

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 51218 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Feb 28 2016

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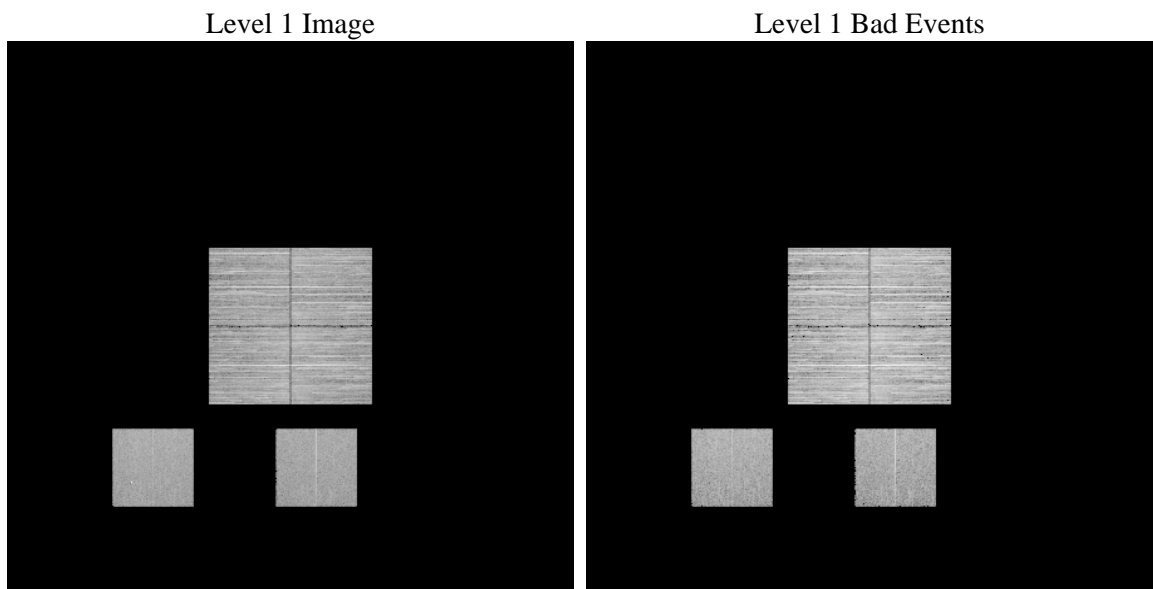
# 1 Front

seq_num	&#160	Sequence number
obs_id	51218	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	323.51960033209	Nominal RA [deg]
dec_nom	36.024048705896	Nominal Dec [deg]
roll_nom	23.746378933348	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5973.6828507185	Sum of GTIs [s]
livetime	5898.0404815427	Livetime [s]
ontime0	5973.6418106556	Sum of GTIs [s]
ontime1	5973.6007707119	Sum of GTIs [s]
ontime2	5973.559730649	Sum of GTIs [s]
ontime3	5973.7238906622	Sum of GTIs [s]
ontime5	5973.5186907053	Sum of GTIs [s]
ontime7	5973.6828507185	Sum of GTIs [s]
l2events	131185	Number of level 2 events

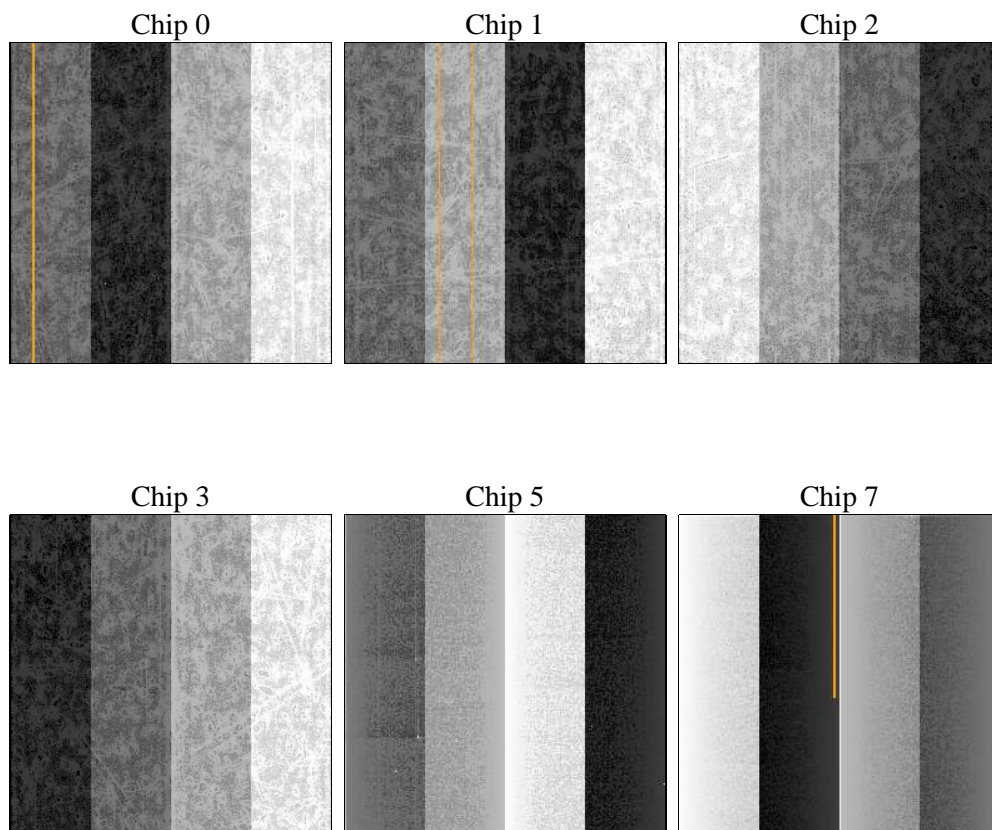
## 2 OBI

### 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	10.4.3.1	Processing system revision	ontime	5973.6828507185	Sum of GTIs [s]
caldsver	4.7.0	&#160	ontime0	5973.6418106556	Sum of GTIs [s]
date	2016-02-28T23:12:52	Date and time of file creation	ontime1	5973.6007707119	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5973.559730649	Sum of GTIs [s]
			ontime3	5973.7238906622	Sum of GTIs [s]
			ontime5	5973.5186907053	Sum of GTIs [s]
			ontime7	5973.6828507185	Sum of GTIs [s]
			l1events	682785	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	116306	124868	121300	125719	100431	94161	grade 0 events	6903	6629	7172	7166	2794	4076
rejected events	101488	109599	106216	110776	59411	57022		5%	5%	5%	5%	2%	4%
rejected %	87%	87%	87%	88%	59%	60%	grade 1 events	39	37	48	49	126	77
								0%	0%	0%	0%	0%	0%
							grade 2 events	3361	3704	3248	3102	14958	9235
								2%	2%	2%	2%	14%	9%
							grade 3 events	1063	1032	1083	1090	1111	2700
								0%	0%	0%	0%	1%	2%
							grade 4 events	1009	1029	1117	1132	1093	2688
								0%	0%	0%	0%	1%	2%
							grade 5 events	2281	2223	2157	2557	4556	5845
								1%	1%	1%	2%	4%	6%
							grade 6 events	2490	2885	2470	2462	21075	18472
								2%	2%	2%	1%	20%	19%
							grade 7 events	99160	107329	104005	108161	54718	51068
								85%	85%	85%	86%	54%	54%

## 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	323.5196003320916	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	36.02404870589605	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	23.74637893334768	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-0.6828225247311905			
[mm] SIM defocus	0.1037507710433287	0.8505141146731063			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	573052897.839797	573052896.8148			
Observation start date	2016-02-28T13:21:38	2016-02-28T13:21:36			
[s] Observation end time (MET)	573062186.390326	573062185.36533			
Observation end date	2016-02-28T15:56:26	2016-02-28T15:56:25			
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)	2016.02.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.9736828507185

### **A.2 Comments**