

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 52039 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Mar 3 2015

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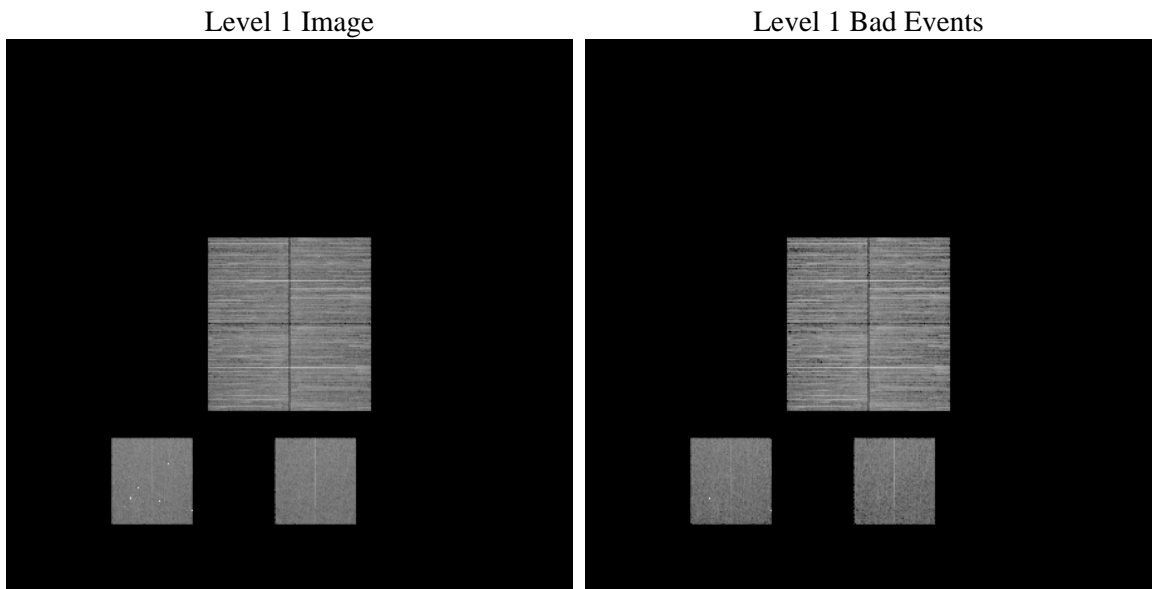
# 1 Front

seq_num	&#160	Sequence number
obs_id	52039	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	144.99445670516	Nominal RA [deg]
dec_nom	24.971582834875	Nominal Dec [deg]
roll_nom	227.26043291307	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8211.2001223564	Sum of GTIs [s]
livetime	8107.224962216	Livetime [s]
ontime0	8211.2001223564	Sum of GTIs [s]
ontime1	8211.2001223564	Sum of GTIs [s]
ontime2	8211.2001223564	Sum of GTIs [s]
ontime3	8211.2001223564	Sum of GTIs [s]
ontime5	8211.2001223564	Sum of GTIs [s]
ontime7	8211.2001223564	Sum of GTIs [s]
l2events	177590	Number of level 2 events

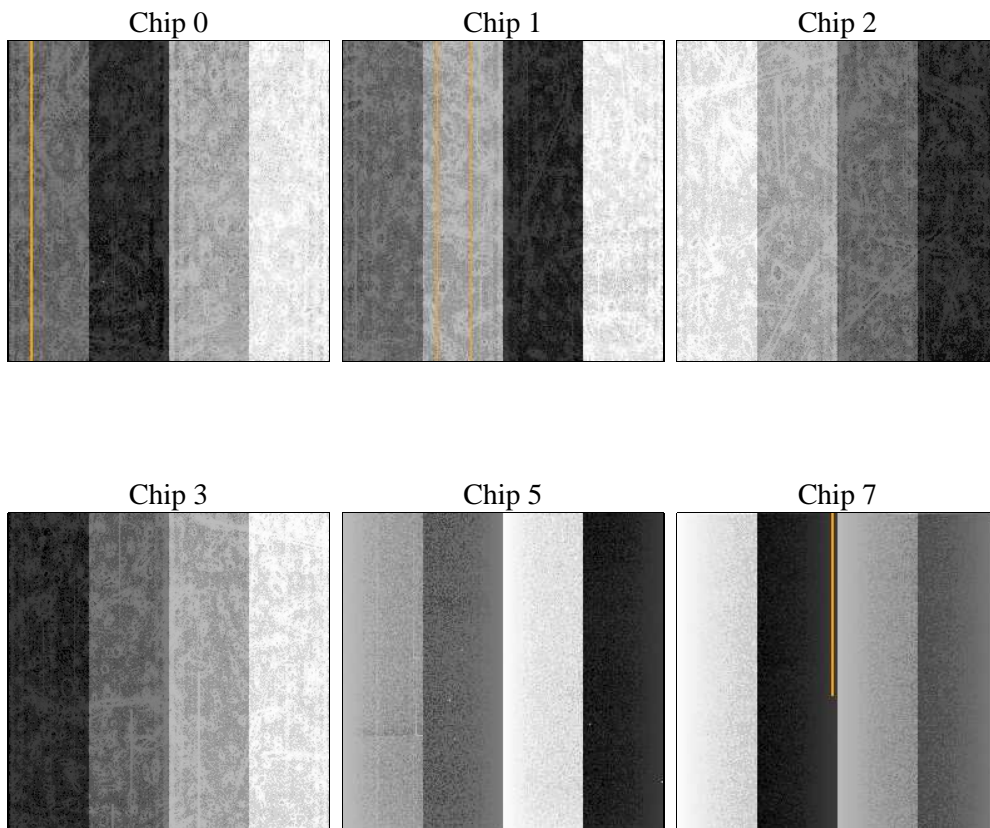
## 2 OBI

### 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	10.3.3	Processing system revision	ontime	8211.2001223564	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime0	8211.2001223564	Sum of GTIs [s]
date	2015-03-03T08:07:15	Date and time of file creation	ontime1	8211.2001223564	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8211.2001223564	Sum of GTIs [s]
			ontime3	8211.2001223564	Sum of GTIs [s]
			ontime5	8211.2001223564	Sum of GTIs [s]
			ontime7	8211.2001223564	Sum of GTIs [s]
			l1events	801847	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	134322	136789	146266	144451	128774	111245	grade 0 events	11060	10800	11475	11624	11320	5770
rejected events	111736	113864	123779	121466	69493	64504		8%	7%	7%	8%	8%	5%
rejected %	83%	83%	84%	84%	53%	57%	grade 1 events	58	57	76	62	200	70
								0%	0%	0%	0%	0%	0%
							grade 2 events	4790	5167	4533	4609	18763	11596
								3%	3%	3%	3%	14%	10%
							grade 3 events	1559	1553	1587	1642	2737	3655
								1%	1%	1%	1%	2%	3%
							grade 4 events	1495	1519	1497	1601	1990	3525
								1%	1%	1%	1%	1%	3%
							grade 5 events	2592	2738	2423	2963	5997	6974
								1%	2%	1%	2%	4%	6%
							grade 6 events	3800	4006	3532	3624	24805	22479
								2%	2%	2%	2%	19%	20%
							grade 7 events	108968	110949	121143	118326	62962	57176
								81%	81%	82%	81%	48%	51%

## 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	144.9944567051614
[deg] Pointing Dec	0	24.97158283487454
[deg] Pointing Roll	0.0	227.26043291307
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)	541708565.432776	541708565.432776
Observation start date	2015-03-02T18:36:05	2015-03-02T18:36:05
[s] Observation end time (MET)	541718114.389861	541718114.389861
Observation end date	2015-03-02T21:15:14	2015-03-02T21:15:14
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	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.03.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2112001223564

### A.2 Comments