

# V&V Reference Report

## L2 ASCDS Version : 10.1.1

Observation 53183 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Dec 5 2013

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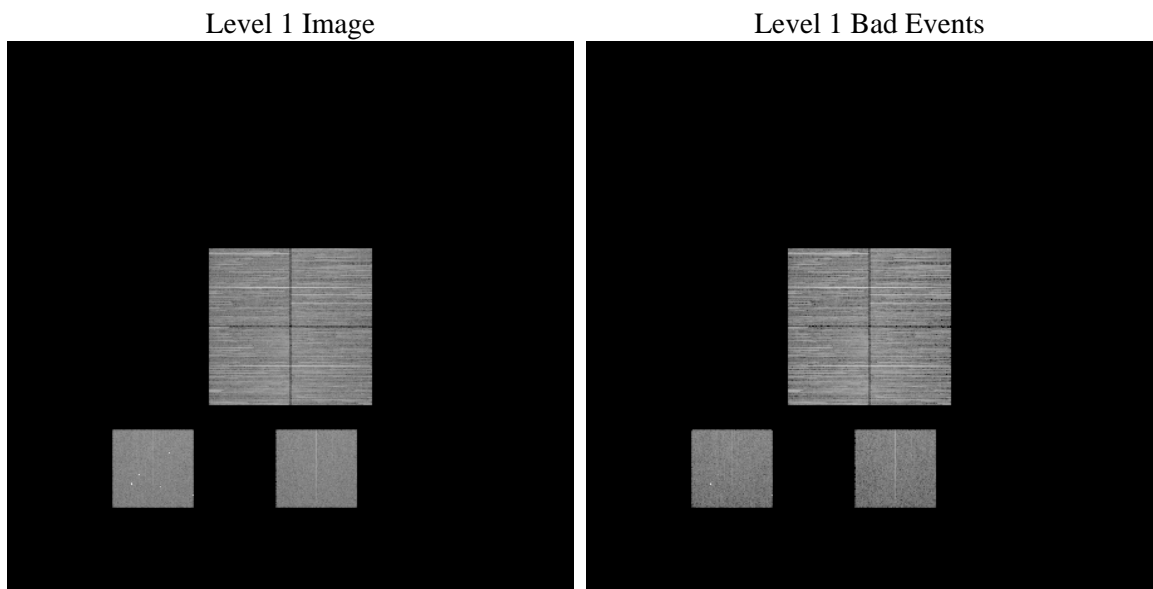
# 1 Front

seq_num	&#160	Sequence number
obs_id	53183	Observation id
title	ACIS-012357 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	42.730697037929	Nominal RA [deg]
dec_nom	29.817032185351	Nominal Dec [deg]
roll_nom	262.46803799167	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8099.1999698877	Sum of GTIs [s]
livetime	7996.6430231163	Livetime [s]
ontime0	8099.1999698877	Sum of GTIs [s]
ontime1	8099.1999698877	Sum of GTIs [s]
ontime2	8099.1999698877	Sum of GTIs [s]
ontime3	8099.1999698877	Sum of GTIs [s]
ontime5	8099.1999698877	Sum of GTIs [s]
ontime7	8099.1999698877	Sum of GTIs [s]
l2events	210108	Number of level 2 events

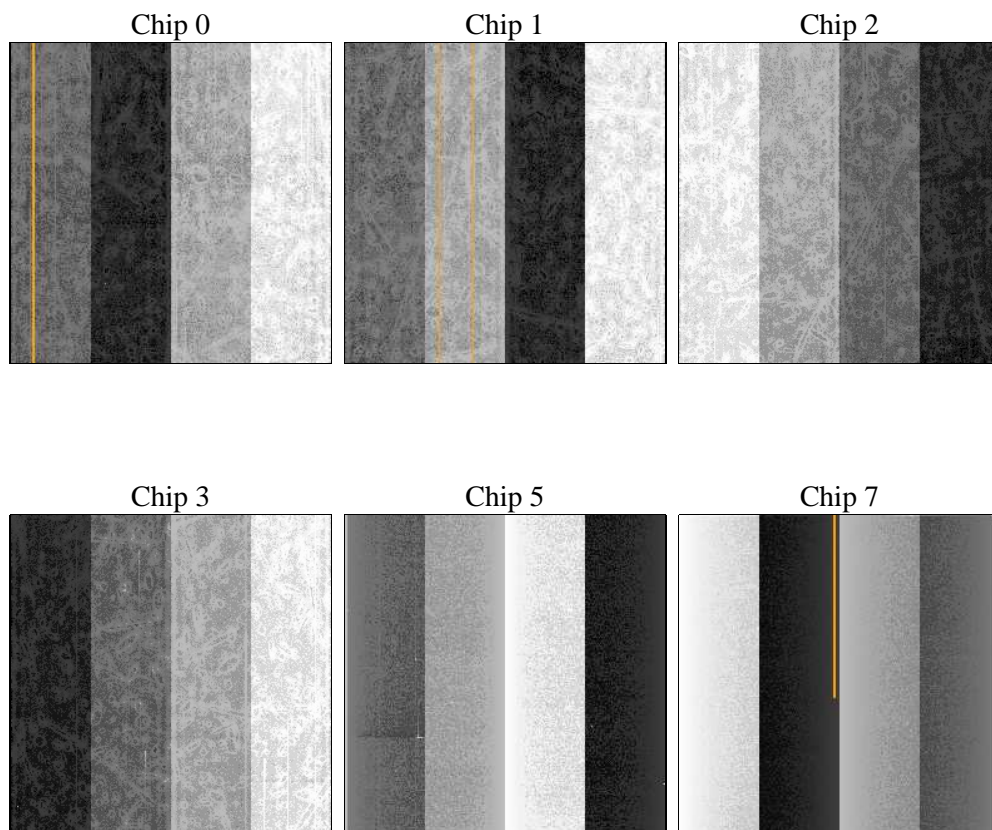
## 2 OBI

### 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	10.1.1	Processing system revision	ontime	8099.1999698877	Sum of GTIs [s]
caldsver	4.5.9	&#160	ontime0	8099.1999698877	Sum of GTIs [s]
date	2013-12-06T01:53:08	Date and time of file creation	ontime1	8099.1999698877	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8099.1999698877	Sum of GTIs [s]
			ontime3	8099.1999698877	Sum of GTIs [s]
			ontime5	8099.1999698877	Sum of GTIs [s]
			ontime7	8099.1999698877	Sum of GTIs [s]
			l1events	832209	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	139075	148833	153028	144473	128947	117853	grade 0 events	14473	14292	15154	15040	8427	8002
rejected events	110816	120398	124722	116145	70463	65125		10%	9%	9%	10%	6%	6%
rejected %	79%	80%	81%	80%	54%	55%	grade 1 events	70	77	83	80	224	73
								0%	0%	0%	0%	0%	0%
							grade 2 events	5806	6137	5443	5577	21690	13095
								4%	4%	3%	3%	16%	11%
							grade 3 events	2037	1931	2018	2020	2124	4552
								1%	1%	1%	1%	1%	3%
							grade 4 events	1938	1975	2087	2039	1977	4557
								1%	1%	1%	1%	1%	3%
							grade 5 events	2680	2827	2598	3008	5918	7372
								1%	1%	1%	2%	4%	6%
							grade 6 events	4695	4796	4330	4361	25703	23789
								3%	3%	2%	3%	19%	20%
							grade 7 events	107376	116798	121315	112348	62884	56413
								77%	78%	79%	77%	48%	47%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012357	ACIS-012357	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	OVERRIDE	OVERRIDE
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	42.73069703792935	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	29.81703218535138	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	262.4680379916655	[s] Primary exposure time	3.2	3.2
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)	502638607.518685	502638607.518685			
Observation start date	2013-12-05T13:50:08	2013-12-05T13:50:07			
[s] Observation end time (MET)	502647049.603298	502647049.603298			
Observation end date	2013-12-05T16:10:50	2013-12-05T16:10:49			
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)	2013.12.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0991999698877

### A.2 Comments