

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 54431 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Aug 15 2012

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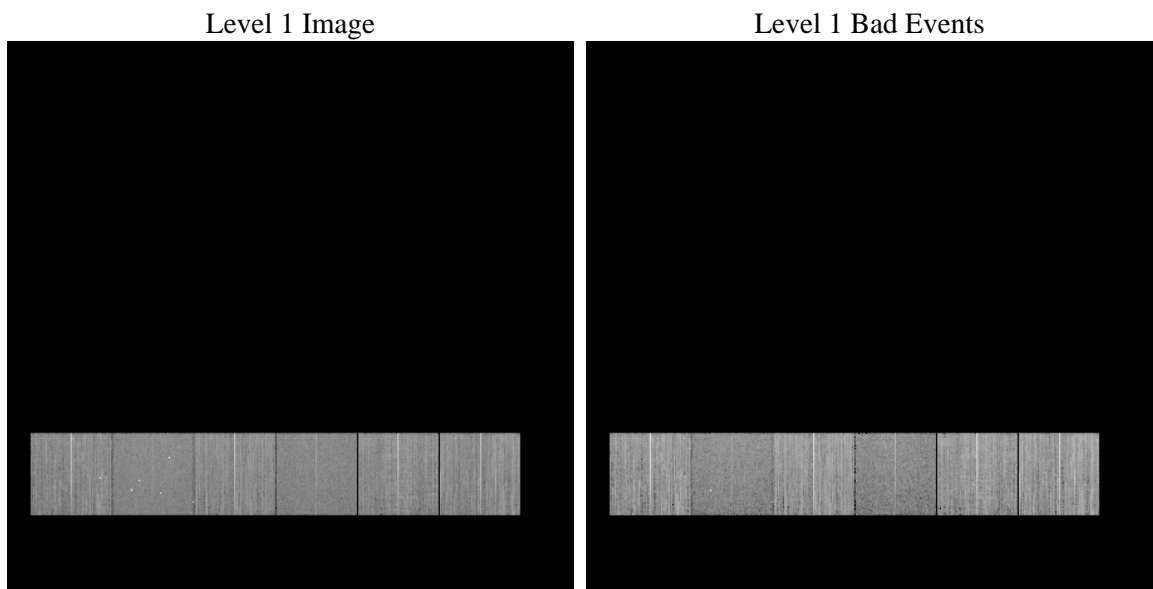
# 1 Front

seq_num	&#160	Sequence number
obs_id	54431	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	287.02815229131	Nominal RA [deg]
dec_nom	-32.016000300097	Nominal Dec [deg]
roll_nom	293.22665084455	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8283.7245902419	Sum of GTIs [s]
livetime	8178.8310816201	Livetime [s]
ontime4	8283.601470232	Sum of GTIs [s]
ontime5	8283.6835502386	Sum of GTIs [s]
ontime6	8280.4014599323	Sum of GTIs [s]
ontime7	8283.7245902419	Sum of GTIs [s]
ontime8	8283.5604302287	Sum of GTIs [s]
ontime9	8283.7656302452	Sum of GTIs [s]
l2events	277886	Number of level 2 events

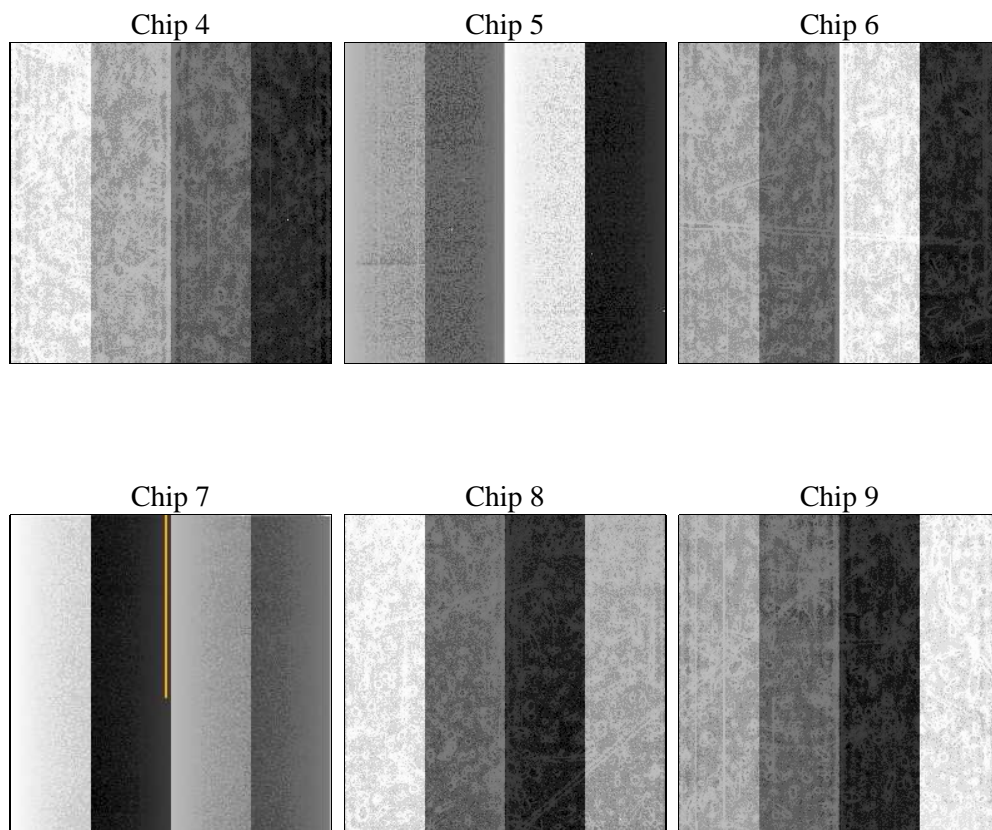
## 2 OBI

### 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	8283.7245902419	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime4	8283.601470232	Sum of GTIs [s]
date	2012-08-15T13:46:06	Date and time of file creation	ontime5	8283.6835502386	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8280.4014599323	Sum of GTIs [s]
			ontime7	8283.7245902419	Sum of GTIs [s]
			ontime8	8283.5604302287	Sum of GTIs [s]
			ontime9	8283.7656302452	Sum of GTIs [s]
			l1events	966791	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	161095	147281	171413	134010	173815	179177	grade 0 events	23641	12244	20387	10185	23184	20685
rejected events	119417	74172	130429	68638	124085	139110		14%	8%	11%	7%	13%	11%
rejected %	74%	50%	76%	51%	71%	77%	grade 1 events	189	241	105	90	109	101
								0%	0%	0%	0%	0%	0%
							grade 2 events	7299	26585	8463	16019	10139	7605
								4%	18%	4%	11%	5%	4%
							grade 3 events	2680	2420	2621	5320	3509	2643
								1%	1%	1%	3%	2%	1%
							grade 4 events	2719	2329	2590	5467	3410	2552
								1%	1%	1%	4%	1%	1%
							grade 5 events	3138	6134	3155	7608	4230	3554
								1%	4%	1%	5%	2%	1%
							grade 6 events	5339	29531	6923	28381	9488	6582
								3%	20%	4%	21%	5%	3%
							grade 7 events	116090	67797	127169	60940	119746	135455
								72%	46%	74%	45%	68%	75%

## 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	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	287.0281522913101	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-32.01600030009664	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	293.2266508445469	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.4635187648994			
[mm] SIM translation stage offset	0	-0.007540371344731511			
[s] Observation start time (MET)	460594042.092027	460594041.06703			
Observation start date	2012-08-05T22:47:22	2012-08-05T22:47:21			
[s] Observation end time (MET)	460603867.74255	460603866.71755			
Observation end date	2012-08-06T01:31:08	2012-08-06T01:31:06			
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)	2012.08.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2837245902419

### **A.2 Comments**