

# V&V Reference Report

## L2 ASCDS Version : 10.4

Observation 51835 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jun 11 2015

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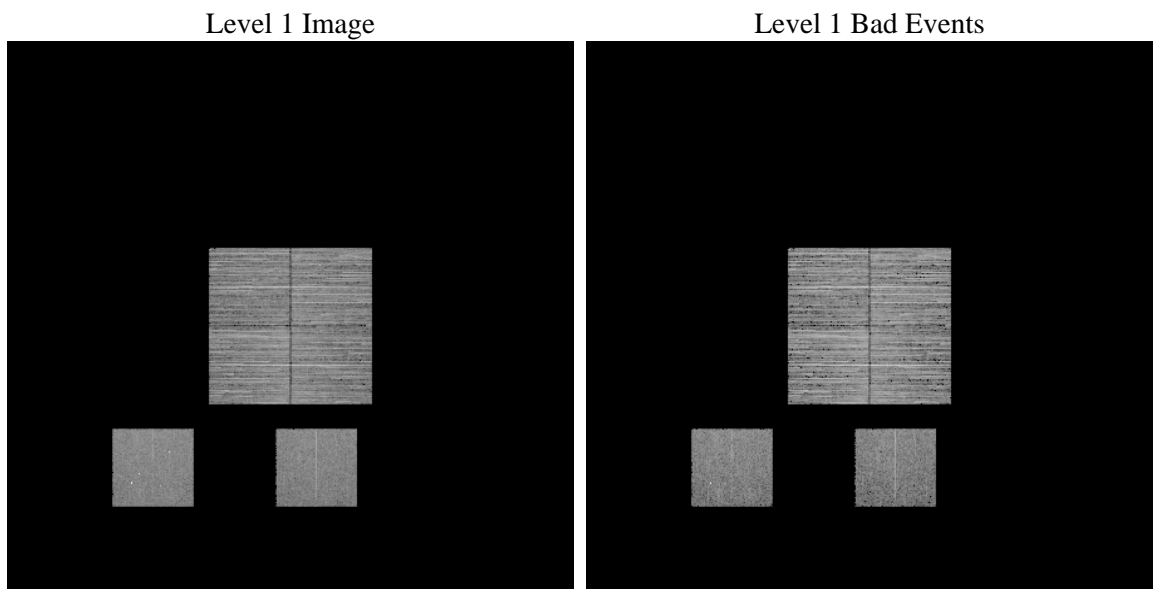
# 1 Front

seq_num	&#160	Sequence number
obs_id	51835	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	60.717919871331	Nominal RA [deg]
dec_nom	-20.84125623732	Nominal Dec [deg]
roll_nom	156.46053589791	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4627.2000689507	Sum of GTIs [s]
livetime	4568.6076755122	Livetime [s]
ontime0	4529.9724025726	Sum of GTIs [s]
ontime1	4539.6920883656	Sum of GTIs [s]
ontime2	4533.209908843	Sum of GTIs [s]
ontime3	4517.0048083067	Sum of GTIs [s]
ontime5	4627.2000689507	Sum of GTIs [s]
ontime7	4627.2000689507	Sum of GTIs [s]
l2events	101577	Number of level 2 events

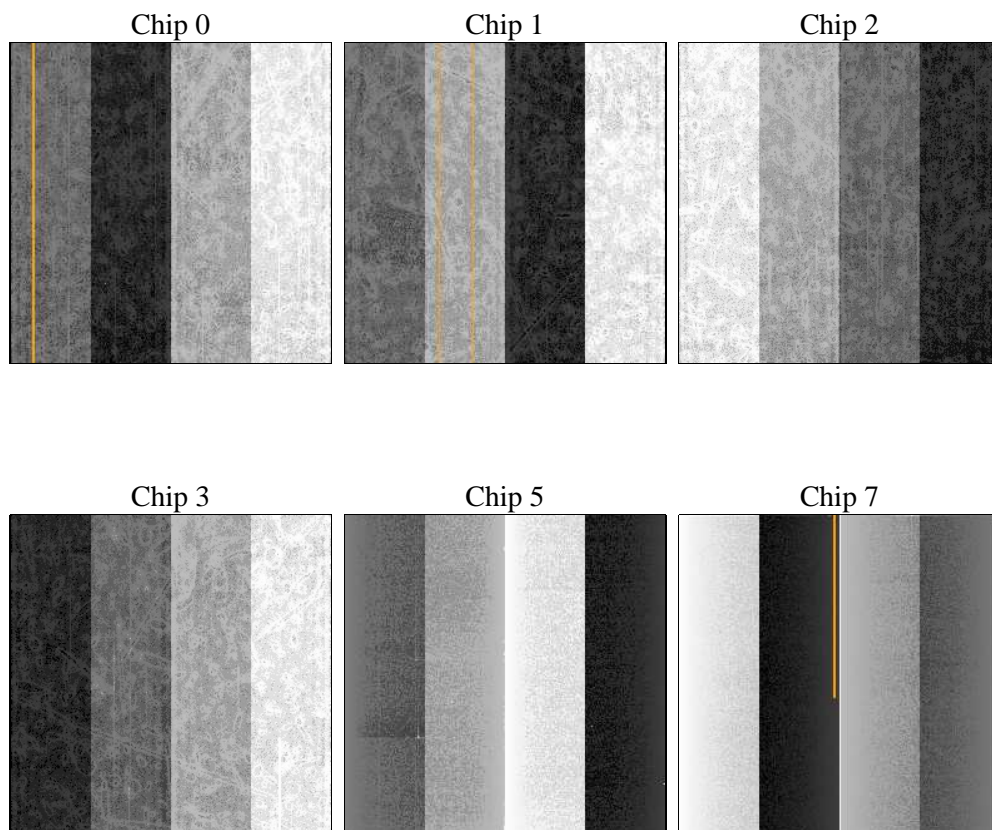
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	10.4	Processing system revision	ontime	4627.2000689507	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime0	4529.9724025726	Sum of GTIs [s]
date	2015-06-12T02:49:26	Date and time of file creation	ontime1	4539.6920883656	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	4533.209908843	Sum of GTIs [s]
			ontime3	4517.0048083067	Sum of GTIs [s]
			ontime5	4627.2000689507	Sum of GTIs [s]
			ontime7	4627.2000689507	Sum of GTIs [s]
			l1events	465660	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	75753	84755	88213	76288	74469	66182	grade 0 events	6031	6046	6112	6064	4021	3591
rejected events	63561	72123	75877	64262	42013	38277		7%	7%	6%	7%	5%	5%
rejected %	83%	85%	86%	84%	56%	57%	grade 1 events	38	42	40	46	70	45
								0%	0%	0%	0%	0%	0%
							grade 2 events	2497	2768	2562	2355	11539	6678
								3%	3%	2%	3%	15%	10%
							grade 3 events	886	839	910	844	1049	2163
								1%	0%	1%	1%	1%	3%
							grade 4 events	806	858	869	904	971	2160
								1%	1%	0%	1%	1%	3%
							grade 5 events	1544	1577	1524	1668	3924	4245
								2%	1%	1%	2%	5%	6%
							grade 6 events	1976	2135	1893	1869	14901	13326
								2%	2%	2%	2%	20%	20%
							grade 7 events	61975	70490	74303	62538	37994	33974
								81%	83%	84%	81%	51%	51%

## 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	60.71791987133082	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-20.84125623731987	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	156.4605358979088	[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)	550432006.771592	550432005.74659			
Observation start date	2015-06-11T17:46:47	2015-06-11T17:46:45			
[s] Observation end time (MET)	550440928.372092	550440927.34709			
Observation end date	2015-06-11T20:15:28	2015-06-11T20:15:27			
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)	2015.06.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.6272000689507

### A.2 Comments