

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 55431 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Feb 10 2012

## 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

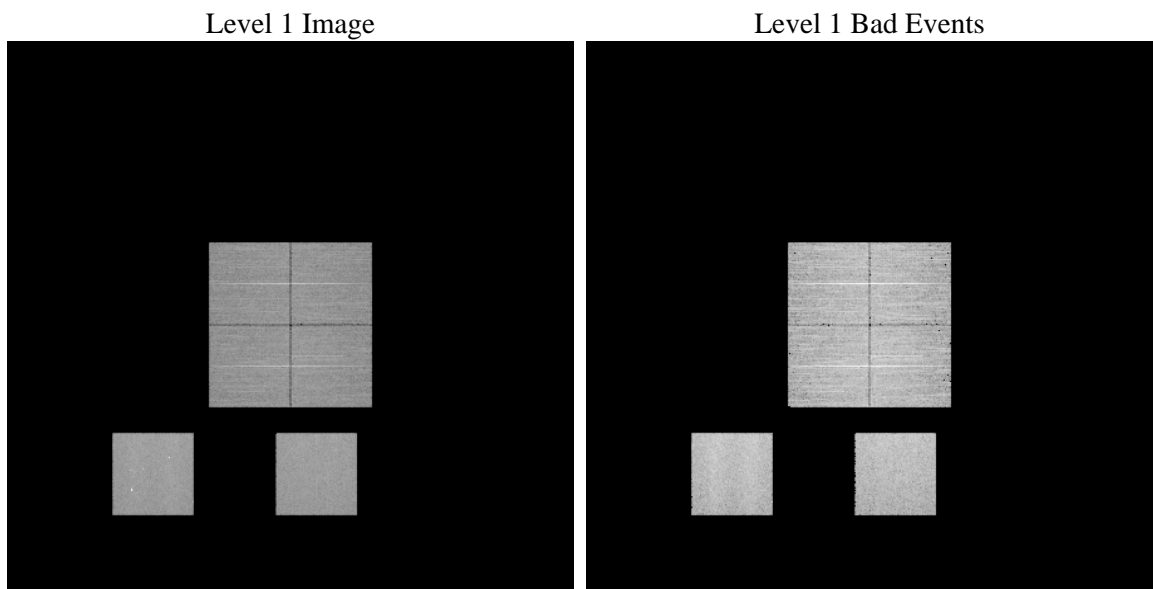
# 1 Front

seq_num	&#160	Sequence number
obs_id	55431	Observation id
title	ACIS-012357 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycle	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	240.96145954818	Nominal RA [deg]
dec_nom	20.995996834633	Nominal Dec [deg]
roll_nom	165.55092494726	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8280.7848703861	Sum of GTIs [s]
livetime	8175.9285862673	Livetime [s]
ontime0	8280.7848703861	Sum of GTIs [s]
ontime1	8280.7848703861	Sum of GTIs [s]
ontime2	8280.7708321214	Sum of GTIs [s]
ontime3	8280.7848703861	Sum of GTIs [s]
ontime5	8280.7297921181	Sum of GTIs [s]
ontime7	8280.7848703861	Sum of GTIs [s]
l2events	330397	Number of level 2 events

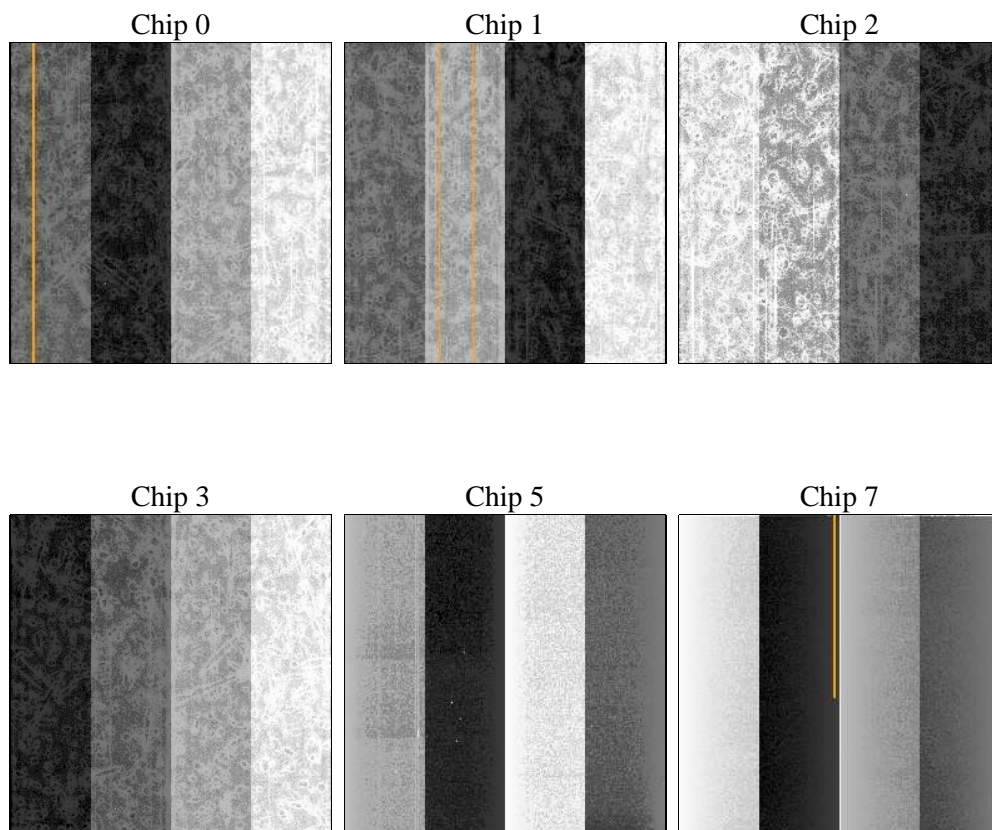
## 2 OBI

### 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	8.4.3	Processing system revision	ontime	8280.7848703861	Sum of GTIs [s]
caldsver	4.4.7	&#160	ontime0	8280.7848703861	Sum of GTIs [s]
date	2012-02-10T07:02:12	Date and time of file creation	ontime1	8280.7848703861	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	8280.7708321214	Sum of GTIs [s]
			ontime3	8280.7848703861	Sum of GTIs [s]
			ontime5	8280.7297921181	Sum of GTIs [s]
			ontime7	8280.7848703861	Sum of GTIs [s]
			l1events	730823	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	108095	108257	110464	112651	149330	142026	grade 0 events	19243	16261	21278	21374	7846	11817
rejected events	61255	60945	63848	64995	67784	63127		17%	15%	19%	18%	5%	8%
rejected %	56%	56%	57%	57%	45%	44%	grade 1 events	127	82	125	133	180	107
								0%	0%	0%	0%	0%	0%
							grade 2 events	14190	17536	12394	12943	26824	16875
								13%	16%	11%	11%	17%	11%
							grade 3 events	2449	2082	2586	2639	3735	6897
								2%	1%	2%	2%	2%	4%
							grade 4 events	2496	2099	2550	2615	3439	6142
								2%	1%	2%	2%	2%	4%
							grade 5 events	2758	2701	2608	3242	6795	8368
								2%	2%	2%	2%	4%	5%
							grade 6 events	8462	9334	7808	8085	39702	37168
								7%	8%	7%	7%	26%	26%
							grade 7 events	58370	58162	61115	61620	60809	54652
								53%	53%	55%	54%	40%	38%

## 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	240.961459548176	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	20.99599683463317	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	165.5509249472634	[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)	421779089.508461	421779088.48347			
Observation start date	2011-05-14T16:51:30	2011-05-14T16:51:28			
[s] Observation end time (MET)	421790054.959031	421790053.93404			
Observation end date	2011-05-14T19:54:15	2011-05-14T19:54:13			
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)	2012.02.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2807848703861

### **A.2 Comments**