

# V&V Reference Report

## L2 ASCDS Version : 10.2.1

Observation 52803 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Apr 30 2014

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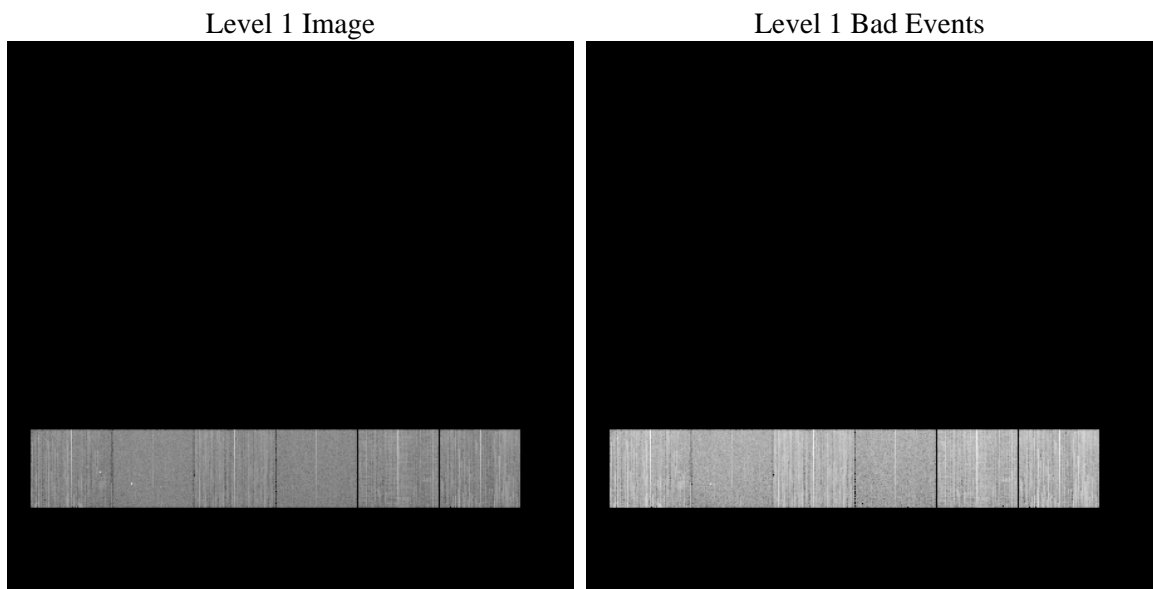
# 1 Front

seq_num	&#160	Sequence number
obs_id	52803	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	65.714687046541	Nominal RA [deg]
dec_nom	52.528923290984	Nominal Dec [deg]
roll_nom	62.454438767715	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8140.7999697328	Sum of GTIs [s]
livetime	8037.7162587148	Livetime [s]
ontime4	8140.7999697328	Sum of GTIs [s]
ontime5	8140.7999697328	Sum of GTIs [s]
ontime6	8140.7999697328	Sum of GTIs [s]
ontime7	8140.7999697328	Sum of GTIs [s]
ontime8	8140.7999697328	Sum of GTIs [s]
ontime9	8140.7999697328	Sum of GTIs [s]
l2events	201203	Number of level 2 events

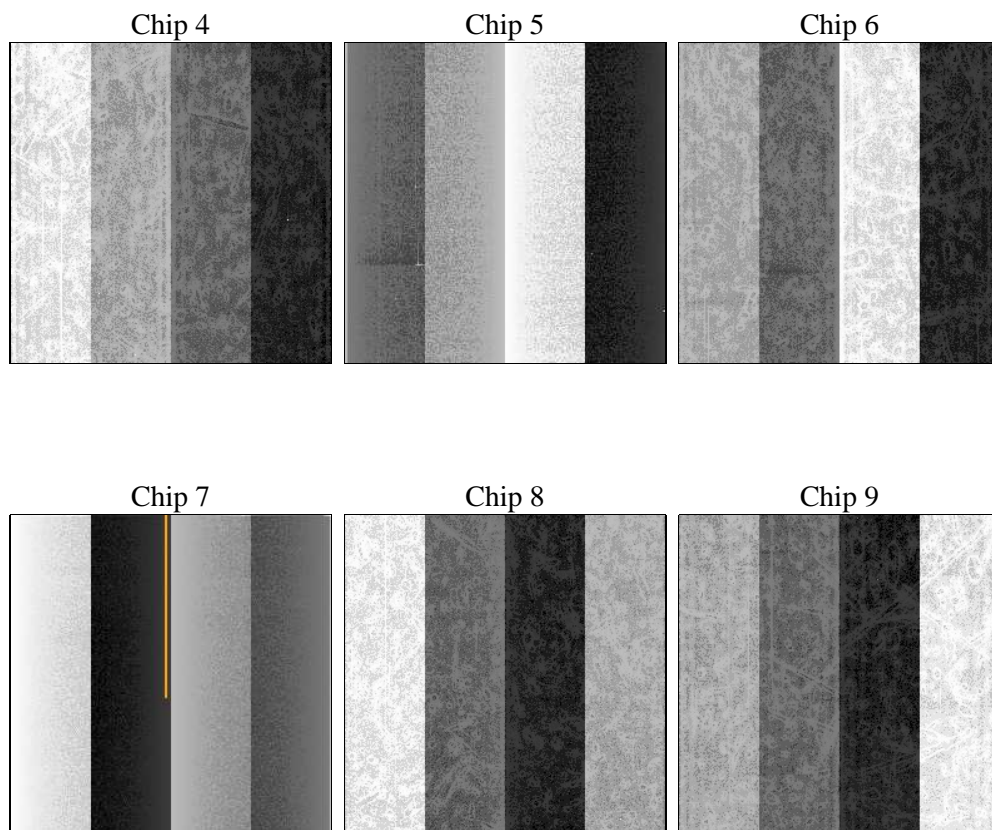
## 2 OBI

### 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	10.2.1	Processing system revision	ontime	8140.7999697328	Sum of GTIs [s]
caldsver	4.6.1	&#160	ontime4	8140.7999697328	Sum of GTIs [s]
date	2014-04-30T14:47:48	Date and time of file creation	ontime5	8140.7999697328	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8140.7999697328	Sum of GTIs [s]
			ontime7	8140.7999697328	Sum of GTIs [s]
			ontime8	8140.7999697328	Sum of GTIs [s]
			ontime9	8140.7999697328	Sum of GTIs [s]
			l1events	818478	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	136351	124384	146450	116858	146131	148304	grade 0 events	16320	5796	13813	7221	16081	13423
rejected events	107884	69787	118917	65411	110360	121657		11%	4%	9%	6%	11%	9%
rejected %	79%	56%	81%	55%	75%	82%	grade 1 events	110	213	61	84	78	60
								0%	0%	0%	0%	0%	0%
							grade 2 events	5202	20442	5635	12797	7638	5361
								3%	16%	3%	10%	5%	3%
							grade 3 events	1928	1952	1916	4293	2828	1907
								1%	1%	1%	3%	1%	1%
							grade 4 events	1874	1885	1845	4317	2773	1834
								1%	1%	1%	3%	1%	1%
							grade 5 events	3136	5954	3219	7544	4020	3345
								2%	4%	2%	6%	2%	2%
							grade 6 events	3643	25532	4821	23714	7077	4591
								2%	20%	3%	20%	4%	3%
							grade 7 events	104138	62610	115140	56888	105636	117783
								76%	50%	78%	48%	72%	79%

## 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	65.71468704654143	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	52.52892329098409	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	62.454438767715	[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)	515205495.660349	515205495.660349			
Observation start date	2014-04-30T00:38:16	2014-04-30T00:38:15			
[s] Observation end time (MET)	515215044.228607	515215044.228607			
Observation end date	2014-04-30T03:17:24	2014-04-30T03:17:24			
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)	2014.04.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1407999697328

### A.2 Comments