

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 54016 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jan 15 2013

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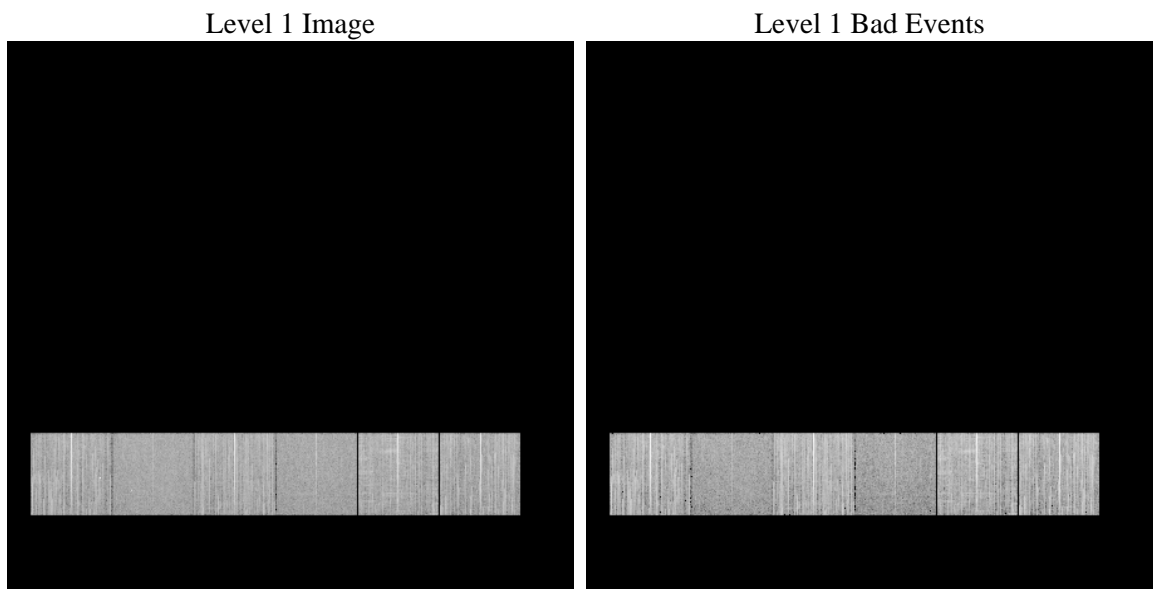
# 1 Front

seq_num	&#160	Sequence number
obs_id	54016	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	110.42333506333	Nominal RA [deg]
dec_nom	-6.3874247592172	Nominal Dec [deg]
roll_nom	345.07040296353	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5596.7999792099	Sum of GTIs [s]
livetime	5525.9299278848	Livetime [s]
ontime4	5596.7999792099	Sum of GTIs [s]
ontime5	5596.7999792099	Sum of GTIs [s]
ontime6	5596.7999792099	Sum of GTIs [s]
ontime7	5596.7999792099	Sum of GTIs [s]
ontime8	5596.7999792099	Sum of GTIs [s]
ontime9	5596.7999792099	Sum of GTIs [s]
l2events	171725	Number of level 2 events

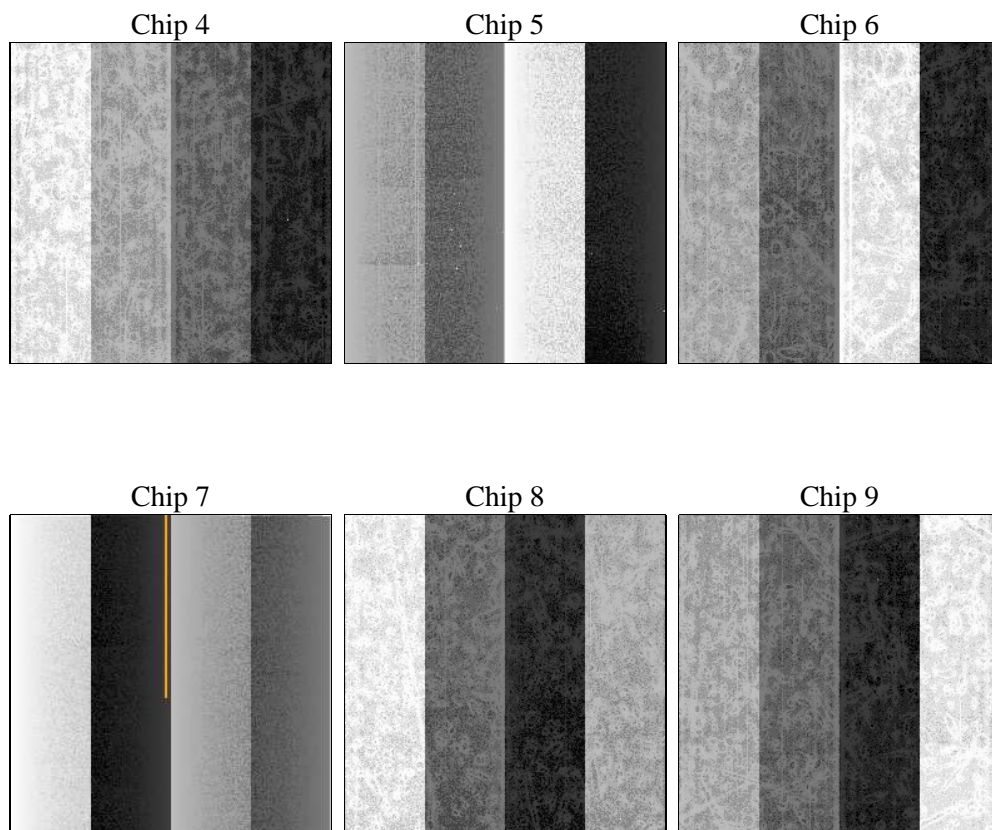
## 2 OBI

### 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	5596.7999792099	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime4	5596.7999792099	Sum of GTIs [s]
date	2013-01-15T05:43:34	Date and time of file creation	ontime5	5596.7999792099	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	5596.7999792099	Sum of GTIs [s]
			ontime7	5596.7999792099	Sum of GTIs [s]
			ontime8	5596.7999792099	Sum of GTIs [s]
			ontime9	5596.7999792099	Sum of GTIs [s]
			l1events	685453	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	122023	97593	126940	93006	125591	120300	grade 0 events	12965	3350	10056	5530	13450	11524
rejected events	98116	54296	102718	51099	94727	96317		10%	3%	7%	5%	10%	9%
rejected %	80%	55%	80%	54%	75%	80%	grade 1 events	112	119	48	64	58	68
								0%	0%	0%	0%	0%	0%
							grade 2 events	4619	16218	7039	10570	7134	5353
								3%	16%	5%	11%	5%	4%
							grade 3 events	1647	1322	1243	3220	2124	1477
								1%	1%	0%	3%	1%	1%
							grade 4 events	1631	1295	1298	3097	2118	1501
								1%	1%	1%	3%	1%	1%
							grade 5 events	2216	4106	1933	5052	2739	2339
								1%	4%	1%	5%	2%	1%
							grade 6 events	3063	21135	4599	19511	6055	4138
								2%	21%	3%	20%	4%	3%
							grade 7 events	95770	50048	100724	45962	91913	93900
								78%	51%	79%	49%	73%	78%

## 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	110.4233350633252	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-6.387424759217233	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	345.070402963532	[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)	474563240.992279	474563239.96728			
Observation start date	2013-01-14T15:07:21	2013-01-14T15:07:19			
[s] Observation end time (MET)	474570739.892684	474570738.86768			
Observation end date	2013-01-14T17:12:20	2013-01-14T17:12:18			
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)	2013.01.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.5967999792099

### A.2 Comments