

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60738 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Oct 28 2012

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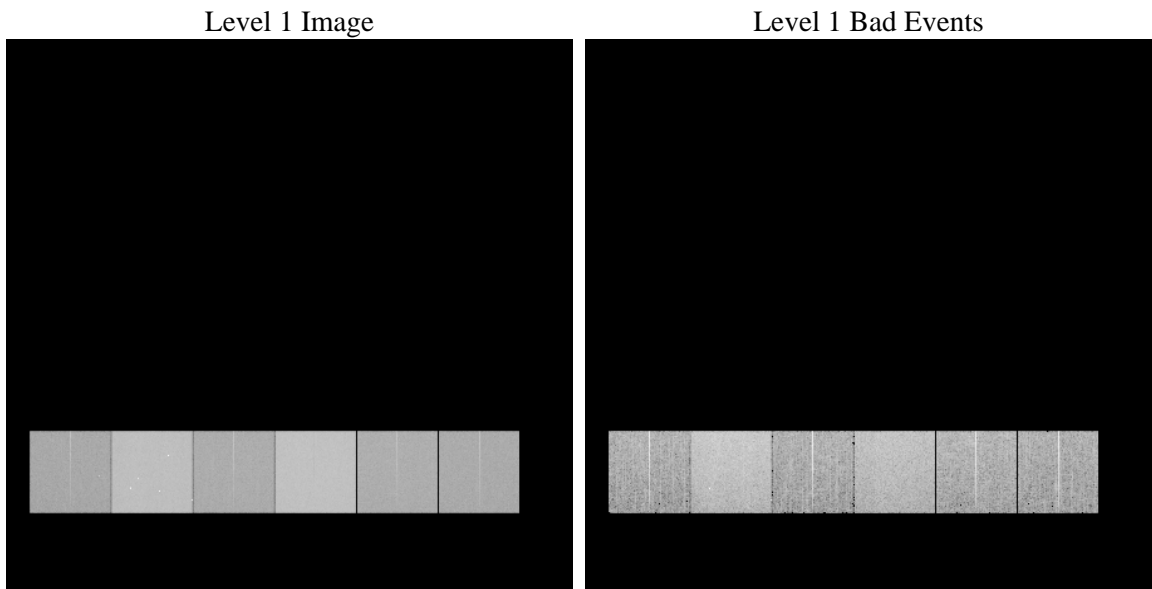
# 1 Front

seq_num	&#160	Sequence number
obs_id	60738	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	276.01429727015	Nominal RA [deg]
dec_nom	-72.971690444178	Nominal Dec [deg]
roll_nom	48.691288520021	Nominal Roll [deg]
revision	3	Processing version of data
ontime	14991.333716571	Sum of GTIs [s]
livetime	14801.504422355	Livetime [s]
ontime4	6478.8256491423	Sum of GTIs [s]
ontime5	14991.292676568	Sum of GTIs [s]
ontime6	7110.8240554035	Sum of GTIs [s]
ontime7	14991.333716571	Sum of GTIs [s]
ontime8	7334.4534144402	Sum of GTIs [s]
ontime9	6940.7759016156	Sum of GTIs [s]
l2events	2226993	Number of level 2 events

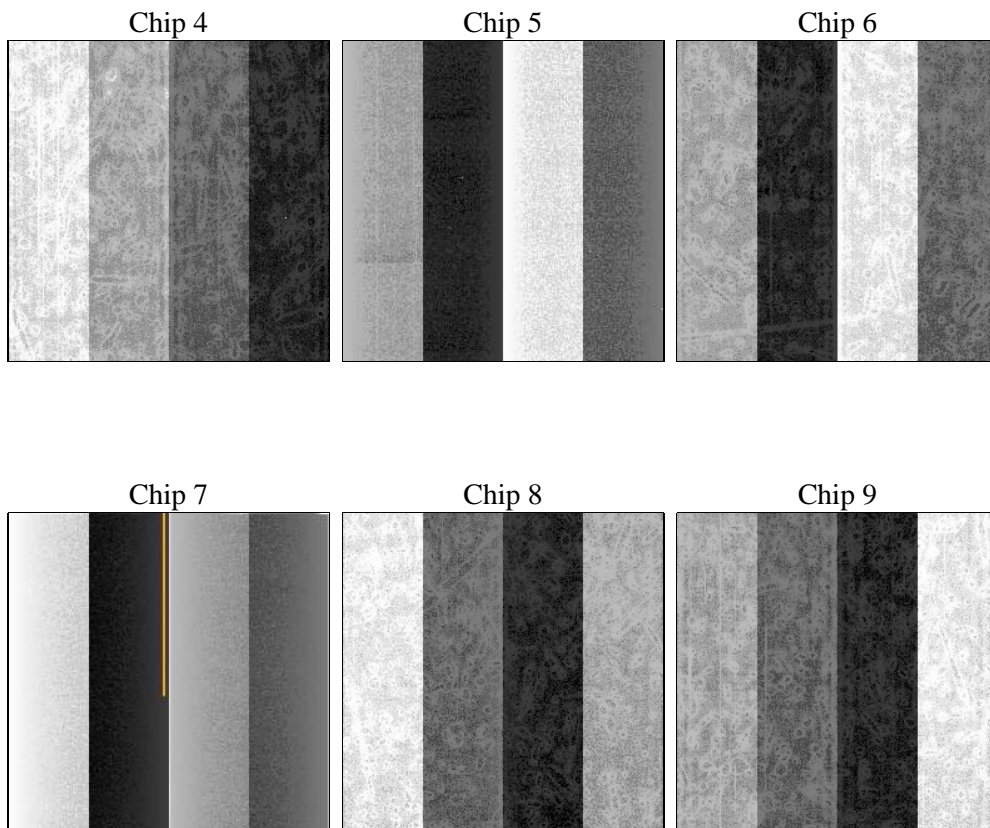
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number			
ascdsver	8.4.5	Processing system revision	sched_exp_time	0.0	[s] Scheduled observation exposure time
caldbver	4.5.2	&#160	ontime	14991.333716571	Sum of GTIs [s]
date	2012-10-28T10:08:21	Date and time of file creation	ontime4	6478.8256491423	Sum of GTIs [s]
			ontime5	14991.292676568	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	7110.8240554035	Sum of GTIs [s]
			ontime7	14991.333716571	Sum of GTIs [s]
			ontime8	7334.4534144402	Sum of GTIs [s]
			ontime9	6940.7759016156	Sum of GTIs [s]
			l1events	2708354	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	300980	654934	346206	713649	365198	327387	grade 0 events	146310	136140	161412	160560	170471	153614
rejected events	48681	95515	48975	78812	54545	48075		48%	20%	46%	22%	46%	46%
rejected %	16%	14%	14%	11%	14%	14%	grade 1 events	1069	525	812	470	845	923
								0%	0%	0%	0%	0%	0%
							grade 2 events	40148	195667	51013	141133	54014	47842
								13%	29%	14%	19%	14%	14%
							grade 3 events	16937	36363	18705	64103	19886	17922
								5%	5%	5%	8%	5%	5%
							grade 4 events	16718	35707	18318	63685	19951	17944
								5%	5%	5%	8%	5%	5%
							grade 5 events	3103	16588	3390	15238	4098	3594
								1%	2%	0%	2%	1%	1%
							grade 6 events	32186	155542	47783	205356	46331	41990
								10%	23%	13%	28%	12%	12%
							grade 7 events	44509	78402	44773	63104	49602	43558
								14%	11%	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	276.0142972701462	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-72.9716904441778	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	48.6912885200207			
[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)	169496685.135678	169496684.11097			
Observation start date	2003-05-16T18:24:45	2003-05-16T18:24:44			
[s] Observation end time (MET)	169517166.686545	169517165.66183			
Observation end date	2003-05-17T00:06:07	2003-05-17T00:06:05			
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)	2012.12.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.991333716571

### **A.2 Comments**