

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 54145 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Nov 23 2012

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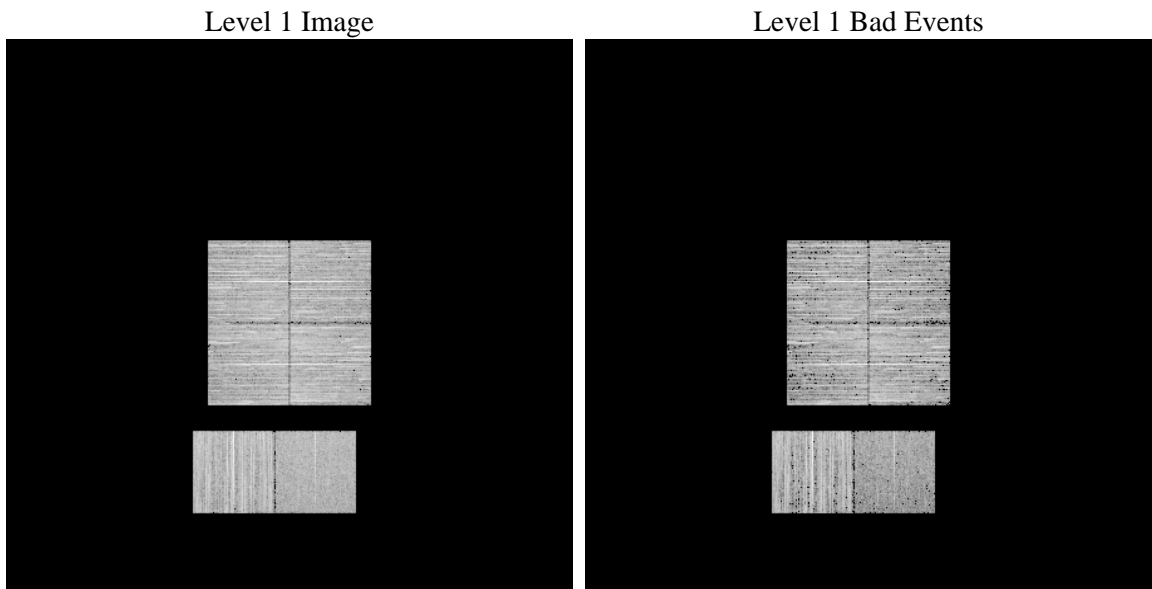
# 1 Front

seq_num	&#160	Sequence number
obs_id	54145	Observation id
title	ACIS-012367 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	67.916600446522	Nominal RA [deg]
dec_nom	-2.3765100438383	Nominal Dec [deg]
roll_nom	21.768645036298	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3583.9896790981	Sum of GTIs [s]
livetime	3538.6070437619	Livetime [s]
ontime0	3583.9486390948	Sum of GTIs [s]
ontime1	3583.9075990915	Sum of GTIs [s]
ontime2	3583.8665590882	Sum of GTIs [s]
ontime3	3583.9999867082	Sum of GTIs [s]
ontime6	3583.8255190849	Sum of GTIs [s]
ontime7	3583.9896790981	Sum of GTIs [s]
l2events	98623	Number of level 2 events

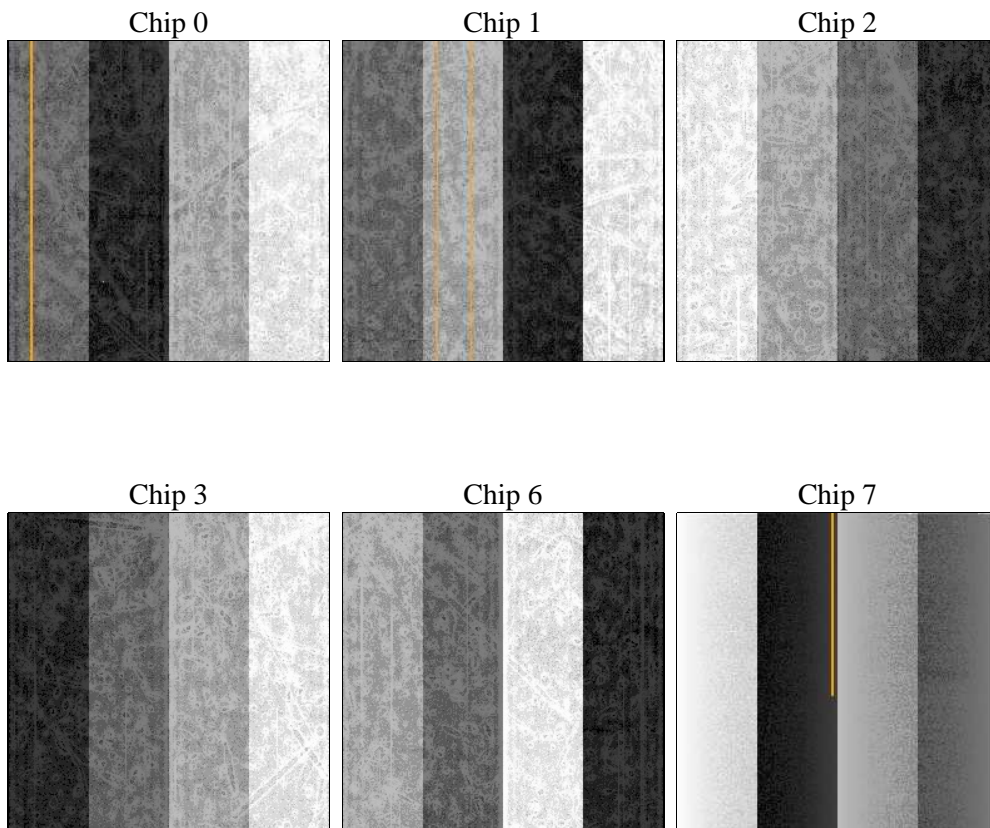
## 2 OBI

### 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	3583.9896790981	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime0	3583.9486390948	Sum of GTIs [s]
date	2012-11-23T05:33:08	Date and time of file creation	ontime1	3583.9075990915	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	3583.8665590882	Sum of GTIs [s]
			ontime3	3583.9999867082	Sum of GTIs [s]
			ontime6	3583.8255190849	Sum of GTIs [s]
			ontime7	3583.9896790981	Sum of GTIs [s]
			l1events	418591	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	73415	65912	68938	75197	76956	58173	grade 0 events	7721	7254	8095	7948	7434	3753
rejected events	57997	50357	53340	59884	61064	31498		10%	11%	11%	10%	9%	6%
rejected %	78%	76%	77%	79%	79%	54%	grade 1 events	53	46	42	62	39	33
								0%	0%	0%	0%	0%	0%
							grade 2 events	3215	3693	3104	2966	3763	6859
								4%	5%	4%	3%	4%	11%
							grade 3 events	1070	959	1122	1016	939	2010
								1%	1%	1%	1%	1%	3%
							grade 4 events	991	999	1020	1040	944	1918
								1%	1%	1%	1%	1%	3%
							grade 5 events	1248	1250	1153	1380	1274	3195
								1%	1%	1%	1%	1%	5%
							grade 6 events	2421	2650	2257	2343	2812	12135
								3%	4%	3%	3%	3%	20%
							grade 7 events	56696	49061	52145	58442	59751	28270
								77%	74%	75%	77%	77%	48%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	67.91660044652178	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-2.376510043838283	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	21.76864503629845	[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	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	469991041.696035	469991040.67103			
Observation start date	2012-11-22T17:04:02	2012-11-22T17:04:00			
[s] Observation end time (MET)	469998335.596427	469998334.57143			
Observation end date	2012-11-22T19:05:36	2012-11-22T19:05:34			
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)	2012.11.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5839896790981

### A.2 Comments