

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 54014 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jan 17 2013

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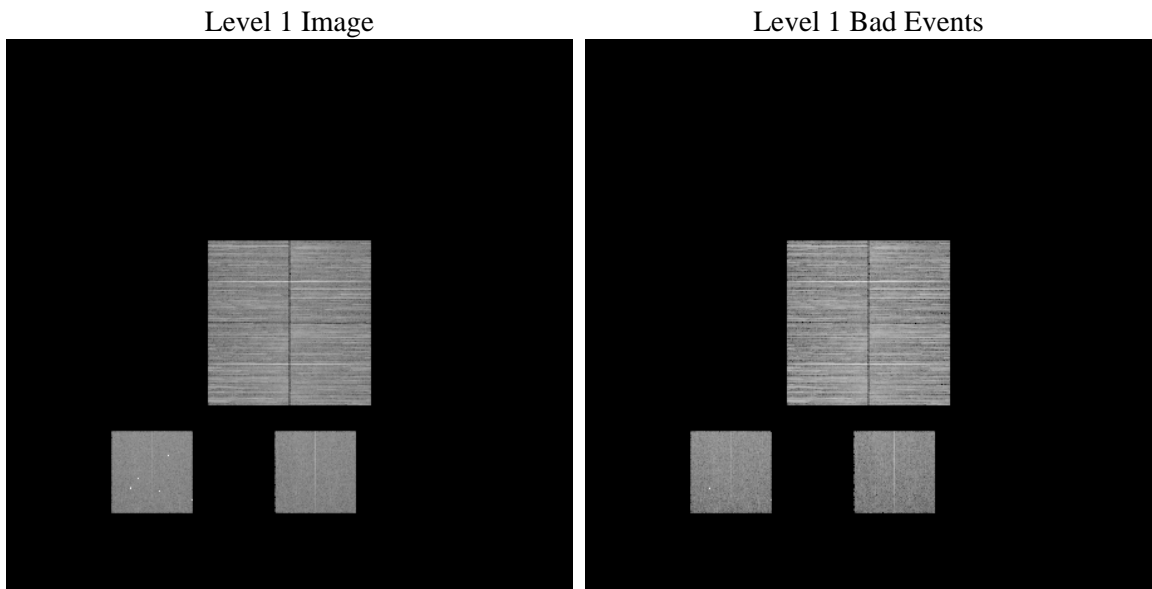
# 1 Front

seq_num	&#160	Sequence number
obs_id	54014	Observation id
title	ACIS-012357 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	149.97049985313	Nominal RA [deg]
dec_nom	37.016407783045	Nominal Dec [deg]
roll_nom	112.26862302407	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8286.6029523015	Sum of GTIs [s]
livetime	8181.6729961262	Livetime [s]
ontime0	8286.5619122982	Sum of GTIs [s]
ontime1	8286.5208722949	Sum of GTIs [s]
ontime2	8286.4798322916	Sum of GTIs [s]
ontime3	8286.6439923048	Sum of GTIs [s]
ontime5	8286.4387922883	Sum of GTIs [s]
ontime7	8286.6029523015	Sum of GTIs [s]
l2events	256757	Number of level 2 events

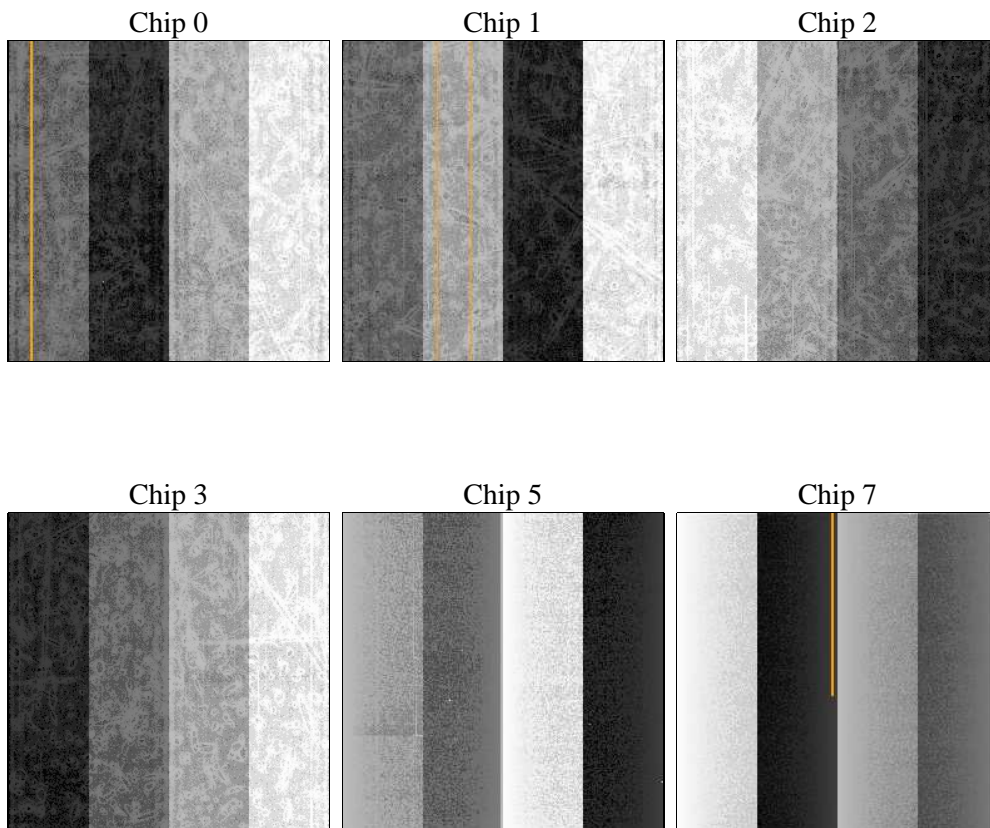
## 2 OBI

### 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	8.5.1.1	Processing system revision	ontime	8286.6029523015	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime0	8286.5619122982	Sum of GTIs [s]
date	2013-01-17T19:56:01	Date and time of file creation	ontime1	8286.5208722949	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8286.4798322916	Sum of GTIs [s]
			ontime3	8286.6439923048	Sum of GTIs [s]
			ontime5	8286.4387922883	Sum of GTIs [s]
			ontime7	8286.6029523015	Sum of GTIs [s]
			l1events	956448	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	157603	161222	177973	174397	150036	135217	grade 0 events	17765	17370	18575	18262	12727	9433
rejected events	122672	125851	142538	139362	77101	71556		11%	10%	10%	10%	8%	6%
rejected %	77%	78%	80%	79%	51%	52%	grade 1 events	105	105	106	102	258	94
								0%	0%	0%	0%	0%	0%
							grade 2 events	7034	7506	6887	6649	25370	15616
								4%	4%	3%	3%	16%	11%
							grade 3 events	2416	2316	2371	2483	2477	5305
								1%	1%	1%	1%	1%	3%
							grade 4 events	2267	2316	2400	2475	2449	5317
								1%	1%	1%	1%	1%	3%
							grade 5 events	3021	3136	2885	3355	6698	8154
								1%	1%	1%	1%	4%	6%
							grade 6 events	5449	5863	5202	5166	29912	27990
								3%	3%	2%	2%	19%	20%
							grade 7 events	119546	122610	139547	135905	70145	63308
								75%	76%	78%	77%	46%	46%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012357	ACIS-012357	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	149.9704998531272	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	37.01640778304517	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	112.2686230240695	[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)	474760161.952844	474760160.92784			
Observation start date	2013-01-16T21:49:22	2013-01-16T21:49:20			
[s] Observation end time (MET)	474781684.904005	474781683.879			
Observation end date	2013-01-17T03:48:05	2013-01-17T03:48:03			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.01.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2866029523015

### A.2 Comments