

# V&V Reference Report

## L2 ASCDS Version : 10.4

Observation 51815 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jun 25 2015

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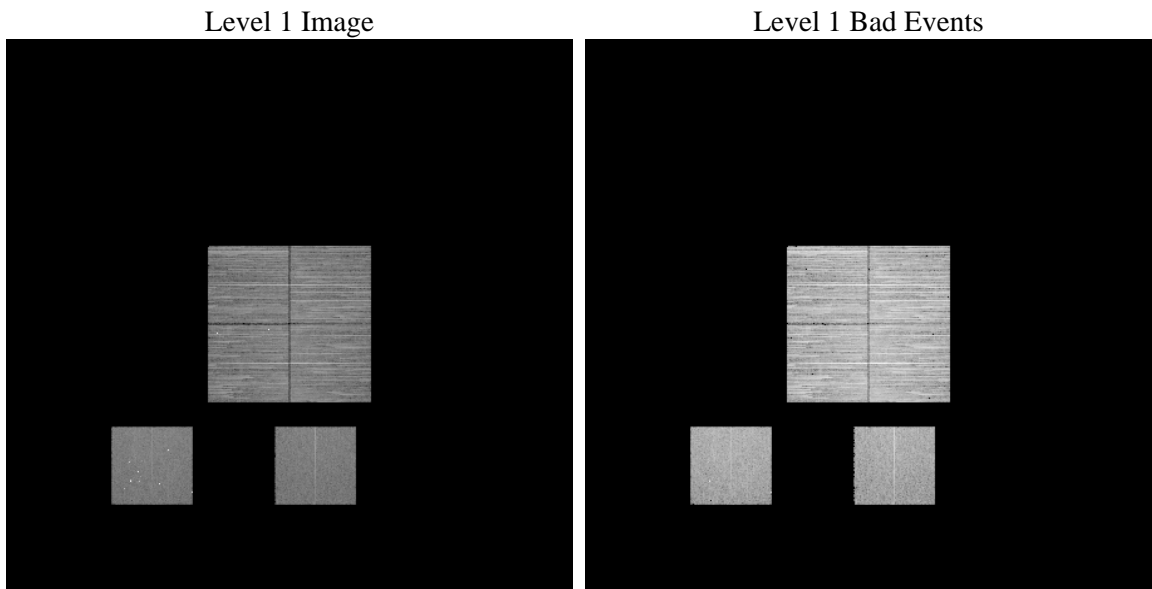
# 1 Front

seq_num	&#160	Sequence number
obs_id	51815	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	11.97272526767	Nominal RA [deg]
dec_nom	41.020274934575	Nominal Dec [deg]
roll_nom	102.67602787991	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8277.9377743006	Sum of GTIs [s]
livetime	8173.1175418267	Livetime [s]
ontime0	8277.8967342377	Sum of GTIs [s]
ontime1	8277.855694294	Sum of GTIs [s]
ontime2	8277.8146542311	Sum of GTIs [s]
ontime3	8277.9788142443	Sum of GTIs [s]
ontime5	8277.7736142874	Sum of GTIs [s]
ontime7	8277.9377743006	Sum of GTIs [s]
l2events	187716	Number of level 2 events

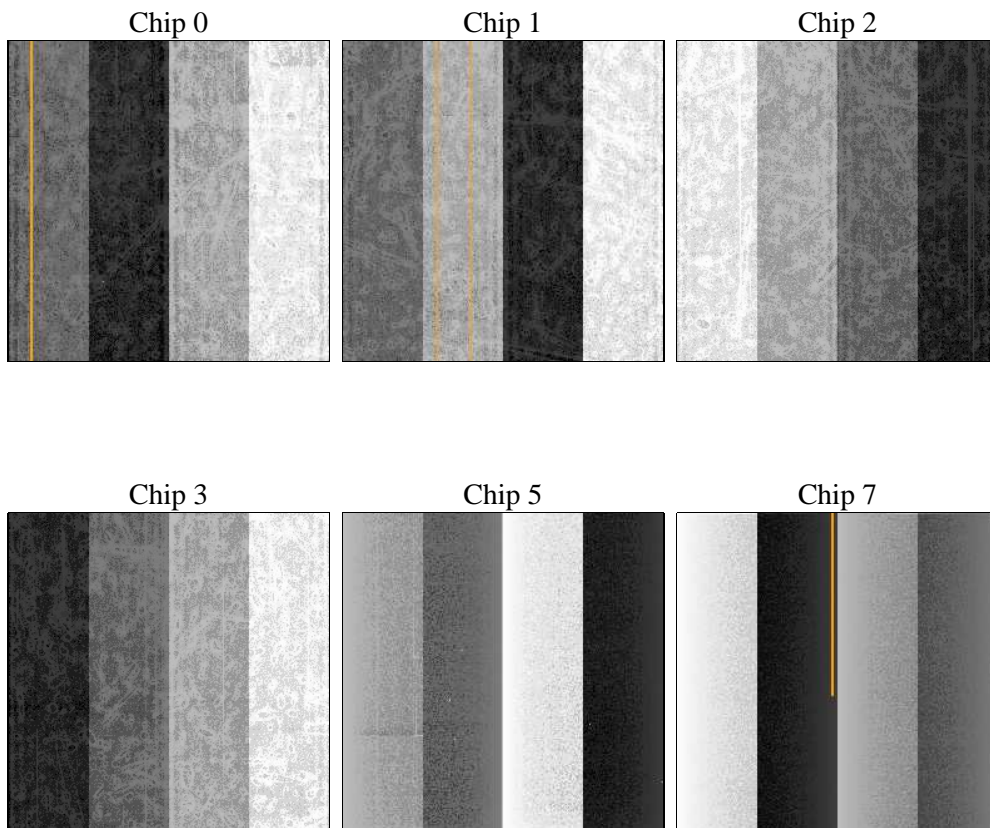
## 2 OBI

### 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	8277.9377743006	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime0	8277.8967342377	Sum of GTIs [s]
date	2015-06-25T15:32:26	Date and time of file creation	ontime1	8277.855694294	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8277.8146542311	Sum of GTIs [s]
			ontime3	8277.9788142443	Sum of GTIs [s]
			ontime5	8277.7736142874	Sum of GTIs [s]
			ontime7	8277.9377743006	Sum of GTIs [s]
			l1events	814595	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	136568	150457	143461	144092	128847	111170	grade 0 events	11789	11222	14833	12437	13657	6528
rejected events	111924	125646	113864	119090	65226	63050		8%	7%	10%	8%	10%	5%
rejected %	81%	83%	79%	82%	50%	56%	grade 1 events	73	58	71	68	325	90
								0%	0%	0%	0%	0%	0%
							grade 2 events	5346	5877	7374	4983	20841	11905
								3%	3%	5%	3%	16%	10%
							grade 3 events	1625	1596	1683	1733	2309	3661
								1%	1%	1%	1%	1%	3%
							grade 4 events	1584	1602	1705	1749	2337	3677
								1%	1%	1%	1%	1%	3%
							grade 5 events	2618	2628	2609	2935	5508	6737
								1%	1%	1%	2%	4%	6%
							grade 6 events	4344	4554	4042	4148	24534	22386
								3%	3%	2%	2%	19%	20%
							grade 7 events	109189	122920	111144	116039	59336	56186
								79%	81%	77%	80%	46%	50%

## 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	11.97272526767006	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	41.02027493457498	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	102.6760278799068	[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)	551534363.583559	551534362.55856			
Observation start date	2015-06-24T11:59:24	2015-06-24T11:59:22			
[s] Observation end time (MET)	551544250.734115	551544249.70911			
Observation end date	2015-06-24T14:44:11	2015-06-24T14:44:09			
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)	2015.06.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2779377743006

### A.2 Comments