

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 54022 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jan 12 2013

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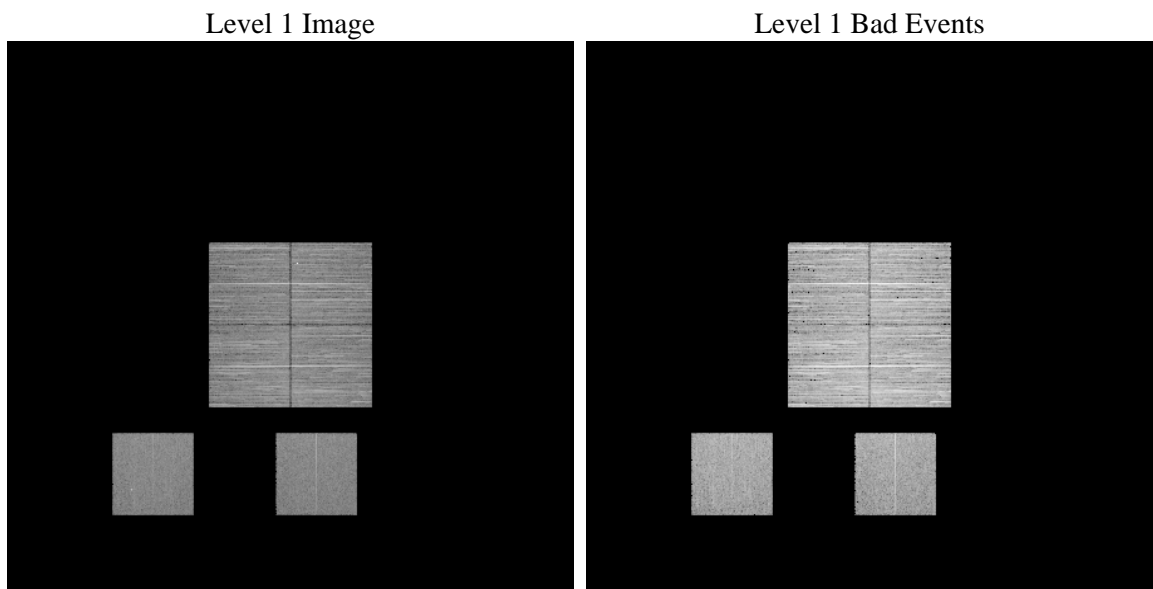
# 1 Front

seq_num	&#160	Sequence number
obs_id	54022	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	82.019242187158	Nominal RA [deg]
dec_nom	21.977691341213	Nominal Dec [deg]
roll_nom	275.46449282646	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5829.9364749789	Sum of GTIs [s]
livetime	5756.1143089664	Livetime [s]
ontime0	5829.8954349756	Sum of GTIs [s]
ontime1	5829.8543949723	Sum of GTIs [s]
ontime2	5829.813354969	Sum of GTIs [s]
ontime3	5829.9775149822	Sum of GTIs [s]
ontime5	5829.7723149657	Sum of GTIs [s]
ontime7	5829.9364749789	Sum of GTIs [s]
l2events	179010	Number of level 2 events

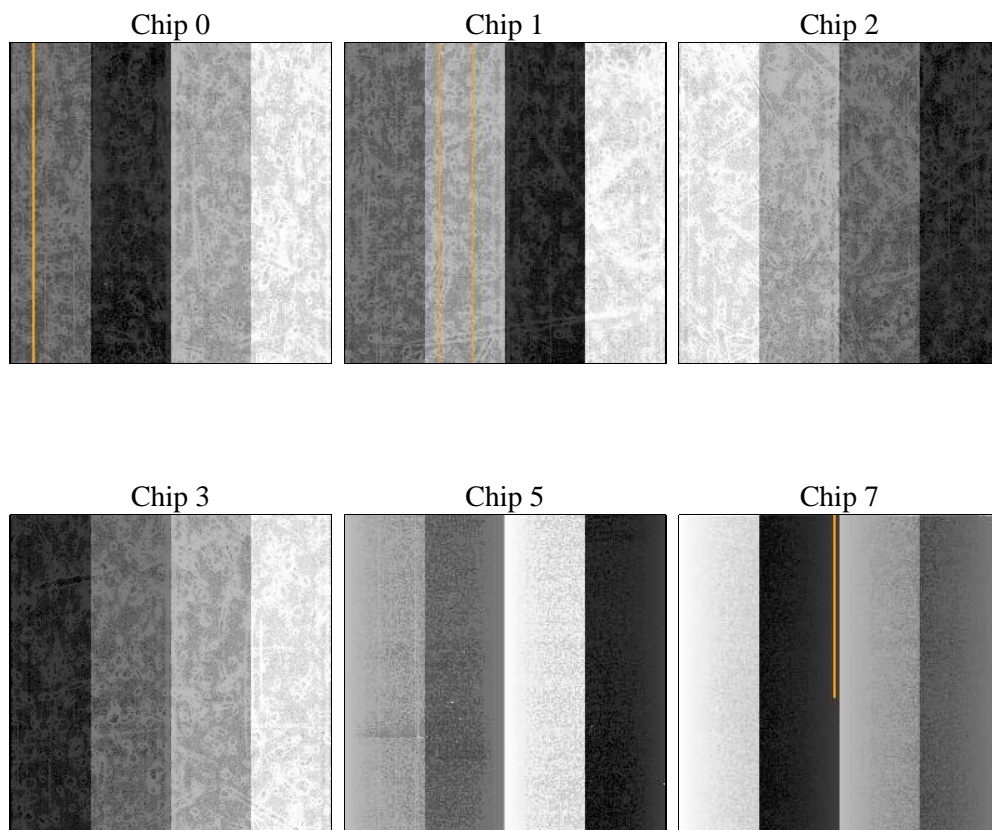
## 2 OBI

### 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	5829.9364749789	Sum of GTIs [s]
caldbver	4.5.5	&#160	ontime0	5829.8954349756	Sum of GTIs [s]
date	2013-01-12T22:19:57	Date and time of file creation	ontime1	5829.8543949723	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5829.813354969	Sum of GTIs [s]
			ontime3	5829.9775149822	Sum of GTIs [s]
			ontime5	5829.7723149657	Sum of GTIs [s]
			ontime7	5829.9364749789	Sum of GTIs [s]
			l1events	687812	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	110577	122255	129711	128978	99461	96830	grade 0 events	12357	13166	12607	12849	3761	6053
rejected events	85751	95907	105050	104234	54420	52883		11%	10%	9%	9%	3%	6%
rejected %	77%	78%	80%	80%	54%	54%	grade 1 events	52	59	77	64	111	55
								0%	0%	0%	0%	0%	0%
							grade 2 events	5169	5882	5033	4834	17107	10940
								4%	4%	3%	3%	17%	11%
							grade 3 events	1669	1556	1646	1711	1394	3449
								1%	1%	1%	1%	1%	3%
							grade 4 events	1648	1578	1607	1630	1337	3362
								1%	1%	1%	1%	1%	3%
							grade 5 events	2142	2116	1975	2377	4082	5409
								1%	1%	1%	1%	4%	5%
							grade 6 events	3983	4166	3768	3720	21442	20143
								3%	3%	2%	2%	21%	20%
							grade 7 events	83557	93732	102998	101793	50227	47419
								75%	76%	79%	78%	50%	48%

## 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	82.01924218715811	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	21.97769134121285	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	275.464492826461	[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)	474333964.87989	474333963.85489			
Observation start date	2013-01-11T23:26:05	2013-01-11T23:26:03			
[s] Observation end time (MET)	474340395.730237	474340394.70524			
Observation end date	2013-01-12T01:13:16	2013-01-12T01:13:14			
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)	2013.01.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.8299364749789

### A.2 Comments