

# V&V Reference Report

## L2 ASCDS Version : 10.4.2.1

Observation 51516 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Nov 9 2015

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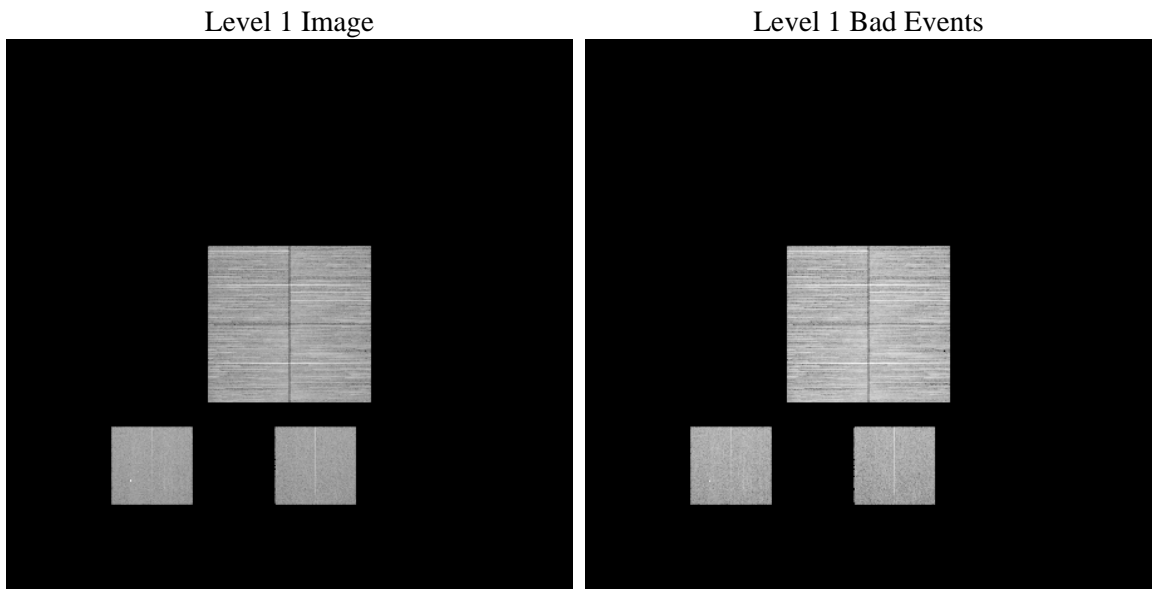
# 1 Front

seq_num	&#160	Sequence number
obs_id	51516	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	47.176804096529	Nominal RA [deg]
dec_nom	-9.0178664279065	Nominal Dec [deg]
roll_nom	6.7936871535663	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8447.8770092726	Sum of GTIs [s]
livetime	8340.9049038803	Livetime [s]
ontime0	8447.9180594683	Sum of GTIs [s]
ontime1	8447.9591195583	Sum of GTIs [s]
ontime2	8448.000125885	Sum of GTIs [s]
ontime3	8447.835999608	Sum of GTIs [s]
ontime5	8448.000125885	Sum of GTIs [s]
ontime7	8447.8770092726	Sum of GTIs [s]
l2events	174393	Number of level 2 events

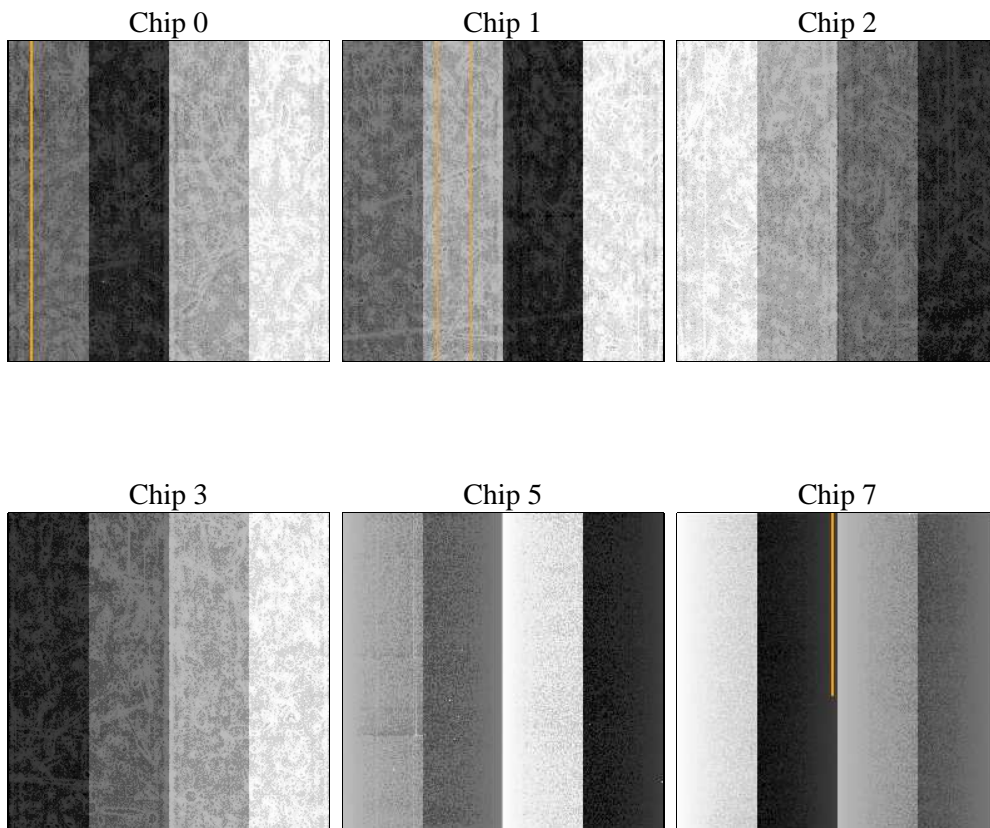
## 2 OBI

### 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	10.4.2.1	Processing system revision	ontime	8447.8770092726	Sum of GTIs [s]
caldsver	4.6.10a	&#160	ontime0	8447.9180594683	Sum of GTIs [s]
date	2015-11-09T22:02:43	Date and time of file creation	ontime1	8447.9591195583	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8448.000125885	Sum of GTIs [s]
			ontime3	8447.835999608	Sum of GTIs [s]
			ontime5	8448.000125885	Sum of GTIs [s]
			ontime7	8447.8770092726	Sum of GTIs [s]
			l1events	902639	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	152621	163854	167518	165915	129532	123199	grade 0 events	9473	8675	10028	10012	3755	4966
rejected events	131843	142600	146770	144785	77036	75320		6%	5%	5%	6%	2%	4%
rejected %	86%	87%	87%	87%	59%	61%	grade 1 events	55	41	50	50	156	86
								0%	0%	0%	0%	0%	0%
							grade 2 events	4909	5919	4487	4592	18610	11955
								3%	3%	2%	2%	14%	9%
							grade 3 events	1440	1306	1500	1495	1513	3319
								0%	0%	0%	0%	1%	2%
							grade 4 events	1352	1320	1438	1498	1357	3277
								0%	0%	0%	0%	1%	2%
							grade 5 events	2819	2812	2608	3199	5524	7179
								1%	1%	1%	1%	4%	5%
							grade 6 events	3604	4034	3295	3533	27261	24362
								2%	2%	1%	2%	21%	19%
							grade 7 events	128969	139747	144112	141536	71356	68055
								84%	85%	86%	85%	55%	55%

## 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	47.17680409652908
[deg] Pointing Dec	0	-9.017866427906487
[deg] Pointing Roll	0.0	6.793687153566335
[mm] SIM focus pos	-1.429586	-0.7809083437167272
[mm] SIM defocus	0.1037507710433287	0.7524282956875696
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	563456824.745211	563456823.72021
Observation start date	2015-11-09T11:47:05	2015-11-09T11:47:03
[s] Observation end time (MET)	563470024.695958	563470023.6709599
Observation end date	2015-11-09T15:27:05	2015-11-09T15:27:03
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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)	2015.11.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4478770092726

### A.2 Comments