

# V&V Reference Report

## L2 ASCDS Version : 10.3

Observation 52279 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Nov 30 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

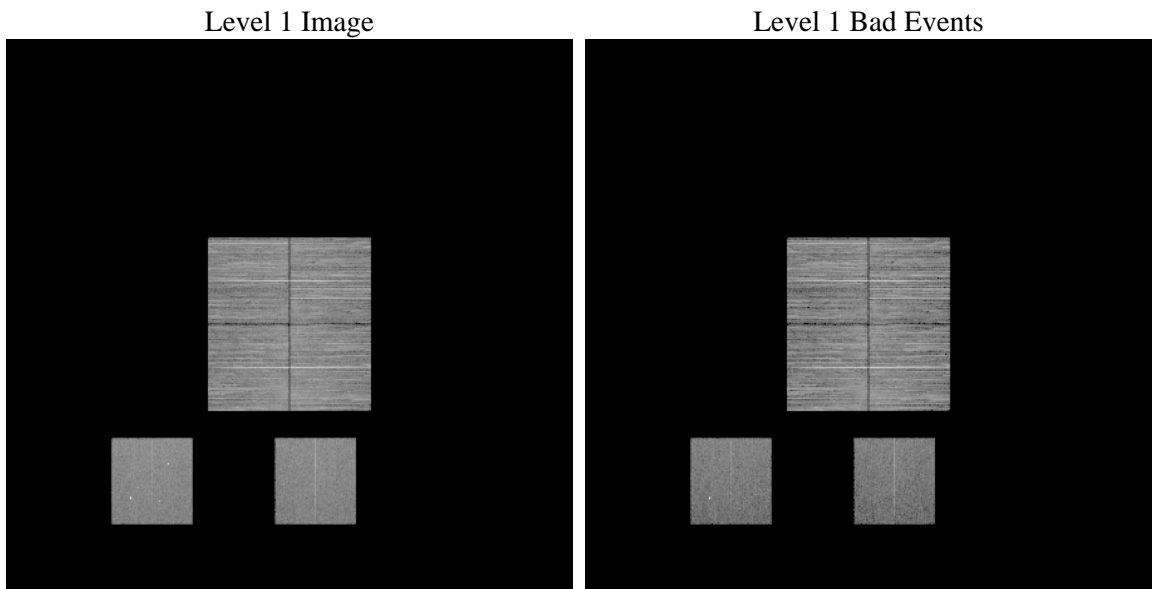
# 1 Front

seq_num	&#160	Sequence number
obs_id	52279	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	68.905130274012	Nominal RA [deg]
dec_nom	-3.5888006668403	Nominal Dec [deg]
roll_nom	5.5362704633994	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8465.4194846153	Sum of GTIs [s]
livetime	8358.2252458375	Livetime [s]
ontime0	8465.4605246186	Sum of GTIs [s]
ontime1	8465.5015646219	Sum of GTIs [s]
ontime2	8467.1999685168	Sum of GTIs [s]
ontime3	8465.3784251809	Sum of GTIs [s]
ontime5	8467.1607156992	Sum of GTIs [s]
ontime7	8465.4194846153	Sum of GTIs [s]
l2events	199608	Number of level 2 events

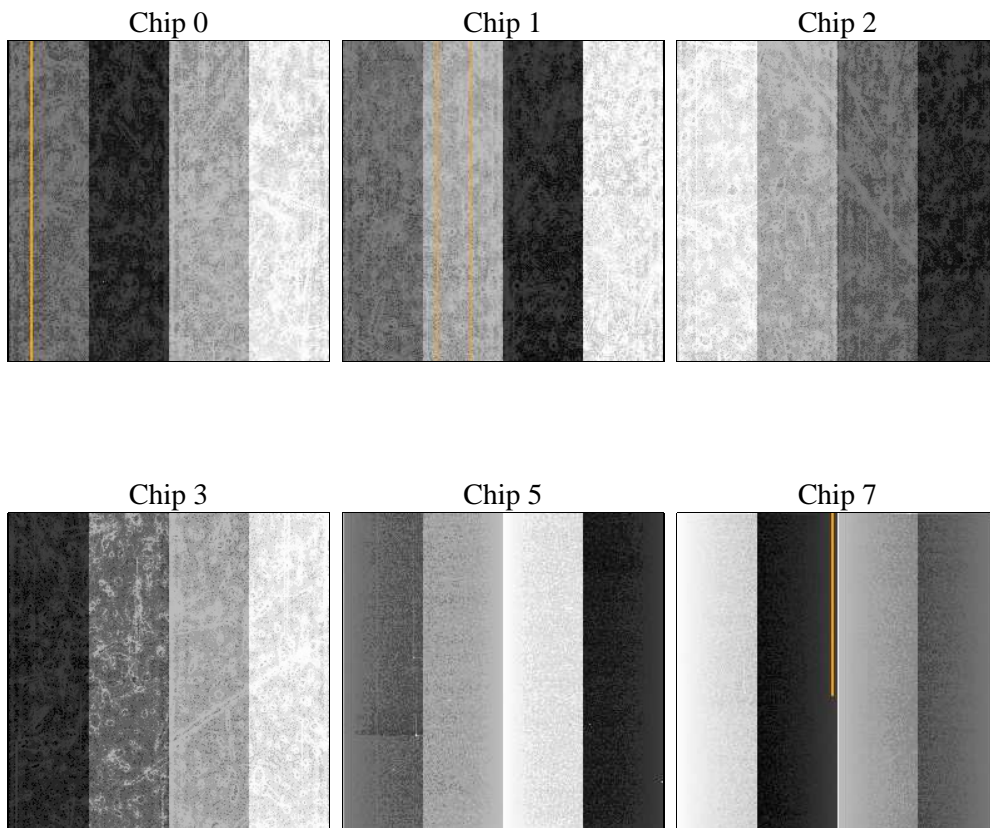
## 2 OBI

### 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	10.3	Processing system revision	ontime	8465.4194846153	Sum of GTIs [s]
caldsver	4.6.4	&#160	ontime0	8465.4605246186	Sum of GTIs [s]
date	2014-12-01T02:23:24	Date and time of file creation	ontime1	8465.5015646219	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8467.1999685168	Sum of GTIs [s]
			ontime3	8465.3784251809	Sum of GTIs [s]
			ontime5	8467.1607156992	Sum of GTIs [s]
			ontime7	8465.4194846153	Sum of GTIs [s]
			l1events	880428	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	150296	153269	156154	162299	135030	123380	grade 0 events	12119	11893	12600	12702	6114	6860
rejected events	125256	128107	131226	137208	76749	70163		8%	7%	8%	7%	4%	5%
rejected %	83%	83%	84%	84%	56%	56%	grade 1 events	72	65	72	94	149	76
								0%	0%	0%	0%	0%	0%
							grade 2 events	5277	5568	4916	4780	21255	13086
								3%	3%	3%	2%	15%	10%
							grade 3 events	1757	1708	1723	1797	1876	4198
								1%	1%	1%	1%	1%	3%
							grade 4 events	1745	1692	1863	1835	1897	4172
								1%	1%	1%	1%	1%	3%
							grade 5 events	2932	3011	2918	3274	6133	7847
								1%	1%	1%	2%	4%	6%
							grade 6 events	4142	4301	3826	3977	27158	24901
								2%	2%	2%	2%	20%	20%
							grade 7 events	122252	125031	128236	133840	70448	62240
								81%	81%	82%	82%	52%	50%

## 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	68.90513027401232	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-3.588800666840296	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	5.536270463399358	[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	250.4635187648994			
[mm] SIM translation stage offset	0	-0.007540371344731511			
[s] Observation start time (MET)	533748373.988488	533748372.96349			
Observation start date	2014-11-30T15:26:14	2014-11-30T15:26:12			
[s] Observation end time (MET)	533760975.33919	533760974.31419			
Observation end date	2014-11-30T18:56:15	2014-11-30T18:56:14			
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)	2014.12.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4654194846153

### A.2 Comments