

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 53457 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Aug 22 2013

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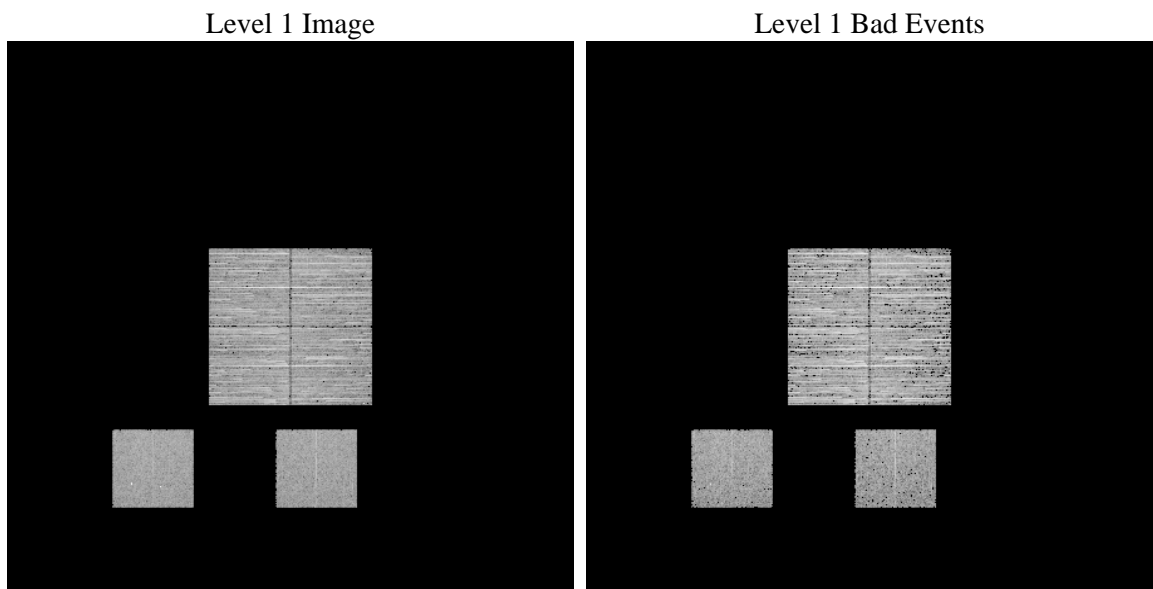
# 1 Front

seq_num	&#160	Sequence number
obs_id	53457	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	326.97681109203	Nominal RA [deg]
dec_nom	19.98123406608	Nominal Dec [deg]
roll_nom	187.72339836993	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3286.4030394554	Sum of GTIs [s]
livetime	3244.7886253355	Livetime [s]
ontime0	3286.4030394554	Sum of GTIs [s]
ontime1	3288.1353549361	Sum of GTIs [s]
ontime2	3288.0943149328	Sum of GTIs [s]
ontime3	3286.4030394554	Sum of GTIs [s]
ontime5	3288.0532749295	Sum of GTIs [s]
ontime7	3286.4030394554	Sum of GTIs [s]
l2events	89618	Number of level 2 events

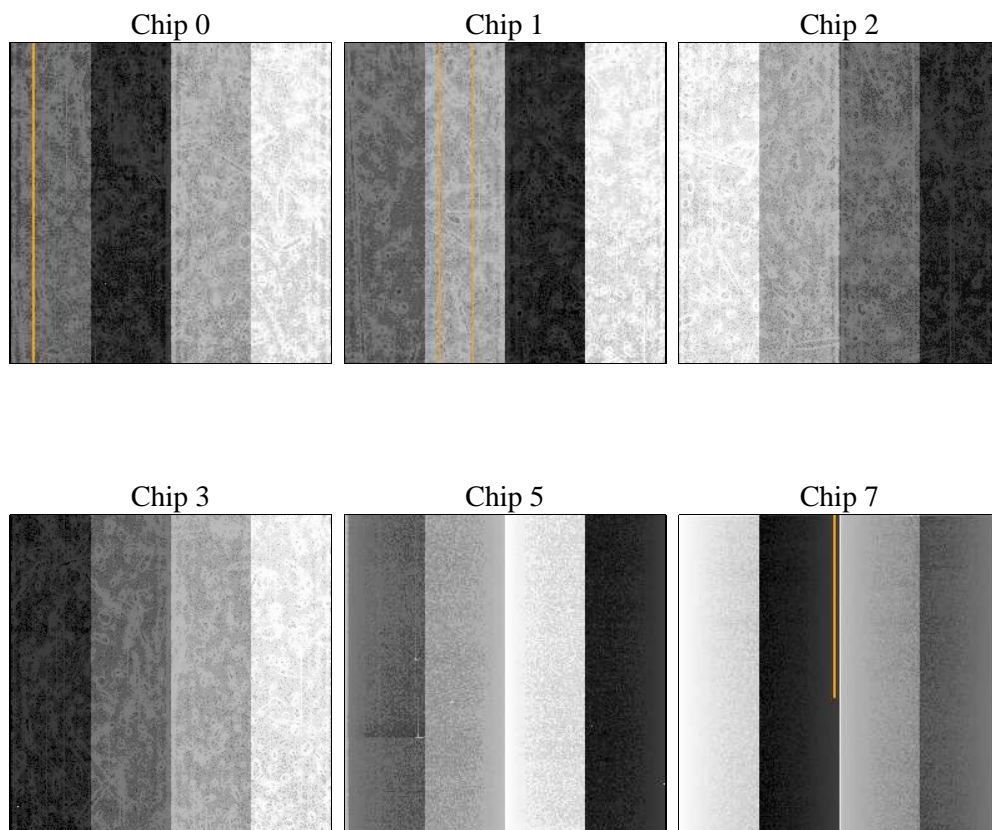
## 2 OBI

### 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	Processing system revision	ontime	3286.4030394554	Sum of GTIs [s]
caldsver	4.5.8	&#160	ontime0	3286.4030394554	Sum of GTIs [s]
date	2013-08-22T21:12:14	Date and time of file creation	ontime1	3288.1353549361	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	3288.0943149328	Sum of GTIs [s]
			ontime3	3286.4030394554	Sum of GTIs [s]
			ontime5	3288.0532749295	Sum of GTIs [s]
			ontime7	3286.4030394554	Sum of GTIs [s]
			l1events	343891	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	61101	60289	65526	57901	50721	48353	grade 0 events	6144	5963	6248	6481	2420	3180
rejected events	48818	48028	53265	45583	27401	25939		10%	9%	9%	11%	4%	6%
rejected %	79%	79%	81%	78%	54%	53%	grade 1 events	36	26	33	33	49	50
								0%	0%	0%	0%	0%	0%
							grade 2 events	2470	2582	2425	2323	8669	5600
								4%	4%	3%	4%	17%	11%
							grade 3 events	865	822	884	804	824	1820
								1%	1%	1%	1%	1%	3%
							grade 4 events	827	825	848	834	728	1715
								1%	1%	1%	1%	1%	3%
							grade 5 events	1098	1119	1066	1275	2301	2896
								1%	1%	1%	2%	4%	5%
							grade 6 events	1977	2069	1856	1876	10679	10099
								3%	3%	2%	3%	21%	20%
							grade 7 events	47684	46883	52166	44275	25051	22993
								78%	77%	79%	76%	49%	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	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	326.9768110920264	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	19.98123406607962	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	187.7233983699344	[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)	493529924.020484	493529922.99548			
Observation start date	2013-08-22T03:38:44	2013-08-22T03:38:42			
[s] Observation end time (MET)	493535102.320766	493535101.29577			
Observation end date	2013-08-22T05:05:02	2013-08-22T05:05:01			
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)	2013.08.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2864030394554

### A.2 Comments