

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 56423 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Jun 22 2012

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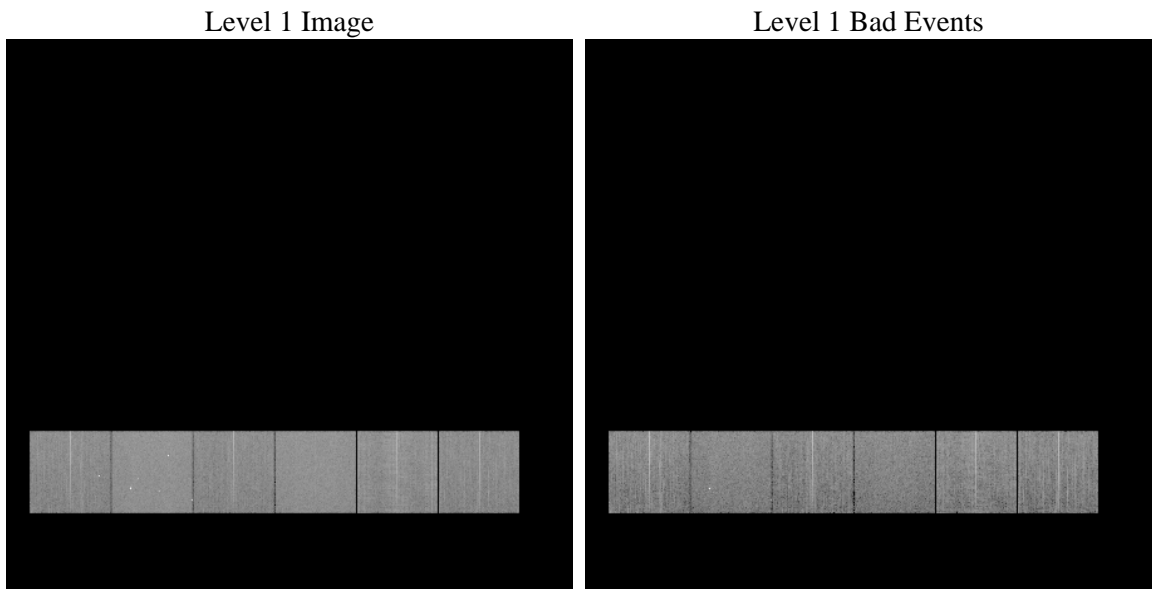
# 1 Front

seq_num	&#160	Sequence number
obs_id	56423	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	172.9745782172	Nominal RA [deg]
dec_nom	29.400432262233	Nominal Dec [deg]
roll_nom	152.46974899935	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8277.2893233895	Sum of GTIs [s]
livetime	8172.4773019915	Livetime [s]
ontime4	8277.1662033796	Sum of GTIs [s]
ontime5	8277.2482833862	Sum of GTIs [s]
ontime6	8277.2072433829	Sum of GTIs [s]
ontime7	8277.2893233895	Sum of GTIs [s]
ontime8	8273.8841730356	Sum of GTIs [s]
ontime9	8277.3303633928	Sum of GTIs [s]
l2events	457326	Number of level 2 events

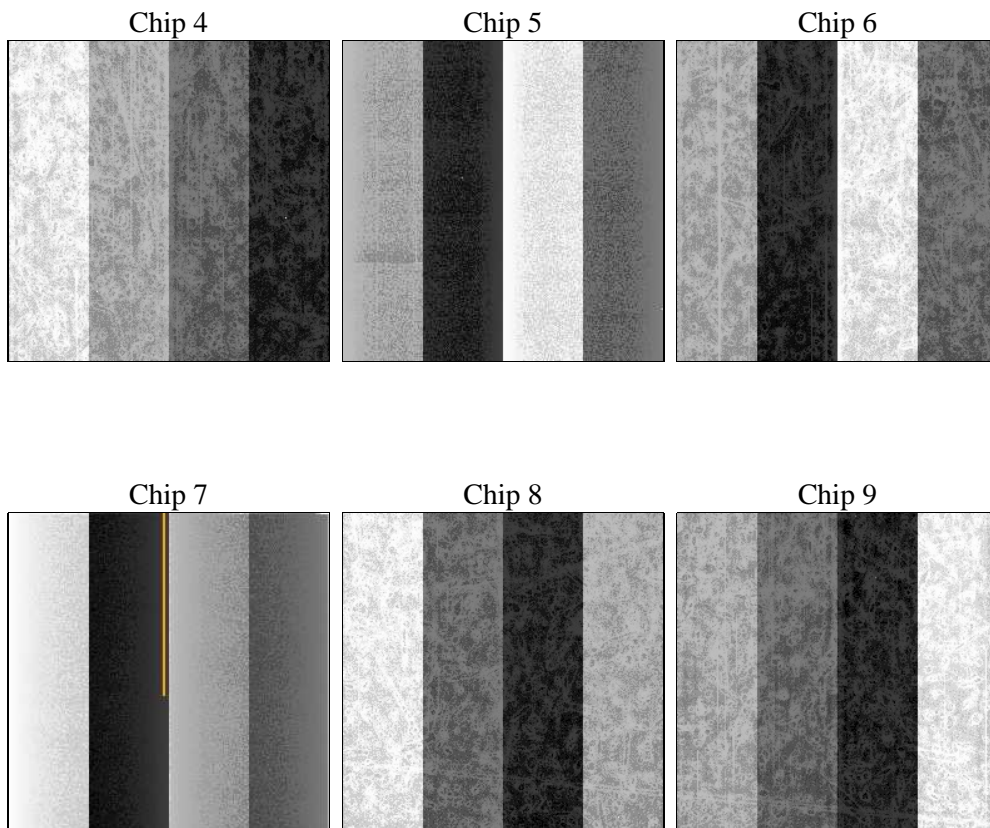
## 2 OBI

### 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	8277.2893233895	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime4	8277.1662033796	Sum of GTIs [s]
date	2012-06-22T05:09:03	Date and time of file creation	ontime5	8277.2482833862	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	8277.2072433829	Sum of GTIs [s]
			ontime7	8277.2893233895	Sum of GTIs [s]
			ontime8	8273.8841730356	Sum of GTIs [s]
			ontime9	8277.3303633928	Sum of GTIs [s]
			l1events	969932	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	148682	185444	144435	175363	170446	145562	grade 0 events	37979	17139	36056	18591	40519	35385
rejected events	81998	75080	75160	70562	85758	78628		25%	9%	24%	10%	23%	24%
rejected %	55%	40%	52%	40%	50%	54%	grade 1 events	424	835	228	180	263	293
								0%	0%	0%	0%	0%	0%
							grade 2 events	10792	37968	12499	22689	16258	11784
								7%	20%	8%	12%	9%	8%
							grade 3 events	4746	5236	4579	9713	6379	4436
								3%	2%	3%	5%	3%	3%
							grade 4 events	4565	5066	4536	9615	6162	4554
								3%	2%	3%	5%	3%	3%
							grade 5 events	4205	10532	4594	11376	5809	4927
								2%	5%	3%	6%	3%	3%
							grade 6 events	8602	44955	11605	44193	15370	10775
								5%	24%	8%	25%	9%	7%
							grade 7 events	77369	63713	70338	59006	79686	73408
								52%	34%	48%	33%	46%	50%

## 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	172.9745782171991	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	29.4004322622328	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	152.4697489993454	[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)	383817616.008813	383817614.98382			
Observation start date	2010-03-01T08:00:16	2010-03-01T08:00:14			
[s] Observation end time (MET)	383844089.710156	383844088.68516			
Observation end date	2010-03-01T15:21:30	2010-03-01T15:21:28			
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)	2012.06.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2772893233895

### **A.2 Comments**