

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 53367 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Sep 28 2013

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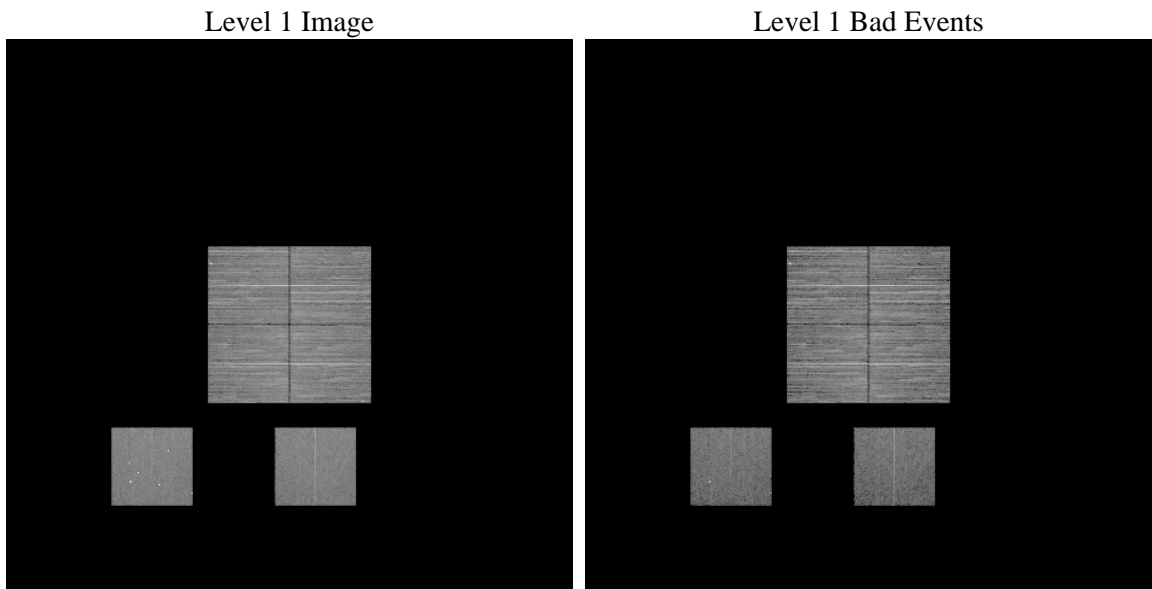
# 1 Front

seq_num	&#160	Sequence number
obs_id	53367	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	8.2243303099328	Nominal RA [deg]
dec_nom	-0.030382323539001	Nominal Dec [deg]
roll_nom	239.56689341838	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8258.3275657296	Sum of GTIs [s]
livetime	8153.7556495245	Livetime [s]
ontime0	8258.2865257263	Sum of GTIs [s]
ontime1	8258.245485723	Sum of GTIs [s]
ontime2	8258.2044457197	Sum of GTIs [s]
ontime3	8258.3686057329	Sum of GTIs [s]
ontime5	8258.1634057164	Sum of GTIs [s]
ontime7	8258.3275657296	Sum of GTIs [s]
l2events	221269	Number of level 2 events

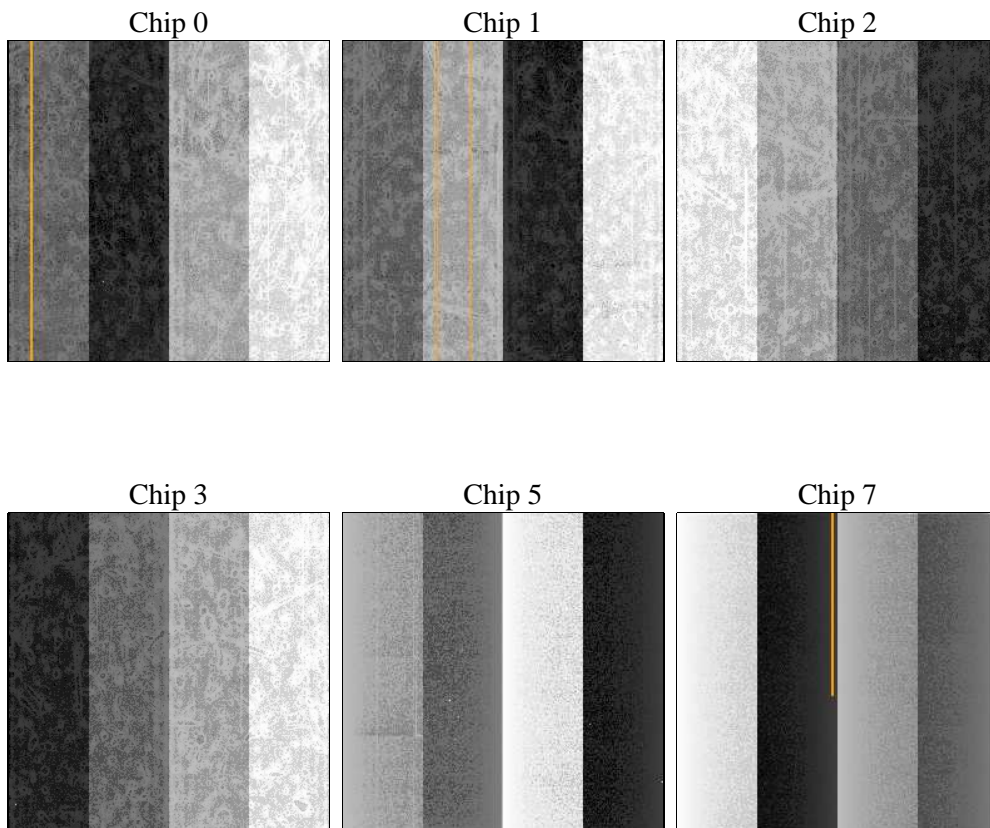
## 2 OBI

### 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	8258.3275657296	Sum of GTIs [s]
caldsver	4.5.8	&#160	ontime0	8258.2865257263	Sum of GTIs [s]
date	2013-09-28T12:06:27	Date and time of file creation	ontime1	8258.245485723	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8258.2044457197	Sum of GTIs [s]
			ontime3	8258.3686057329	Sum of GTIs [s]
			ontime5	8258.1634057164	Sum of GTIs [s]
			ontime7	8258.3275657296	Sum of GTIs [s]
			l1events	859740	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	148869	150464	149014	151443	138002	121948	grade 0 events	14994	14313	15643	16702	12440	7774
rejected events	118850	120238	118923	120152	72143	66817		10%	9%	10%	11%	9%	6%
rejected %	79%	79%	79%	79%	52%	54%	grade 1 events	2702	74	97	105	370	62
								1%	0%	0%	0%	0%	0%
							grade 2 events	6255	6896	5943	5921	22918	13789
								4%	4%	3%	3%	16%	11%
							grade 3 events	2036	1947	2038	2122	1963	4400
								1%	1%	1%	1%	1%	3%
							grade 4 events	2010	1986	2007	2048	1778	4291
								1%	1%	1%	1%	1%	3%
							grade 5 events	2808	2723	2480	3022	5715	7161
								1%	1%	1%	1%	4%	5%
							grade 6 events	4826	5204	4560	4619	26991	25069
								3%	3%	3%	3%	19%	20%
							grade 7 events	113238	117321	116246	116904	65827	59402
								76%	77%	78%	77%	47%	48%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012357	ACIS-012357
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	8.224330309932782
[deg] Pointing Dec	0	-0.03038232353900128
[deg] Pointing Roll	0.0	239.5668934183811
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)	496695966.743323	496695966.743323
Observation start date	2013-09-27T19:06:07	2013-09-27T19:06:06
[s] Observation end time (MET)	496705514.140695	496705514.140695
Observation end date	2013-09-27T21:45:14	2013-09-27T21:45:14
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	Beth Sundheim
V&V Date (YYYY-MM-DD)	2013.09.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2583275657296

### A.2 Comments