

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 54072 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Dec 24 2012

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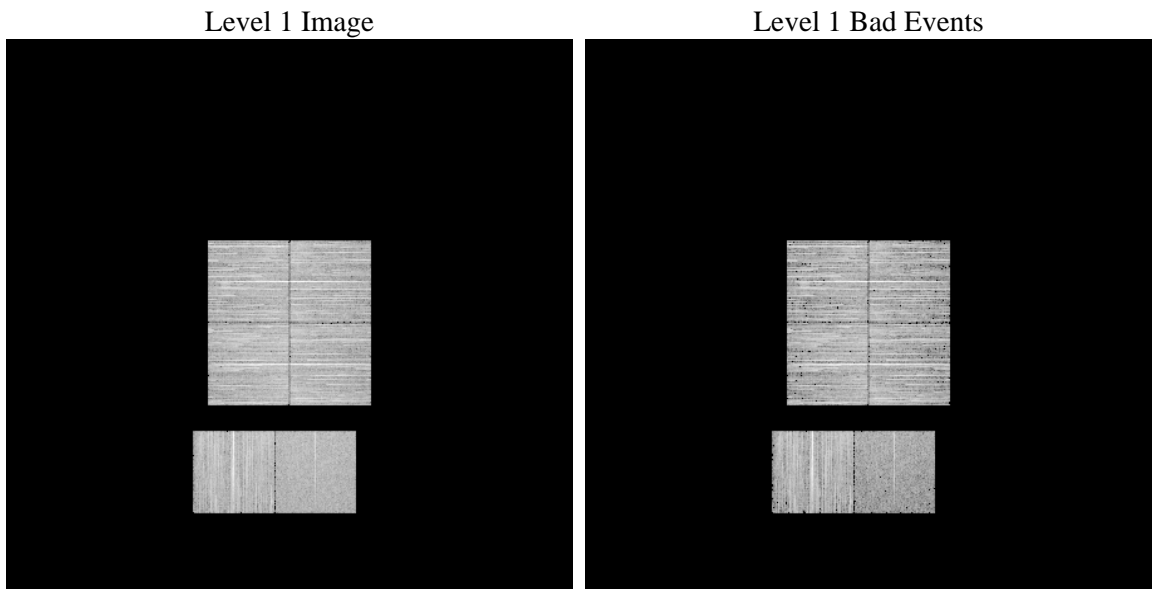
# 1 Front

seq_num	&#160	Sequence number
obs_id	54072	Observation id
title	ACIS-012367 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	83.03323896779	Nominal RA [deg]
dec_nom	0.015372996737493	Nominal Dec [deg]
roll_nom	337.88085941598	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4633.5999827981	Sum of GTIs [s]
livetime	4574.926549797	Livetime [s]
ontime0	4633.5999827981	Sum of GTIs [s]
ontime1	4633.5999827981	Sum of GTIs [s]
ontime2	4633.5999827981	Sum of GTIs [s]
ontime3	4633.5999827981	Sum of GTIs [s]
ontime6	4633.5999827981	Sum of GTIs [s]
ontime7	4633.5999827981	Sum of GTIs [s]
l2events	127149	Number of level 2 events

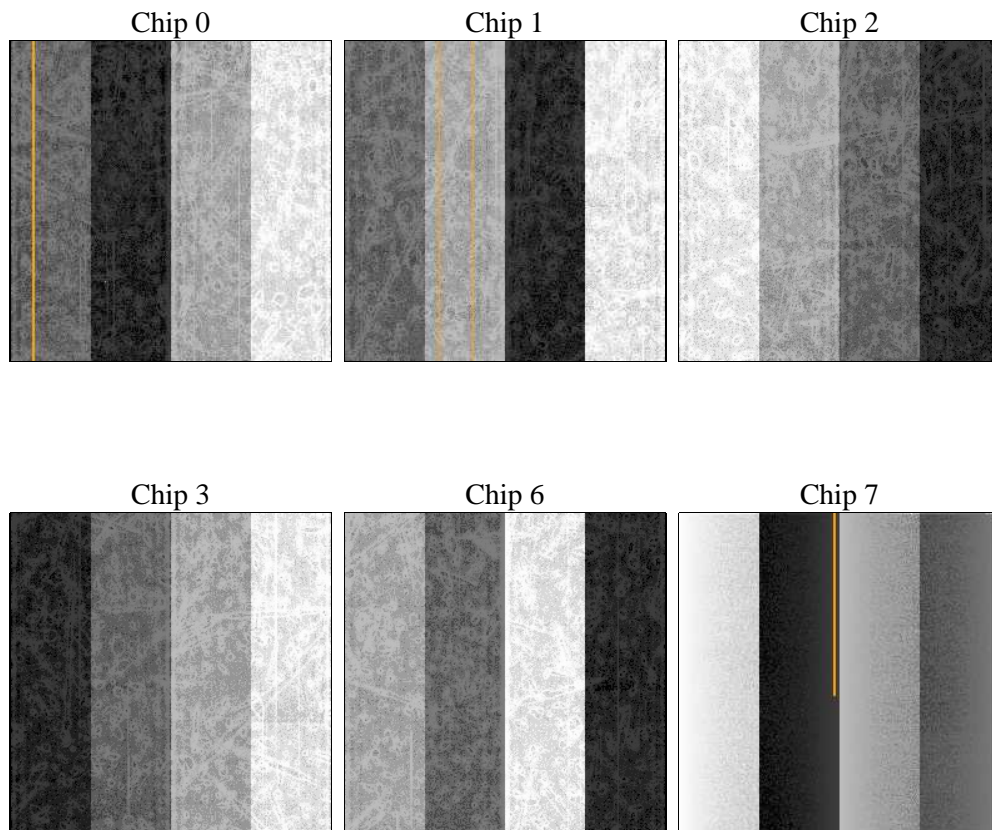
## 2 OBI

### 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	4633.5999827981	Sum of GTIs [s]
caldbver	4.5.5	&#160	ontime0	4633.5999827981	Sum of GTIs [s]
date	2012-12-25T04:10:32	Date and time of file creation	ontime1	4633.5999827981	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	4633.5999827981	Sum of GTIs [s]
			ontime3	4633.5999827981	Sum of GTIs [s]
			ontime6	4633.5999827981	Sum of GTIs [s]
			ontime7	4633.5999827981	Sum of GTIs [s]
			l1events	548024	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	95934	88249	99903	94131	94720	75087
rejected events	76372	68545	79764	74361	73981	40312
rejected %	79%	77%	79%	78%	78%	53%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	9872	9533	10581	10287	10073	4915
	10%	10%	10%	10%	10%	6%
grade 1 events	56	44	58	56	51	54
	0%	0%	0%	0%	0%	0%
grade 2 events	4049	4365	3914	3767	4499	8479
	4%	4%	3%	4%	4%	11%
grade 3 events	1284	1270	1334	1285	1280	2869
	1%	1%	1%	1%	1%	3%
grade 4 events	1269	1259	1318	1406	1245	2714
	1%	1%	1%	1%	1%	3%
grade 5 events	1710	1654	1653	1899	1724	4137
	1%	1%	1%	2%	1%	5%
grade 6 events	3088	3277	2992	3025	3642	15798
	3%	3%	2%	3%	3%	21%
grade 7 events	74606	66847	78053	72406	72206	36121
	77%	75%	78%	76%	76%	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	83.03323896778984	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	0.01537299673749328	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	337.8808594159836	[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)	472733982.843687	472733981.81869			
Observation start date	2012-12-24T10:59:43	2012-12-24T10:59:41			
[s] Observation end time (MET)	472742078.294123	472742077.26912			
Observation end date	2012-12-24T13:14:38	2012-12-24T13:14:37			
Read mode	TIMED	TIMED			

**2.3 Star Slots**

**2.4 FID Slots**

# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.12.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.6335999827981

## A.2 Comments