

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 51101 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Apr 14 2016

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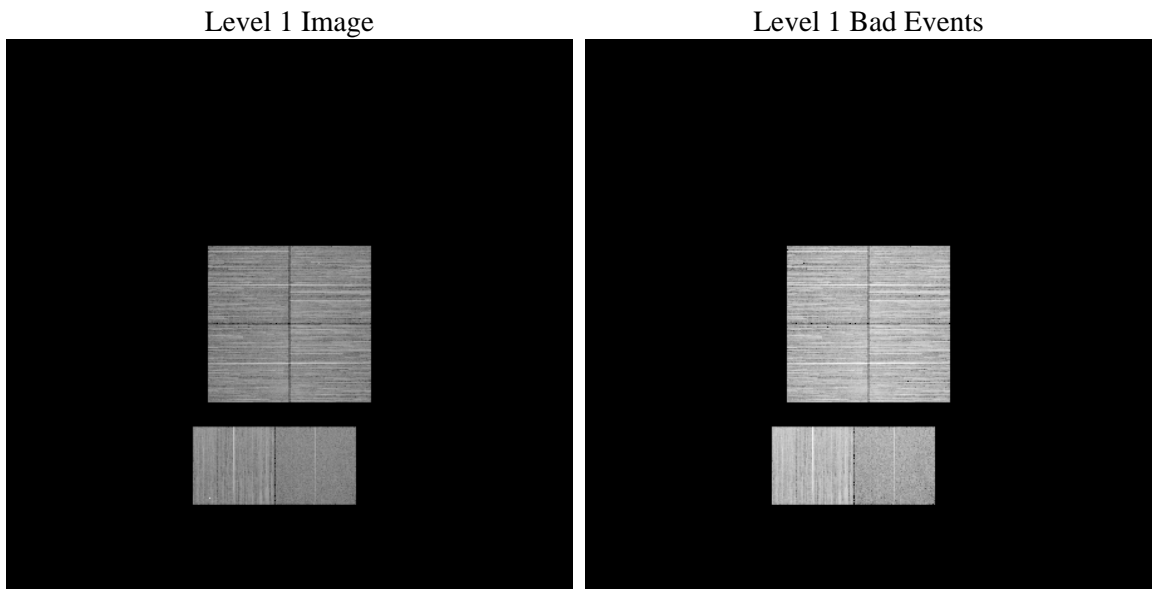
# 1 Front

seq_num	&#160	Sequence number
obs_id	51101	Observation id
title	ACIS-012367 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	13.837979478742	Nominal RA [deg]
dec_nom	56.919974535281	Nominal Dec [deg]
roll_nom	11.034851647687	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6985.4713557959	Sum of GTIs [s]
livetime	6897.0171113429	Livetime [s]
ontime0	6985.430315733	Sum of GTIs [s]
ontime1	6985.3892757893	Sum of GTIs [s]
ontime2	6985.3482357264	Sum of GTIs [s]
ontime3	6985.5123957396	Sum of GTIs [s]
ontime6	6985.3071957827	Sum of GTIs [s]
ontime7	6985.4713557959	Sum of GTIs [s]
l2events	123271	Number of level 2 events

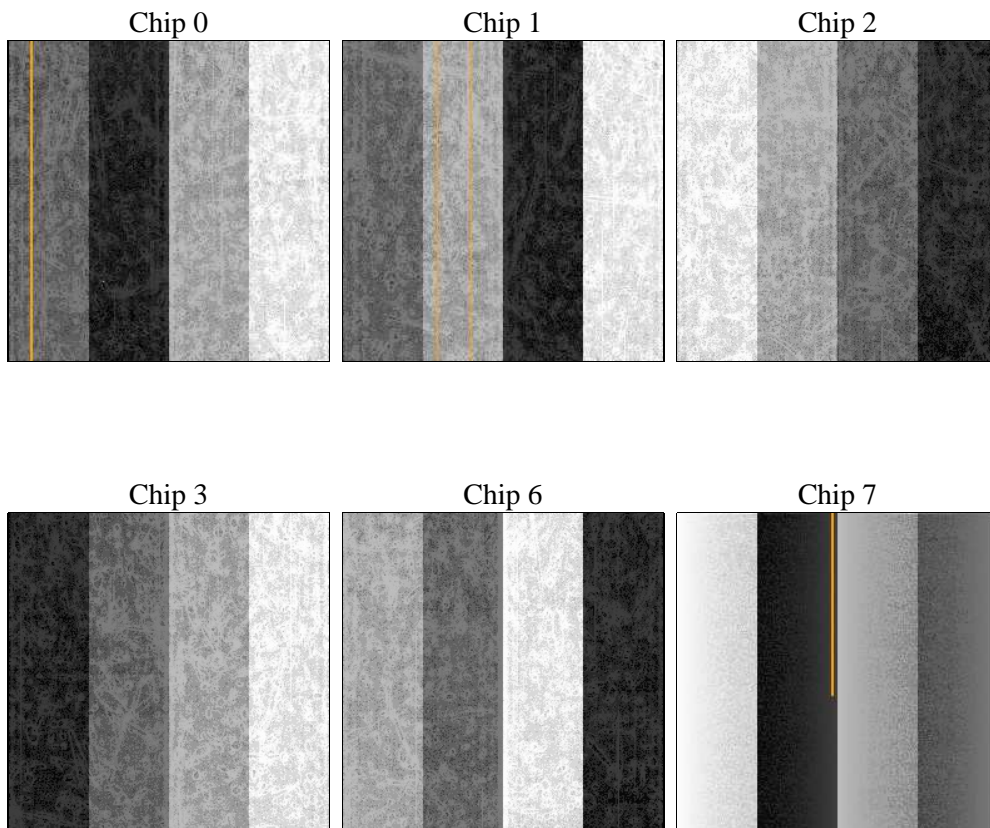
## 2 OBI

### 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	6985.4713557959	Sum of GTIs [s]
caldbver	4.7.1	&#160	ontime0	6985.430315733	Sum of GTIs [s]
date	2016-04-14T10:13:18	Date and time of file creation	ontime1	6985.3892757893	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	6985.3482357264	Sum of GTIs [s]
			ontime3	6985.5123957396	Sum of GTIs [s]
			ontime6	6985.3071957827	Sum of GTIs [s]
			ontime7	6985.4713557959	Sum of GTIs [s]
			l1events	841147	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	131649	146631	142069	158031	152919	109848	grade 0 events	7945	7716	8502	8418	10140	4765
rejected events	114396	128912	124708	140511	132851	66247		6%	5%	5%	5%	6%	4%
rejected %	86%	87%	87%	88%	86%	60%	grade 1 events	55	46	60	62	47	80
								0%	0%	0%	0%	0%	0%
							grade 2 events	3852	4276	3607	3600	4113	10795
								2%	2%	2%	2%	2%	9%
							grade 3 events	1210	1205	1205	1302	1157	3163
								0%	0%	0%	0%	0%	2%
							grade 4 events	1232	1195	1265	1279	1187	3176
								0%	0%	0%	0%	0%	2%
							grade 5 events	2635	2744	2553	2957	2850	7101
								2%	1%	1%	1%	1%	6%
							grade 6 events	3021	3332	2792	2929	3482	21717
								2%	2%	1%	1%	2%	19%
							grade 7 events	111699	126117	122085	137484	129943	59051
								84%	86%	85%	86%	84%	53%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	13.83797947874223	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	56.91997453528072	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	11.03485164768706	[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)	576938250.697214	576938249.67221			
Observation start date	2016-04-13T12:37:31	2016-04-13T12:37:29			
[s] Observation end time (MET)	576947408.047737	576947407.02274			
Observation end date	2016-04-13T15:10:08	2016-04-13T15:10:07			
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)	2016.04.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.9854713557959

### A.2 Comments