

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 53508 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Aug 3 2013

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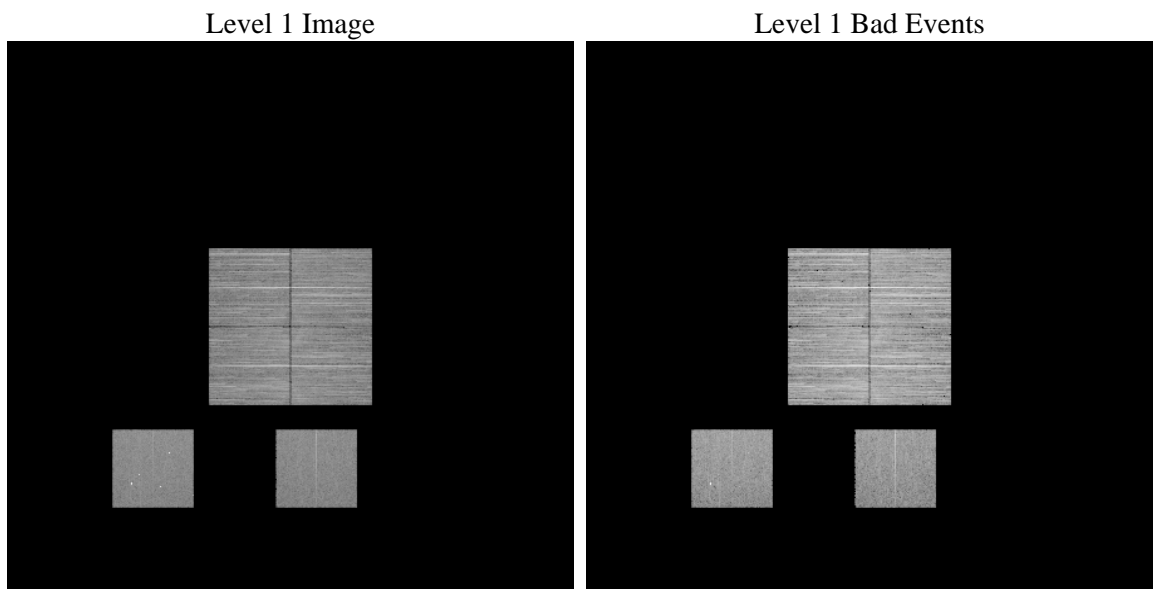
# 1 Front

seq_num	&#160	Sequence number
obs_id	53508	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	293.40085242462	Nominal RA [deg]
dec_nom	-4.6236372652644	Nominal Dec [deg]
roll_nom	227.3377948449	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8085.7394561172	Sum of GTIs [s]
livetime	7983.352954476	Livetime [s]
ontime0	8085.6984161139	Sum of GTIs [s]
ontime1	8082.4163857698	Sum of GTIs [s]
ontime2	8085.6163361073	Sum of GTIs [s]
ontime3	8085.7804961205	Sum of GTIs [s]
ontime5	8085.575296104	Sum of GTIs [s]
ontime7	8085.7394561172	Sum of GTIs [s]
l2events	226278	Number of level 2 events

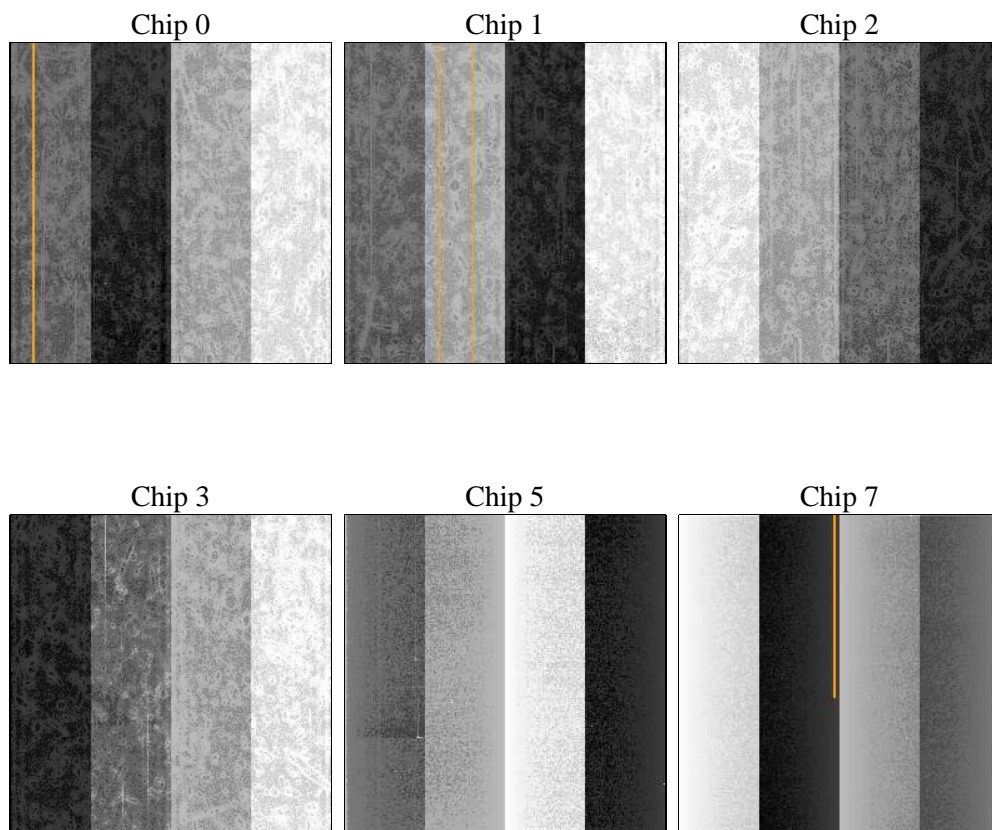
## 2 OBI

### 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	10	Processing system revision	ontime	8085.7394561172	Sum of GTIs [s]
caldsver	4.5.7	&#160	ontime0	8085.6984161139	Sum of GTIs [s]
date	2013-08-03T20:39:16	Date and time of file creation	ontime1	8082.4163857698	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8085.6163361073	Sum of GTIs [s]
			ontime3	8085.7804961205	Sum of GTIs [s]
			ontime5	8085.575296104	Sum of GTIs [s]
			ontime7	8085.7394561172	Sum of GTIs [s]
			l1events	853216	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	143419	152148	150714	149136	135212	122587	grade 0 events	16064	15575	16688	16381	9916	8542
rejected events	112498	121184	119704	118316	72010	66794		11%	10%	11%	10%	7%	6%
rejected %	78%	79%	79%	79%	53%	54%	grade 1 events	81	69	75	89	136	79
								0%	0%	0%	0%	0%	0%
							grade 2 events	6404	6645	5970	5909	23511	14011
								4%	4%	3%	3%	17%	11%
							grade 3 events	2106	2129	2211	2309	2248	4888
								1%	1%	1%	1%	1%	3%
							grade 4 events	2076	2212	2159	2186	2248	4697
								1%	1%	1%	1%	1%	3%
							grade 5 events	2791	2873	2600	3138	6008	7487
								1%	1%	1%	2%	4%	6%
							grade 6 events	5052	5252	4781	4855	26895	25101
								3%	3%	3%	3%	19%	20%
							grade 7 events	108845	117393	116230	114269	64250	57782
								75%	77%	77%	76%	47%	47%

## 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	OVERRIDE	OVERRIDE
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	293.400852424621	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-4.62363726526444	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	227.3377948449039	[s] Primary exposure time	3.2	3.2
SIM focus pos (mm)	-1.4281808131	-1.4281808131			
[mm] SIM defocus	0.1051557500557434	0.1051557500557434			
SIM translation stage pos (mm)	250.4635187649	250.4635187649			
[mm] SIM translation stage offset	-0.007542945905271381	-0.007542945905271381			
[s] Observation start time (MET)	491897357.231502	491897357.231502			
Observation start date	2013-08-03T06:09:17	2013-08-03T06:09:17			
[s] Observation end time (MET)	491906904.338713	491906904.338713			
Observation end date	2013-08-03T08:48:24	2013-08-03T08:48:24			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.08.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0857394561172

### A.2 Comments