

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 53729 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 3 2013

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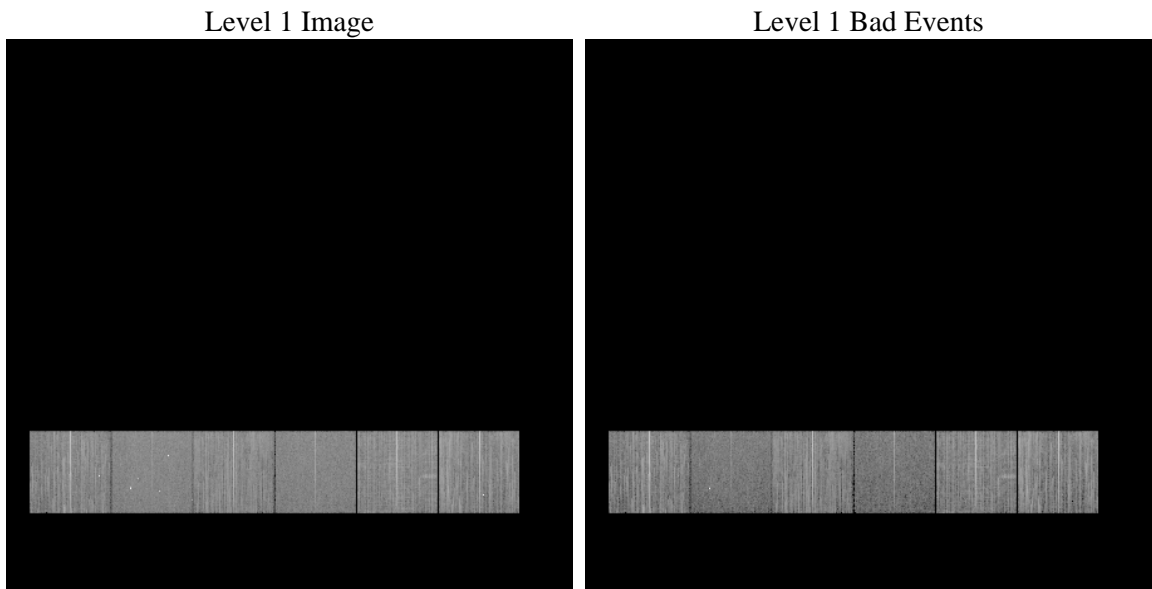
# 1 Front

seq_num	&#160	Sequence number
obs_id	53729	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycle	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	202.36765196579	Nominal RA [deg]
dec_nom	-25.782276172354	Nominal Dec [deg]
roll_nom	293.10894970764	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8236.7999693751	Sum of GTIs [s]
livetime	8132.5006485574	Livetime [s]
ontime4	8236.7999693751	Sum of GTIs [s]
ontime5	8236.7999693751	Sum of GTIs [s]
ontime6	8236.7999693751	Sum of GTIs [s]
ontime7	8236.7999693751	Sum of GTIs [s]
ontime8	8236.7999693751	Sum of GTIs [s]
ontime9	8233.5589690804	Sum of GTIs [s]
l2events	246514	Number of level 2 events

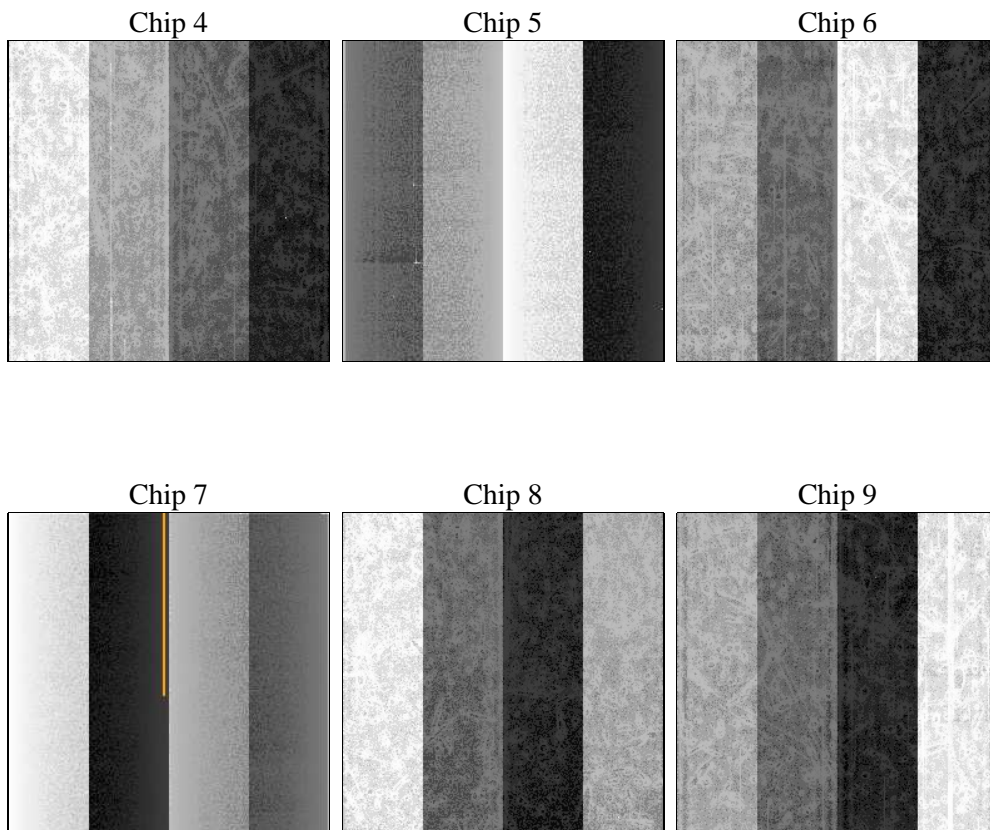
## 2 OBI

### 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	8236.7999693751	Sum of GTIs [s]
caldbver	4.5.6	&#160	ontime4	8236.7999693751	Sum of GTIs [s]
date	2013-05-03T12:57:53	Date and time of file creation	ontime5	8236.7999693751	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8236.7999693751	Sum of GTIs [s]
			ontime7	8236.7999693751	Sum of GTIs [s]
			ontime8	8236.7999693751	Sum of GTIs [s]
			ontime9	8233.5589690804	Sum of GTIs [s]
			l1events	949896	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	159696	146757	166112	133111	171149	173071	grade 0 events	19864	8961	17117	8863	20081	19534
rejected events	124666	80130	131710	71779	127501	137167		12%	6%	10%	6%	11%	11%
rejected %	78%	54%	79%	53%	74%	79%	grade 1 events	148	139	79	101	99	86
								0%	0%	0%	0%	0%	0%
							grade 2 events	6344	24210	6926	15188	8726	6577
								3%	16%	4%	11%	5%	3%
							grade 3 events	2330	2492	2246	5087	3591	2278
								1%	1%	1%	3%	2%	1%
							grade 4 events	2326	2381	2330	5068	3327	2258
								1%	1%	1%	3%	1%	1%
							grade 5 events	3353	6953	3388	8052	4347	3629
								2%	4%	2%	6%	2%	2%
							grade 6 events	4344	29005	5980	27505	8192	5444
								2%	19%	3%	20%	4%	3%
							grade 7 events	120987	72616	128046	63247	122786	133265
								75%	49%	77%	47%	71%	77%

## 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	202.3676519657894	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-25.78227617235446	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	293.1089497076402	[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)	250.4660330802	250.4660330802			
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584			
[s] Observation start time (MET)	483900704.497127	483900704.497127			
Observation start date	2013-05-02T16:51:44	2013-05-02T16:51:44			
[s] Observation end time (MET)	483910253.706004	483910253.706004			
Observation end date	2013-05-02T19:30:54	2013-05-02T19:30:53			
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)	2013.05.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2367999693751

## A.2 Comments