

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 53917 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Feb 23 2013

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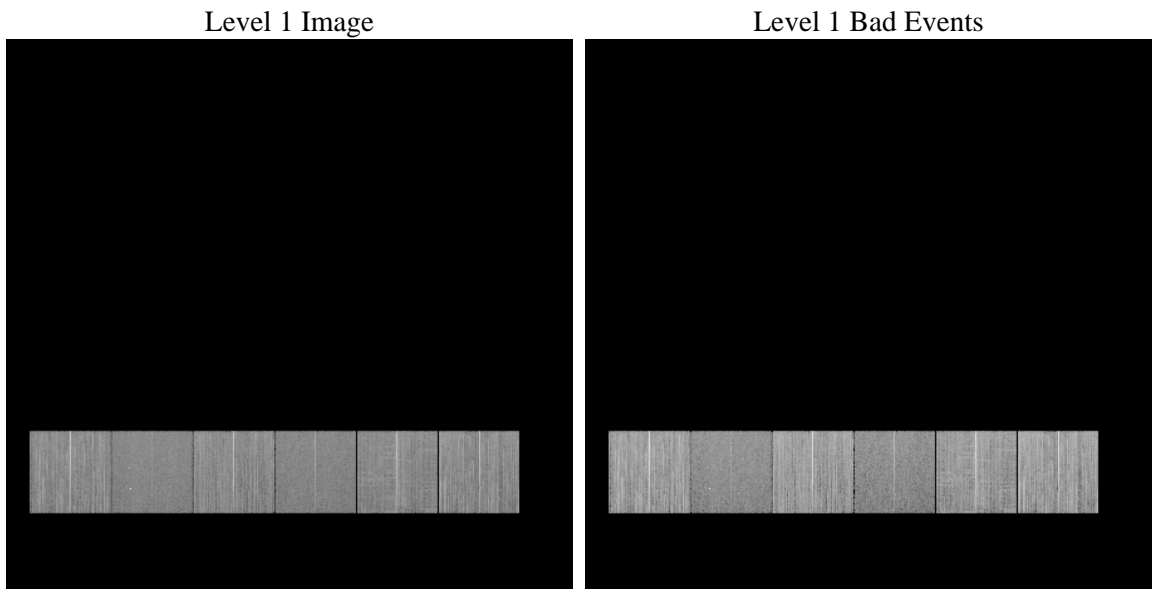
# 1 Front

seq_num	&#160	Sequence number
obs_id	53917	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	196.99517643419	Nominal RA [deg]
dec_nom	-8.2717001673773	Nominal Dec [deg]
roll_nom	66.666081891803	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8275.1999692321	Sum of GTIs [s]
livetime	8170.4144044945	Livetime [s]
ontime4	8275.1999692321	Sum of GTIs [s]
ontime5	8275.1999692321	Sum of GTIs [s]
ontime6	8275.1999692321	Sum of GTIs [s]
ontime7	8275.1999692321	Sum of GTIs [s]
ontime8	8275.1999692321	Sum of GTIs [s]
ontime9	8271.9589390159	Sum of GTIs [s]
l2events	252026	Number of level 2 events

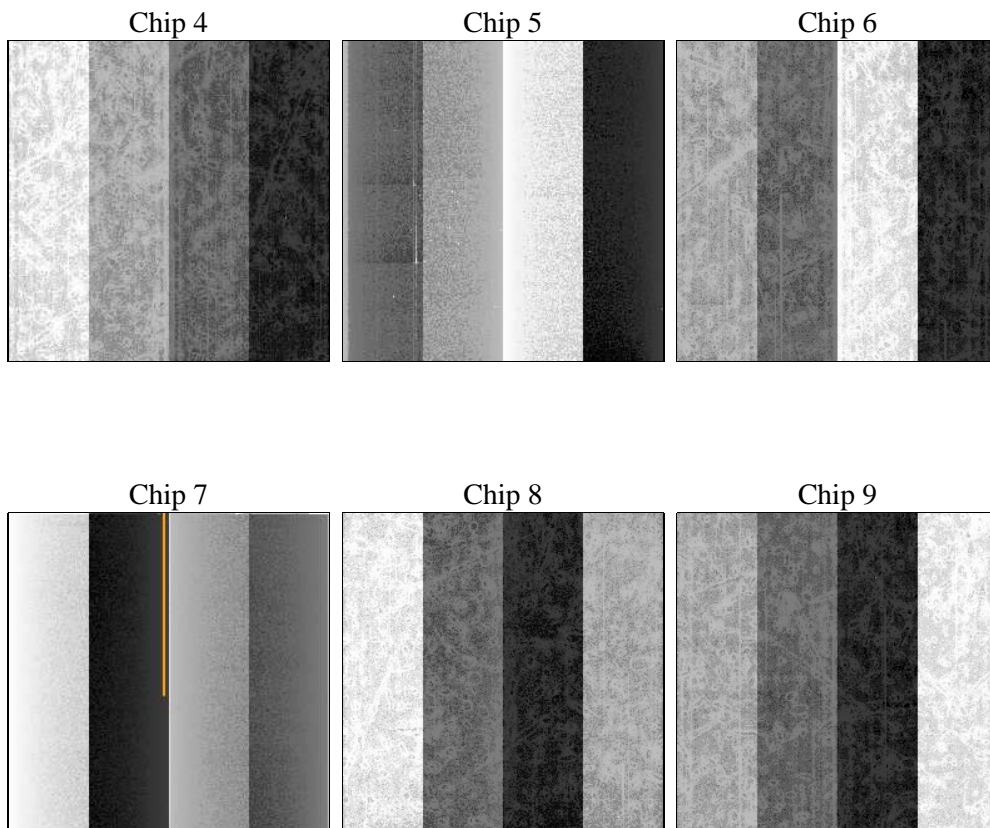
## 2 OBI

### 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	8.5.1.1	Processing system revision	ontime	8275.1999692321	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime4	8275.1999692321	Sum of GTIs [s]
date	2013-02-23T18:55:10	Date and time of file creation	ontime5	8275.1999692321	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8275.1999692321	Sum of GTIs [s]
			ontime7	8275.1999692321	Sum of GTIs [s]
			ontime8	8275.1999692321	Sum of GTIs [s]
			ontime9	8271.9589390159	Sum of GTIs [s]
			l1events	1020265	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	186516	147381	182336	137897	174291	191844	grade 0 events	17793	5138	13798	8211	18803	16045
rejected events	152449	81858	146990	75909	129686	157028		9%	3%	7%	5%	10%	8%
rejected %	81%	55%	80%	55%	74%	81%	grade 1 events	171	158	64	84	88	102
								0%	0%	0%	0%	0%	0%
							grade 2 events	6908	23542	11078	15230	10867	8497
								3%	15%	6%	11%	6%	4%
							grade 3 events	2291	2605	1777	4862	3020	2094
								1%	1%	0%	3%	1%	1%
							grade 4 events	2315	2524	1771	4731	3027	2098
								1%	1%	0%	3%	1%	1%
							grade 5 events	3170	6038	2879	7580	4052	3501
								1%	4%	1%	5%	2%	1%
							grade 6 events	4780	31739	6932	28975	8915	6098
								2%	21%	3%	21%	5%	3%
							grade 7 events	149088	75637	144037	68224	125519	153409
								79%	51%	78%	49%	72%	79%

## 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	196.9951764341907
[deg] Pointing Dec	0	-8.27170016737727
[deg] Pointing Roll	0.0	66.66608189180332
[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)	477989916.62724	477989915.60224
Observation start date	2013-02-23T06:58:37	2013-02-23T06:58:35
[s] Observation end time (MET)	478002341.677911	478002340.65291
Observation end date	2013-02-23T10:25:42	2013-02-23T10:25:40
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	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.02.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2751999692321

### A.2 Comments