

# V&V Reference Report

## L2 ASCDS Version : 10.3.1

Observation 52184 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jan 14 2015

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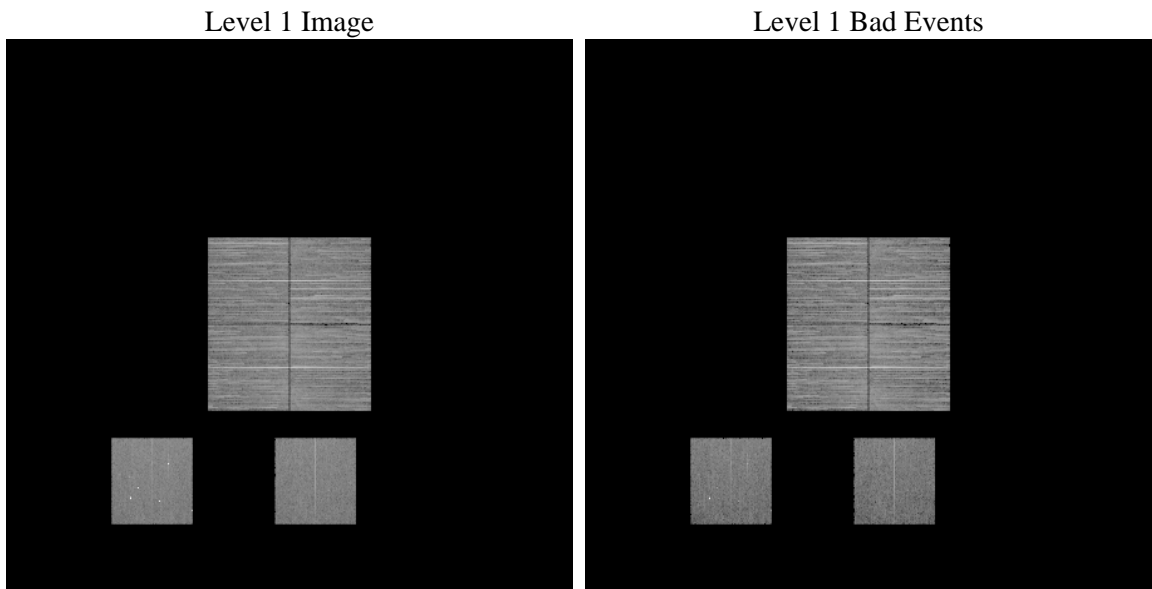
# 1 Front

seq_num	&#160	Sequence number
obs_id	52184	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	145.36573267647	Nominal RA [deg]
dec_nom	18.824634788779	Nominal Dec [deg]
roll_nom	79.672076591098	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7996.038877368	Sum of GTIs [s]
livetime	7894.7882184662	Livetime [s]
ontime0	7995.9978373051	Sum of GTIs [s]
ontime1	7995.9567973614	Sum of GTIs [s]
ontime2	7995.9157572985	Sum of GTIs [s]
ontime3	7996.0799173117	Sum of GTIs [s]
ontime5	7995.8747173548	Sum of GTIs [s]
ontime7	7996.038877368	Sum of GTIs [s]
l2events	182973	Number of level 2 events

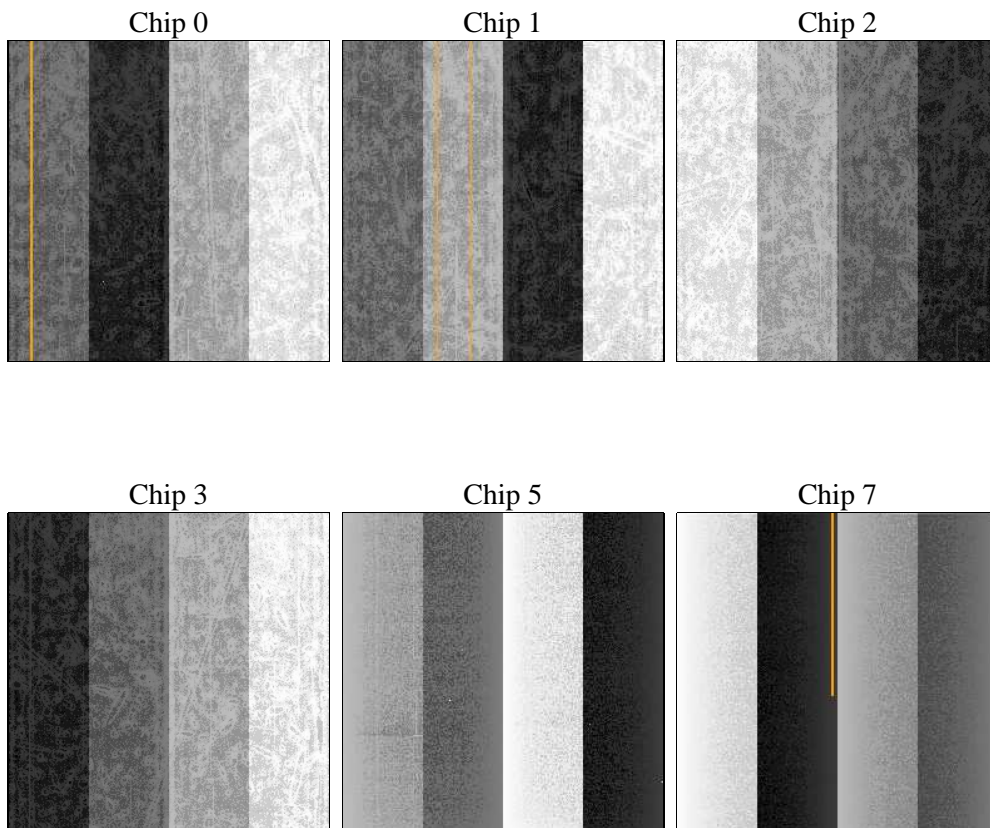
## 2 OBI

### 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	10.3.1	Processing system revision	ontime	7996.038877368	Sum of GTIs [s]
caldsver	4.6.5	&#160	ontime0	7995.9978373051	Sum of GTIs [s]
date	2015-01-14T15:23:45	Date and time of file creation	ontime1	7995.9567973614	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	7995.9157572985	Sum of GTIs [s]
			ontime3	7996.0799173117	Sum of GTIs [s]
			ontime5	7995.8747173548	Sum of GTIs [s]
			ontime7	7996.038877368	Sum of GTIs [s]
			l1events	879766	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	146153	157229	154405	160398	138787	122794	grade 0 events	11433	11289	11825	12071	11429	6557
rejected events	123525	134078	131839	137226	79280	73777		7%	7%	7%	7%	8%	5%
rejected %	84%	85%	85%	85%	57%	60%	grade 1 events	69	53	76	75	165	84
								0%	0%	0%	0%	0%	0%
							grade 2 events	4807	5332	4617	4659	20058	12402
								3%	3%	2%	2%	14%	10%
							grade 3 events	1664	1596	1664	1678	1848	4048
								1%	1%	1%	1%	1%	3%
							grade 4 events	1663	1646	1689	1690	1771	3762
								1%	1%	1%	1%	1%	3%
							grade 5 events	2903	2930	2845	3358	6300	7751
								1%	1%	1%	2%	4%	6%
							grade 6 events	3900	4049	3572	3851	26570	23948
								2%	2%	2%	2%	19%	19%
							grade 7 events	119714	130334	128117	133016	70646	64242
								81%	82%	82%	82%	50%	52%

## 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	145.3657326764677
[deg] Pointing Dec	0	18.82463478877887
[deg] Pointing Roll	0.0	79.67207659109836
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)	537597942.1030951	537597942.1030951
Observation start date	2015-01-14T04:45:42	2015-01-14T04:45:42
[s] Observation end time (MET)	537607489.359688	537607489.359688
Observation end date	2015-01-14T07:24:49	2015-01-14T07:24:49
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	Jen Lauer
V&V Date (YYYY-MM-DD)	2015.01.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.996038877368

### A.2 Comments