

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 56829 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Jun 13 2012

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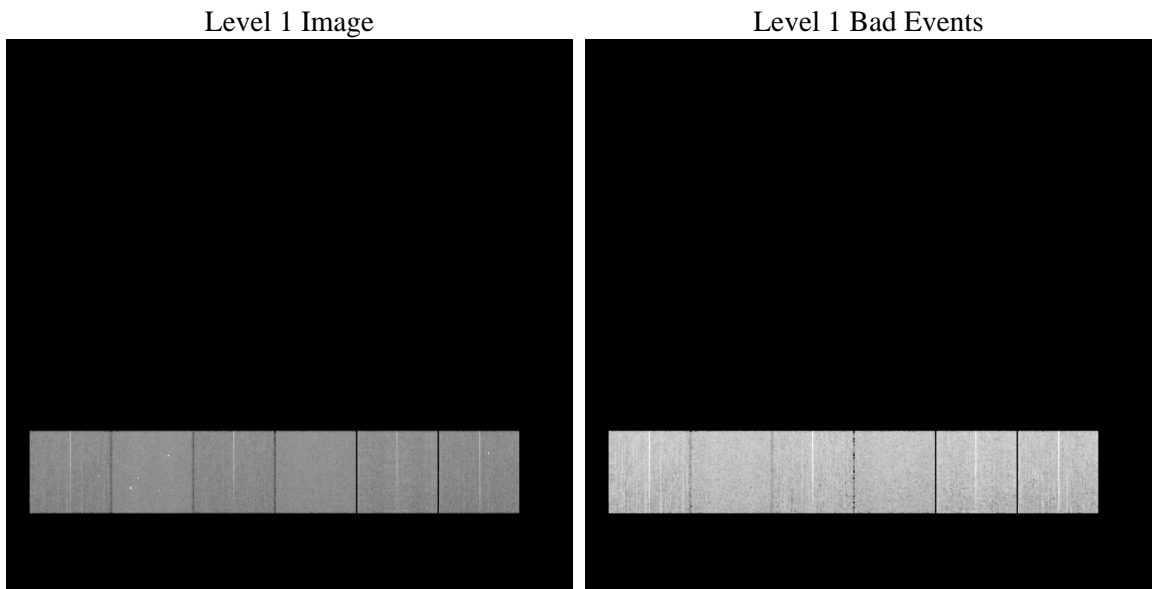
# 1 Front

seq_num	&#160	Sequence number
obs_id	56829	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	23.982812835921	Nominal RA [deg]
dec_nom	-0.9769753785478	Nominal Dec [deg]
roll_nom	93.89337545807	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8271.0290954709	Sum of GTIs [s]
livetime	8166.2963448482	Livetime [s]
ontime4	8270.905975461	Sum of GTIs [s]
ontime5	8270.9880554676	Sum of GTIs [s]
ontime6	8270.9470154643	Sum of GTIs [s]
ontime7	8271.0290954709	Sum of GTIs [s]
ontime8	8270.8649354577	Sum of GTIs [s]
ontime9	8271.0701354742	Sum of GTIs [s]
l2events	495724	Number of level 2 events

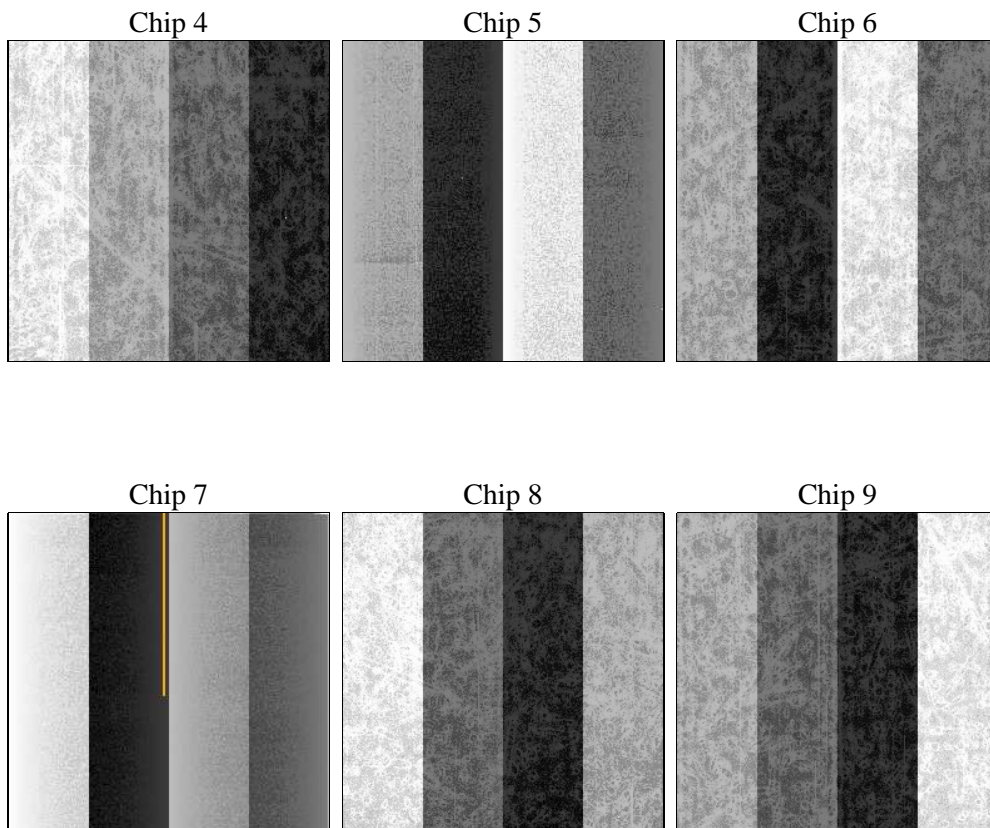
## 2 OBI

### 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	8271.0290954709	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime4	8270.905975461	Sum of GTIs [s]
date	2012-06-13T20:28:42	Date and time of file creation	ontime5	8270.9880554676	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8270.9470154643	Sum of GTIs [s]
			ontime7	8271.0290954709	Sum of GTIs [s]
			ontime8	8270.8649354577	Sum of GTIs [s]
			ontime9	8271.0701354742	Sum of GTIs [s]
			l1events	1026206	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	158646	192598	156620	183756	176429	158157	grade 0 events	41763	18178	40007	20666	44759	41924
rejected events	85872	75437	80239	71506	86111	81678		26%	9%	25%	11%	25%	26%
rejected %	54%	39%	51%	38%	48%	51%	grade 1 events	466	247	280	171	333	311
								0%	0%	0%	0%	0%	0%
							grade 2 events	11555	41958	13658	24255	16918	12938
								7%	21%	8%	13%	9%	8%
							grade 3 events	5026	5278	5007	10407	6603	5150
								3%	2%	3%	5%	3%	3%
							grade 4 events	5025	5157	4980	10281	6582	4940
								3%	2%	3%	5%	3%	3%
							grade 5 events	4331	10140	4646	11652	6002	5161
								2%	5%	2%	6%	3%	3%
							grade 6 events	9405	46590	12729	46641	15456	11527
								5%	24%	8%	25%	8%	7%
							grade 7 events	81075	65050	75313	59683	79776	76206
								51%	33%	48%	32%	45%	48%

## 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	23.9828128359208	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-0.9769753785477986	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	93.89337545806967	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-0.6828225247311905			
[mm] SIM defocus	0.1037507710433287	0.8505141146731063			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	369423987.182227	369423986.15723			
Observation start date	2009-09-15T17:46:27	2009-09-15T17:46:26			
[s] Observation end time (MET)	369449862.283526	369449861.25852			
Observation end date	2009-09-16T00:57:42	2009-09-16T00:57:41			
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)	2012.06.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2710290954709

### A.2 Comments