

# V&V Reference Report

## L2 ASCDS Version : 10.4.1

Observation 51671 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Aug 27 2015

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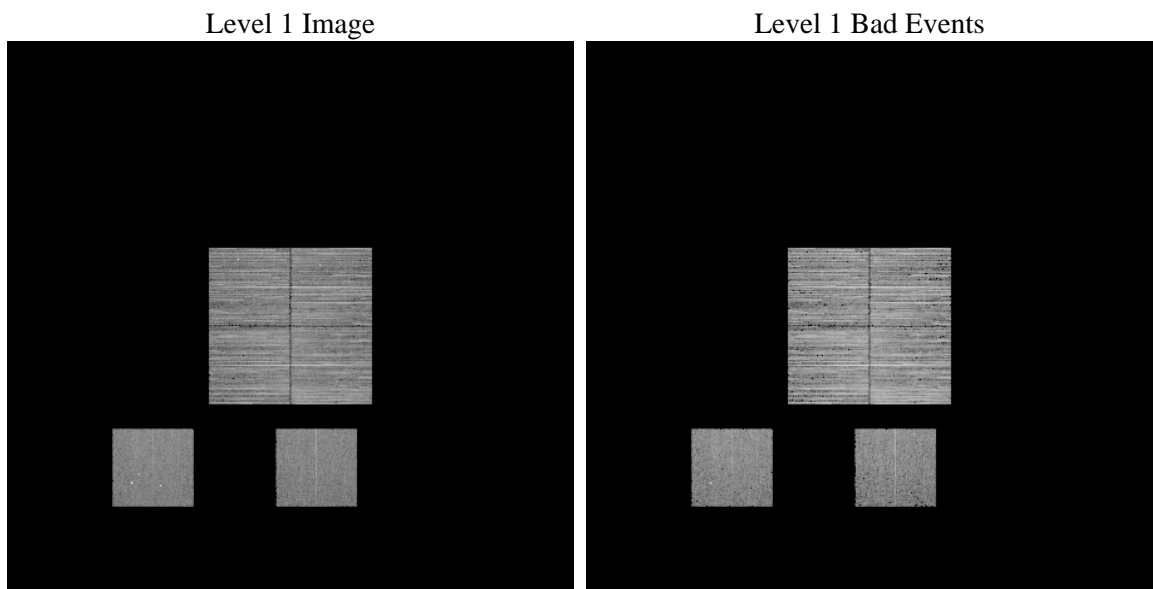
# 1 Front

seq_num	&#160	Sequence number
obs_id	51671	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	82.673003040621	Nominal RA [deg]
dec_nom	22.911265415053	Nominal Dec [deg]
roll_nom	89.557246579252	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4590.7604011297	Sum of GTIs [s]
livetime	4532.6294287066	Livetime [s]
ontime0	4590.7193610668	Sum of GTIs [s]
ontime1	4590.6783211231	Sum of GTIs [s]
ontime2	4590.6372810602	Sum of GTIs [s]
ontime3	4590.8014410734	Sum of GTIs [s]
ontime5	4590.5962411165	Sum of GTIs [s]
ontime7	4590.7604011297	Sum of GTIs [s]
l2events	110435	Number of level 2 events

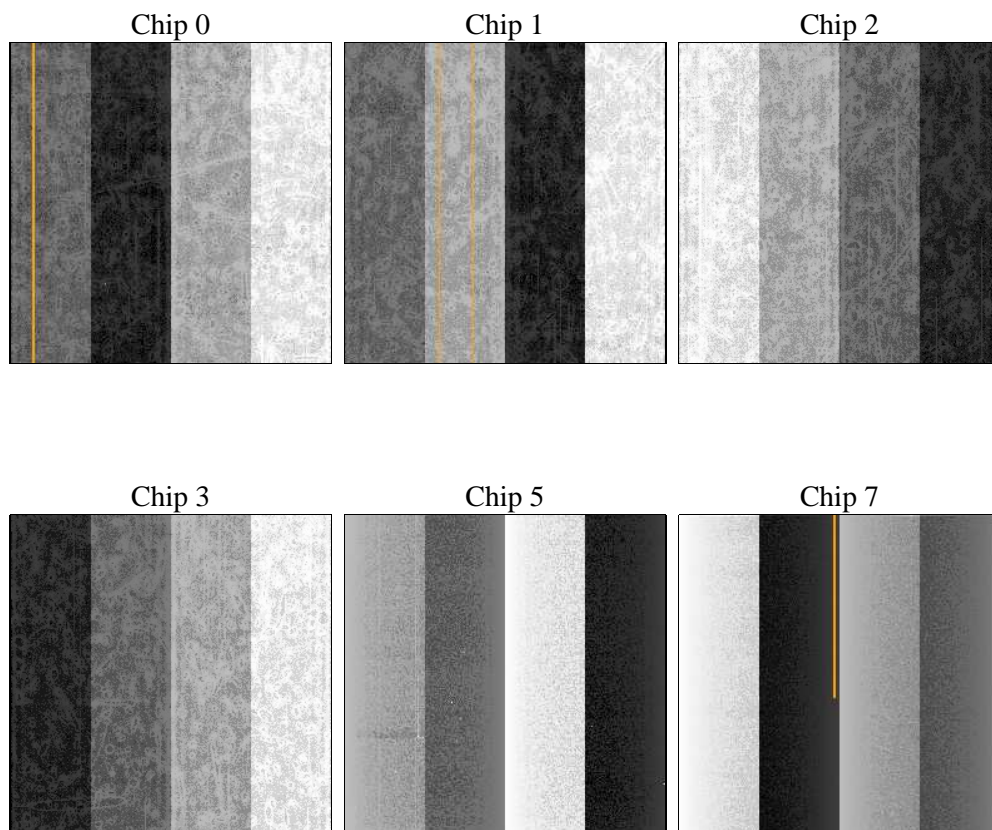
## 2 OBI

### 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	10.4.1	Processing system revision	ontime	4590.7604011297	Sum of GTIs [s]
caldsver	4.6.8	&#160	ontime0	4590.7193610668	Sum of GTIs [s]
date	2015-08-27T15:12:30	Date and time of file creation	ontime1	4590.6783211231	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	4590.6372810602	Sum of GTIs [s]
			ontime3	4590.8014410734	Sum of GTIs [s]
			ontime5	4590.5962411165	Sum of GTIs [s]
			ontime7	4590.7604011297	Sum of GTIs [s]
			l1events	519772	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	86364	91867	96205	99737	76142	69457	grade 0 events	8299	6662	7408	7402	4439	3526
rejected events	70539	76633	81921	85023	43688	41561		9%	7%	7%	7%	5%	5%
rejected %	81%	83%	85%	85%	57%	59%	grade 1 events	38	29	38	33	457	52
								0%	0%	0%	0%	0%	0%
							grade 2 events	3686	4623	3325	3500	11597	7367
								4%	5%	3%	3%	15%	10%
							grade 3 events	945	889	954	1001	894	2053
								1%	0%	0%	1%	1%	2%
							grade 4 events	997	888	937	989	918	1991
								1%	0%	0%	0%	1%	2%
							grade 5 events	1524	1419	1476	1776	3192	3933
								1%	1%	1%	1%	4%	5%
							grade 6 events	2800	3073	2559	2734	15798	14169
								3%	3%	2%	2%	20%	20%
							grade 7 events	68075	74284	79508	82302	38847	36366
								78%	80%	82%	82%	51%	52%

## 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	82.6730030406211
[deg] Pointing Dec	0	22.91126541505273
[deg] Pointing Roll	0.0	89.55724657925184
SIM focus pos (mm)	-0.68282252473119	-0.68282252473119
[mm] SIM defocus	0.8505140384245534	0.8505140384245534
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	557019583.742409	557019583.742409
Observation start date	2015-08-26T23:39:44	2015-08-26T23:39:43
[s] Observation end time (MET)	557025431.91767	557025431.91767
Observation end date	2015-08-27T01:17:12	2015-08-27T01:17:11
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	Jen Lauer
V&V Date (YYYY-MM-DD)	2015.08.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.5907604011297

### A.2 Comments