

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 54329 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Sep 15 2012

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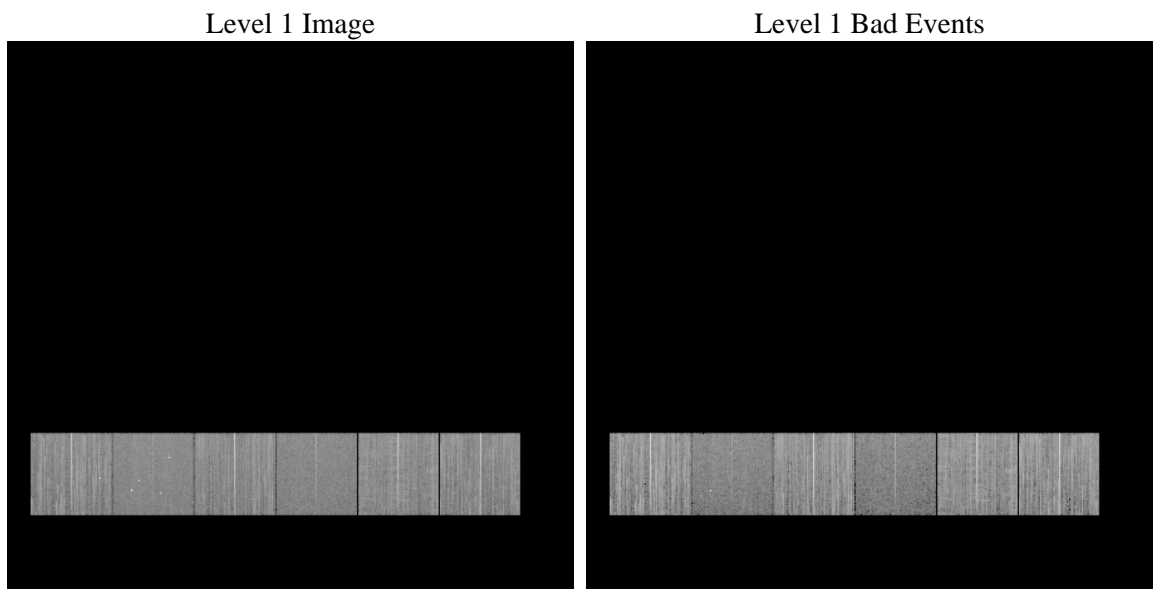
# 1 Front

seq_num	&#160	Sequence number
obs_id	54329	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	344.98152036076	Nominal RA [deg]
dec_nom	3.9758608532502	Nominal Dec [deg]
roll_nom	227.23242797765	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8278.3589491248	Sum of GTIs [s]
livetime	8173.5333834817	Livetime [s]
ontime4	8278.3589292169	Sum of GTIs [s]
ontime5	8281.5999692082	Sum of GTIs [s]
ontime6	8278.3589788675	Sum of GTIs [s]
ontime7	8278.3589491248	Sum of GTIs [s]
ontime8	8278.3589491248	Sum of GTIs [s]
ontime9	8278.3589987755	Sum of GTIs [s]
l2events	285112	Number of level 2 events

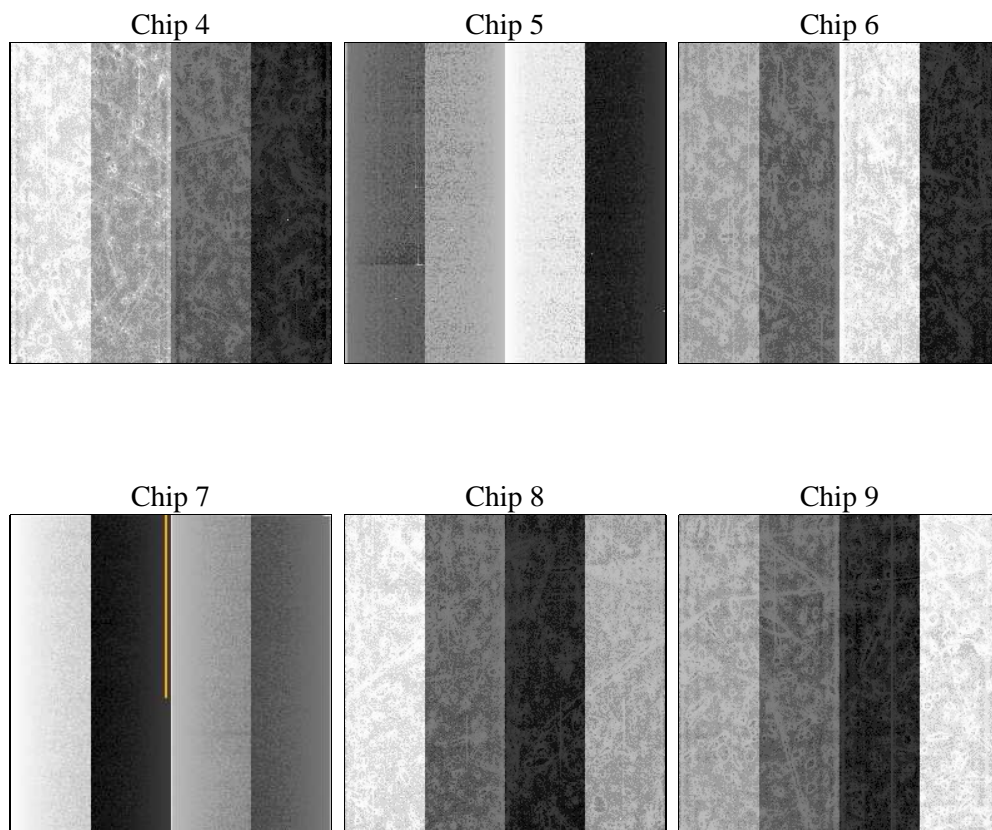
## 2 OBI

### 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	8278.3589491248	Sum of GTIs [s]
caldbver	4.5.1.1	&#160	ontime4	8278.3589292169	Sum of GTIs [s]
date	2012-09-15T15:19:03	Date and time of file creation	ontime5	8281.5999692082	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8278.3589788675	Sum of GTIs [s]
			ontime7	8278.3589491248	Sum of GTIs [s]
			ontime8	8278.3589491248	Sum of GTIs [s]
			ontime9	8278.3589987755	Sum of GTIs [s]
			l1events	991367	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	178299	149763	171786	136047	181680	173792	grade 0 events	23350	10472	20938	10638	23762	20488
rejected events	136343	76572	130185	68863	129657	133144		13%	6%	12%	7%	13%	11%
rejected %	76%	51%	75%	50%	71%	76%	grade 1 events	175	251	98	95	136	113
								0%	0%	0%	0%	0%	0%
							grade 2 events	7397	26687	8098	16173	10460	7838
								4%	17%	4%	11%	5%	4%
							grade 3 events	2786	2978	2642	5743	3809	2748
								1%	1%	1%	4%	2%	1%
							grade 4 events	2778	2831	2683	5658	3680	2682
								1%	1%	1%	4%	2%	1%
							grade 5 events	3297	7229	3314	7925	4391	3640
								1%	4%	1%	5%	2%	2%
							grade 6 events	5662	30254	7263	28994	10325	6910
								3%	20%	4%	21%	5%	3%
							grade 7 events	132854	69061	126750	60821	125117	129373
								74%	46%	73%	44%	68%	74%

## 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	344.9815203607626	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	3.975860853250185	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	227.2324279776544	[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)	464022855.875517	464022854.85052			
Observation start date	2012-09-14T15:14:16	2012-09-14T15:14:14			
[s] Observation end time (MET)	464035963.576218	464035962.55122			
Observation end date	2012-09-14T18:52:44	2012-09-14T18:52:42			
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)	2012.09.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2783589491248

### A.2 Comments