

# V&V Reference Report

## L2 ASCDS Version : 10.4.1

Observation 51732 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jul 22 2015

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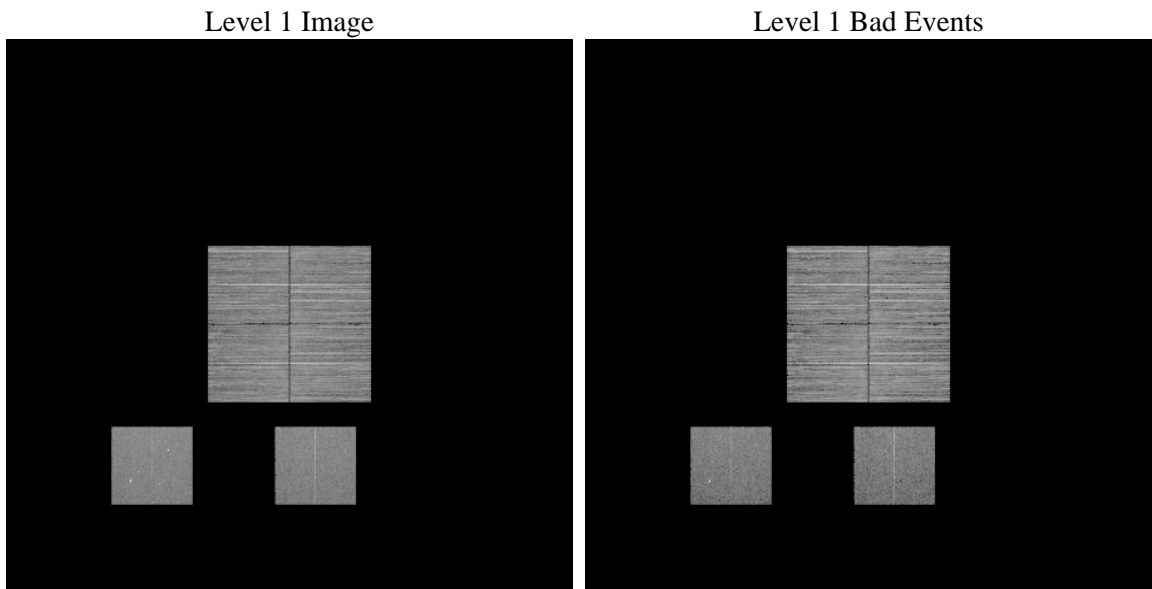
# 1 Front

seq_num	&#160	Sequence number
obs_id	51732	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	260.00264130537	Nominal RA [deg]
dec_nom	-2.728739855537	Nominal Dec [deg]
roll_nom	242.45668363888	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8420.1961194277	Sum of GTIs [s]
livetime	8313.5745261301	Livetime [s]
ontime0	8313.2417994738	Sum of GTIs [s]
ontime1	8306.759719491	Sum of GTIs [s]
ontime2	8306.759719491	Sum of GTIs [s]
ontime3	8303.5186794996	Sum of GTIs [s]
ontime5	8421.2588063478	Sum of GTIs [s]
ontime7	8420.1961194277	Sum of GTIs [s]
l2events	179557	Number of level 2 events

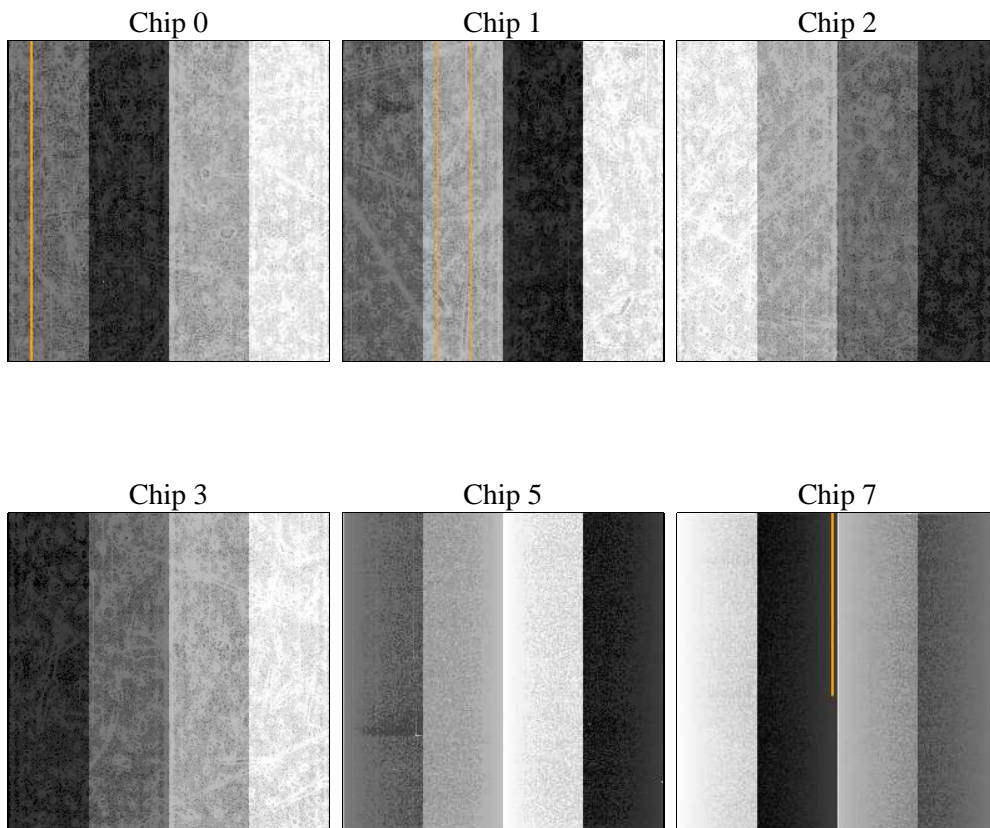
## 2 OBI

### 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	10.4.1	Processing system revision	ontime	8420.1961194277	Sum of GTIs [s]
caldsver	4.6.8	&#160	ontime0	8313.2417994738	Sum of GTIs [s]
date	2015-07-22T06:32:54	Date and time of file creation	ontime1	8306.759719491	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8306.759719491	Sum of GTIs [s]
			ontime3	8303.5186794996	Sum of GTIs [s]
			ontime5	8421.2588063478	Sum of GTIs [s]
			ontime7	8420.1961194277	Sum of GTIs [s]
			l1events	828977	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	141424	149808	140326	148588	130210	118621	grade 0 events	10397	10283	10744	10729	6545	5913
rejected events	119939	127904	118669	126996	73978	69450		7%	6%	7%	7%	5%	4%
rejected %	84%	85%	84%	85%	56%	58%	grade 1 events	65	61	59	66	142	95
								0%	0%	0%	0%	0%	0%
							grade 2 events	4556	4733	4366	4276	20156	12239
								3%	3%	3%	2%	15%	10%
							grade 3 events	1546	1514	1613	1526	1786	3909
								1%	1%	1%	1%	1%	3%
							grade 4 events	1445	1579	1547	1628	1773	3738
								1%	1%	1%	1%	1%	3%
							grade 5 events	2797	2866	2663	3091	6191	7555
								1%	1%	1%	2%	4%	6%
							grade 6 events	3541	3795	3387	3433	25998	23372
								2%	2%	2%	2%	19%	19%
							grade 7 events	117077	124977	115947	123839	67619	61800
								82%	83%	82%	83%	51%	52%

## 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	260.0026413053672	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-2.728739855536976	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	242.4566836388811	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-0.7809083437167272			
[mm] SIM defocus	0.1037507710433287	0.7524282956875696			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	553857737.364302	553857736.3393			
Observation start date	2015-07-21T09:22:17	2015-07-21T09:22:16			
[s] Observation end time (MET)	553870250.565006	553870249.54001			
Observation end date	2015-07-21T12:50:51	2015-07-21T12:50:49			
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)	2015.07.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4201961194277

### A.2 Comments