

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 53669 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 28 2013

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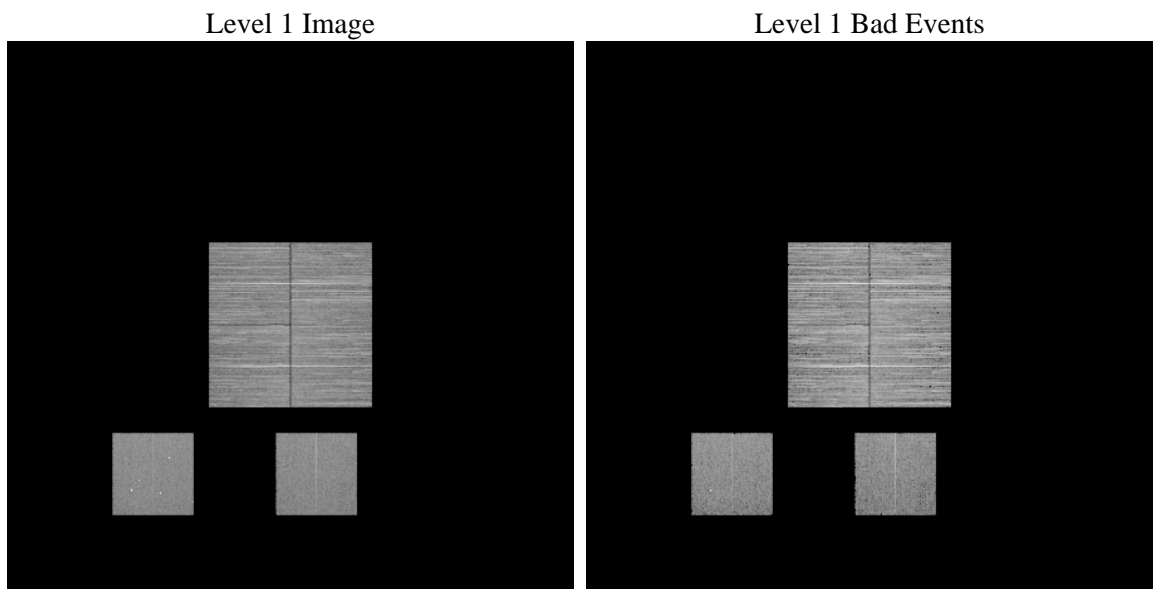
# 1 Front

seq_num	&#160	Sequence number
obs_id	53669	Observation id
title	ACIS-012357 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	7.9815364062811	Nominal RA [deg]
dec_nom	37.024695927491	Nominal Dec [deg]
roll_nom	88.003883374683	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8287.7144521475	Sum of GTIs [s]
livetime	8182.7704214919	Livetime [s]
ontime0	8287.6734121442	Sum of GTIs [s]
ontime1	8287.6323721409	Sum of GTIs [s]
ontime2	8287.5913321376	Sum of GTIs [s]
ontime3	8287.7554921508	Sum of GTIs [s]
ontime5	8287.5502921343	Sum of GTIs [s]
ontime7	8287.7144521475	Sum of GTIs [s]
l2events	234396	Number of level 2 events

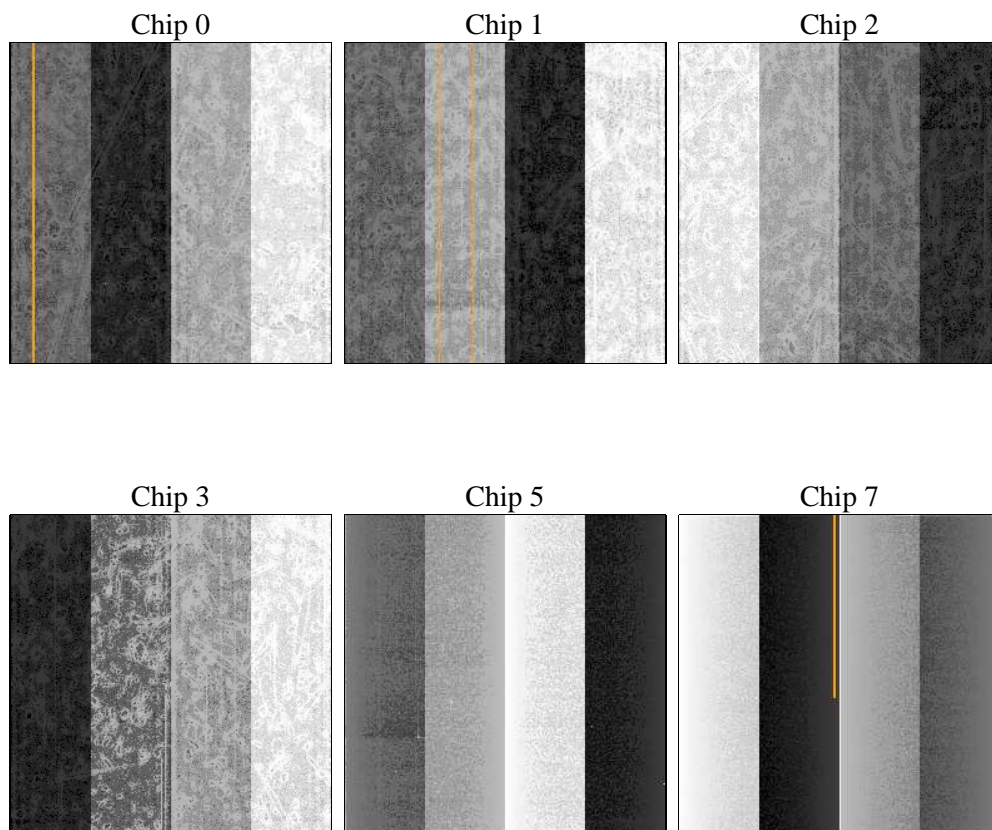
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	8287.7144521475	Sum of GTIs [s]
caldsver	4.5.6	&#160	ontime0	8287.6734121442	Sum of GTIs [s]
date	2013-05-28T17:10:00	Date and time of file creation	ontime1	8287.6323721409	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8287.5913321376	Sum of GTIs [s]
			ontime3	8287.7554921508	Sum of GTIs [s]
			ontime5	8287.5502921343	Sum of GTIs [s]
			ontime7	8287.7144521475	Sum of GTIs [s]
			l1events	825151	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	141260	147628	140978	147197	129380	118708	grade 0 events	16529	16411	17346	16894	9220	8537
rejected events	108754	114957	108238	114574	66849	61779		11%	11%	12%	11%	7%	7%
rejected %	76%	77%	76%	77%	51%	52%	grade 1 events	110	75	96	74	133	104
								0%	0%	0%	0%	0%	0%
							grade 2 events	6546	6701	6137	6258	22858	14025
								4%	4%	4%	4%	17%	11%
							grade 3 events	2195	2180	2220	2241	2196	4759
								1%	1%	1%	1%	1%	4%
							grade 4 events	2162	2152	2246	2232	2174	4659
								1%	1%	1%	1%	1%	3%
							grade 5 events	2489	2704	2501	2992	5986	6966
								1%	1%	1%	2%	4%	5%
							grade 6 events	5089	5239	4800	5009	26117	24969
								3%	3%	3%	3%	20%	21%
							grade 7 events	106140	112166	105632	111497	60696	54689
								75%	75%	74%	75%	46%	46%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012357	ACIS-012357	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	7.981536406281065	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	37.02469592749071	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	88.0038833746832	[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)	485989279.460368	485989278.43537			
Observation start date	2013-05-26T21:01:19	2013-05-26T21:01:18			
[s] Observation end time (MET)	485999459.760921	485999458.73592			
Observation end date	2013-05-26T23:51:00	2013-05-26T23:50:58			
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)	2013.05.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2877144521475

### A.2 Comments