

# V&V Reference Report

## L2 ASCDS Version : 10.1.1

Observation 53273 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Oct 29 2013

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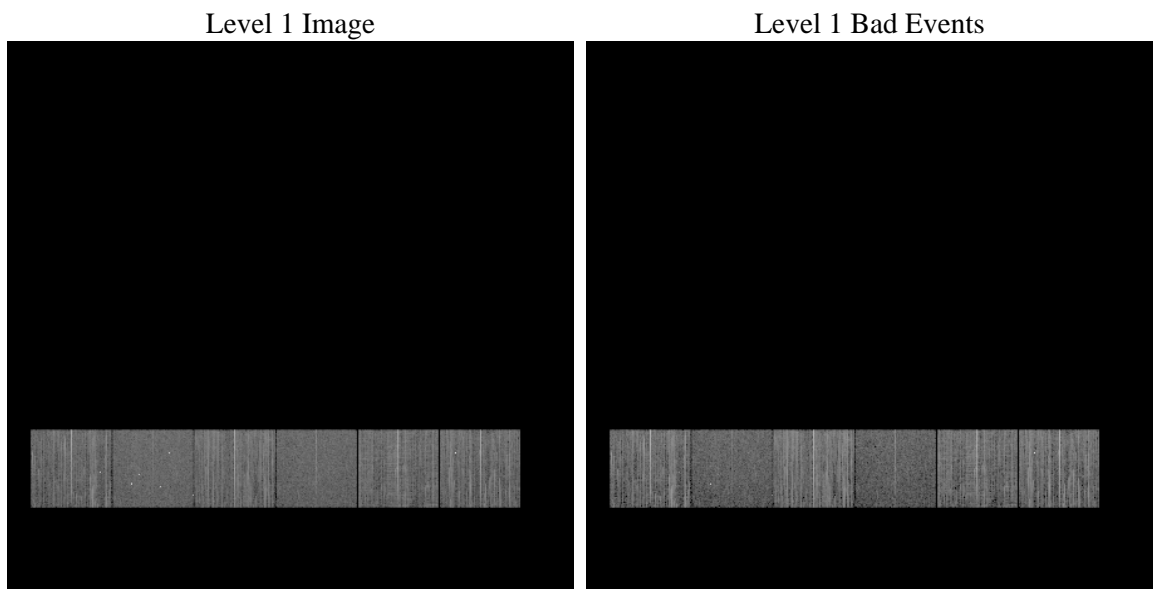
# 1 Front

seq_num	&#160	Sequence number
obs_id	53273	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	46.915002177392	Nominal RA [deg]
dec_nom	-10.161861619063	Nominal Dec [deg]
roll_nom	28.921328023513	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5574.3999792933	Sum of GTIs [s]
livetime	5503.8135702548	Livetime [s]
ontime4	5574.3999792933	Sum of GTIs [s]
ontime5	5574.3999792933	Sum of GTIs [s]
ontime6	5574.3999792933	Sum of GTIs [s]
ontime7	5574.3999792933	Sum of GTIs [s]
ontime8	5574.3999792933	Sum of GTIs [s]
ontime9	5574.3999792933	Sum of GTIs [s]
l2events	152317	Number of level 2 events

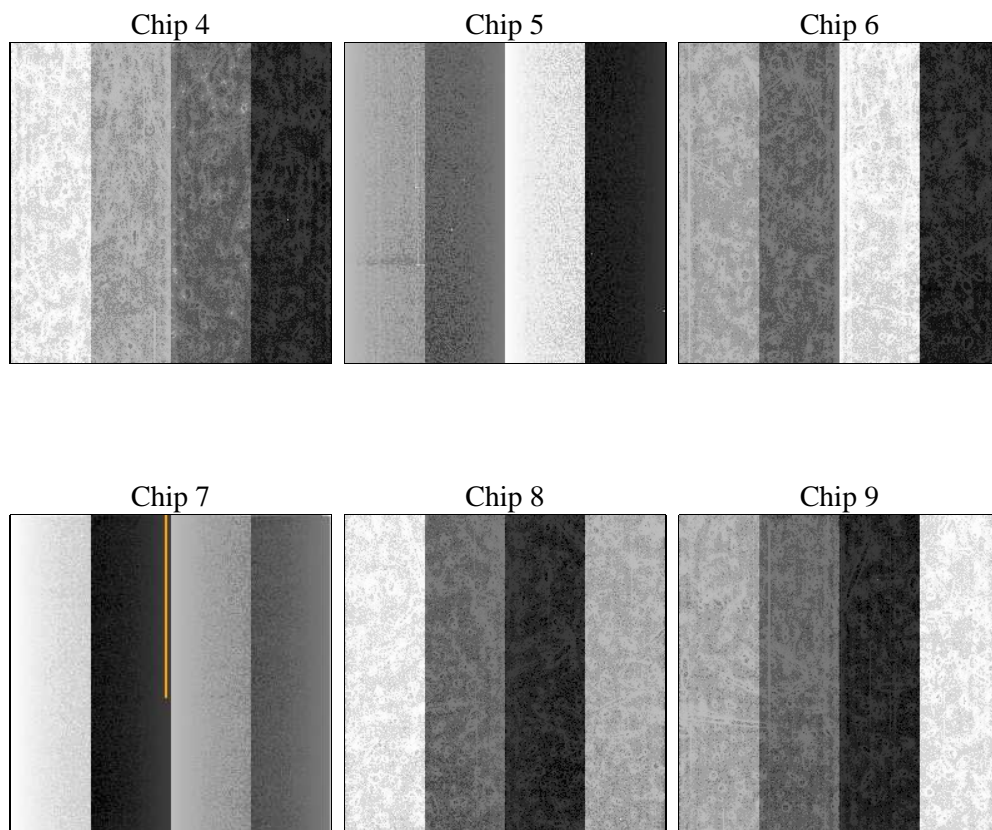
## 2 OBI

### 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	10.1.1	Processing system revision	ontime	5574.3999792933	Sum of GTIs [s]
caldbver	4.5.8	&#160	ontime4	5574.3999792933	Sum of GTIs [s]
date	2013-10-30T00:00:13	Date and time of file creation	ontime5	5574.3999792933	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	5574.3999792933	Sum of GTIs [s]
			ontime7	5574.3999792933	Sum of GTIs [s]
			ontime8	5574.3999792933	Sum of GTIs [s]
			ontime9	5574.3999792933	Sum of GTIs [s]
			l1events	639342	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	106669	96964	120706	86453	111514	117036	grade 0 events	12529	7503	10759	5656	12730	12107
rejected events	85061	52848	99589	48145	83163	95227		11%	7%	8%	6%	11%	10%
rejected %	79%	54%	82%	55%	74%	81%	grade 1 events	101	143	56	67	73	3400
								0%	0%	0%	0%	0%	2%
							grade 2 events	3936	15554	4411	9641	6173	3909
								3%	16%	3%	11%	5%	3%
							grade 3 events	1494	1599	1371	3148	2262	1463
								1%	1%	1%	3%	2%	1%
							grade 4 events	1381	1630	1336	3258	2254	1461
								1%	1%	1%	3%	2%	1%
							grade 5 events	2226	4559	2147	5164	2907	2421
								2%	4%	1%	5%	2%	2%
							grade 6 events	2783	18899	3726	17485	5526	3396
								2%	19%	3%	20%	4%	2%
							grade 7 events	82219	47077	96900	42034	79589	88879
								77%	48%	80%	48%	71%	75%

## 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	46.91500217739176
[deg] Pointing Dec	0	-10.16186161906261
[deg] Pointing Roll	0.0	28.92132802351317
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)	499442267.84354	499442267.84354
Observation start date	2013-10-29T13:57:48	2013-10-29T13:57:47
[s] Observation end time (MET)	499449131.741156	499449131.741156
Observation end date	2013-10-29T15:52:12	2013-10-29T15:52:11
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	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.10.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.5743999792933

### A.2 Comments