

# V&V Reference Report

## L2 ASCDS Version : 10.1.1

Observation 53216 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Nov 20 2013

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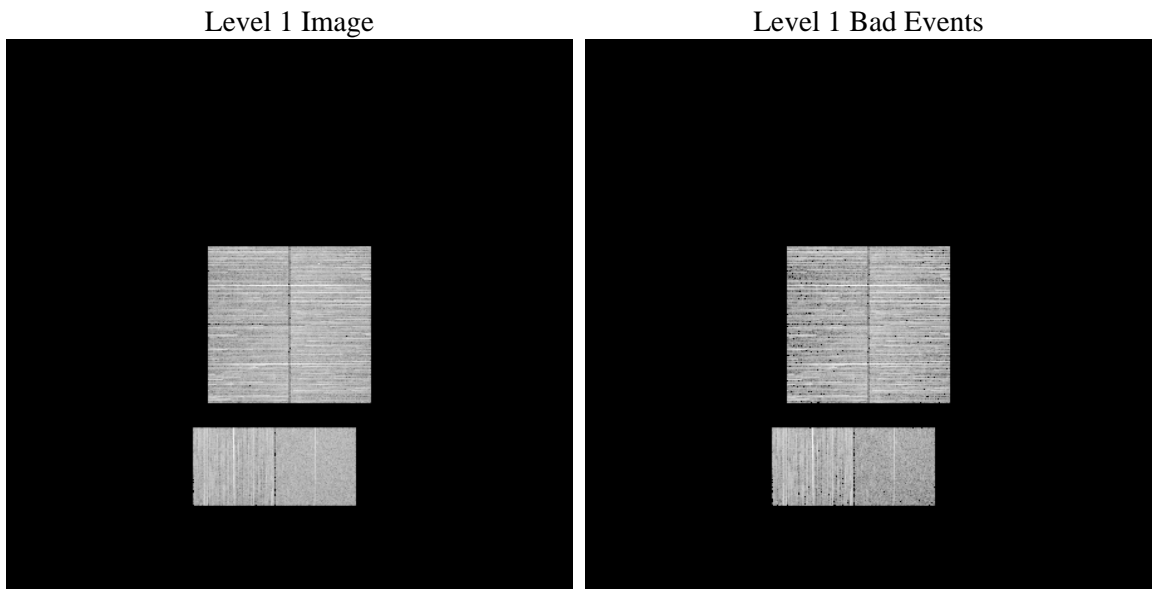
# 1 Front

seq_num	&#160	Sequence number
obs_id	53216	Observation id
title	ACIS-012367 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	57.313601053773	Nominal RA [deg]
dec_nom	-4.7571100461883	Nominal Dec [deg]
roll_nom	4.3248430007904	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4889.5999818444	Sum of GTIs [s]
livetime	4827.6849227107	Livetime [s]
ontime0	4889.5999818444	Sum of GTIs [s]
ontime1	4889.5999818444	Sum of GTIs [s]
ontime2	4889.5999818444	Sum of GTIs [s]
ontime3	4889.5999818444	Sum of GTIs [s]
ontime6	4889.5999818444	Sum of GTIs [s]
ontime7	4889.5999818444	Sum of GTIs [s]
l2events	111250	Number of level 2 events

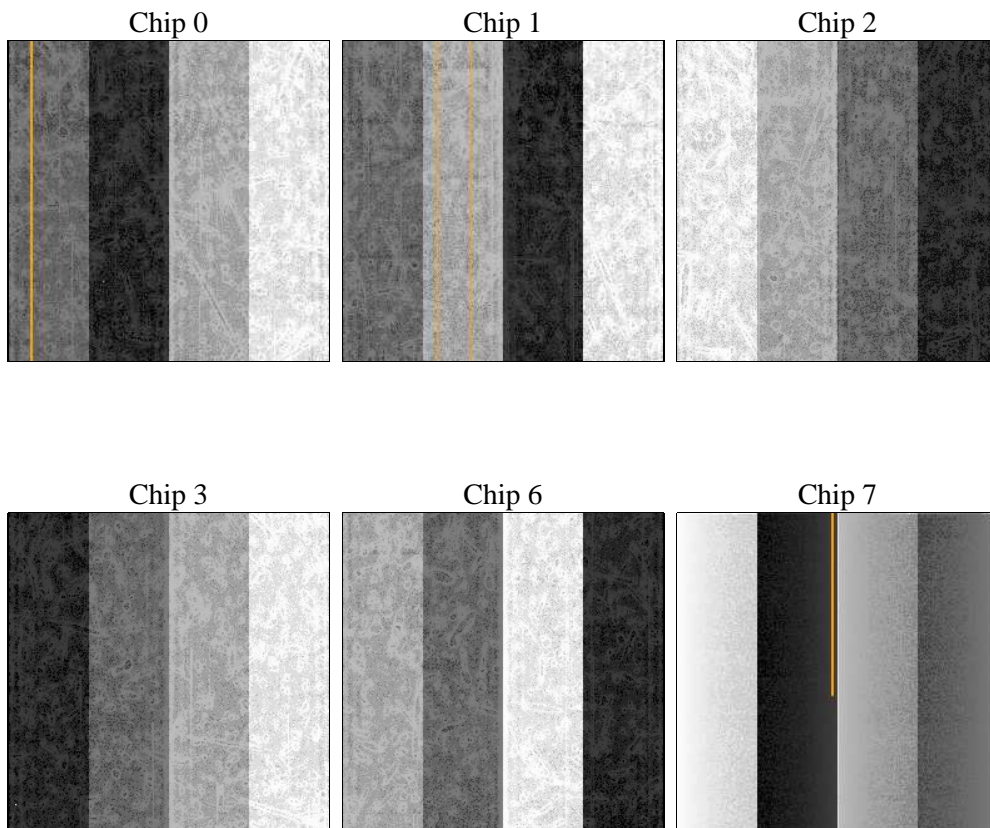
## 2 OBI

### 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	10.1.1	Processing system revision	ontime	4889.5999818444	Sum of GTIs [s]
caldsver	4.5.9	&#160	ontime0	4889.5999818444	Sum of GTIs [s]
date	2013-11-20T13:30:37	Date and time of file creation	ontime1	4889.5999818444	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	4889.5999818444	Sum of GTIs [s]
			ontime3	4889.5999818444	Sum of GTIs [s]
			ontime6	4889.5999818444	Sum of GTIs [s]
			ontime7	4889.5999818444	Sum of GTIs [s]
			l1events	501333	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	76673	96175	82119	86799	88145	71422	grade 0 events	8469	8287	8746	9016	8070	4160
rejected events	59652	78693	65079	69367	70710	39755		11%	8%	10%	10%	9%	5%
rejected %	77%	81%	79%	79%	80%	55%	grade 1 events	36	38	57	49	35	37
								0%	0%	0%	0%	0%	0%
							grade 2 events	3598	4028	3355	3413	4069	7948
								4%	4%	4%	3%	4%	11%
							grade 3 events	1159	1120	1170	1149	1081	2406
								1%	1%	1%	1%	1%	3%
							grade 4 events	1066	1100	1132	1200	1060	2445
								1%	1%	1%	1%	1%	3%
							grade 5 events	1546	1569	1529	1754	1597	4128
								2%	1%	1%	2%	1%	5%
							grade 6 events	2729	2947	2637	2654	3155	14708
								3%	3%	3%	3%	3%	20%
							grade 7 events	58070	77086	63493	67564	69078	35590
								75%	80%	77%	77%	78%	49%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	57.31360105377268	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-4.757110046188327	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	4.324843000790381	[s] Primary exposure time	3.2	3.2
[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)	501296521.645133	501296520.62013			
Observation start date	2013-11-20T01:02:02	2013-11-20T01:02:00			
[s] Observation end time (MET)	501305119.345604	501305118.3206			
Observation end date	2013-11-20T03:25:19	2013-11-20T03:25:18			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.11.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.8895999818444

### A.2 Comments