

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 53469 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Aug 17 2013

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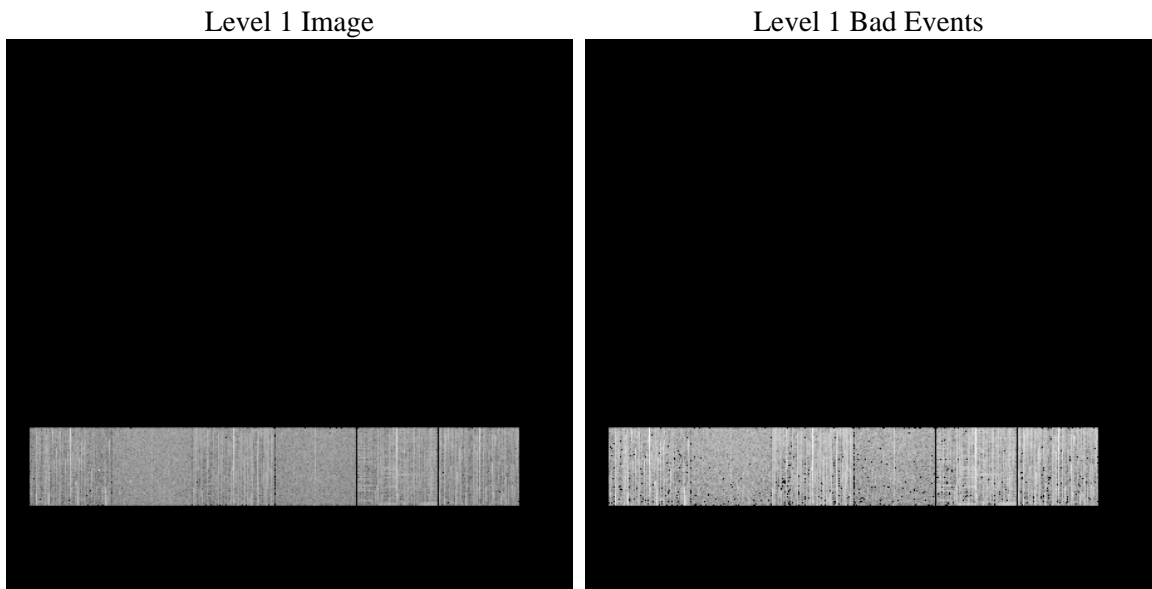
# 1 Front

seq_num	&#160	Sequence number
obs_id	53469	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycycle	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	91.983478451563	Nominal RA [deg]
dec_nom	24.024406517737	Nominal Dec [deg]
roll_nom	88.822966276973	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3276.7999878526	Sum of GTIs [s]
livetime	3235.3071733543	Livetime [s]
ontime4	3276.768484652	Sum of GTIs [s]
ontime5	3276.7999878526	Sum of GTIs [s]
ontime6	3276.7999878526	Sum of GTIs [s]
ontime7	3276.7999878526	Sum of GTIs [s]
ontime8	3276.7274446487	Sum of GTIs [s]
ontime9	3276.7999878526	Sum of GTIs [s]
l2events	91059	Number of level 2 events

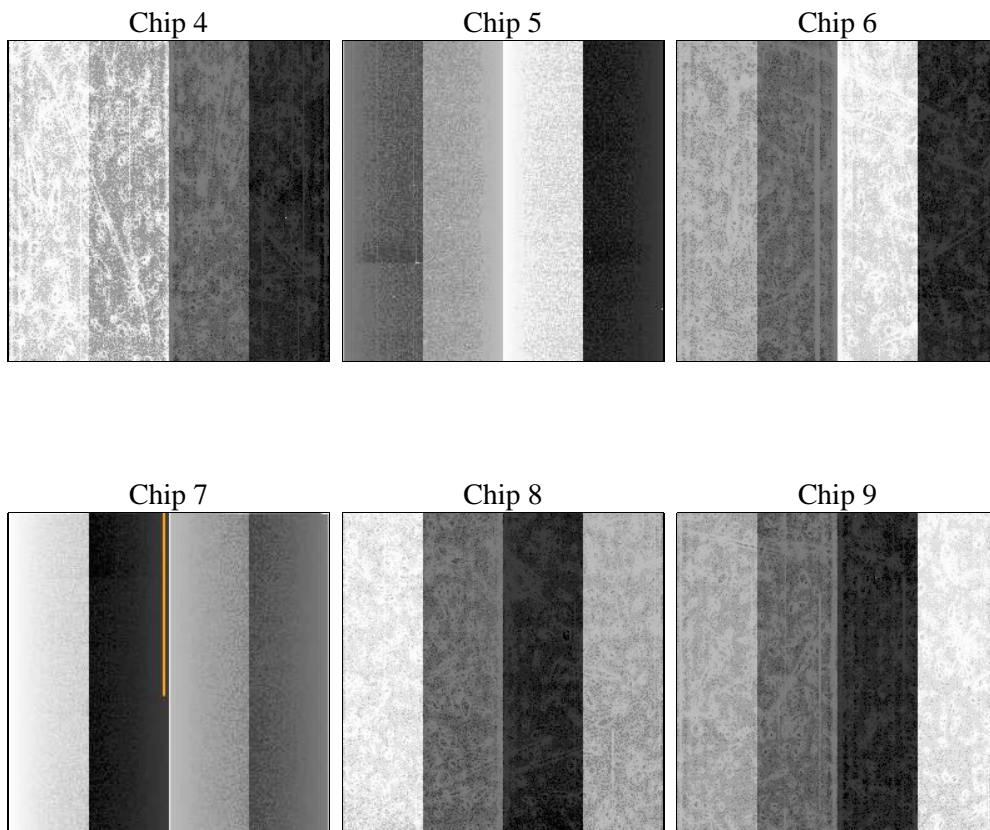
## 2 OBI

### 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	Processing system revision	ontime	3276.7999878526	Sum of GTIs [s]
caldbver	4.5.7	&#160	ontime4	3276.768484652	Sum of GTIs [s]
date	2013-08-17T11:25:03	Date and time of file creation	ontime5	3276.7999878526	Sum of GTIs [s]
			ontime6	3276.7999878526	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	3276.7999878526	Sum of GTIs [s]
			ontime8	3276.7274446487	Sum of GTIs [s]
			ontime9	3276.7999878526	Sum of GTIs [s]
			l1events	343165	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	56461	51732	62026	48823	64088	60035
rejected events	43640	28204	49167	26383	48224	47506
rejected %	77%	54%	79%	54%	75%	79%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	7092	2249	6340	3174	7033	6257
	12%	4%	10%	6%	10%	10%
grade 1 events	51	48	30	30	47	28
	0%	0%	0%	0%	0%	0%
grade 2 events	2453	8737	2607	5460	3272	2435
	4%	16%	4%	11%	5%	4%
grade 3 events	831	919	798	1856	1200	851
	1%	1%	1%	3%	1%	1%
grade 4 events	847	849	801	1838	1198	867
	1%	1%	1%	3%	1%	1%
grade 5 events	1222	2351	1243	2989	1557	1373
	2%	4%	2%	6%	2%	2%
grade 6 events	1617	10794	2320	10142	3166	2136
	2%	20%	3%	20%	4%	3%
grade 7 events	42348	25785	47887	23334	46615	46088
	75%	49%	77%	47%	72%	76%

## 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	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	91.9834784515633	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	24.02440651773725	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	88.82296627697285	[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)	493074750.195654	493074749.17065			
Observation start date	2013-08-16T21:12:30	2013-08-16T21:12:29			
[s] Observation end time (MET)	493079750.145926	493079749.12093			
Observation end date	2013-08-16T22:35:50	2013-08-16T22:35:49			
Read mode	TIMED	TIMED			

**2.3 Star Slots**

**2.4 FID Slots**

# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2013.08.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2767999878526

## A.2 Comments