

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 51121 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Apr 8 2016

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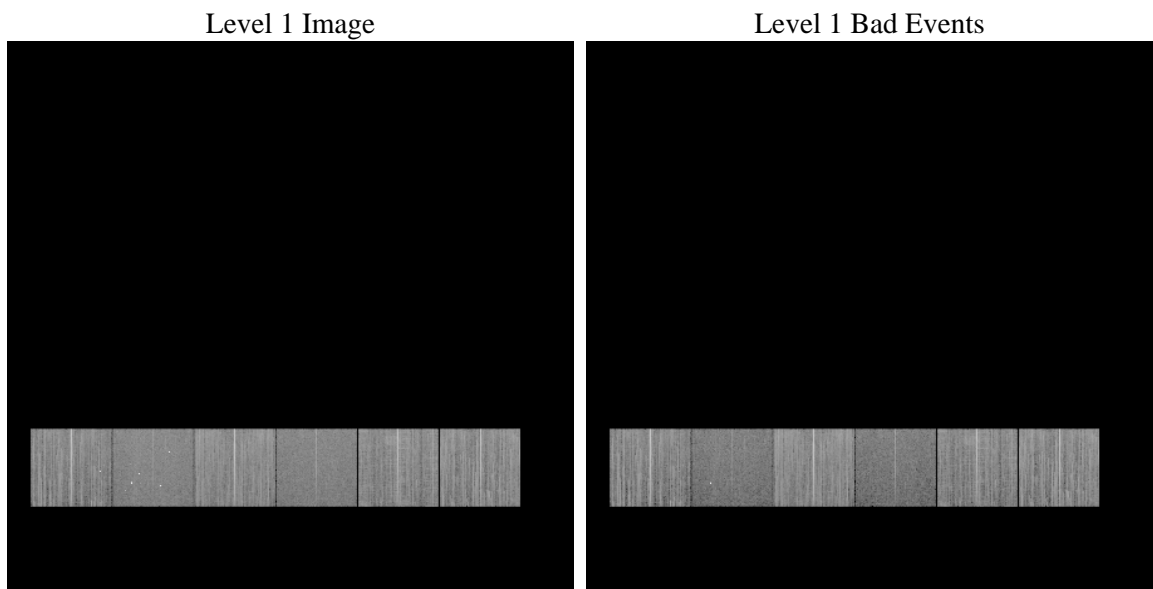
# 1 Front

seq_num	&#160	Sequence number
obs_id	51121	Observation id
title	ACIS-456789 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	210.47004946677	Nominal RA [deg]
dec_nom	12.930859511854	Nominal Dec [deg]
roll_nom	144.88599410679	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8273.987105608	Sum of GTIs [s]
livetime	8169.2168988799	Livetime [s]
ontime4	8273.8639855385	Sum of GTIs [s]
ontime5	8273.9460655451	Sum of GTIs [s]
ontime6	8273.9050256014	Sum of GTIs [s]
ontime7	8273.987105608	Sum of GTIs [s]
ontime8	8273.8229455948	Sum of GTIs [s]
ontime9	8274.0281455517	Sum of GTIs [s]
l2events	182289	Number of level 2 events

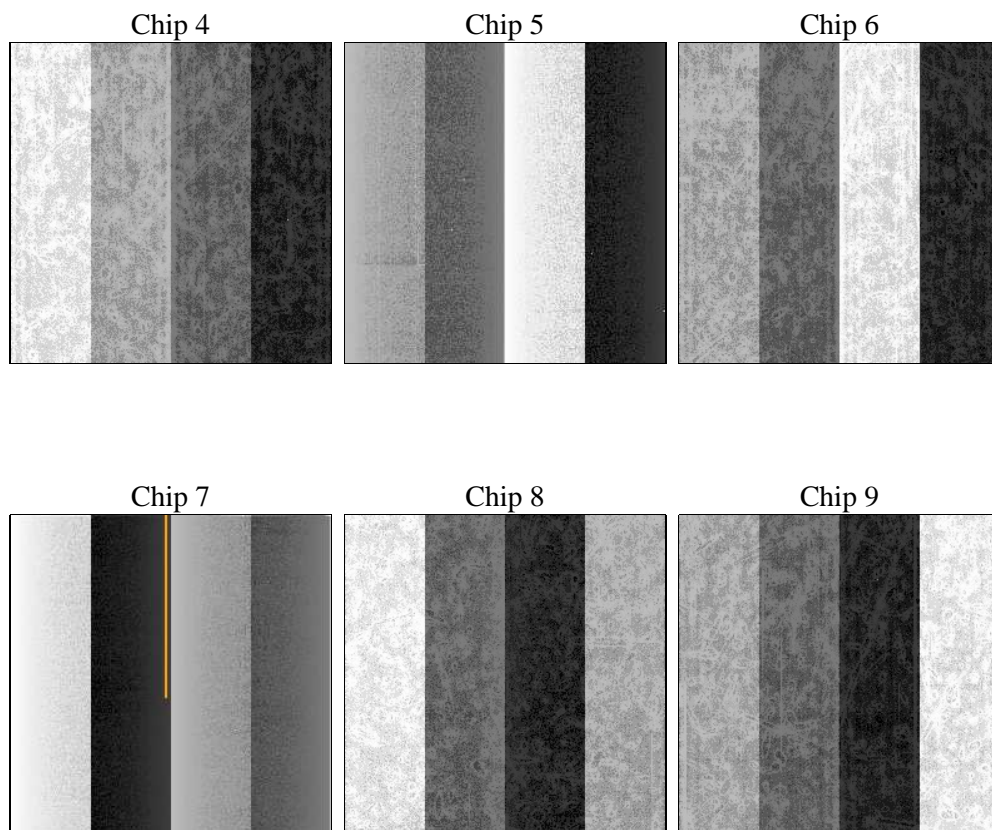
## 2 OBI

### 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	8273.987105608	Sum of GTIs [s]
caldsver	4.7.1	&#160	ontime4	8273.8639855385	Sum of GTIs [s]
date	2016-04-08T19:38:58	Date and time of file creation	ontime5	8273.9460655451	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8273.9050256014	Sum of GTIs [s]
			ontime7	8273.987105608	Sum of GTIs [s]
			ontime8	8273.8229455948	Sum of GTIs [s]
			ontime9	8274.0281455517	Sum of GTIs [s]
			l1events	1027636	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	173618	154672	193750	133377	179874	192345	grade 0 events	12373	10910	9226	5428	12683	9389
rejected events	150916	89480	172895	81841	147560	171715		7%	7%	4%	4%	7%	4%
rejected %	86%	57%	89%	61%	82%	89%	grade 1 events	102	175	46	106	77	79
								0%	0%	0%	0%	0%	0%
							grade 2 events	4242	20887	4836	12897	7363	4486
								2%	13%	2%	9%	4%	2%
							grade 3 events	1511	1706	1434	3721	2693	1555
								0%	1%	0%	2%	1%	0%
							grade 4 events	1555	1646	1417	3514	2457	1481
								0%	1%	0%	2%	1%	0%
							grade 5 events	3633	6839	3538	8621	4812	4048
								2%	4%	1%	6%	2%	2%
							grade 6 events	3021	30043	3942	25976	7118	3719
								1%	19%	2%	19%	3%	1%
							grade 7 events	147181	82466	169311	73114	142671	167588
								84%	53%	87%	54%	79%	87%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	210.4700494667739	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	12.93085951185374	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	144.8859941067861	[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)	576438987.5187041	576438986.4937			
Observation start date	2016-04-07T17:56:28	2016-04-07T17:56:26			
[s] Observation end time (MET)	576450410.119357	576450409.09436			
Observation end date	2016-04-07T21:06:50	2016-04-07T21:06:49			
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)	2016.04.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.273987105608

### A.2 Comments