

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 61116 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Oct 11 2012

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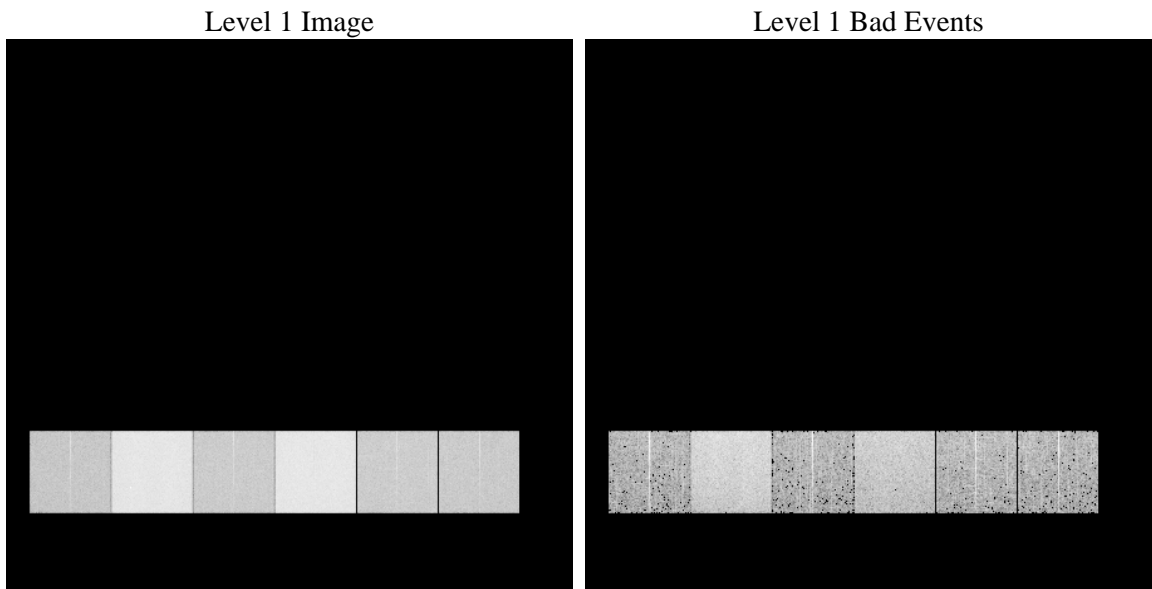
# 1 Front

seq_num	&#160	Sequence number
obs_id	61116	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	0.97704840838259	Nominal RA [deg]
dec_nom	-7.9826411039778	Nominal Dec [deg]
roll_nom	109.82506504533	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7909.9182623327	Sum of GTIs [s]
livetime	7809.7581145141	Livetime [s]
ontime4	2701.9603993893	Sum of GTIs [s]
ontime5	8454.3999685049	Sum of GTIs [s]
ontime6	2974.1663000882	Sum of GTIs [s]
ontime7	7909.9182623327	Sum of GTIs [s]
ontime8	3022.5143263042	Sum of GTIs [s]
ontime9	2928.5247842669	Sum of GTIs [s]
l2events	1294544	Number of level 2 events

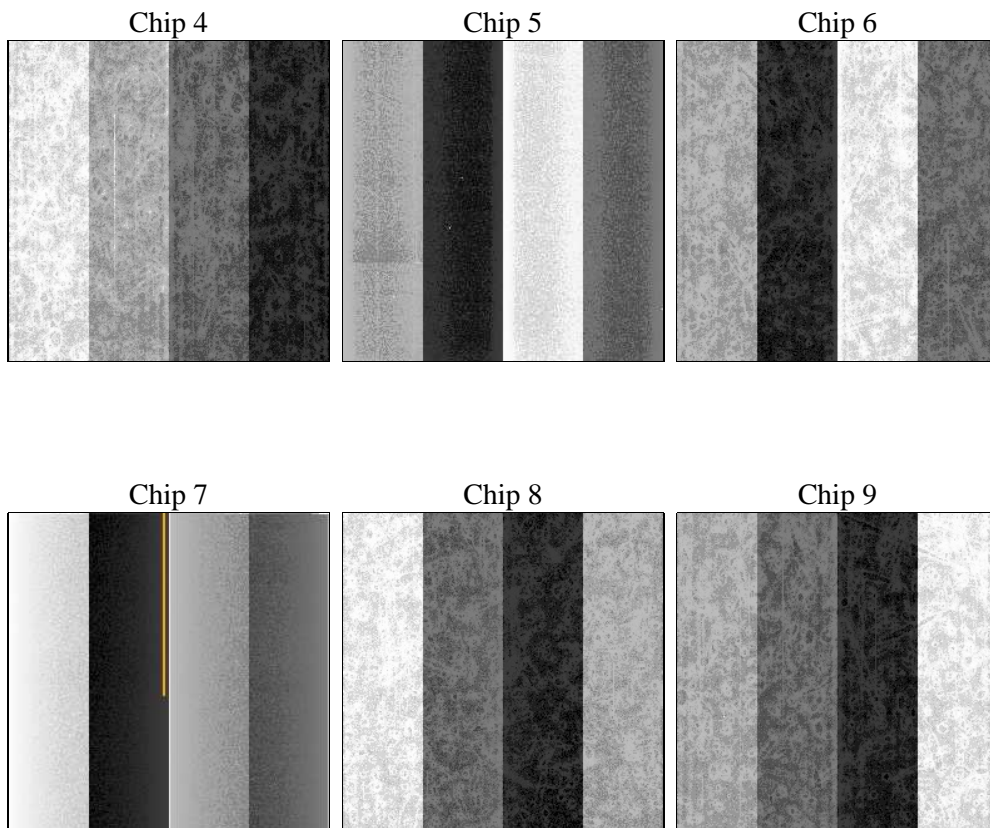
## 2 OBI

### 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	7909.9182623327	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime4	2701.9603993893	Sum of GTIs [s]
date	2012-10-12T00:16:23	Date and time of file creation	ontime5	8454.3999685049	Sum of GTIs [s]
			ontime6	2974.1663000882	Sum of GTIs [s]
revision	3	Processing version of data	ontime7	7909.9182623327	Sum of GTIs [s]
			ontime8	3022.5143263042	Sum of GTIs [s]
			ontime9	2928.5247842669	Sum of GTIs [s]
			l1events	1558888	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	150389	435808	175221	447949	182794	166727	grade 0 events	69948	73521	82074	100076	85145	78102
rejected events	24353	65326	24275	45340	27455	24311		46%	16%	46%	22%	46%	46%
rejected %	16%	14%	13%	10%	15%	14%	grade 1 events	380	253	422	269	435	442
								0%	0%	0%	0%	0%	0%
							grade 2 events	23634	146516	26152	88696	27471	25292
								15%	33%	14%	19%	15%	15%
							grade 3 events	7451	19827	9259	40345	9901	8695
								4%	4%	5%	9%	5%	5%
							grade 4 events	7521	19506	9283	39631	9709	8664
								5%	4%	5%	8%	5%	5%
							grade 5 events	1499	11055	1748	8943	1870	1727
								0%	2%	0%	1%	1%	1%
							grade 6 events	17482	111112	24178	133861	23113	21663
								11%	25%	13%	29%	12%	12%
							grade 7 events	22474	54018	22105	36128	25150	22142
								14%	12%	12%	8%	13%	13%

## 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	0.9770484083825863	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-7.982641103977841	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	109.8250650453253			
[mm] SIM focus pos	-0.684267	-0.7809083437167272			
[mm] SIM defocus	0	0.7524282956875696			
[mm] SIM translation stage pos	-190.132523	250.4635187648994			
[mm] SIM translation stage offset	0	-0.007540371344731511			
[s] Observation start time (MET)	143279260.692	143279259.66686			
Observation start date	2002-07-17T07:47:41	2002-07-17T07:47:39			
[s] Observation end time (MET)	143296607.792	143296606.76757			
Observation end date	2002-07-17T12:36:48	2002-07-17T12:36:46			
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)	2012.10.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.9099182623327

## A.2 Comments