

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 59683 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 22 2012

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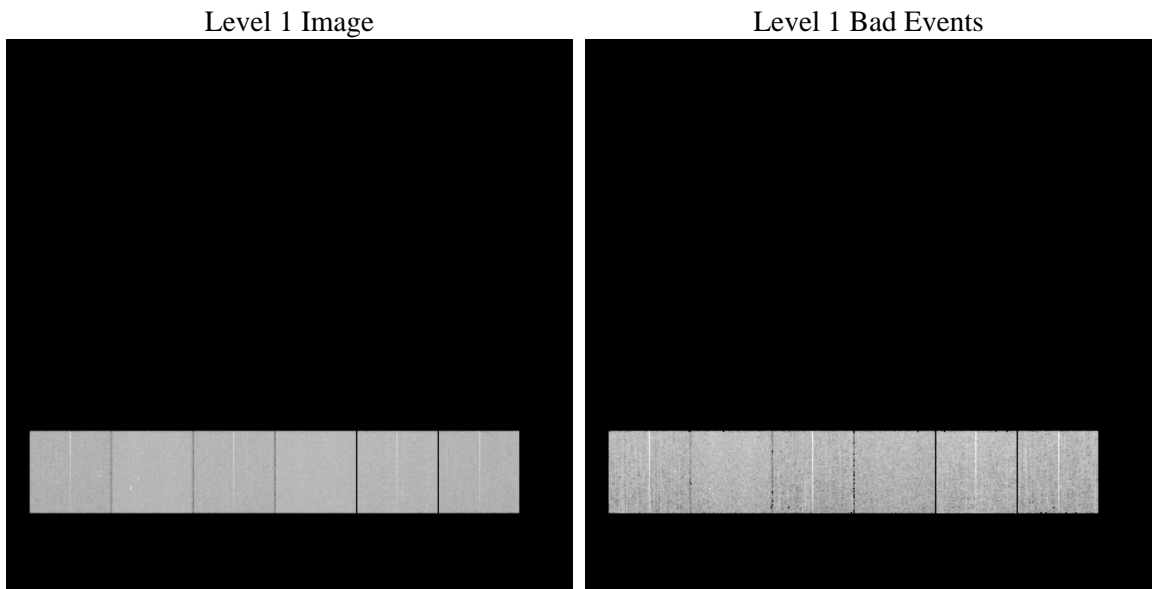
# 1 Front

seq_num	&#160	Sequence number
obs_id	59683	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	204.02930773988	Nominal RA [deg]
dec_nom	-20.008354623887	Nominal Dec [deg]
roll_nom	308.5141008496	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8239.987024188	Sum of GTIs [s]
livetime	8135.6473469633	Livetime [s]
ontime4	6729.5695594549	Sum of GTIs [s]
ontime5	8239.9459841847	Sum of GTIs [s]
ontime6	7355.1193232834	Sum of GTIs [s]
ontime7	8239.987024188	Sum of GTIs [s]
ontime8	7510.603777647	Sum of GTIs [s]
ontime9	7102.4179958403	Sum of GTIs [s]
l2events	1074173	Number of level 2 events

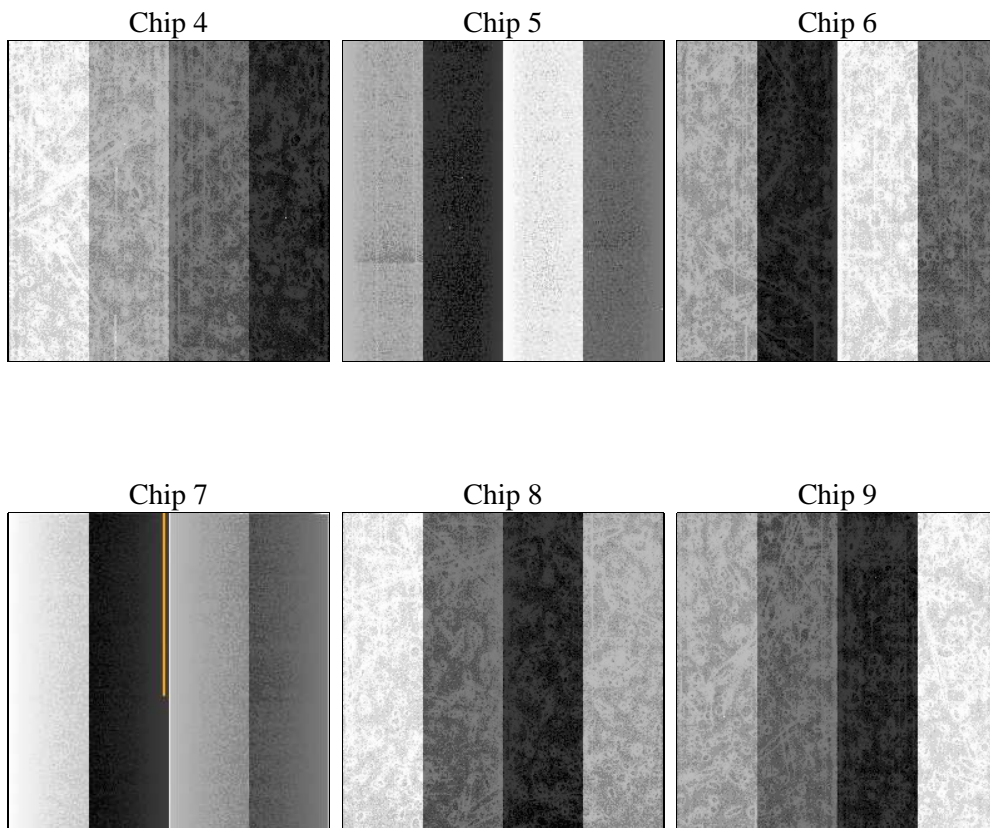
## 2 OBI

### 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	8.5.1.1	Processing system revision	ontime	8239.987024188	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime4	6729.5695594549	Sum of GTIs [s]
date	2012-12-22T17:22:01	Date and time of file creation	ontime5	8239.9459841847	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	7355.1193232834	Sum of GTIs [s]
			ontime7	8239.987024188	Sum of GTIs [s]
			ontime8	7510.603777647	Sum of GTIs [s]
			ontime9	7102.4179958403	Sum of GTIs [s]
			l1events	1490126	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	215489	264426	240989	277542	262317	229363	grade 0 events	93304	39980	101109	52917	107219	95642
rejected events	57119	61181	55162	53211	64993	56442		43%	15%	41%	19%	40%	41%
rejected %	26%	23%	22%	19%	24%	24%	grade 1 events	719	201	515	180	601	617
								0%	0%	0%	0%	0%	0%
							grade 2 events	24563	77047	32372	49265	34847	29517
								11%	29%	13%	17%	13%	12%
							grade 3 events	10490	11084	11553	22373	12940	11318
								4%	4%	4%	8%	4%	4%
							grade 4 events	10640	10682	11627	22022	12859	11146
								4%	4%	4%	7%	4%	4%
							grade 5 events	3114	8942	3562	9016	4366	3652
								1%	3%	1%	3%	1%	1%
							grade 6 events	20230	65470	29945	78828	30380	26123
								9%	24%	12%	28%	11%	11%
							grade 7 events	52429	51020	50306	42941	59105	51348
								24%	19%	20%	15%	22%	22%

## 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	204.0293077398799	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-20.00835462388698	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	308.5141008495969			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	230777120.533132	230777119.50814			
Observation start date	2005-04-25T00:45:21	2005-04-25T00:45:19			
[s] Observation end time (MET)	230800720.134205	230800719.10921			
Observation end date	2005-04-25T07:18:40	2005-04-25T07:18:39			
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)	2013.01.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.239987024188

### A.2 Comments