

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 55874 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Jul 7 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

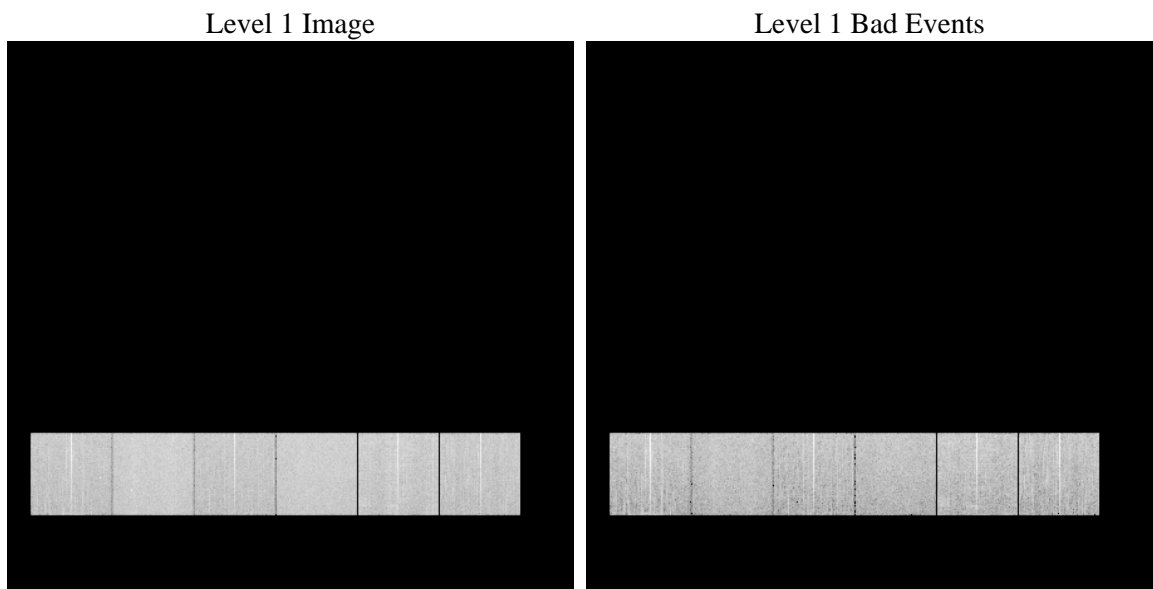
# 1 Front

seq_num	&#160	Sequence number
obs_id	55874	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	74.794184695716	Nominal RA [deg]
dec_nom	10.828134895489	Nominal Dec [deg]
roll_nom	68.544538587513	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8277.5501067042	Sum of GTIs [s]
livetime	8172.7347831109	Livetime [s]
ontime4	8277.5020766258	Sum of GTIs [s]
ontime5	8277.5501165986	Sum of GTIs [s]
ontime6	8277.5431166291	Sum of GTIs [s]
ontime7	8277.5501067042	Sum of GTIs [s]
ontime8	8277.4610366225	Sum of GTIs [s]
ontime9	8277.5501067042	Sum of GTIs [s]
l2events	379481	Number of level 2 events

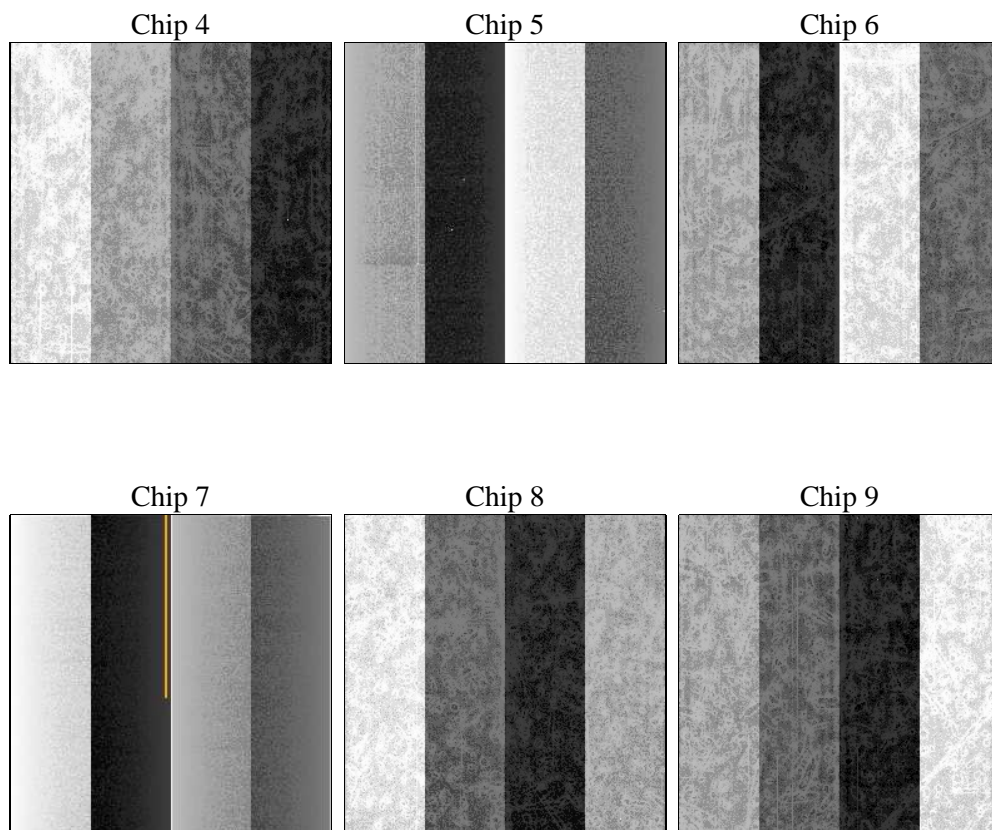
## 2 OBI

### 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	8.4.5	Processing system revision	ontime	8277.5501067042	Sum of GTIs [s]
caldsver	4.5.0	&#160	ontime4	8277.5020766258	Sum of GTIs [s]
date	2012-07-07T03:26:47	Date and time of file creation	ontime5	8277.5501165986	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8277.5431166291	Sum of GTIs [s]
			ontime7	8277.5501067042	Sum of GTIs [s]
			ontime8	8277.4610366225	Sum of GTIs [s]
			ontime9	8277.5501067042	Sum of GTIs [s]
			l1events	817614	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	124767	154557	122063	149789	142241	124197	grade 0 events	30826	8963	28799	14310	33608	29429
rejected events	70788	66394	64991	62798	72547	68281		24%	5%	23%	9%	23%	23%
rejected %	56%	42%	53%	41%	51%	54%	grade 1 events	296	197	150	116	213	203
								0%	0%	0%	0%	0%	0%
							grade 2 events	8386	32816	11247	19222	13146	9904
								6%	21%	9%	12%	9%	7%
							grade 3 events	3923	3305	3632	7608	5177	3808
								3%	2%	2%	5%	3%	3%
							grade 4 events	3846	3119	3580	7397	5098	3722
								3%	2%	2%	4%	3%	2%
							grade 5 events	3782	7607	3835	9391	5119	4436
								3%	4%	3%	6%	3%	3%
							grade 6 events	6998	39960	9814	38454	12665	9053
								5%	25%	8%	25%	8%	7%
							grade 7 events	66710	58590	61006	53291	67215	63642
								53%	37%	49%	35%	47%	51%

## 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	74.79418469571578	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	10.82813489548909	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	68.54453858751313	[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)	406248807.354885	406248806.32989			
Observation start date	2010-11-15T22:53:27	2010-11-15T22:53:26			
[s] Observation end time (MET)	406257755.605346	406257754.58035			
Observation end date	2010-11-16T01:22:36	2010-11-16T01:22:34			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.07.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2775501067042

### A.2 Comments