

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 55079 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Feb 26 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

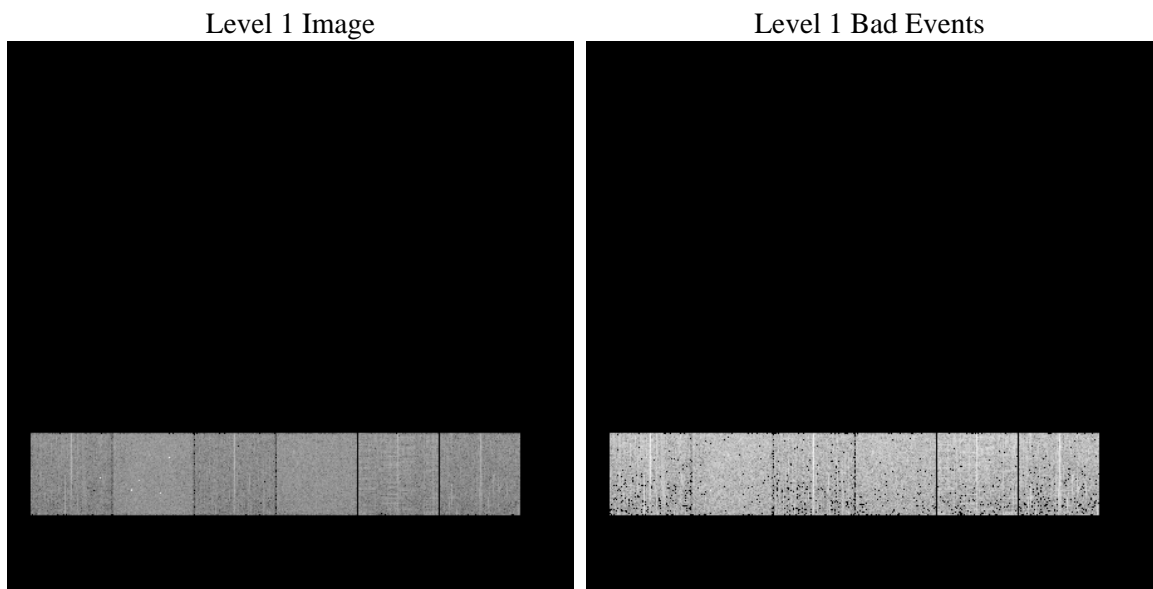
# 1 Front

seq_num	&#160	Sequence number
obs_id	55079	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	52.020375732288	Nominal RA [deg]
dec_nom	-5.9775721445329	Nominal Dec [deg]
roll_nom	29.830333936534	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3285.8131598234	Sum of GTIs [s]
livetime	3244.2062151146	Livetime [s]
ontime4	3285.6900398135	Sum of GTIs [s]
ontime5	3285.7721198201	Sum of GTIs [s]
ontime6	3285.7310798168	Sum of GTIs [s]
ontime7	3285.8131598234	Sum of GTIs [s]
ontime8	3285.6489998102	Sum of GTIs [s]
ontime9	3285.8541998267	Sum of GTIs [s]
l2events	130178	Number of level 2 events

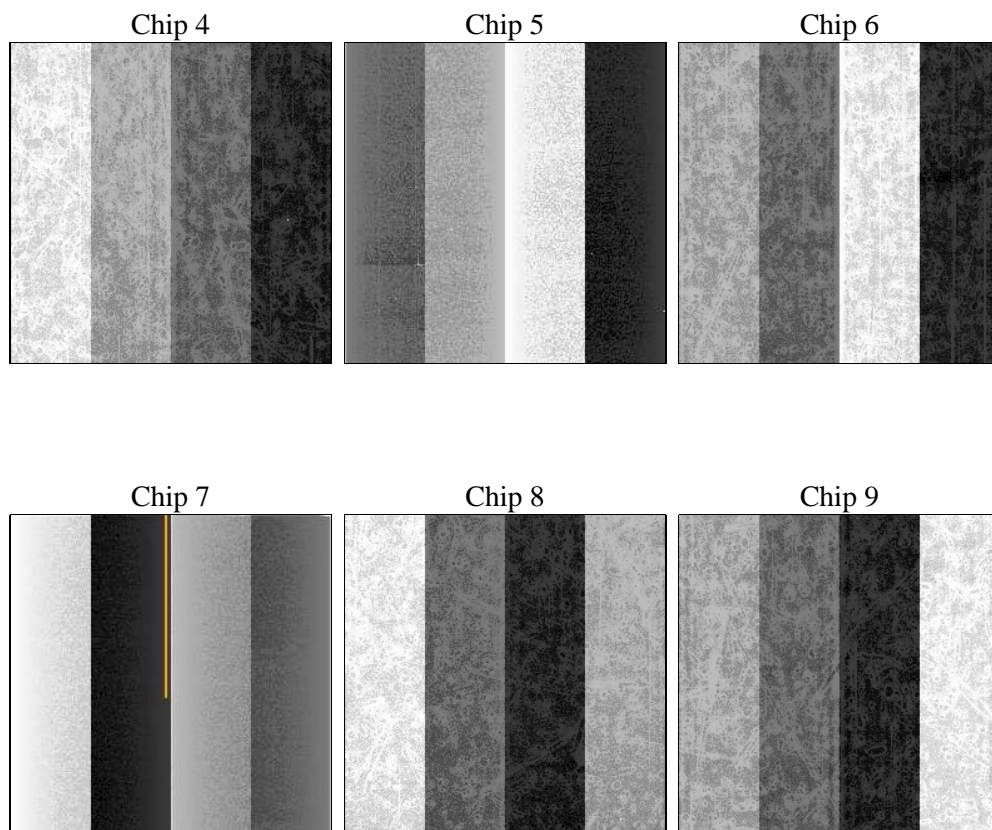
## 2 OBI

### 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	3285.8131598234	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime4	3285.6900398135	Sum of GTIs [s]
date	2012-02-26T05:37:16	Date and time of file creation	ontime5	3285.7721198201	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3285.7310798168	Sum of GTIs [s]
			ontime7	3285.8131598234	Sum of GTIs [s]
			ontime8	3285.6489998102	Sum of GTIs [s]
			ontime9	3285.8541998267	Sum of GTIs [s]
			l1events	287355	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	42857	56597	41104	53567	50936	42294	grade 0 events	10749	4854	9882	5058	11381	9948
rejected events	23960	24057	21782	23089	26389	23277		25%	8%	24%	9%	22%	23%
rejected %	55%	42%	52%	43%	51%	55%	grade 1 events	72	101	50	47	50	67
								0%	0%	0%	0%	0%	0%
							grade 2 events	3009	11339	3564	6666	4756	3358
								7%	20%	8%	12%	9%	7%
							grade 3 events	1343	1386	1263	2709	1901	1293
								3%	2%	3%	5%	3%	3%
							grade 4 events	1313	1322	1312	2701	1778	1318
								3%	2%	3%	5%	3%	3%
							grade 5 events	1384	3088	1463	3468	1846	1659
								3%	5%	3%	6%	3%	3%
							grade 6 events	2483	13639	3301	13344	4731	3100
								5%	24%	8%	24%	9%	7%
							grade 7 events	22504	20868	20269	19574	24493	21551
								52%	36%	49%	36%	48%	50%

## 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	52.02037573228759	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-5.977572144532877	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	29.83033393653375	[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)	436832221.260781	436832220.23579			
Observation start date	2011-11-04T22:17:01	2011-11-04T22:17:00			
[s] Observation end time (MET)	436850937.761765	436850936.73677			
Observation end date	2011-11-05T03:28:58	2011-11-05T03:28:56			
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)	2012.02.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2858131598234

### A.2 Comments