

# V&V Reference Report

## L2 ASCDS Version : 8.5.1

Observation 54094 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Dec 18 2012

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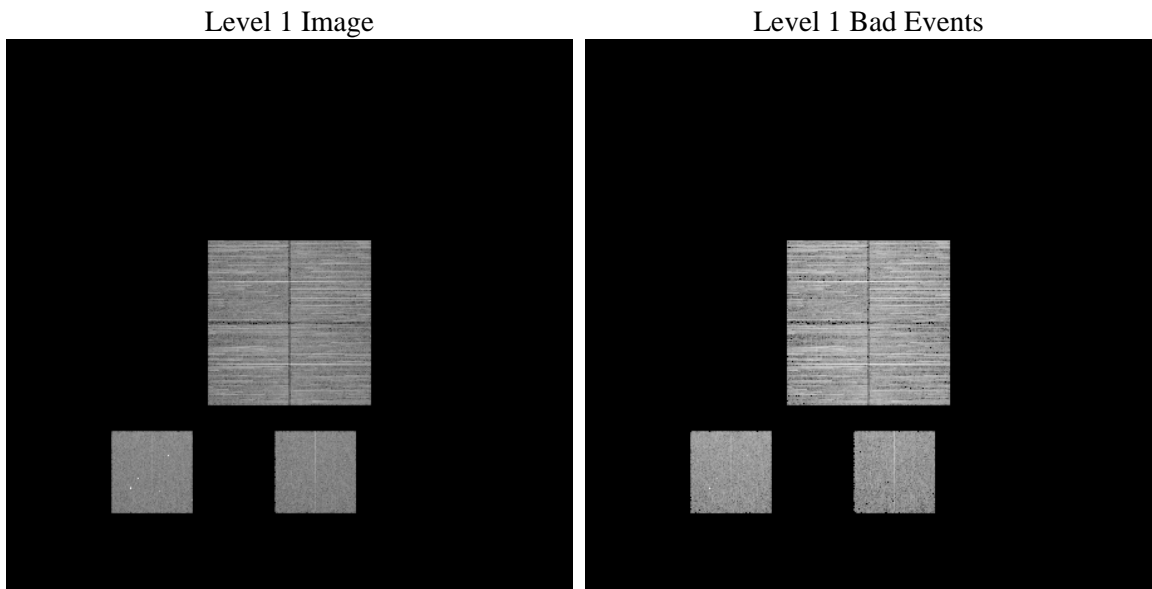
# 1 Front

seq_num	&#160	Sequence number
obs_id	54094	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	154.40017701709	Nominal RA [deg]
dec_nom	20.987233798819	Nominal Dec [deg]
roll_nom	91.678388985189	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4622.9637104273	Sum of GTIs [s]
livetime	4564.4249603113	Livetime [s]
ontime0	4622.922670424	Sum of GTIs [s]
ontime1	4622.8816304207	Sum of GTIs [s]
ontime2	4622.8405904174	Sum of GTIs [s]
ontime3	4623.0047504306	Sum of GTIs [s]
ontime5	4622.7995504141	Sum of GTIs [s]
ontime7	4622.9637104273	Sum of GTIs [s]
l2events	143541	Number of level 2 events

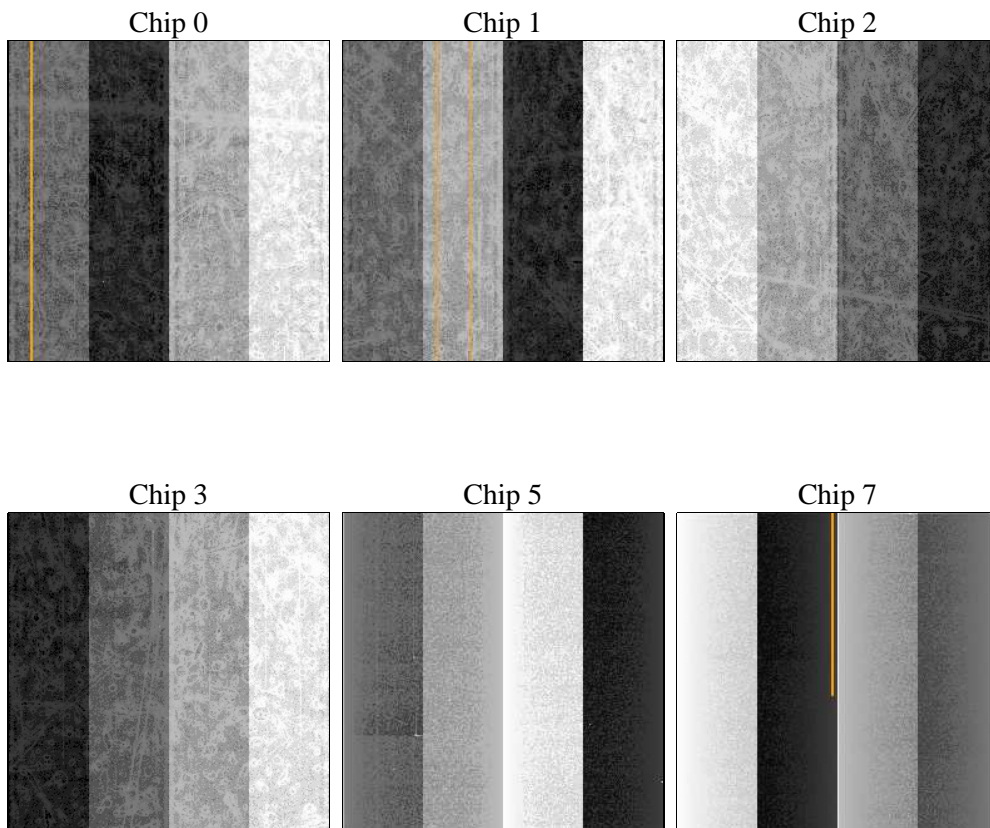
## 2 OBI

### 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	4622.9637104273	Sum of GTIs [s]
caldbver	4.5.5	&#160	ontime0	4622.922670424	Sum of GTIs [s]
date	2012-12-18T07:06:46	Date and time of file creation	ontime1	4622.8816304207	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	4622.8405904174	Sum of GTIs [s]
			ontime3	4623.0047504306	Sum of GTIs [s]
			ontime5	4622.7995504141	Sum of GTIs [s]
			ontime7	4622.9637104273	Sum of GTIs [s]
			l1events	547118	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	93509	103705	98789	90991	84004	76120	grade 0 events	10465	10243	10773	10934	6401	5671
rejected events	73735	84003	79073	71080	44698	40727		11%	9%	10%	12%	7%	7%
rejected %	78%	81%	80%	78%	53%	53%	grade 1 events	73	45	59	55	83	74
								0%	0%	0%	0%	0%	0%
							grade 2 events	3989	4208	3979	3893	14593	8940
								4%	4%	4%	4%	17%	11%
							grade 3 events	1407	1292	1394	1401	1593	3206
								1%	1%	1%	1%	1%	4%
							grade 4 events	1363	1287	1330	1443	1483	3093
								1%	1%	1%	1%	1%	4%
							grade 5 events	1821	1813	1537	1910	3895	4579
								1%	1%	1%	2%	4%	6%
							grade 6 events	3304	3433	3022	3039	16794	15832
								3%	3%	3%	3%	19%	20%
							grade 7 events	71087	81384	76695	68316	39162	34725
								76%	78%	77%	75%	46%	45%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012357	ACIS-012357
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	154.4001770170935
[deg] Pointing Dec	0	20.98723379881932
[deg] Pointing Roll	0.0	91.67838898518909
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)	472023120.705394	472023120.705394
Observation start date	2012-12-16T05:32:01	2012-12-16T05:32:00
[s] Observation end time (MET)	472029180.844411	472029180.844411
Observation end date	2012-12-16T07:13:01	2012-12-16T07:13:00
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

## 2.3 Star Slots

## 2.4 FID Slots

## **A Summary**

### **A.1 Status**

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.6229637104273

### **A.2 Comments**