

# V&V Reference Report

## L2 ASCDS Version : 10.4.3

Observation 51399 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Dec 21 2015

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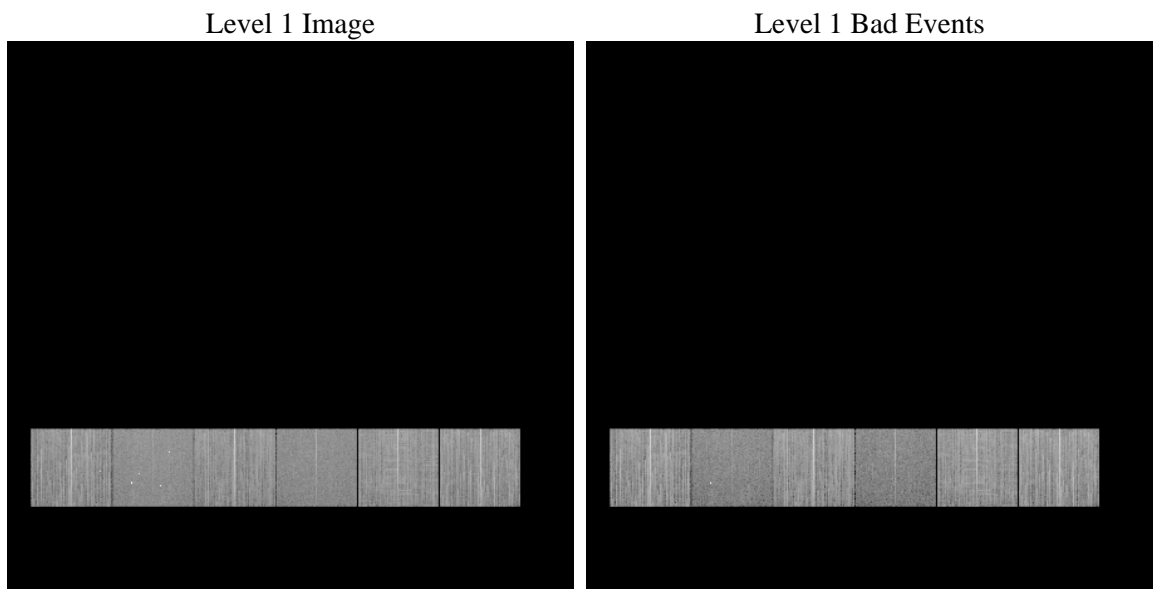
# 1 Front

seq_num	&#160	Sequence number
obs_id	51399	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	102.47732196948	Nominal RA [deg]
dec_nom	31.011889064929	Nominal Dec [deg]
roll_nom	118.60485736745	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8277.8734186888	Sum of GTIs [s]
livetime	8173.0540011244	Livetime [s]
ontime4	8277.7502986193	Sum of GTIs [s]
ontime5	8277.8323786259	Sum of GTIs [s]
ontime6	8277.7913386822	Sum of GTIs [s]
ontime7	8277.8734186888	Sum of GTIs [s]
ontime8	8277.7092586756	Sum of GTIs [s]
ontime9	8277.9144586325	Sum of GTIs [s]
l2events	179472	Number of level 2 events

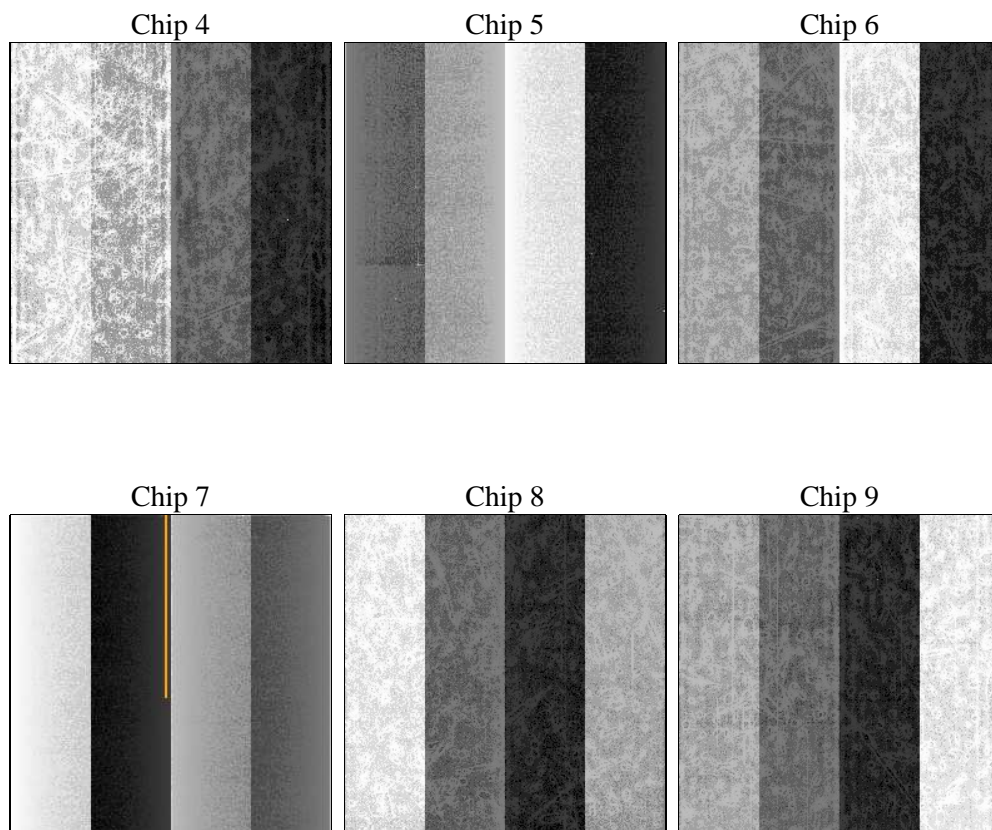
## 2 OBI

### 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	Processing system revision	ontime	8277.8734186888	Sum of GTIs [s]
caldsver	4.7.0	&#160	ontime4	8277.7502986193	Sum of GTIs [s]
date	2015-12-21T22:57:19	Date and time of file creation	ontime5	8277.8323786259	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8277.7913386822	Sum of GTIs [s]
			ontime7	8277.8734186888	Sum of GTIs [s]
			ontime8	8277.7092586756	Sum of GTIs [s]
			ontime9	8277.9144586325	Sum of GTIs [s]
			l1events	918079	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	160800	138277	159596	120840	169120	169446	grade 0 events	11119	7440	9968	5786	12998	9995
rejected events	139185	79756	138044	71301	136765	148179		6%	5%	6%	4%	7%	5%
rejected %	86%	57%	86%	59%	80%	87%	grade 1 events	97	127	60	84	82	74
								0%	0%	0%	0%	0%	0%
							grade 2 events	4311	20353	4661	12237	7061	4458
								2%	14%	2%	10%	4%	2%
							grade 3 events	1543	1914	1548	3950	2670	1515
								0%	1%	0%	3%	1%	0%
							grade 4 events	1622	1714	1512	3847	2588	1529
								1%	1%	0%	3%	1%	0%
							grade 5 events	3186	6886	3376	8115	4480	3673
								1%	4%	2%	6%	2%	2%
							grade 6 events	3029	27116	3868	23739	7047	3785
								1%	19%	2%	19%	4%	2%
							grade 7 events	135893	72727	134603	63082	132194	144417
								84%	52%	84%	52%	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	102.4773219694814
[deg] Pointing Dec	0	31.01188906492948
[deg] Pointing Roll	0.0	118.6048573674473
[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)	567071546.900052	567071545.8750499
Observation start date	2015-12-21T07:52:27	2015-12-21T07:52:25
[s] Observation end time (MET)	567090890.701149	567090889.67615
Observation end date	2015-12-21T13:14:51	2015-12-21T13:14:49
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	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.12.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2778734186888

### A.2 Comments