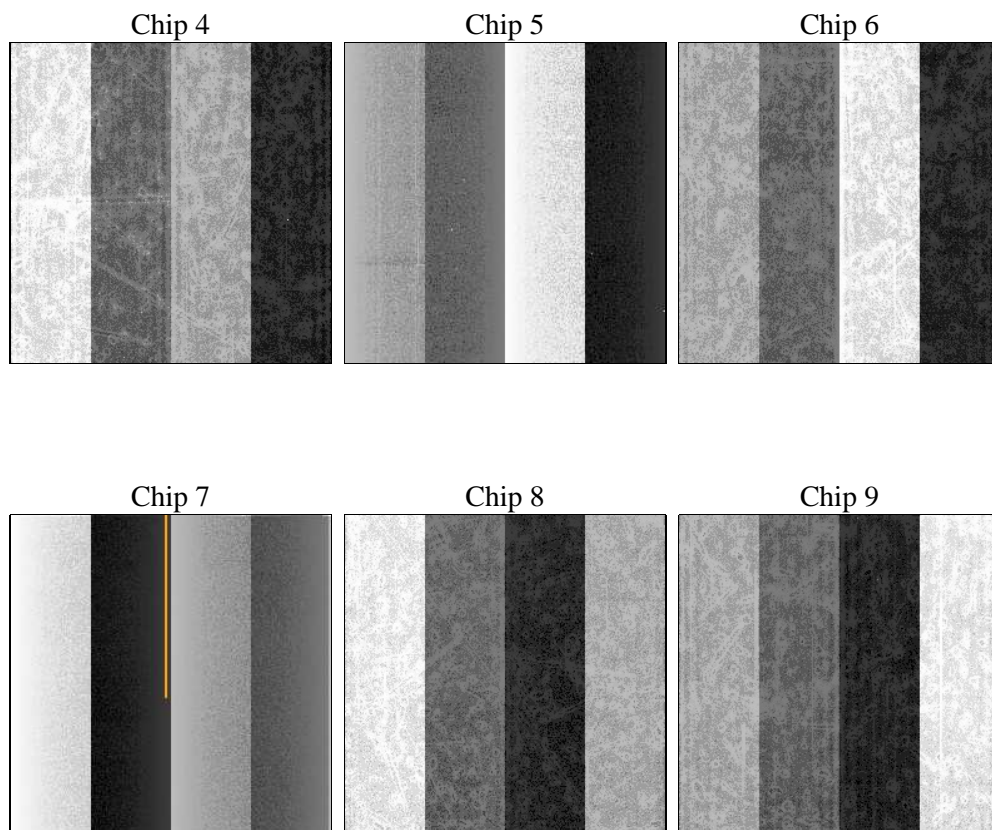
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	4012.8000597954	Sum of GTIs [s]
caldbver	4.6.7	&#160	ontime4	4012.8000597954	Sum of GTIs [s]
date	2015-03-22T04:18:33	Date and time of file creation	ontime5	4012.8000597954	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	4012.8000597954	Sum of GTIs [s]
			ontime7	4012.8000597954	Sum of GTIs [s]
			ontime8	4012.8000597954	Sum of GTIs [s]
			ontime9	4012.8000597954	Sum of GTIs [s]
			l1events	388495	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	69047	58536	72133	51349	68031	69399	grade 0 events	6675	4978	4958	2854	6462	5316
rejected events	56922	31939	60927	29693	52837	58143		9%	8%	6%	5%	9%	7%
rejected %	82%	54%	84%	57%	77%	83%	grade 1 events	43	104	15	33	35	25
								0%	0%	0%	0%	0%	0%
							grade 2 events	2199	8928	2705	5378	3251	2363
								3%	15%	3%	10%	4%	3%
							grade 3 events	786	676	659	1584	1129	731
								1%	1%	0%	3%	1%	1%
							grade 4 events	768	677	663	1583	1157	757
								1%	1%	0%	3%	1%	1%
							grade 5 events	1314	2398	1268	2957	1786	1508
								1%	4%	1%	5%	2%	2%
							grade 6 events	1709	11363	2228	10279	3206	2095
								2%	19%	3%	20%	4%	3%
							grade 7 events	55553	29412	59637	26681	51005	56604
								80%	50%	82%	51%	74%	81%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	203.9789862892522	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	6.019944498206723	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	103.5074527292286	[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)	543311522.022423	543311520.99742			
Observation start date	2015-03-21T07:52:02	2015-03-21T07:52:00			
[s] Observation end time (MET)	543328647.723381	543328646.69838			
Observation end date	2015-03-21T12:37:28	2015-03-21T12:37:26			
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)	2015.03.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.0128000597954

### A.2 Comments