

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 51052 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 5 2016

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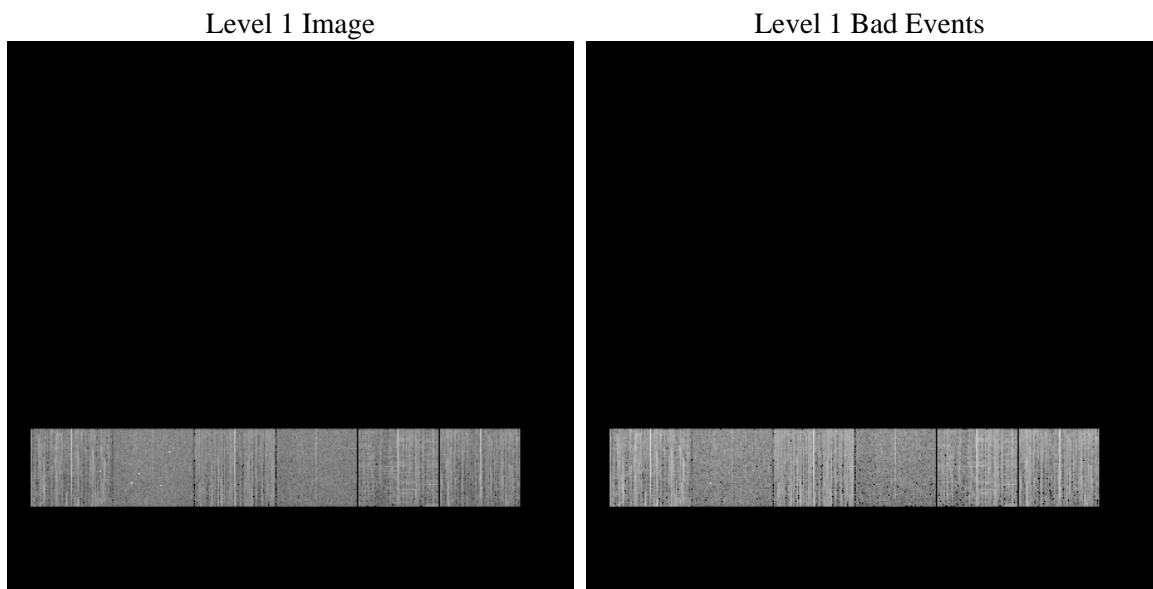
# 1 Front

seq_num	&#160	Sequence number
obs_id	51052	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	218.17730003051	Nominal RA [deg]
dec_nom	13.439633348818	Nominal Dec [deg]
roll_nom	187.43404296753	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3420.8000509739	Sum of GTIs [s]
livetime	3377.48382097	Livetime [s]
ontime4	3420.8000509739	Sum of GTIs [s]
ontime5	3420.8000509739	Sum of GTIs [s]
ontime6	3420.8000509739	Sum of GTIs [s]
ontime7	3420.8000509739	Sum of GTIs [s]
ontime8	3420.8000509739	Sum of GTIs [s]
ontime9	3420.8000509739	Sum of GTIs [s]
l2events	77218	Number of level 2 events

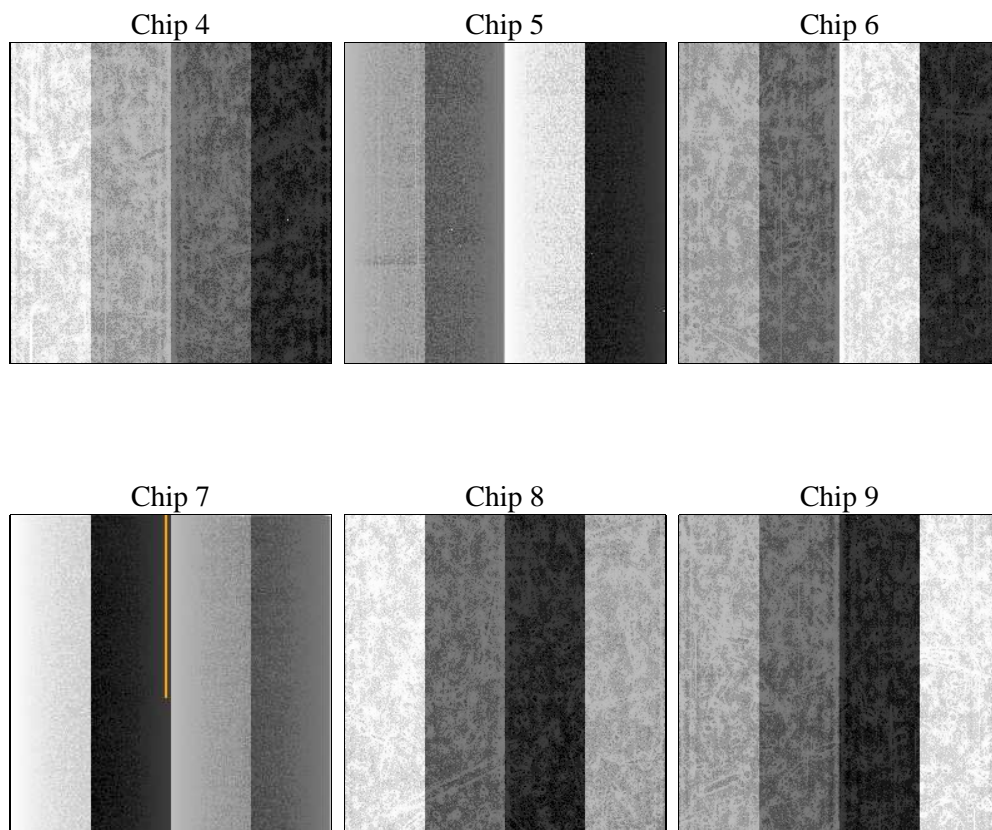
## 2 OBI

### 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	3420.8000509739	Sum of GTIs [s]
caldbver	4.7.1	&#160	ontime4	3420.8000509739	Sum of GTIs [s]
date	2016-05-05T12:32:12	Date and time of file creation	ontime5	3420.8000509739	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3420.8000509739	Sum of GTIs [s]
			ontime7	3420.8000509739	Sum of GTIs [s]
			ontime8	3420.8000509739	Sum of GTIs [s]
			ontime9	3420.8000509739	Sum of GTIs [s]
			l1events	419051	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	76752	63652	77681	55026	74337	71603	grade 0 events	4669	4355	3648	2229	5347	4007
rejected events	67550	36397	68741	33523	60362	62691		6%	6%	4%	4%	7%	5%
rejected %	88%	57%	88%	60%	81%	87%	grade 1 events	39	88	18	35	33	29
								0%	0%	0%	0%	0%	0%
							grade 2 events	1859	9065	2336	5438	3226	1971
								2%	14%	3%	9%	4%	2%
							grade 3 events	713	660	571	1412	1089	635
								0%	1%	0%	2%	1%	0%
							grade 4 events	638	589	560	1508	1044	630
								0%	0%	0%	2%	1%	0%
							grade 5 events	1552	2851	1306	3360	1961	1623
								2%	4%	1%	6%	2%	2%
							grade 6 events	1323	12586	1825	10916	3269	1669
								1%	19%	2%	19%	4%	2%
							grade 7 events	65959	33458	67417	30128	58368	61039
								85%	52%	86%	54%	78%	85%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	218.17730003051
[deg] Pointing Dec	0	13.43963334881837
[deg] Pointing Roll	0.0	187.4340429675293
[mm] SIM focus pos	-1.429586	-1.428180813131781
[mm] SIM defocus	0.1037507710433287	0.1051558262725154
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	578770149.25193	578770148.22693
Observation start date	2016-05-04T17:29:09	2016-05-04T17:29:08
[s] Observation end time (MET)	578774222.602163	578774221.57716
Observation end date	2016-05-04T18:37:03	2016-05-04T18:37:01
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	Jen Lauer
V&V Date (YYYY-MM-DD)	2016.05.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.4208000509739

### A.2 Comments