

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 57027 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Jun 9 2012

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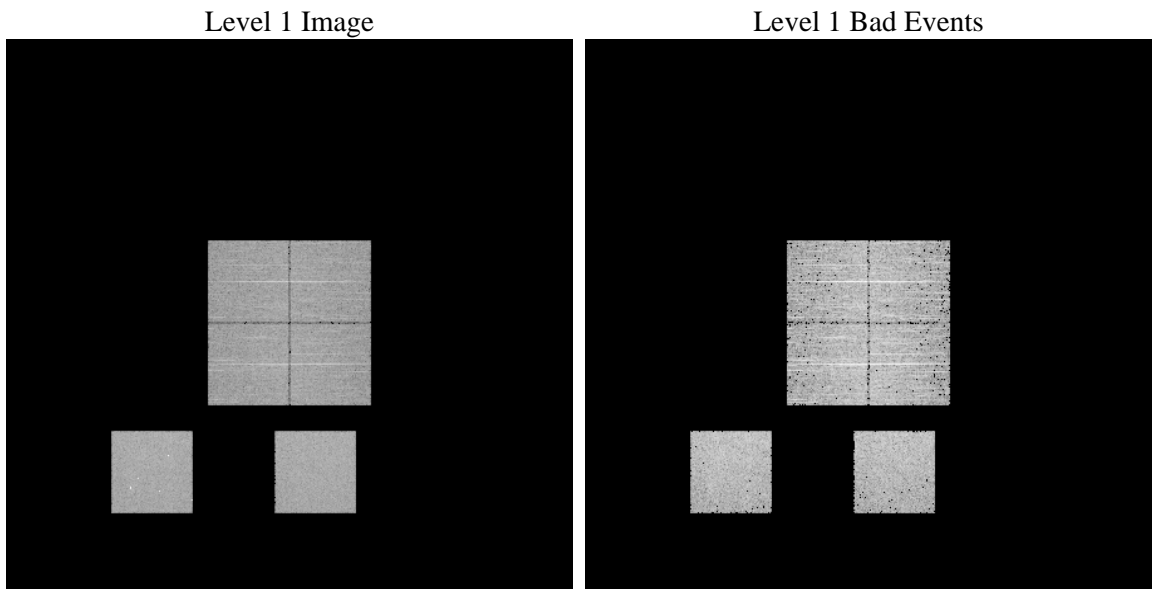
# 1 Front

seq_num	&#160	Sequence number
obs_id	57027	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	295.477512921	Nominal RA [deg]
dec_nom	-29.977570766681	Nominal Dec [deg]
roll_nom	80.807027553274	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3273.5999878645	Sum of GTIs [s]
livetime	3232.1476936929	Livetime [s]
ontime0	3273.5999878645	Sum of GTIs [s]
ontime1	3273.5999878645	Sum of GTIs [s]
ontime2	3273.5999878645	Sum of GTIs [s]
ontime3	3272.5953585505	Sum of GTIs [s]
ontime5	3273.5999878645	Sum of GTIs [s]
ontime7	3273.5999878645	Sum of GTIs [s]
l2events	203942	Number of level 2 events

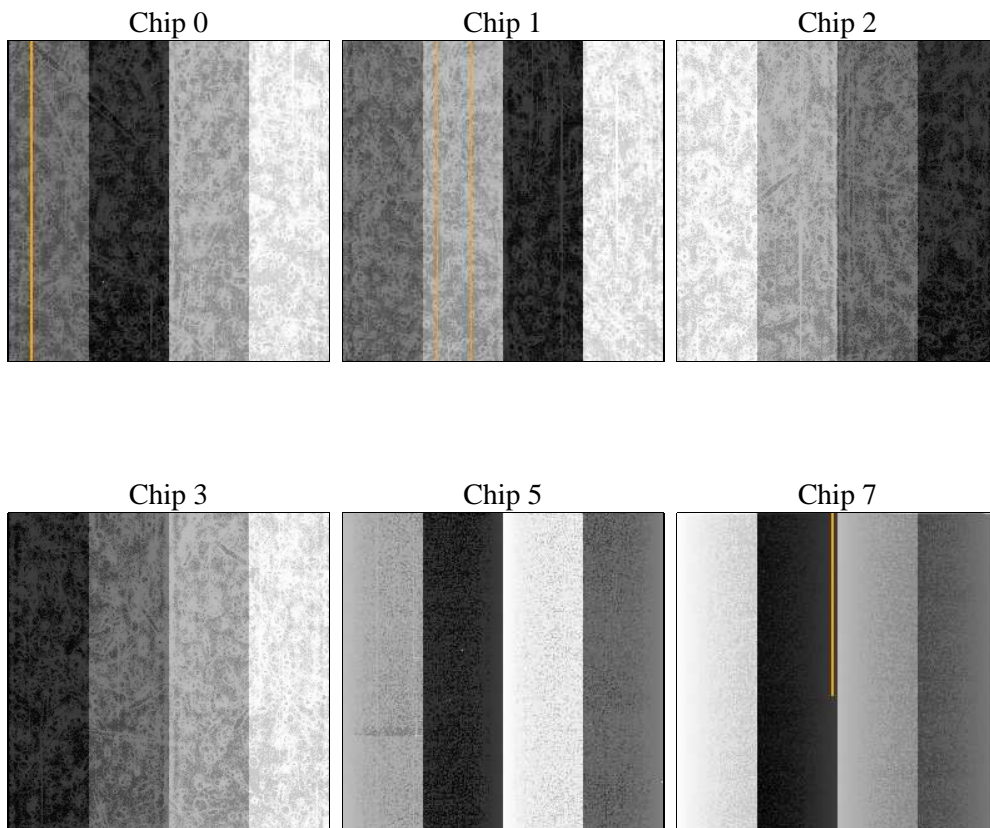
## 2 OBI

### 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	8.4.5	Processing system revision	ontime	3273.5999878645	Sum of GTIs [s]
caldbver	4.4.10	&#160	ontime0	3273.5999878645	Sum of GTIs [s]
date	2012-06-09T08:24:32	Date and time of file creation	ontime1	3273.5999878645	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	3273.5999878645	Sum of GTIs [s]
			ontime3	3272.5953585505	Sum of GTIs [s]
			ontime5	3273.5999878645	Sum of GTIs [s]
			ontime7	3273.5999878645	Sum of GTIs [s]
			l1events	392977	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	59242	58983	61590	61385	76570	75207	grade 0 events	16371	15873	16455	16619	7775	8610
rejected events	28664	28553	31298	30811	29533	28699		27%	26%	26%	27%	10%	11%
rejected %	48%	48%	50%	50%	38%	38%	grade 1 events	143	102	141	136	129	61
								0%	0%	0%	0%	0%	0%
							grade 2 events	5526	5743	5207	5307	16383	10203
								9%	9%	8%	8%	21%	13%
							grade 3 events	2093	2011	2104	2148	2233	4368
								3%	3%	3%	3%	2%	5%
							grade 4 events	2038	2045	2079	2137	2153	4250
								3%	3%	3%	3%	2%	5%
							grade 5 events	1640	1669	1570	1770	4101	4774
								2%	2%	2%	2%	5%	6%
							grade 6 events	4582	4782	4474	4363	18552	19139
								7%	8%	7%	7%	24%	25%
							grade 7 events	26849	26758	29560	28905	25244	23802
								45%	45%	47%	47%	32%	31%

## 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	295.4775129209982	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-29.97757076668051	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	80.807027553274	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-0.6828225247311905			
[mm] SIM defocus	0.1037507710433287	0.8505141146731063			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	361887545.154879	361887544.12988			
Observation start date	2009-06-20T12:19:05	2009-06-20T12:19:04			
[s] Observation end time (MET)	361902717.205638	361902716.18063			
Observation end date	2009-06-20T16:31:57	2009-06-20T16:31:56			
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)	2012.06.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2735999878645

### **A.2 Comments**