

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 61943 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Sep 1 2012

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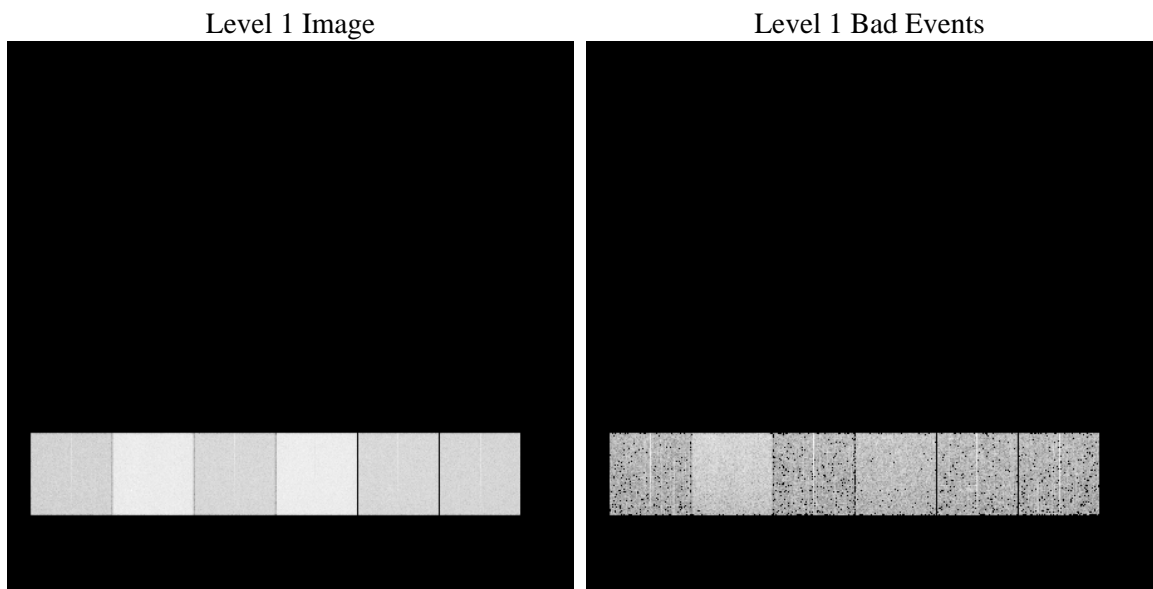
# 1 Front

seq_num	&#160	Sequence number
obs_id	61943	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	187.7441948907	Nominal RA [deg]
dec_nom	-37.362264813467	Nominal Dec [deg]
roll_nom	213.37456084818	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4899.8868299574	Sum of GTIs [s]
livetime	4837.8415125588	Livetime [s]
ontime4	2005.537781626	Sum of GTIs [s]
ontime5	5262.833833769	Sum of GTIs [s]
ontime6	2225.9694014639	Sum of GTIs [s]
ontime7	4899.8868299574	Sum of GTIs [s]
ontime8	2242.0926011503	Sum of GTIs [s]
ontime9	2128.8613217026	Sum of GTIs [s]
l2events	1360757	Number of level 2 events

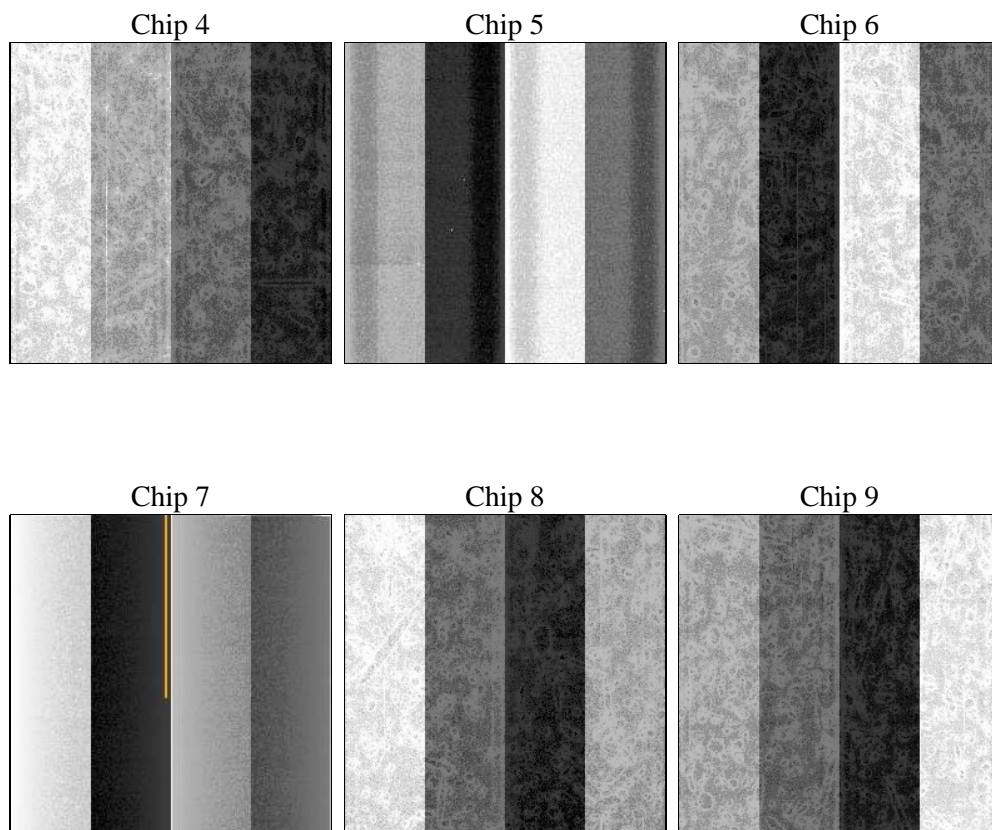
## 2 OBI

### 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	8.4.5	Processing system revision	ontime	4899.8868299574	Sum of GTIs [s]
caldbver	4.5.1.1	&#160	ontime4	2005.537781626	Sum of GTIs [s]
date	2012-09-01T07:44:25	Date and time of file creation	ontime5	5262.833833769	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	2225.9694014639	Sum of GTIs [s]
			ontime7	4899.8868299574	Sum of GTIs [s]
			ontime8	2242.0926011503	Sum of GTIs [s]
			ontime9	2128.8613217026	Sum of GTIs [s]
			l1events	1555945	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	166123	396792	197695	412291	200269	182775	grade 0 events	83558	79793	98259	99222	100154	90365
rejected events	18201	40518	18074	24270	19784	18255		50%	20%	49%	24%	50%	49%
rejected %	10%	10%	9%	5%	9%	9%	grade 1 events	452	247	482	243	497	443
								0%	0%	0%	0%	0%	0%
							grade 2 events	26536	135692	30879	85455	31670	28912
								15%	34%	15%	20%	15%	15%
							grade 3 events	8812	20992	10763	39310	11207	10126
								5%	5%	5%	9%	5%	5%
							grade 4 events	8793	20786	10908	38939	11247	10257
								5%	5%	5%	9%	5%	5%
							grade 5 events	1282	7967	1482	5403	1622	1403
								0%	2%	0%	1%	0%	0%
							grade 6 events	20223	99011	28812	125095	26207	24860
								12%	24%	14%	30%	13%	13%
							grade 7 events	16467	32304	16110	18624	17665	16409
								9%	8%	8%	4%	8%	8%

## 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	187.7441948907027
[deg] Pointing Dec	0	-37.36226481346674
[deg] Pointing Roll	0.0	213.3745608481751
[mm] SIM focus pos	-0.684267	-0.7809083437167272
[mm] SIM defocus	0	0.7524282956875696
[mm] SIM translation stage pos	-190.132523	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	84336944.714	84336943.94598199
Observation start date	2000-09-03T02:55:45	2000-09-03T02:55:43
[s] Observation end time (MET)	84347455.065	84347454.296376
Observation end date	2000-09-03T05:50:55	2000-09-03T05:50:54
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.09.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.8998868299574

### A.2 Comments