

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 51971 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Apr 3 2015

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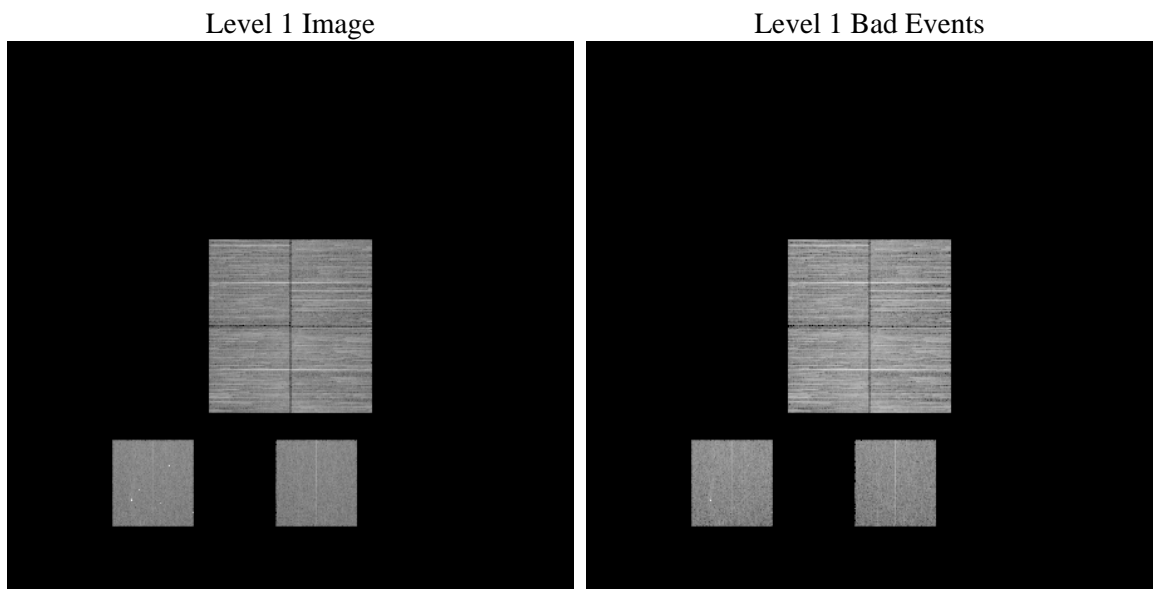
# 1 Front

seq_num	&#160	Sequence number
obs_id	51971	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	179.60017360857	Nominal RA [deg]
dec_nom	6.773926888302	Nominal Dec [deg]
roll_nom	226.1825366897	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8079.3869875669	Sum of GTIs [s]
livetime	7977.0809247076	Livetime [s]
ontime0	8079.345947504	Sum of GTIs [s]
ontime1	8079.3049075603	Sum of GTIs [s]
ontime2	8079.2638674974	Sum of GTIs [s]
ontime3	8079.4280275106	Sum of GTIs [s]
ontime5	8079.2228275537	Sum of GTIs [s]
ontime7	8079.3869875669	Sum of GTIs [s]
l2events	173038	Number of level 2 events

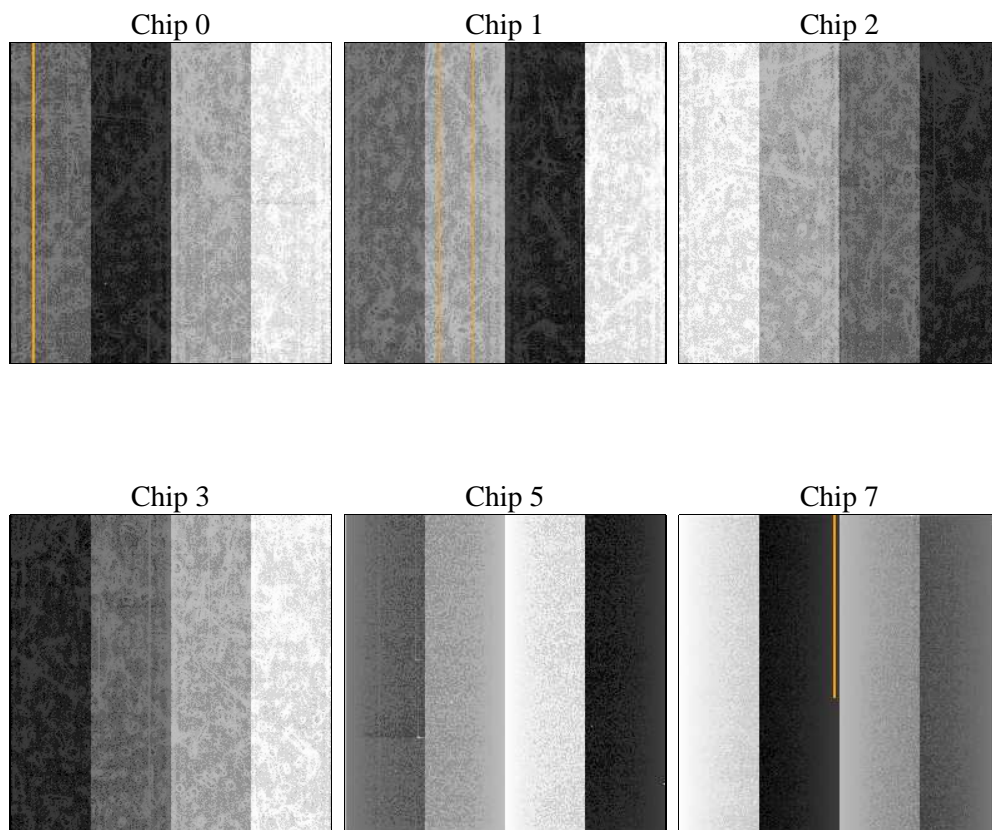
## 2 OBI

### 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	10.3.3	Processing system revision	ontime	8079.3869875669	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime0	8079.345947504	Sum of GTIs [s]
date	2015-04-03T23:32:11	Date and time of file creation	ontime1	8079.3049075603	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8079.2638674974	Sum of GTIs [s]
			ontime3	8079.4280275106	Sum of GTIs [s]
			ontime5	8079.2228275537	Sum of GTIs [s]
			ontime7	8079.3869875669	Sum of GTIs [s]
			l1events	789093	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	133041	132592	148234	147460	119673	108093	grade 0 events	11121	10765	11295	11223	6702	5978
rejected events	111126	110649	126403	125696	67504	62486		8%	8%	7%	7%	5%	5%
rejected %	83%	83%	85%	85%	56%	57%	grade 1 events	69	47	60	59	160	81
								0%	0%	0%	0%	0%	0%
							grade 2 events	4692	4890	4507	4331	19290	11552
								3%	3%	3%	2%	16%	10%
							grade 3 events	1561	1557	1552	1568	1773	3710
								1%	1%	1%	1%	1%	3%
							grade 4 events	1495	1490	1555	1640	1676	3686
								1%	1%	1%	1%	1%	3%
							grade 5 events	2523	2606	2362	2918	5616	7111
								1%	1%	1%	1%	4%	6%
							grade 6 events	3576	3794	3467	3519	23960	21835
								2%	2%	2%	2%	20%	20%
							grade 7 events	108004	107443	123436	122202	60496	54140
								81%	81%	83%	82%	50%	50%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012357	ACIS-012357
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	179.6001736085739
[deg] Pointing Dec	0	6.773926888302013
[deg] Pointing Roll	0.0	226.1825366897048
SIM focus pos (mm)	-1.4281808131	-1.4281808131
[mm] SIM defocus	0.1051557500557434	0.1051557500557434
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	544448952.28615	544448952.28615
Observation start date	2015-04-03T11:49:12	2015-04-03T11:49:12
[s] Observation end time (MET)	544458499.184886	544458499.184886
Observation end date	2015-04-03T14:28:19	2015-04-03T14:28:19
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.04.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0793869875669

### A.2 Comments