

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 51116 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Apr 8 2016

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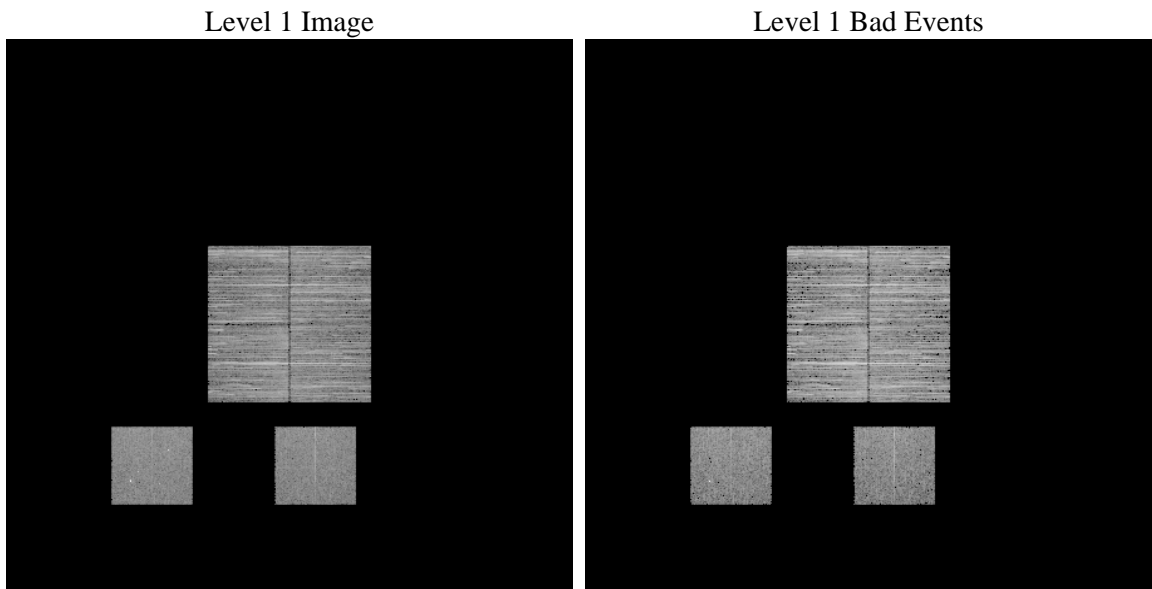
# 1 Front

seq_num	&#160	Sequence number
obs_id	51116	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	346.0097211486	Nominal RA [deg]
dec_nom	47.028480067409	Nominal Dec [deg]
roll_nom	44.000789238244	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3454.9102277756	Sum of GTIs [s]
livetime	3411.1620741743	Livetime [s]
ontime0	3457.9072362185	Sum of GTIs [s]
ontime1	3457.8661962748	Sum of GTIs [s]
ontime2	3457.8251562119	Sum of GTIs [s]
ontime3	3454.9103273153	Sum of GTIs [s]
ontime5	3457.7841162682	Sum of GTIs [s]
ontime7	3454.9102277756	Sum of GTIs [s]
l2events	77554	Number of level 2 events

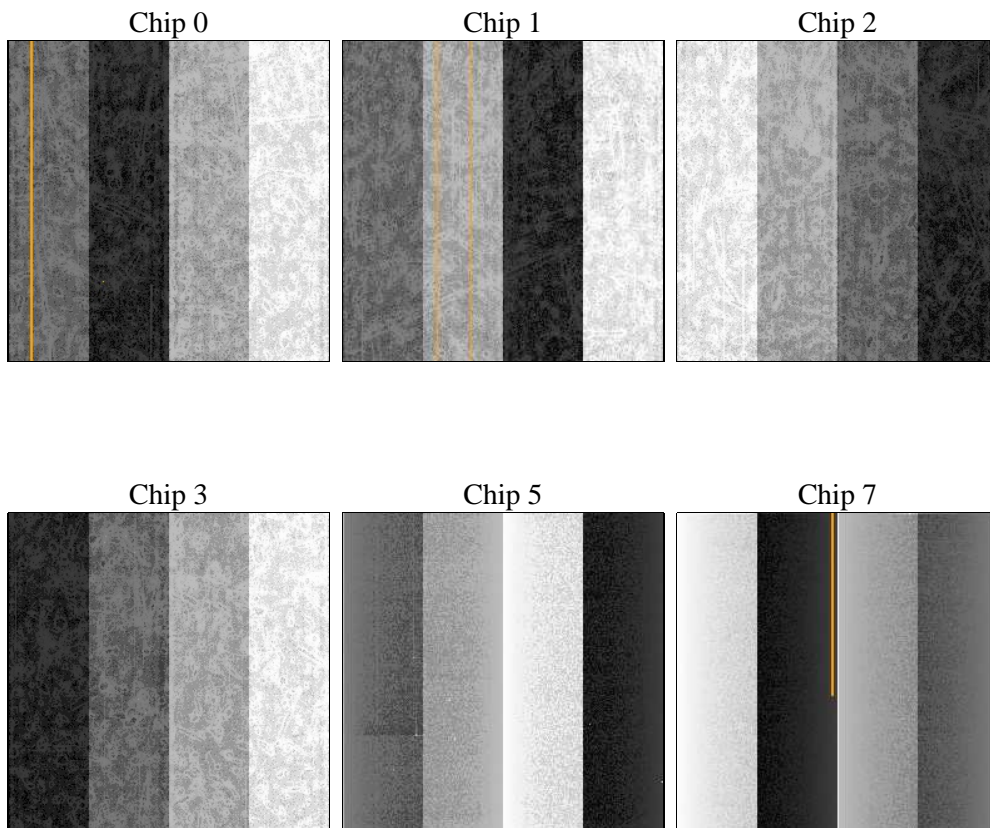
## 2 OBI

### 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	3454.9102277756	Sum of GTIs [s]
caldbver	4.7.1	&#160	ontime0	3457.9072362185	Sum of GTIs [s]
date	2016-04-08T20:12:52	Date and time of file creation	ontime1	3457.8661962748	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	3457.8251562119	Sum of GTIs [s]
			ontime3	3454.9103273153	Sum of GTIs [s]
			ontime5	3457.7841162682	Sum of GTIs [s]
			ontime7	3454.9102277756	Sum of GTIs [s]
			l1events	409096	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	72236	73372	75325	70669	61321	56173	grade 0 events	4055	3835	4301	4249	2219	2368
rejected events	63493	64490	66381	61965	35886	34062		5%	5%	5%	6%	3%	4%
rejected %	87%	87%	88%	87%	58%	60%	grade 1 events	34	18	30	31	66	57
								0%	0%	0%	0%	0%	0%
							grade 2 events	2004	2087	1934	1774	9340	5543
								2%	2%	2%	2%	15%	9%
							grade 3 events	608	622	602	609	725	1596
								0%	0%	0%	0%	1%	2%
							grade 4 events	601	607	657	654	697	1571
								0%	0%	0%	0%	1%	2%
							grade 5 events	1388	1386	1319	1478	2823	3548
								1%	1%	1%	2%	4%	6%
							grade 6 events	1475	1731	1450	1418	12454	11033
								2%	2%	1%	2%	20%	19%
							grade 7 events	62071	63086	65032	60456	32997	30457
								85%	85%	86%	85%	53%	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	346.009721148598	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	47.02848006740857	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	44.00078923824383	[s] Primary exposure time	3.2	3.2
[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)	576482619.721197	576482618.6962			
Observation start date	2016-04-08T06:03:40	2016-04-08T06:03:38			
[s] Observation end time (MET)	576489056.721565	576489055.69656			
Observation end date	2016-04-08T07:50:57	2016-04-08T07:50:55			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.04.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.4549102277756

### A.2 Comments