

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 61313 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Oct 2 2012

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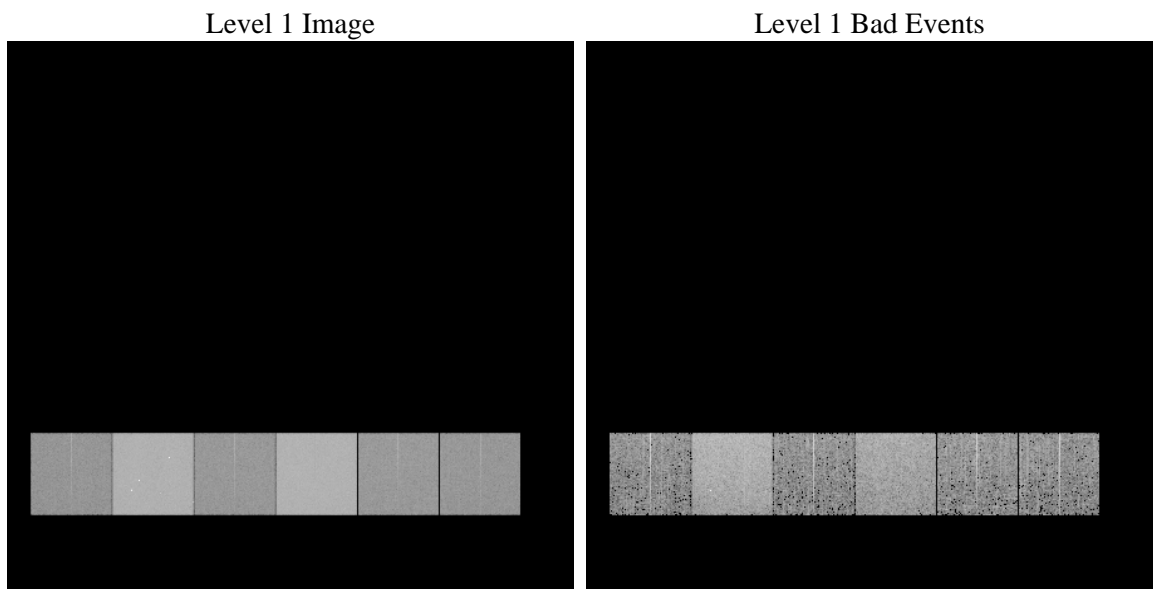
# 1 Front

seq_num	&#160	Sequence number
obs_id	61313	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	4.7447044111392	Nominal RA [deg]
dec_nom	36.054520059991	Nominal Dec [deg]
roll_nom	316.15500343166	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7022.5012736171	Sum of GTIs [s]
livetime	6933.578134048	Livetime [s]
ontime4	2611.3958971947	Sum of GTIs [s]
ontime5	7531.2899064869	Sum of GTIs [s]
ontime6	2741.078407228	Sum of GTIs [s]
ontime7	7022.5012736171	Sum of GTIs [s]
ontime8	2812.298878029	Sum of GTIs [s]
ontime9	2696.5424720049	Sum of GTIs [s]
l2events	1300265	Number of level 2 events

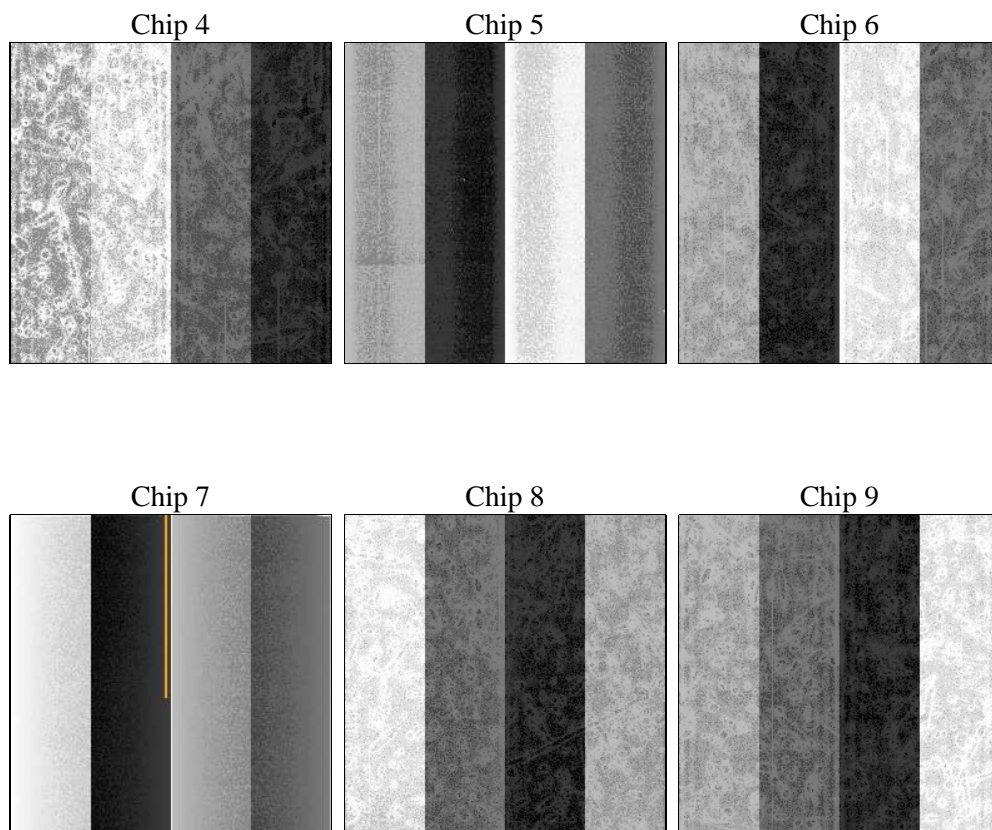
## 2 OBI

### 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	7022.5012736171	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime4	2611.3958971947	Sum of GTIs [s]
date	2012-10-02T15:02:14	Date and time of file creation	ontime5	7531.2899064869	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	2741.078407228	Sum of GTIs [s]
			ontime7	7022.5012736171	Sum of GTIs [s]
			ontime8	2812.298878029	Sum of GTIs [s]
			ontime9	2696.5424720049	Sum of GTIs [s]
			l1events	1542440	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	157447	425659	175370	432943	183789	167232	grade 0 events	76800	88868	84015	98984	87337	79568
rejected events	21744	54786	21571	39542	24278	21794		48%	20%	47%	22%	47%	47%
rejected %	13%	12%	12%	9%	13%	13%	grade 1 events	430	297	445	290	470	435
								0%	0%	0%	0%	0%	0%
							grade 2 events	23969	133211	26483	86426	28239	25776
								15%	31%	15%	19%	15%	15%
							grade 3 events	8270	23259	9479	39737	9956	9070
								5%	5%	5%	9%	5%	5%
							grade 4 events	8378	22896	9494	39577	10209	9053
								5%	5%	5%	9%	5%	5%
							grade 5 events	1349	10040	1583	7928	1792	1559
								0%	2%	0%	1%	0%	0%
							grade 6 events	18286	102639	24328	128677	23770	21971
								11%	24%	13%	29%	12%	13%
							grade 7 events	19965	44449	19543	31324	22016	19800
								12%	10%	11%	7%	11%	11%

## 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	4.744704411139201	Alternating exposures requested	N	N
[deg] Pointing Dec	0	36.05452005999064	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	316.1550034316605			
[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)	129800329.487	129800328.71808			
Observation start date	2002-02-11T07:38:49	2002-02-11T07:38:48			
[s] Observation end time (MET)	129811594.237	129811593.46853			
Observation end date	2002-02-11T10:46:34	2002-02-11T10:46:33			
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)	2012.10.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.0225012736171

### A.2 Comments