

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 58198 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : May 1 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

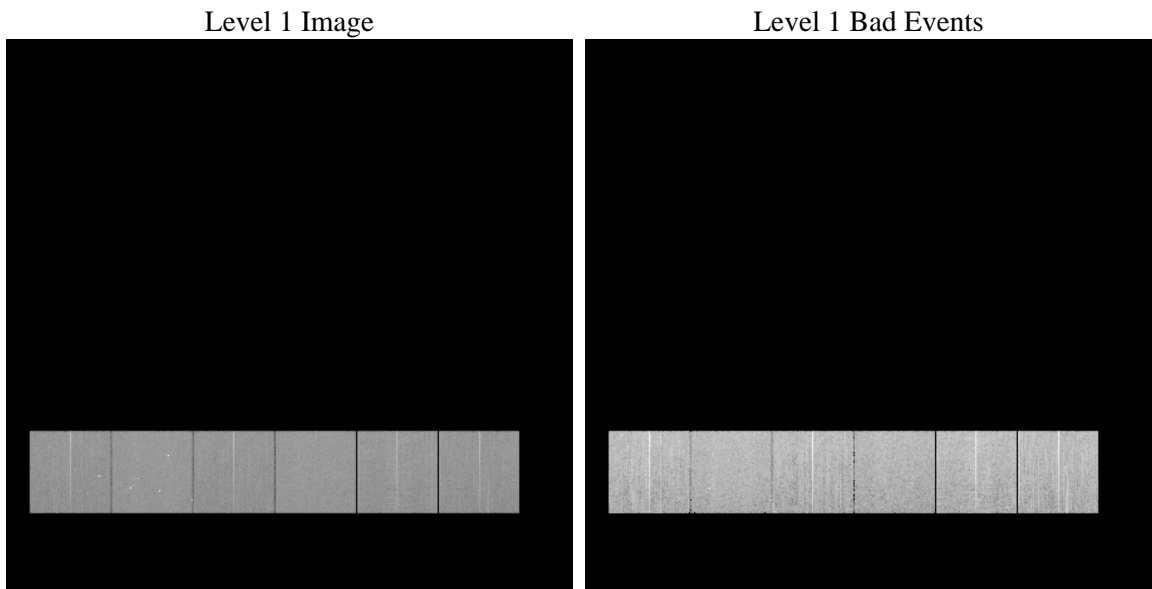
# 1 Front

seq_num	&#160	Sequence number
obs_id	58198	Observation id
title	ACIS-456789 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	10.01784339597	Nominal RA [deg]
dec_nom	-26.476133126857	Nominal Dec [deg]
roll_nom	23.213636743598	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8236.0893800259	Sum of GTIs [s]
livetime	8131.7990571183	Livetime [s]
ontime4	8235.966260016	Sum of GTIs [s]
ontime5	8236.0483400226	Sum of GTIs [s]
ontime6	8236.0073000193	Sum of GTIs [s]
ontime7	8236.0893800259	Sum of GTIs [s]
ontime8	8235.9252200127	Sum of GTIs [s]
ontime9	8236.1304200292	Sum of GTIs [s]
l2events	713935	Number of level 2 events

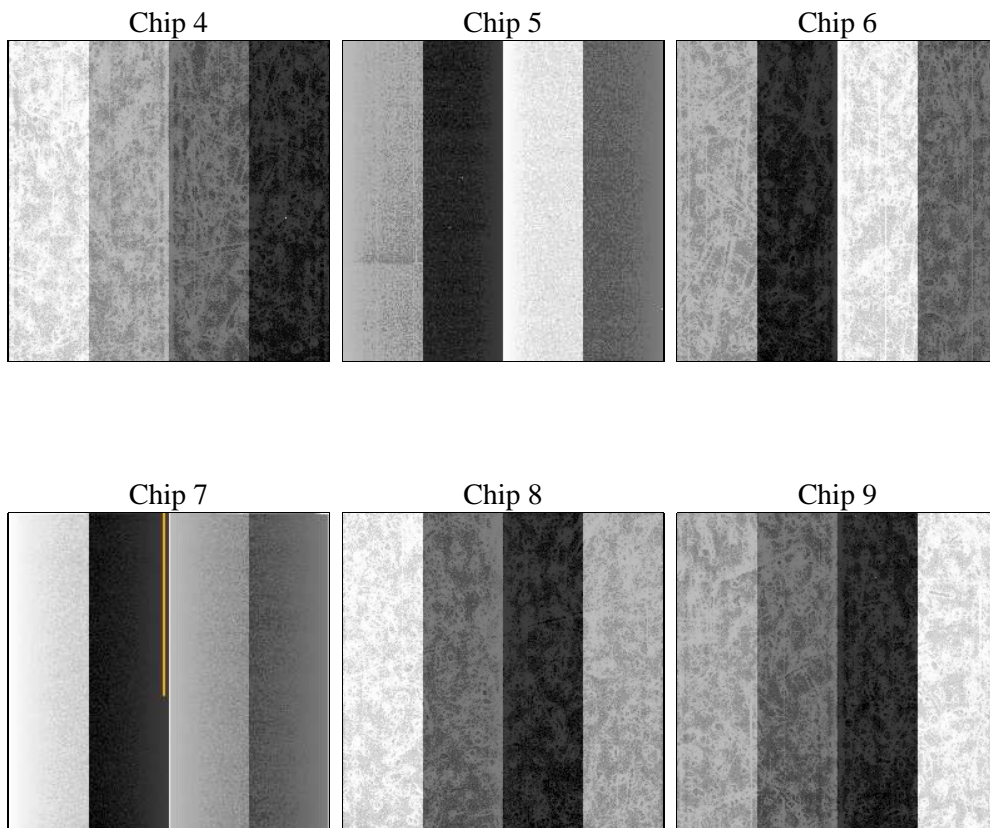
## 2 OBI

### 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	8.4.4	Processing system revision	ontime	8236.0893800259	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime4	8235.966260016	Sum of GTIs [s]
date	2012-05-01T21:39:29	Date and time of file creation	ontime5	8236.0483400226	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8236.0073000193	Sum of GTIs [s]
			ontime7	8236.0893800259	Sum of GTIs [s]
			ontime8	8235.9252200127	Sum of GTIs [s]
			ontime9	8236.1304200292	Sum of GTIs [s]
			l1events	1228572	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	194761	217901	194513	214037	211238	196122	grade 0 events	65655	27368	63461	31436	67528	62485
rejected events	82026	71372	76034	64753	80626	81252		33%	12%	32%	14%	31%	31%
rejected %	42%	32%	39%	30%	38%	41%	grade 1 events	651	351	394	166	469	516
								0%	0%	0%	0%	0%	0%
							grade 2 events	17722	52047	21018	32780	24042	19847
								9%	23%	10%	15%	11%	10%
							grade 3 events	7734	7373	7615	14416	8932	7791
								3%	3%	3%	6%	4%	3%
							grade 4 events	7685	7337	7520	14363	9150	7521
								3%	3%	3%	6%	4%	3%
							grade 5 events	4346	9794	4378	10781	5609	4798
								2%	4%	2%	5%	2%	2%
							grade 6 events	14510	53120	19491	57015	21659	17836
								7%	24%	10%	26%	10%	9%
							grade 7 events	76458	60511	70636	53080	73849	75328
								39%	27%	36%	24%	34%	38%

## 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	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
[deg] Pointing RA	0	10.01784339597026	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-26.47613312685672	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	23.21363674359797			
[mm] SIM focus pos	-0.684267	-1.526339935833849			
[mm] SIM defocus	0	0.006996703570447904			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	306868333.247063	306868332.22207			
Observation start date	2007-09-22T17:12:13	2007-09-22T17:12:12			
[s] Observation end time (MET)	306879825.547616	306879824.52263			
Observation end date	2007-09-22T20:23:46	2007-09-22T20:23:44			
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)	2012.05.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2360893800259

### A.2 Comments