

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 51211 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Mar 9 2016

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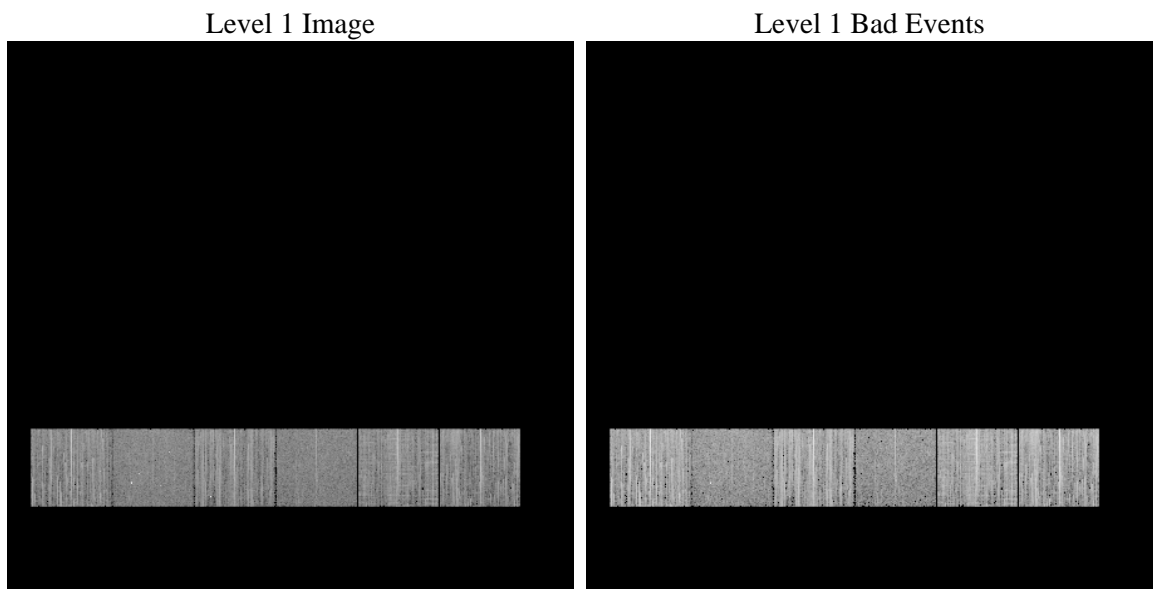
# 1 Front

seq_num	&#160	Sequence number
obs_id	51211	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	138.51796700011	Nominal RA [deg]
dec_nom	2.9774181780969	Nominal Dec [deg]
roll_nom	275.47653234082	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3292.8000490665	Sum of GTIs [s]
livetime	3251.1046321591	Livetime [s]
ontime4	3292.8000490665	Sum of GTIs [s]
ontime5	3292.8000490665	Sum of GTIs [s]
ontime6	3292.8000490665	Sum of GTIs [s]
ontime7	3292.8000490665	Sum of GTIs [s]
ontime8	3292.8000490665	Sum of GTIs [s]
ontime9	3292.8000490665	Sum of GTIs [s]
l2events	71980	Number of level 2 events

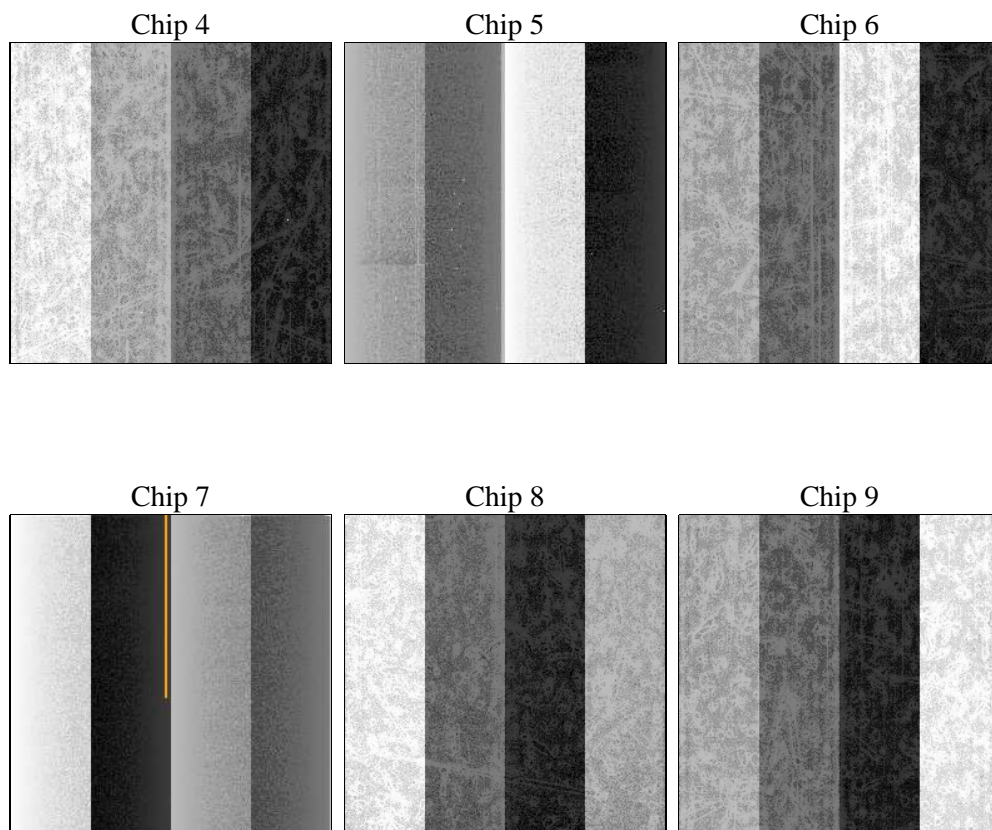
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	3292.8000490665	Sum of GTIs [s]
caldbver	4.7.0	&#160	ontime4	3292.8000490665	Sum of GTIs [s]
date	2016-03-09T08:51:13	Date and time of file creation	ontime5	3292.8000490665	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3292.8000490665	Sum of GTIs [s]
			ontime7	3292.8000490665	Sum of GTIs [s]
			ontime8	3292.8000490665	Sum of GTIs [s]
			ontime9	3292.8000490665	Sum of GTIs [s]
			l1events	419271	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	75951	59388	76497	53714	78422	75299	grade 0 events	4268	2209	4707	2150	5032	3979
rejected events	67719	35856	67136	33615	65489	66838		5%	3%	6%	4%	6%	5%
rejected %	89%	60%	87%	62%	83%	88%	grade 1 events	53	148	25	29	33	31
								0%	0%	0%	0%	0%	0%
							grade 2 events	1776	8764	2263	5385	3214	2000
								2%	14%	2%	10%	4%	2%
							grade 3 events	634	669	526	1481	1070	640
								0%	1%	0%	2%	1%	0%
							grade 4 events	627	632	603	1450	939	629
								0%	1%	0%	2%	1%	0%
							grade 5 events	1491	2704	1344	3379	1931	1530
								1%	4%	1%	6%	2%	2%
							grade 6 events	1253	12233	1696	10496	3184	1583
								1%	20%	2%	19%	4%	2%
							grade 7 events	65849	32029	65333	29344	63019	64907
								86%	53%	85%	54%	80%	86%

## 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	138.5179670001051
[deg] Pointing Dec	0	2.977418178096912
[deg] Pointing Roll	0.0	275.4765323408159
SIM focus pos (mm)	-0.68282252473119	-0.68282252473119
[mm] SIM defocus	0.8505140384245534	0.8505140384245534
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	573702813.4125071	573702813.4125071
Observation start date	2016-03-07T01:53:33	2016-03-07T01:53:33
[s] Observation end time (MET)	573707545.302967	573707545.302967
Observation end date	2016-03-07T03:12:25	2016-03-07T03:12:25
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
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	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.03.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2928000490665

### A.2 Comments