

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60146 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 3 2012

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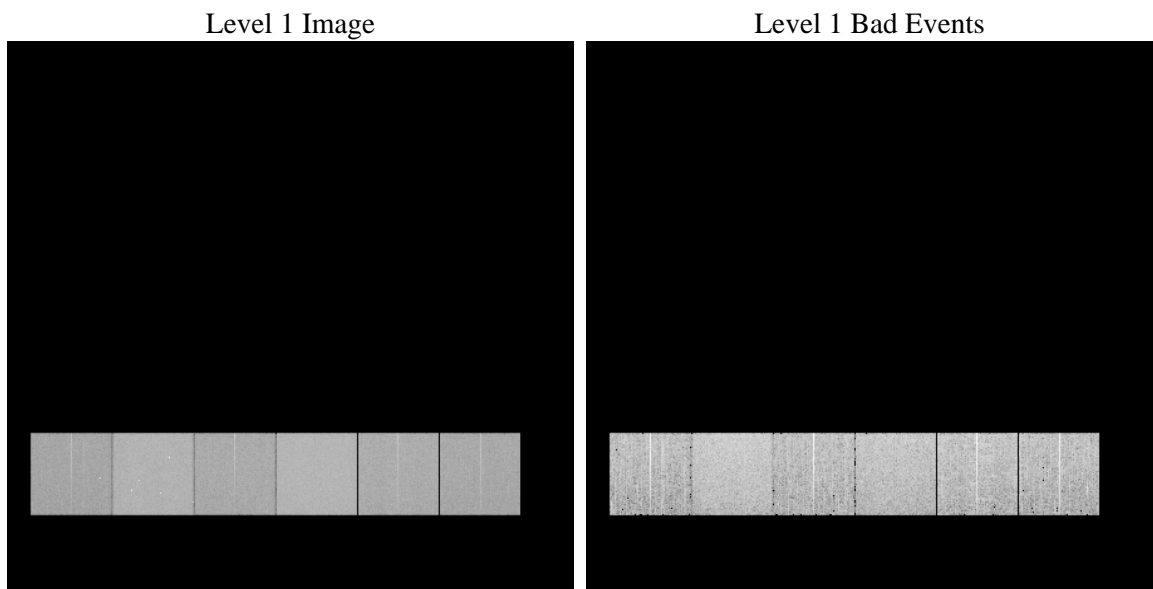
# 1 Front

seq_num	&#160	Sequence number
obs_id	60146	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	356.9710618616	Nominal RA [deg]
dec_nom	8.0160980626904	Nominal Dec [deg]
roll_nom	116.09266254593	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7798.3999709487	Sum of GTIs [s]
livetime	7699.6519348838	Livetime [s]
ontime4	4926.9013802409	Sum of GTIs [s]
ontime5	7798.3999709487	Sum of GTIs [s]
ontime6	5432.4931699336	Sum of GTIs [s]
ontime7	7798.3999709487	Sum of GTIs [s]
ontime8	5678.8069603443	Sum of GTIs [s]
ontime9	5276.926576674	Sum of GTIs [s]
l2events	1070911	Number of level 2 events

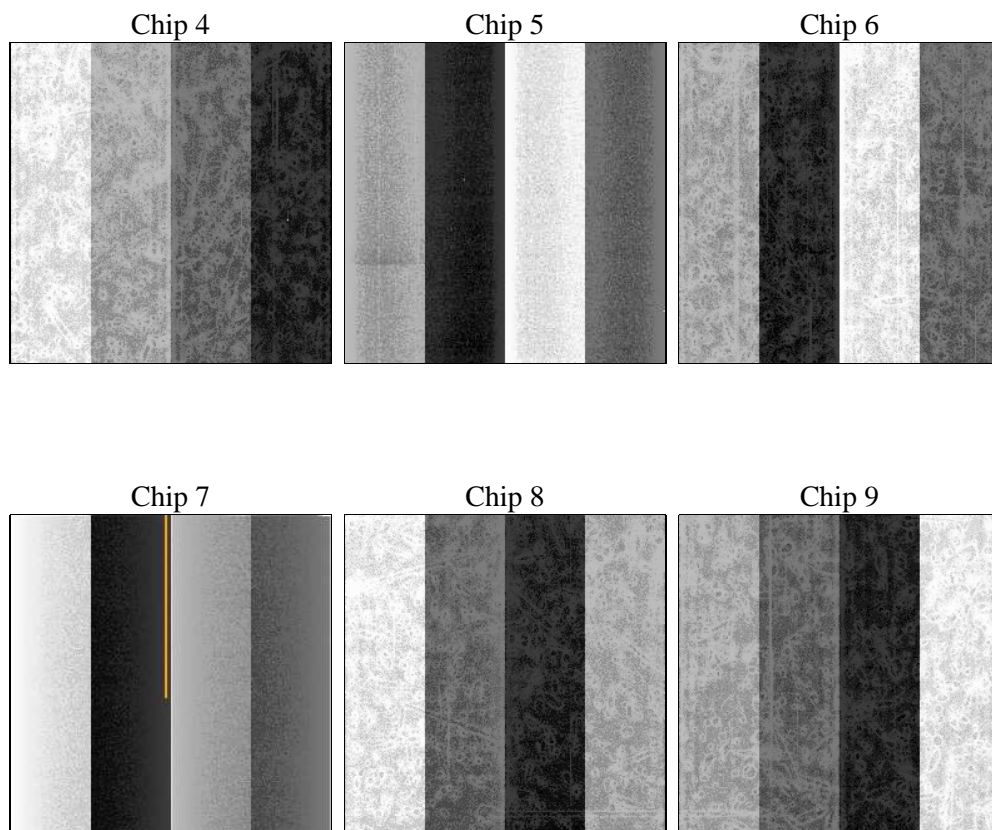
## 2 OBI

### 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	7798.3999709487	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime4	4926.9013802409	Sum of GTIs [s]
date	2012-12-03T21:31:20	Date and time of file creation	ontime5	7798.3999709487	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	5432.4931699336	Sum of GTIs [s]
			ontime7	7798.3999709487	Sum of GTIs [s]
			ontime8	5678.8069603443	Sum of GTIs [s]
			ontime9	5276.926576674	Sum of GTIs [s]
			l1events	1414181	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	183615	285885	212148	304335	228919	199279	grade 0 events	82237	53959	91746	62554	98225	86104
rejected events	41879	55286	43460	48187	48632	42987		44%	18%	43%	20%	42%	43%
rejected %	22%	19%	20%	15%	21%	21%	grade 1 events	690	224	518	187	492	526
								0%	0%	0%	0%	0%	0%
							grade 2 events	22687	80162	29360	56619	31494	26774
								12%	28%	13%	18%	13%	13%
							grade 3 events	9437	14518	10524	25762	11898	10112
								5%	5%	4%	8%	5%	5%
							grade 4 events	9438	14030	10652	25567	11717	10059
								5%	4%	5%	8%	5%	5%
							grade 5 events	2371	8986	2852	8761	3316	2833
								1%	3%	1%	2%	1%	1%
							grade 6 events	18033	68034	26509	85756	27041	23337
								9%	23%	12%	28%	11%	11%
							grade 7 events	38722	45972	39987	39129	44736	39534
								21%	16%	18%	12%	19%	19%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	356.9710618616032
[deg] Pointing Dec	0	8.016098062690361
[deg] Pointing Roll	0.0	116.0926625459338
[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)	205610150.902298	205610149.87729
Observation start date	2004-07-07T17:55:51	2004-07-07T17:55:49
[s] Observation end time (MET)	205648196.853986	205648195.82897
Observation end date	2004-07-08T04:29:57	2004-07-08T04:29:55
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.12.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.7983999709487

### A.2 Comments