

# V&V Reference Report

## L2 ASCDS Version : 10.4

Observation 51837 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jun 11 2015

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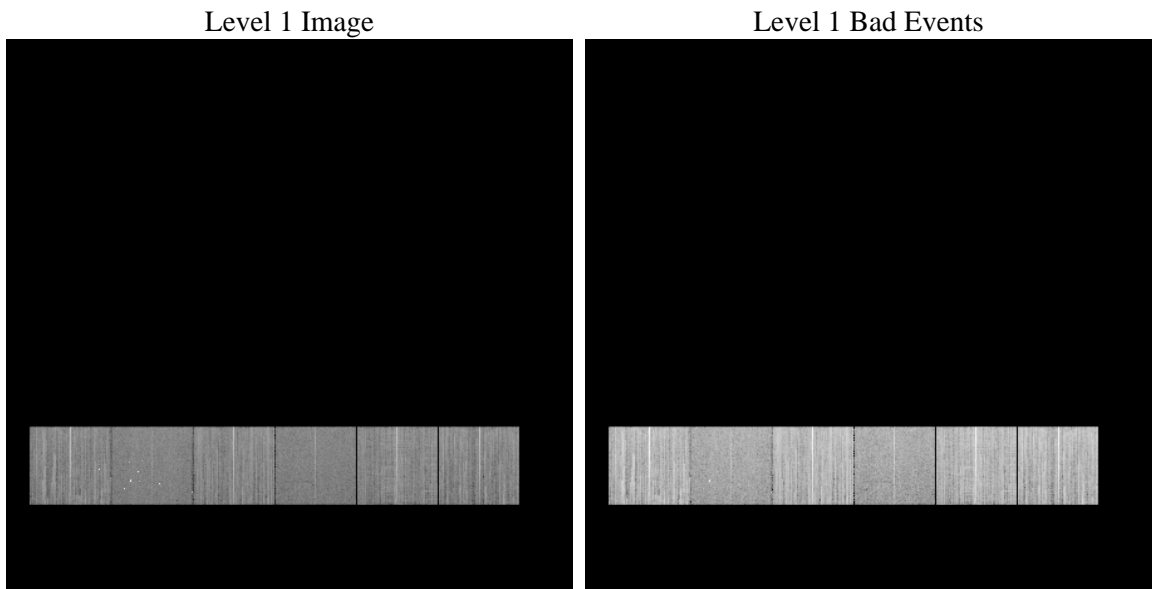
# 1 Front

seq_num	&#160	Sequence number
obs_id	51837	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycycle	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	179.92546058935	Nominal RA [deg]
dec_nom	5.1493021328697	Nominal Dec [deg]
roll_nom	244.28232010725	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8091.3708474636	Sum of GTIs [s]
livetime	7988.9130377544	Livetime [s]
ontime4	8091.2477273941	Sum of GTIs [s]
ontime5	8091.3298074007	Sum of GTIs [s]
ontime6	8091.288767457	Sum of GTIs [s]
ontime7	8091.3708474636	Sum of GTIs [s]
ontime8	8091.2066874504	Sum of GTIs [s]
ontime9	8091.4118874073	Sum of GTIs [s]
l2events	194104	Number of level 2 events

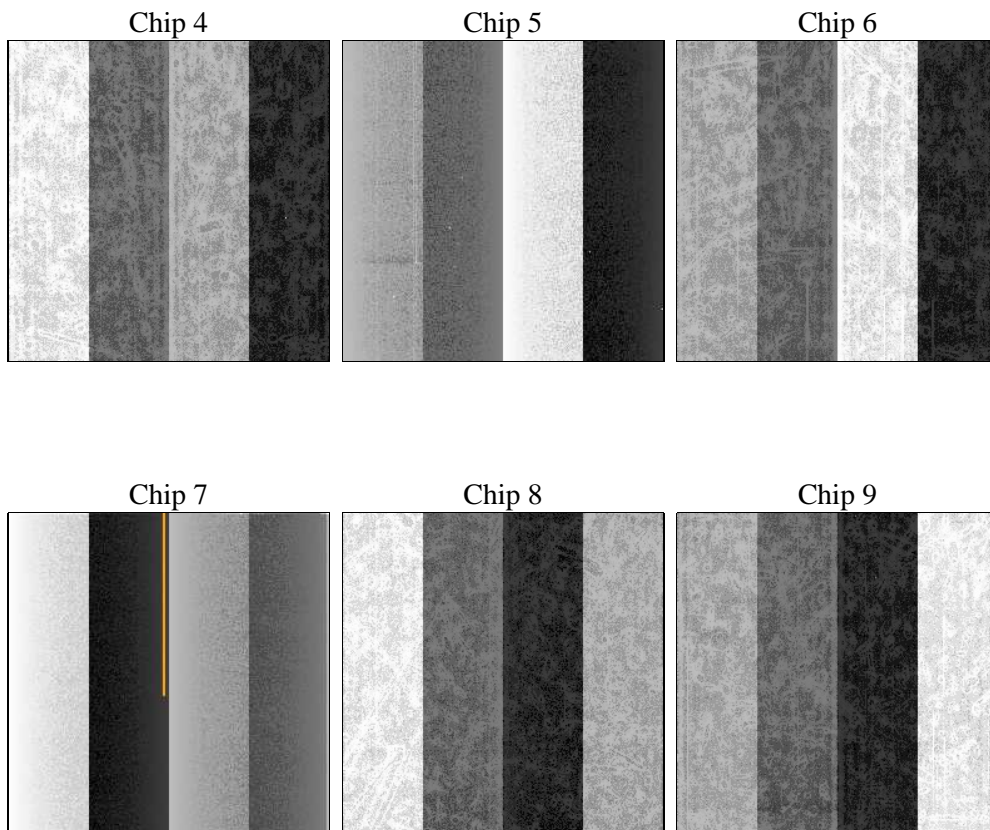
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	10.4	Processing system revision	ontime	8091.3708474636	Sum of GTIs [s]
caldbver	4.6.7	&#160	ontime4	8091.2477273941	Sum of GTIs [s]
date	2015-06-11T22:34:06	Date and time of file creation	ontime5	8091.3298074007	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8091.288767457	Sum of GTIs [s]
			ontime7	8091.3708474636	Sum of GTIs [s]
			ontime8	8091.2066874504	Sum of GTIs [s]
			ontime9	8091.4118874073	Sum of GTIs [s]
			l1events	921587	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	160813	139934	165084	123078	166854	165824	grade 0 events	15590	11162	10139	6028	14331	11521
rejected events	132928	77248	139514	73858	132646	140478		9%	7%	6%	4%	8%	6%
rejected %	82%	55%	84%	60%	79%	84%	grade 1 events	143	625	38	78	83	56
								0%	0%	0%	0%	0%	0%
							grade 2 events	5618	21729	7871	12780	8348	6296
								3%	15%	4%	10%	5%	3%
							grade 3 events	1887	1684	1383	3430	2554	1574
								1%	1%	0%	2%	1%	0%
							grade 4 events	1770	1692	1390	3256	2516	1579
								1%	1%	0%	2%	1%	0%
							grade 5 events	3030	5337	2674	6711	3854	3210
								1%	3%	1%	5%	2%	1%
							grade 6 events	4059	27917	5846	25040	7630	5313
								2%	19%	3%	20%	4%	3%
							grade 7 events	128716	69788	135743	65755	127538	136275
								80%	49%	82%	53%	76%	82%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	OVERRIDE	OVERRIDE
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	179.9254605893536	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	5.149302132869715	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	244.2823201072465	[s] Primary exposure time	3.2	3.2
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)	550389811.619224	550389811.619224			
Observation start date	2015-06-11T06:03:32	2015-06-11T06:03:31			
[s] Observation end time (MET)	550399359.121199	550399359.121199			
Observation end date	2015-06-11T08:42:39	2015-06-11T08:42:39			
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)	2015.06.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0913708474636

## A.2 Comments