

# V&V Reference Report

## L2 ASCDS Version : 10.1.1

Observation 53140 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Dec 24 2013

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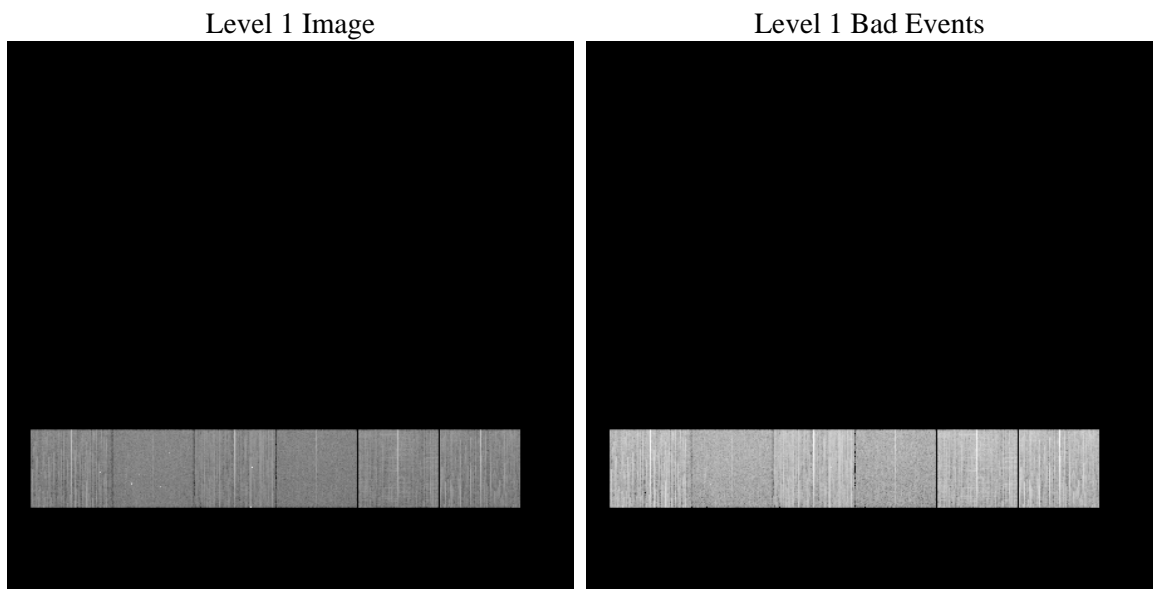
# 1 Front

seq_num	&#160	Sequence number
obs_id	53140	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	298.03088619719	Nominal RA [deg]
dec_nom	22.00133388679	Nominal Dec [deg]
roll_nom	329.84143047536	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8197.7678055763	Sum of GTIs [s]
livetime	8093.962733519	Livetime [s]
ontime4	8197.6446855664	Sum of GTIs [s]
ontime5	8197.726765573	Sum of GTIs [s]
ontime6	8197.6857255697	Sum of GTIs [s]
ontime7	8197.7678055763	Sum of GTIs [s]
ontime8	8197.6036455631	Sum of GTIs [s]
ontime9	8197.8088455796	Sum of GTIs [s]
l2events	211497	Number of level 2 events

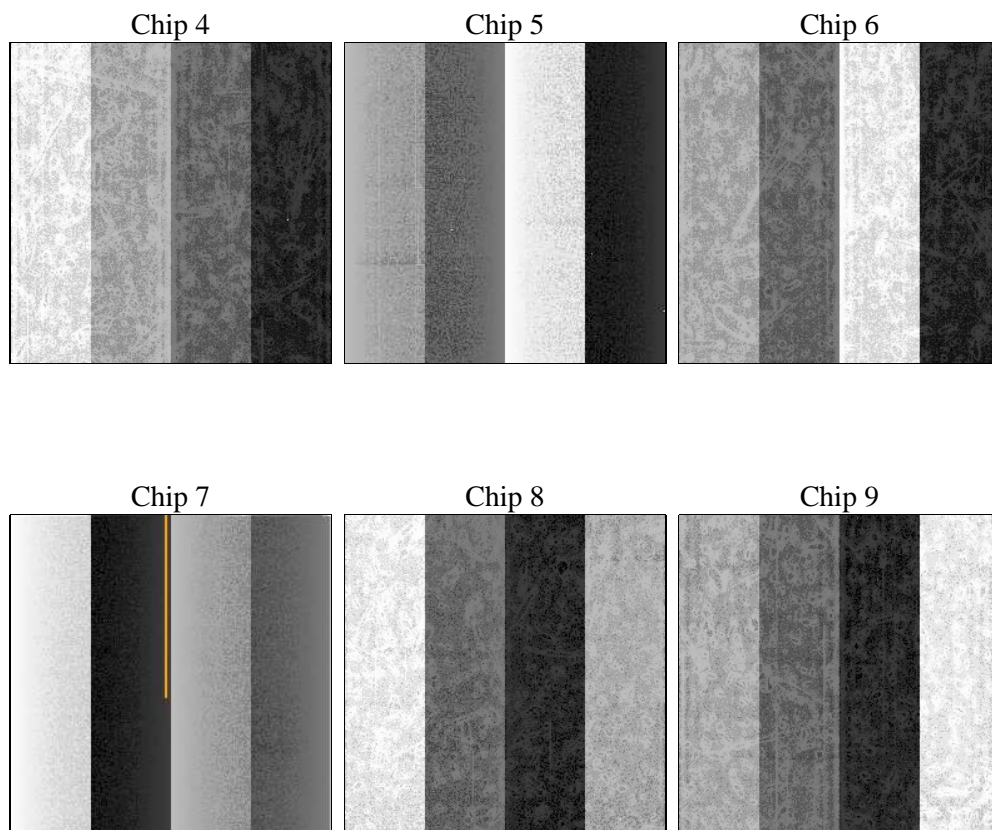
## 2 OBI

### 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	8197.7678055763	Sum of GTIs [s]
caldsver	4.6.0	&#160	ontime4	8197.6446855664	Sum of GTIs [s]
date	2013-12-24T22:11:46	Date and time of file creation	ontime5	8197.726765573	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8197.6857255697	Sum of GTIs [s]
			ontime7	8197.7678055763	Sum of GTIs [s]
			ontime8	8197.6036455631	Sum of GTIs [s]
			ontime9	8197.8088455796	Sum of GTIs [s]
			l1events	859015	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	146081	126285	159044	118984	155027	153594	grade 0 events	16258	5924	19320	7304	16717	14533
rejected events	116711	70494	124519	66913	117398	124685		11%	4%	12%	6%	10%	9%
rejected %	79%	55%	78%	56%	75%	81%	grade 1 events	121	180	87	79	74	68
								0%	0%	0%	0%	0%	0%
							grade 2 events	5516	20622	6383	12798	8164	5827
								3%	16%	4%	10%	5%	3%
							grade 3 events	2016	1869	1948	4103	2802	1987
								1%	1%	1%	3%	1%	1%
							grade 4 events	1924	1816	1908	4122	2665	1945
								1%	1%	1%	3%	1%	1%
							grade 5 events	3136	5535	3031	7034	3926	3259
								2%	4%	1%	5%	2%	2%
							grade 6 events	3952	26162	5321	24328	7716	4937
								2%	20%	3%	20%	4%	3%
							grade 7 events	113158	64177	121046	59216	112963	121038
								77%	50%	76%	49%	72%	78%

## 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	298.0308861971928
[deg] Pointing Dec	0	22.00133388678959
[deg] Pointing Roll	0.0	329.8414304753566
SIM focus pos (mm)	-1.4281808131	-1.4281808131
[mm] SIM defocus	0.1051557500557434	0.1051557500557434
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	504239077.456478	504239077.456478
Observation start date	2013-12-24T02:24:37	2013-12-24T02:24:37
[s] Observation end time (MET)	504247590.946556	504247590.946556
Observation end date	2013-12-24T04:46:31	2013-12-24T04:46:30
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	Beth Sundheim
V&V Date (YYYY-MM-DD)	2013.12.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1977678055763

### A.2 Comments