

# V&V Reference Report

## L2 ASCDS Version : 8.5.1

Observation 59811 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 17 2012

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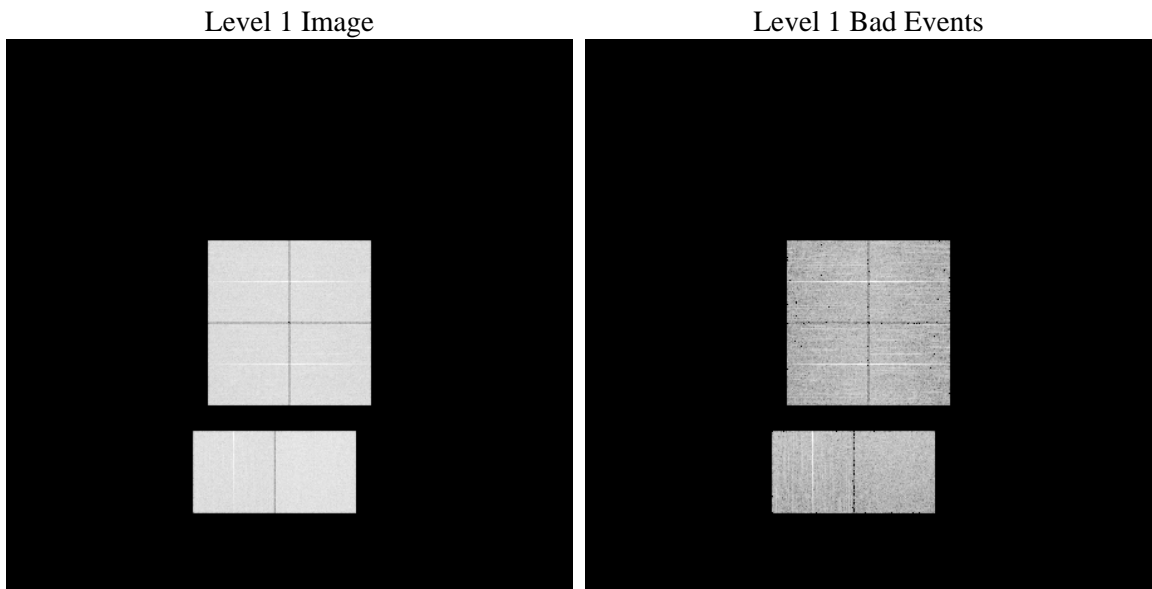
# 1 Front

seq_num	&#160	Sequence number
obs_id	59811	Observation id
title	ACIS-012367 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	142.46949205862	Nominal RA [deg]
dec_nom	32.986995718791	Nominal Dec [deg]
roll_nom	174.12235381436	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7777.5778714418	Sum of GTIs [s]
livetime	7679.0934973385	Livetime [s]
ontime0	6870.0654994547	Sum of GTIs [s]
ontime1	6934.8441240191	Sum of GTIs [s]
ontime2	6678.7663722932	Sum of GTIs [s]
ontime3	6753.4727582932	Sum of GTIs [s]
ontime6	7130.213552773	Sum of GTIs [s]
ontime7	7777.5778714418	Sum of GTIs [s]
l2events	1061836	Number of level 2 events

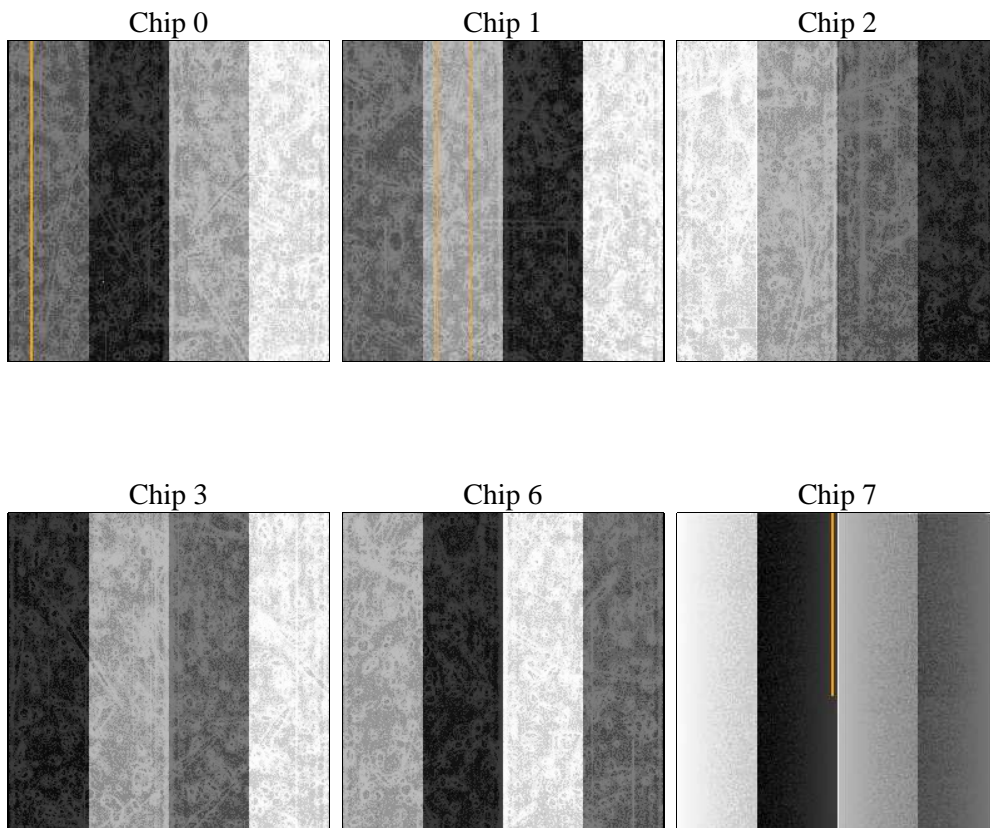
## 2 OBI

### 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	Processing system revision	ontime	7777.5778714418	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime0	6870.0654994547	Sum of GTIs [s]
date	2012-12-17T08:22:07	Date and time of file creation	ontime1	6934.8441240191	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	6678.7663722932	Sum of GTIs [s]
			ontime3	6753.4727582932	Sum of GTIs [s]
			ontime6	7130.213552773	Sum of GTIs [s]
			ontime7	7777.5778714418	Sum of GTIs [s]
			l1events	1404433	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	222887	224865	219856	224281	242159	270385	grade 0 events	96724	97059	96679	98670	103223	53098
rejected events	47191	47578	46879	48549	51354	47284		43%	43%	43%	43%	42%	19%
rejected %	21%	21%	21%	21%	21%	17%	grade 1 events	581	475	600	554	559	173
								0%	0%	0%	0%	0%	0%
							grade 2 events	30765	31625	29298	30130	33023	48934
								13%	14%	13%	13%	13%	18%
							grade 3 events	11482	11349	11320	11524	11916	22133
								5%	5%	5%	5%	4%	8%
							grade 4 events	11292	11329	11521	11443	12014	22062
								5%	5%	5%	5%	4%	8%
							grade 5 events	2956	3235	2835	3121	3288	8388
								1%	1%	1%	1%	1%	3%
							grade 6 events	25433	25925	24159	23965	30631	76874
								11%	11%	10%	10%	12%	28%
							grade 7 events	43654	43868	43444	44874	47505	38723
								19%	19%	19%	20%	19%	14%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
[deg] Pointing RA	0	142.4694920586236	Alternating exposures requested	N	N
[deg] Pointing Dec	0	32.98699571879096	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	174.1223538143625			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.7524282956875696			
[mm] SIM translation stage pos	-233.592463	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	224115479.181047	224115478.15601			
Observation start date	2005-02-06T22:17:59	2005-02-06T22:17:58			
[s] Observation end time (MET)	224126165.831532	224126164.8065			
Observation end date	2005-02-07T01:16:06	2005-02-07T01:16:04			
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)	2013.01.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.7775778714418

### **A.2 Comments**