

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60596 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Nov 3 2012

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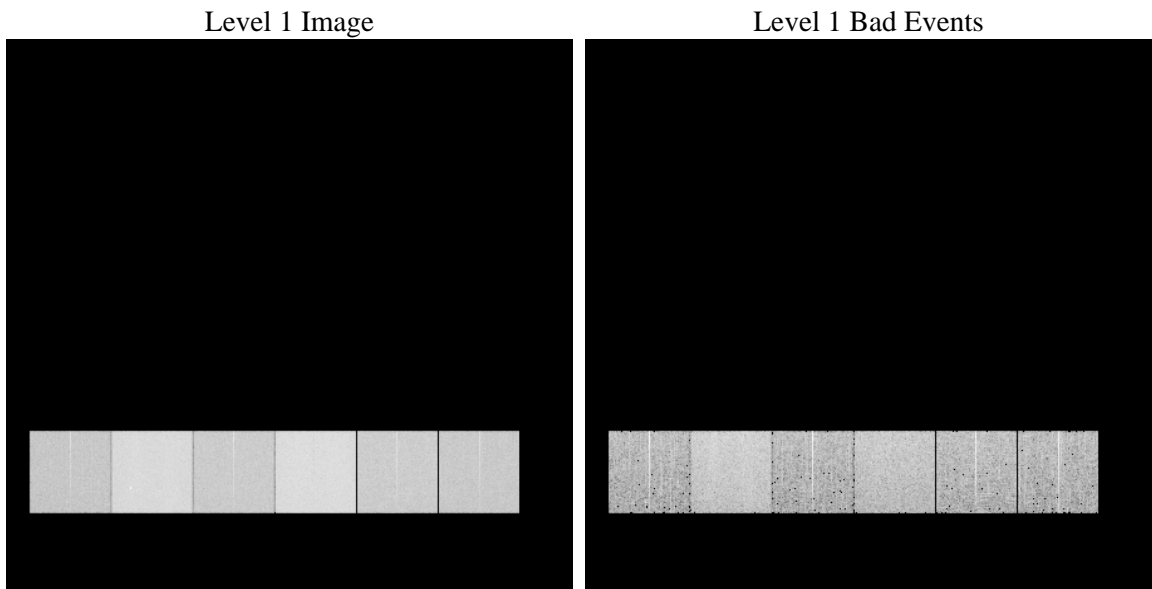
# 1 Front

seq_num	&#160	Sequence number
obs_id	60596	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycycle	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	150.07636350295	Nominal RA [deg]
dec_nom	69.008422306819	Nominal Dec [deg]
roll_nom	344.2081378219	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8363.9479238689	Sum of GTIs [s]
livetime	8258.0385790921	Livetime [s]
ontime4	4171.2015383244	Sum of GTIs [s]
ontime5	8363.9068838656	Sum of GTIs [s]
ontime6	4643.2384827137	Sum of GTIs [s]
ontime7	8363.9479238689	Sum of GTIs [s]
ontime8	4744.8586304784	Sum of GTIs [s]
ontime9	4416.491613239	Sum of GTIs [s]
l2events	1227811	Number of level 2 events

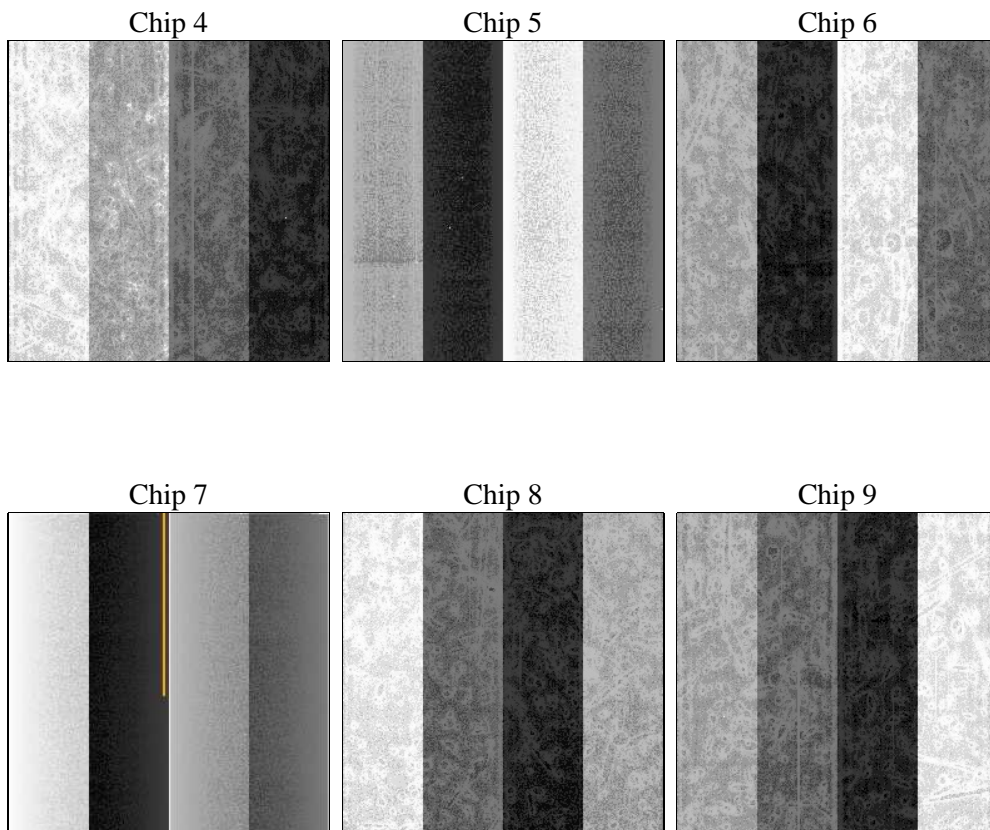
## 2 OBI

### 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	8363.9479238689	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime4	4171.2015383244	Sum of GTIs [s]
date	2012-11-03T13:32:57	Date and time of file creation	ontime5	8363.9068838656	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	4643.2384827137	Sum of GTIs [s]
			ontime7	8363.9479238689	Sum of GTIs [s]
			ontime8	4744.8586304784	Sum of GTIs [s]
			ontime9	4416.491613239	Sum of GTIs [s]
			l1events	1536593	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	182140	345496	213141	375855	222864	197097	grade 0 events	88522	55771	99185	81079	103482	92220
rejected events	33674	60912	33856	48192	37287	33828		48%	16%	46%	21%	46%	46%
rejected %	18%	17%	15%	12%	16%	17%	grade 1 events	664	201	445	200	507	501
								0%	0%	0%	0%	0%	0%
							grade 2 events	22507	114230	31145	73267	32271	27501
								12%	33%	14%	19%	14%	13%
							grade 3 events	10039	15251	11118	32269	12004	10401
								5%	4%	5%	8%	5%	5%
							grade 4 events	10155	14772	11081	32754	11802	10449
								5%	4%	5%	8%	5%	5%
							grade 5 events	1949	9121	2157	8383	2695	2248
								1%	2%	1%	2%	1%	1%
							grade 6 events	19130	87936	28870	111855	27761	24601
								10%	25%	13%	29%	12%	12%
							grade 7 events	29174	48214	29140	36048	32342	29176
								16%	13%	13%	9%	14%	14%

## 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	150.0763635029456	Alternating exposures requested	N	N
[deg] Pointing Dec	0	69.00842230681866	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	344.2081378219019			
[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)	176630580.889051	176630579.86435			
Observation start date	2003-08-07T08:03:01	2003-08-07T08:02:59			
[s] Observation end time (MET)	176653477.340027	176653476.31533			
Observation end date	2003-08-07T14:24:37	2003-08-07T14:24:36			
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	8.3639479238689

## A.2 Comments