

# V&V Reference Report

## L2 ASCDS Version : 10.4.1

Observation 51637 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Sep 9 2015

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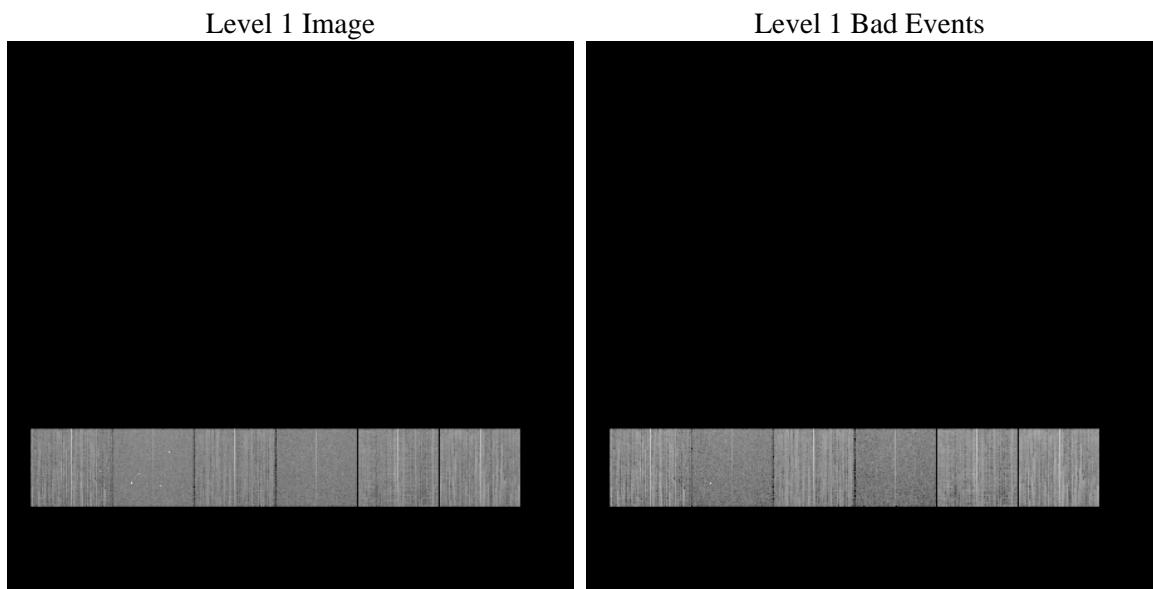
# 1 Front

seq_num	&#160	Sequence number
obs_id	51637	Observation id
title	ACIS-456789 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	11.889263387614	Nominal RA [deg]
dec_nom	-11.073112171493	Nominal Dec [deg]
roll_nom	78.561429444624	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8451.2001259327	Sum of GTIs [s]
livetime	8344.1859412364	Livetime [s]
ontime4	8451.2001259327	Sum of GTIs [s]
ontime5	8451.2001259327	Sum of GTIs [s]
ontime6	8451.2001259327	Sum of GTIs [s]
ontime7	8451.2001259327	Sum of GTIs [s]
ontime8	8451.2001259327	Sum of GTIs [s]
ontime9	8451.2001259327	Sum of GTIs [s]
l2events	182165	Number of level 2 events

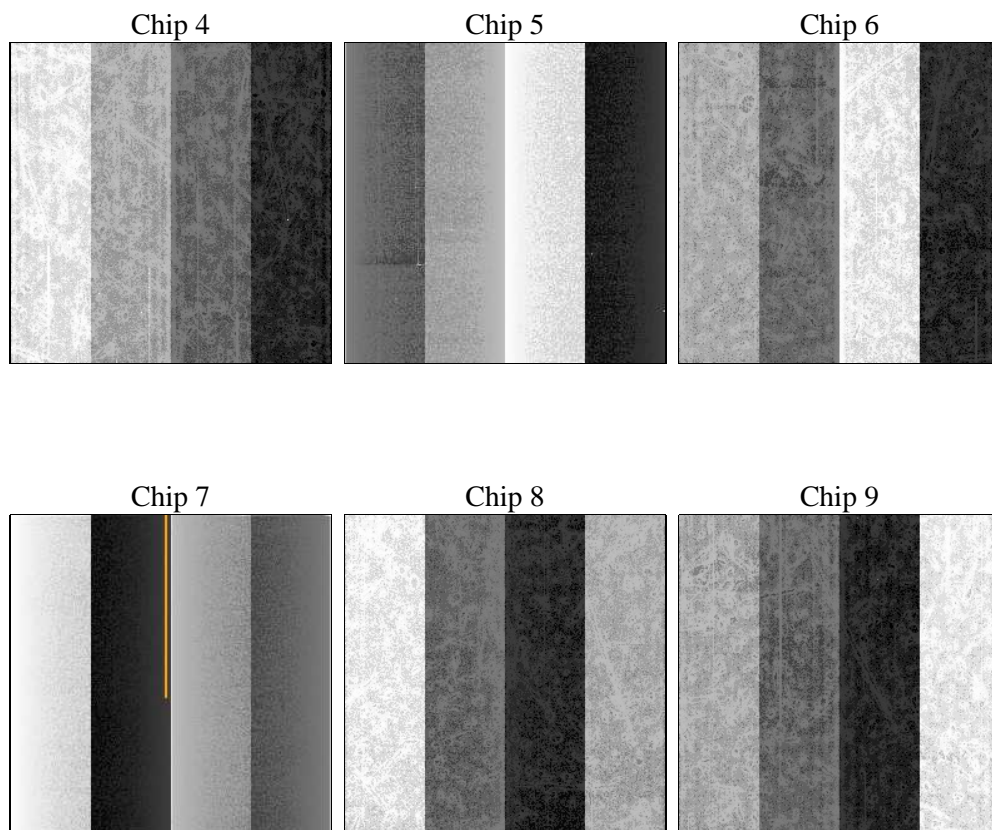
## 2 OBI

### 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	10.4.1	Processing system revision	ontime	8451.2001259327	Sum of GTIs [s]
caldbver	4.6.8	&#160	ontime4	8451.2001259327	Sum of GTIs [s]
date	2015-09-09T23:55:44	Date and time of file creation	ontime5	8451.2001259327	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8451.2001259327	Sum of GTIs [s]
			ontime7	8451.2001259327	Sum of GTIs [s]
			ontime8	8451.2001259327	Sum of GTIs [s]
			ontime9	8451.2001259327	Sum of GTIs [s]
			l1events	874281	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	146624	133028	148939	119224	155253	171213	grade 0 events	11388	6641	10491	5956	13367	10669
rejected events	124455	75996	126583	69937	123005	148924		7%	4%	7%	4%	8%	6%
rejected %	84%	57%	84%	58%	79%	86%	grade 1 events	101	137	56	106	69	62
								0%	0%	0%	0%	0%	0%
							grade 2 events	4434	20575	4777	12196	6919	4693
								3%	15%	3%	10%	4%	2%
							grade 3 events	1627	1724	1554	3796	2585	1573
								1%	1%	1%	3%	1%	0%
							grade 4 events	1620	1625	1569	3855	2617	1532
								1%	1%	1%	3%	1%	0%
							grade 5 events	3352	6495	3234	7642	4198	3579
								2%	4%	2%	6%	2%	2%
							grade 6 events	3124	26512	3983	23504	6780	3833
								2%	19%	2%	19%	4%	2%
							grade 7 events	120978	69319	123275	62169	118718	145272
								82%	52%	82%	52%	76%	84%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	11.88926338761424
[deg] Pointing Dec	0	-11.07311217149344
[deg] Pointing Roll	0.0	78.56142944462403
[mm] SIM focus pos	-1.429586	-0.7809083437167272
[mm] SIM defocus	0.1037507710433287	0.7524282956875696
[mm] SIM translation stage pos	250.455976	250.4635187648994
[mm] SIM translation stage offset	0	-0.007540371344731511
[s] Observation start time (MET)	558202677.7591259	558202676.73413
Observation start date	2015-09-09T16:17:58	2015-09-09T16:17:56
[s] Observation end time (MET)	558214692.809804	558214691.7848001
Observation end date	2015-09-09T19:38:13	2015-09-09T19:38:11
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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)	2015.09.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4512001259327

### A.2 Comments