

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 58823 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Apr 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

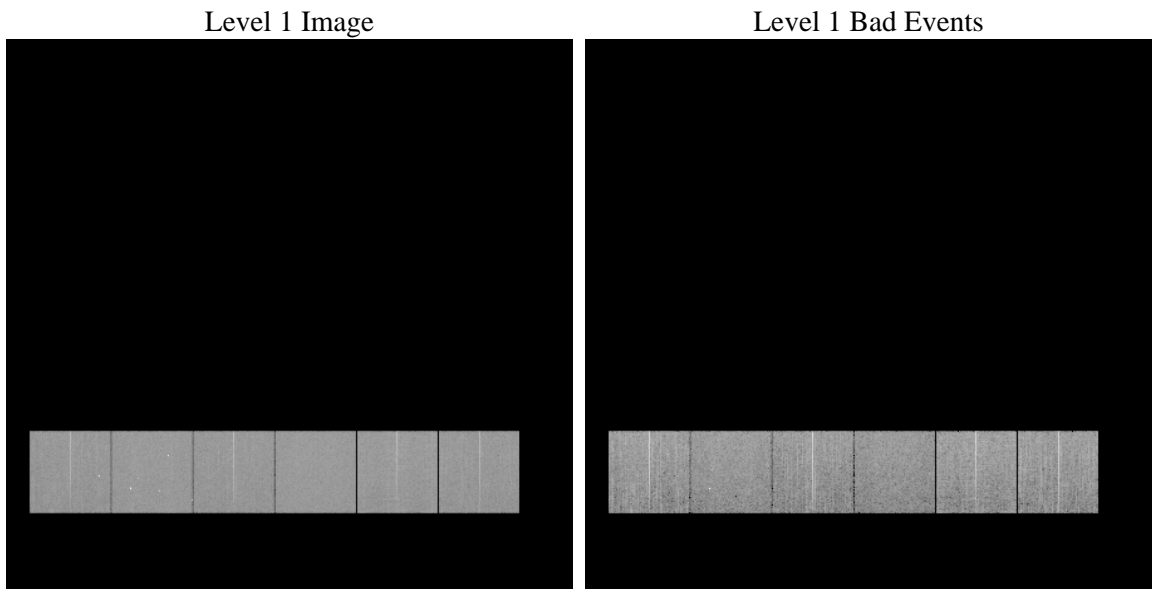
# 1 Front

seq_num	&#160	Sequence number
obs_id	58823	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	299.99472016127	Nominal RA [deg]
dec_nom	4.9732013759713	Nominal Dec [deg]
roll_nom	236.80603206935	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7793.8948714137	Sum of GTIs [s]
livetime	7695.2038816318	Livetime [s]
ontime4	7795.1999710202	Sum of GTIs [s]
ontime5	7795.1999710202	Sum of GTIs [s]
ontime6	7795.1999710202	Sum of GTIs [s]
ontime7	7793.8948714137	Sum of GTIs [s]
ontime8	7795.1999710202	Sum of GTIs [s]
ontime9	7793.8538115621	Sum of GTIs [s]
l2events	837433	Number of level 2 events

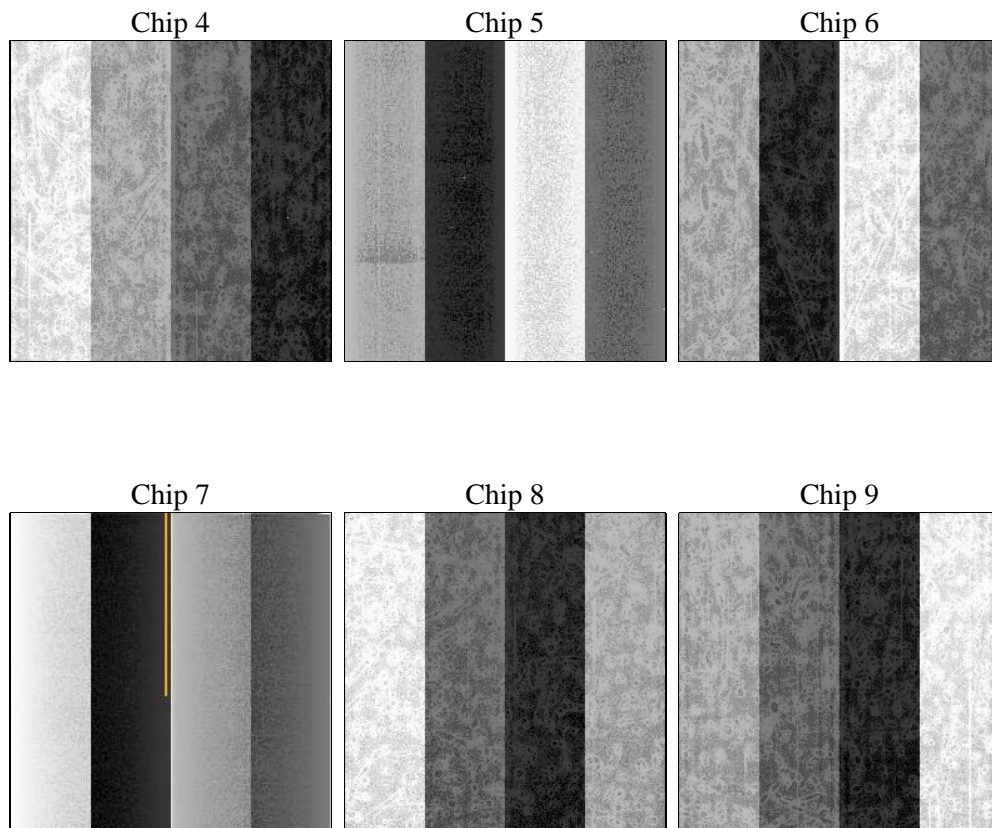
## 2 OBI

### 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	8.4.3.1	Processing system revision	ontime	7793.8948714137	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime4	7795.1999710202	Sum of GTIs [s]
date	2012-04-07T15:10:34	Date and time of file creation	ontime5	7795.1999710202	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	7795.1999710202	Sum of GTIs [s]
			ontime7	7793.8948714137	Sum of GTIs [s]
			ontime8	7795.1999710202	Sum of GTIs [s]
			ontime9	7793.8538115621	Sum of GTIs [s]
			l1events	1300706	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	208344	221551	210275	223265	226618	210653	grade 0 events	78703	30383	77717	37042	81049	76242
rejected events	72627	62189	65654	56018	72859	71066		37%	13%	36%	16%	35%	36%
rejected %	34%	28%	31%	25%	32%	33%	grade 1 events	710	232	480	173	538	530
								0%	0%	0%	0%	0%	0%
							grade 2 events	21389	57769	25633	36010	27364	24179
								10%	26%	12%	16%	12%	11%
							grade 3 events	9191	8637	8986	16379	10463	8965
								4%	3%	4%	7%	4%	4%
							grade 4 events	9096	8642	9267	16292	10193	9186
								4%	3%	4%	7%	4%	4%
							grade 5 events	3931	9162	3989	9699	4744	4276
								1%	4%	1%	4%	2%	2%
							grade 6 events	17395	54006	23072	61524	24754	21015
								8%	24%	10%	27%	10%	9%
							grade 7 events	67929	52720	61131	46146	67513	66260
								32%	23%	29%	20%	29%	31%

## 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	299.9947201612738	Alternating exposures requested	N	N
[deg] Pointing Dec	0	4.973201375971286	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	236.8060320693511			
[mm] SIM focus pos	-0.684267	-0.7809083437167272			
[mm] SIM defocus	0	0.7524282956875696			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	272316344.204215	272316343.17922			
Observation start date	2006-08-18T19:25:44	2006-08-18T19:25:43			
[s] Observation end time (MET)	272334857.755084	272334856.73009			
Observation end date	2006-08-19T00:34:18	2006-08-19T00:34:16			
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)	2012.04.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.7938948714137

### A.2 Comments