

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 54308 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Sep 23 2012

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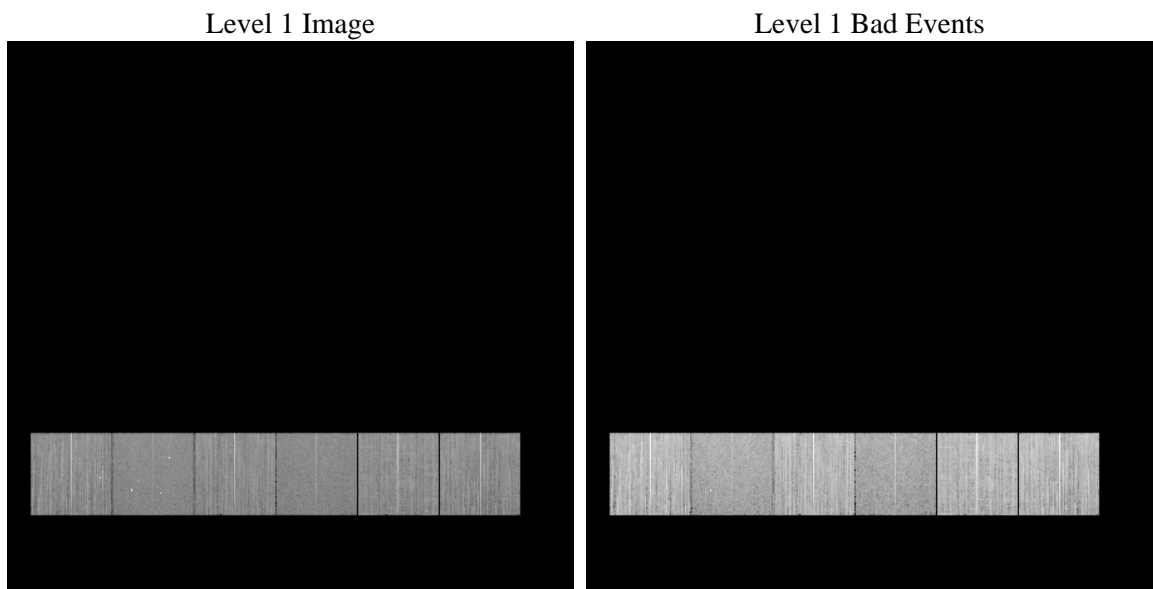
# 1 Front

seq_num	&#160	Sequence number
obs_id	54308	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	321.84489393258	Nominal RA [deg]
dec_nom	-14.012807817357	Nominal Dec [deg]
roll_nom	67.511450980718	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8076.5422950983	Sum of GTIs [s]
livetime	7974.2722534479	Livetime [s]
ontime4	8076.4191750884	Sum of GTIs [s]
ontime5	8076.501255095	Sum of GTIs [s]
ontime6	8076.4602150917	Sum of GTIs [s]
ontime7	8076.5422950983	Sum of GTIs [s]
ontime8	8076.3781350851	Sum of GTIs [s]
ontime9	8076.5833351016	Sum of GTIs [s]
l2events	275573	Number of level 2 events

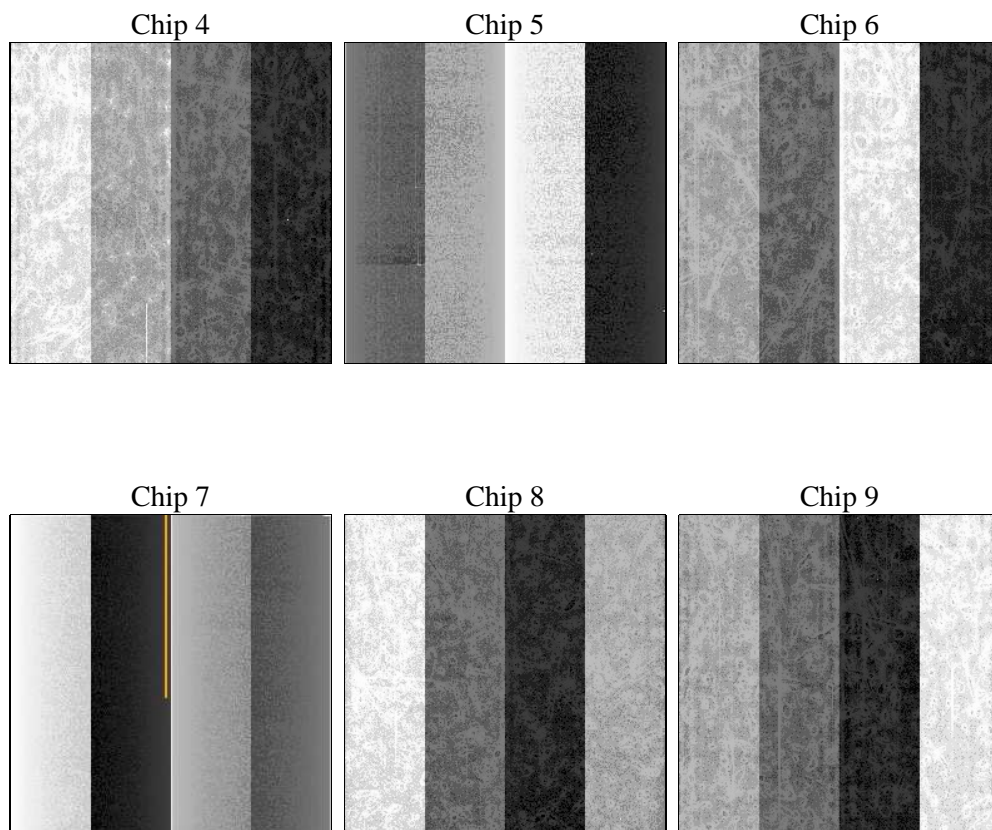
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	8076.5422950983	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime4	8076.4191750884	Sum of GTIs [s]
date	2012-09-23T18:11:51	Date and time of file creation	ontime5	8076.501255095	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8076.4602150917	Sum of GTIs [s]
			ontime7	8076.5422950983	Sum of GTIs [s]
			ontime8	8076.3781350851	Sum of GTIs [s]
			ontime9	8076.5833351016	Sum of GTIs [s]
			l1events	985801	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	175625	150728	170199	136902	179670	172677	grade 0 events	22818	11497	20602	10779	23224	20037
rejected events	135439	77691	130008	70936	130574	134029		12%	7%	12%	7%	12%	11%
rejected %	77%	51%	76%	51%	72%	77%	grade 1 events	167	166	77	83	117	117
								0%	0%	0%	0%	0%	0%
							grade 2 events	7308	26549	8097	16519	10004	7490
								4%	17%	4%	12%	5%	4%
							grade 3 events	2736	2969	2700	5651	3814	2691
								1%	1%	1%	4%	2%	1%
							grade 4 events	2746	2929	2566	5686	3639	2627
								1%	1%	1%	4%	2%	1%
							grade 5 events	3277	6509	3259	7942	4375	3665
								1%	4%	1%	5%	2%	2%
							grade 6 events	5521	30714	7199	28863	9673	6770
								3%	20%	4%	21%	5%	3%
							grade 7 events	131052	69395	125699	61379	124824	129280
								74%	46%	73%	44%	69%	74%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	321.8448939325773
[deg] Pointing Dec	0	-14.0128078173568
[deg] Pointing Roll	0.0	67.51145098071848
SIM focus pos (mm)	-1.4281808131	-1.4281808131
[mm] SIM defocus	0.1051557500557434	0.1051557500557434
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	464708330.81236	464708330.81236
Observation start date	2012-09-22T13:38:51	2012-09-22T13:38:50
[s] Observation end time (MET)	464717877.042714	464717877.042714
Observation end date	2012-09-22T16:17:57	2012-09-22T16:17:57
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.09.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0765422950983

### A.2 Comments