

# V&V Reference Report

## L2 ASCDS Version : 10.4.2.1

Observation 51532 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Nov 1 2015

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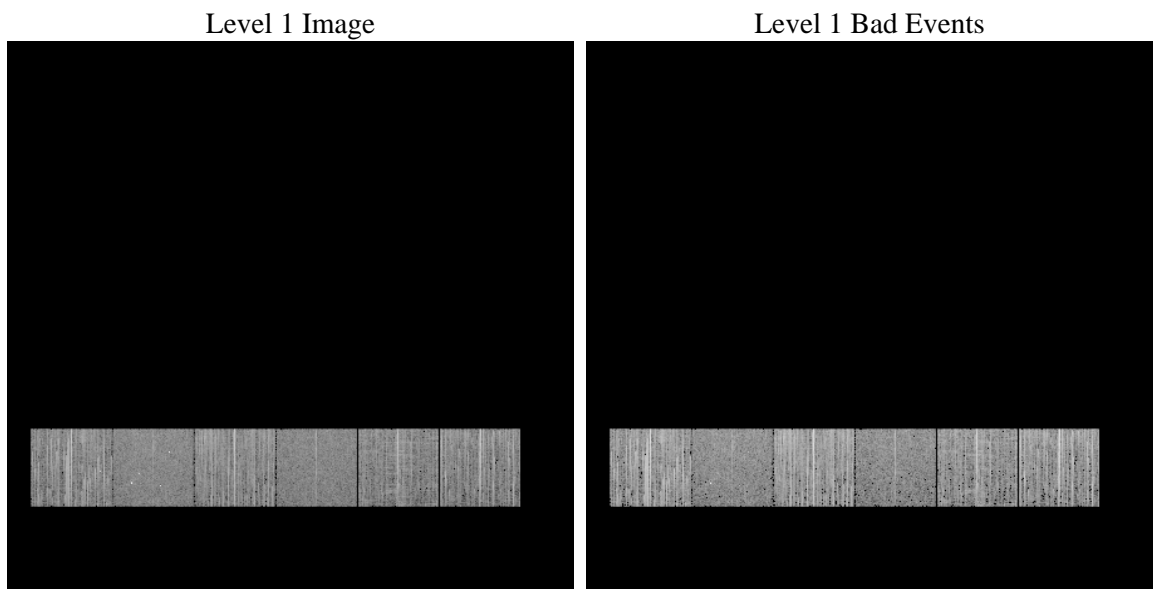
# 1 Front

seq_num	&#160	Sequence number
obs_id	51532	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	37.723752573988	Nominal RA [deg]
dec_nom	-10.082266378435	Nominal Dec [deg]
roll_nom	4.5330038626106	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3068.8000457287	Sum of GTIs [s]
livetime	3029.9410517401	Livetime [s]
ontime4	3068.8000457287	Sum of GTIs [s]
ontime5	3068.8000457287	Sum of GTIs [s]
ontime6	3068.8000457287	Sum of GTIs [s]
ontime7	3068.8000457287	Sum of GTIs [s]
ontime8	3068.8000457287	Sum of GTIs [s]
ontime9	3068.8000457287	Sum of GTIs [s]
l2events	65530	Number of level 2 events

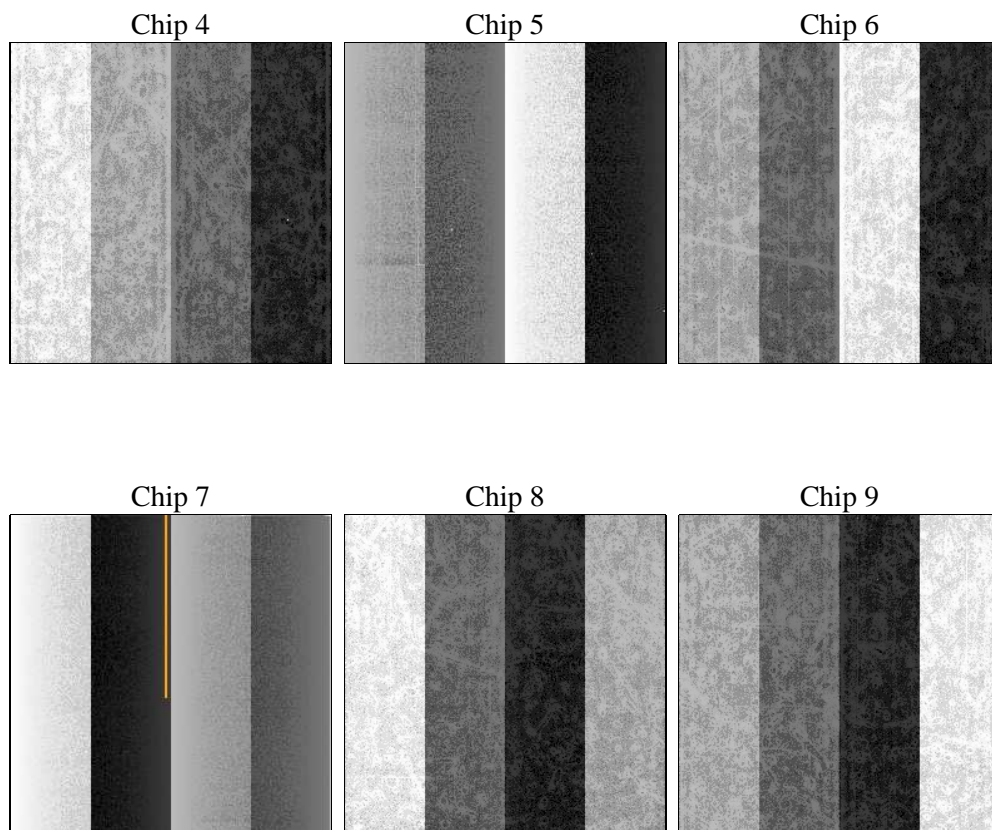
## 2 OBI

### 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	10.4.2.1	Processing system revision	ontime	3068.8000457287	Sum of GTIs [s]
caldsver	4.6.10a	&#160	ontime4	3068.8000457287	Sum of GTIs [s]
date	2015-11-01T21:25:29	Date and time of file creation	ontime5	3068.8000457287	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	3068.8000457287	Sum of GTIs [s]
			ontime7	3068.8000457287	Sum of GTIs [s]
			ontime8	3068.8000457287	Sum of GTIs [s]
			ontime9	3068.8000457287	Sum of GTIs [s]
			l1events	359051	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	70252	53718	68132	47721	55530	63698	grade 0 events	4612	3012	3695	2214	5013	3864
rejected events	61938	32290	60190	29802	43893	55777		6%	5%	5%	4%	9%	6%
rejected %	88%	60%	88%	62%	79%	87%	grade 1 events	40	74	24	35	45	24
								0%	0%	0%	0%	0%	0%
							grade 2 events	1774	7815	2062	4666	2792	1850
								2%	14%	3%	9%	5%	2%
							grade 3 events	594	626	538	1315	986	557
								0%	1%	0%	2%	1%	0%
							grade 4 events	630	593	481	1309	964	615
								0%	1%	0%	2%	1%	0%
							grade 5 events	1293	2491	1198	3000	1647	1392
								1%	4%	1%	6%	2%	2%
							grade 6 events	1223	10652	1632	9475	2672	1512
								1%	19%	2%	19%	4%	2%
							grade 7 events	60086	28455	58502	25707	41411	53884
								85%	52%	85%	53%	74%	84%

## 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	OVERRIDE	OVERRIDE
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	37.72375257398821	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-10.0822663784346	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	4.53300386261056	[s] Primary exposure time	3.2	3.2
SIM focus pos (mm)	-1.4281808131	-1.4281808131			
[mm] SIM defocus	0.1051557500557434	0.1051557500557434			
SIM translation stage pos (mm)	250.4635187649	250.4635187649			
[mm] SIM translation stage offset	-0.007542945905271381	-0.007542945905271381			
[s] Observation start time (MET)	562734142.304317	562734142.304317			
Observation start date	2015-11-01T03:02:22	2015-11-01T03:02:22			
[s] Observation end time (MET)	562738689.165964	562738689.165964			
Observation end date	2015-11-01T04:18:09	2015-11-01T04:18:09			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## **A Summary**

### **A.1 Status**

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.11.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.0688000457287

### **A.2 Comments**