

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 61542 - L2 Version 5  
Chandra X-Ray Center

L2 Processing Date : Sep 20 2012

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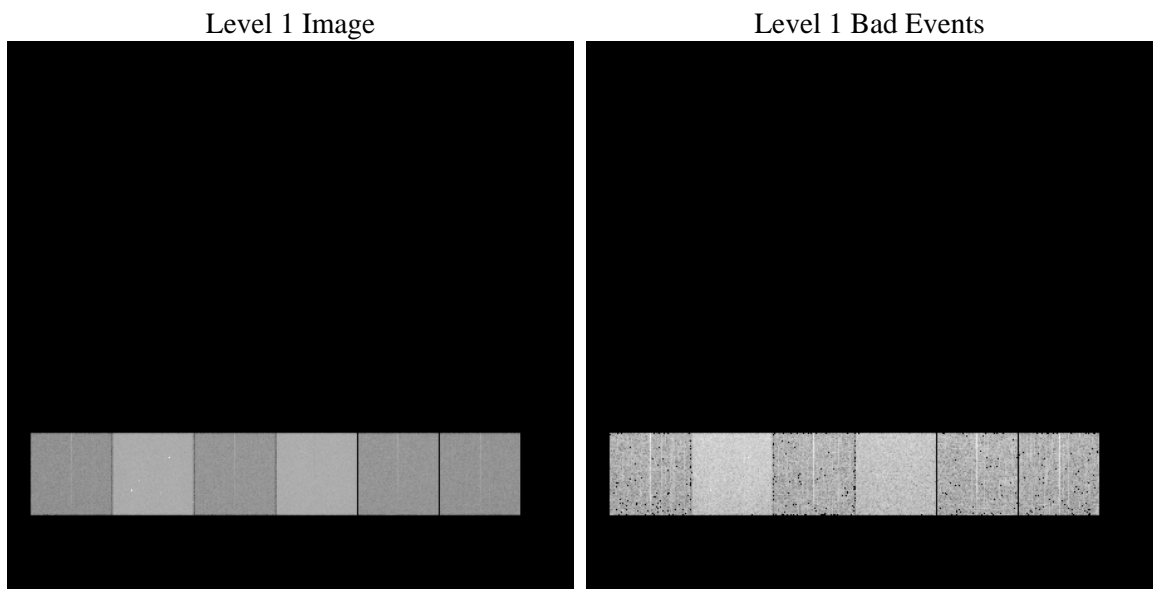
# 1 Front

seq_num	&#160	Sequence number
obs_id	61542	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	275.01485041556	Nominal RA [deg]
dec_nom	-21.025097180909	Nominal Dec [deg]
roll_nom	266.35209103155	Nominal Roll [deg]
revision	5	Processing version of data
ontime	5359.1687289774	Sum of GTIs [s]
livetime	5291.3077076271	Livetime [s]
ontime4	2021.0564219654	Sum of GTIs [s]
ontime5	5738.4030600637	Sum of GTIs [s]
ontime6	2203.9536911696	Sum of GTIs [s]
ontime7	5359.1687289774	Sum of GTIs [s]
ontime8	2209.0776918083	Sum of GTIs [s]
ontime9	2118.1233022958	Sum of GTIs [s]
l2events	1176082	Number of level 2 events

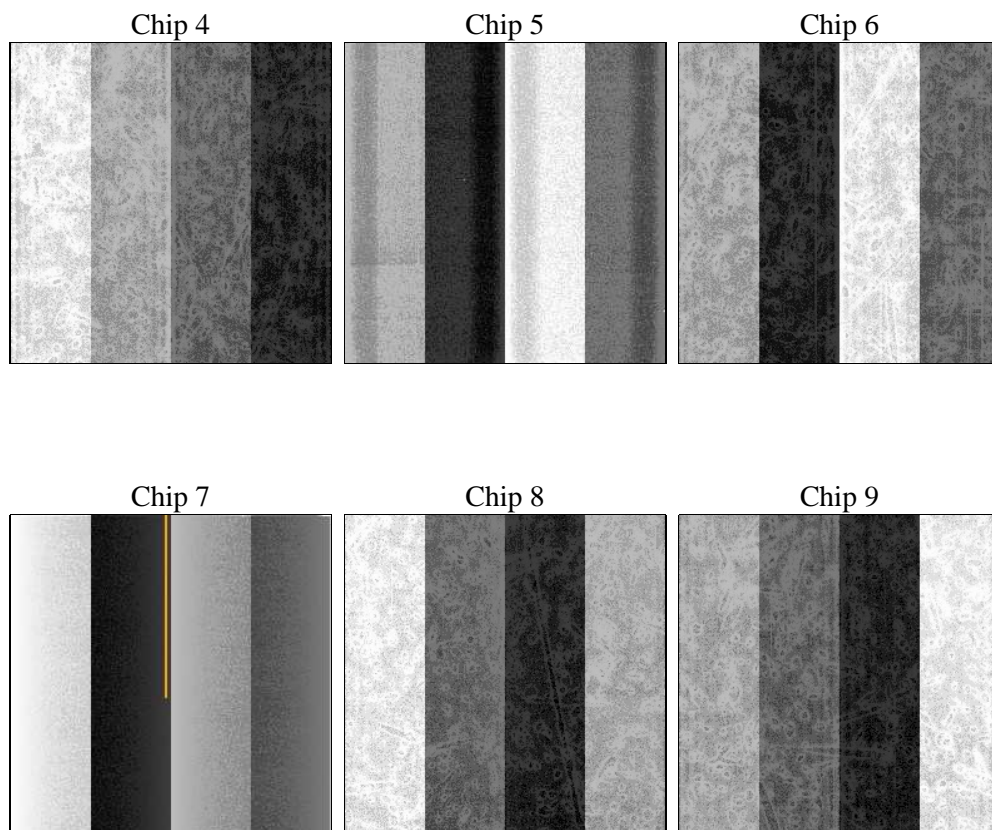
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8520	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5359.1687289774	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime4	2021.0564219654	Sum of GTIs [s]
date	2012-09-20T23:53:05	Date and time of file creation	ontime5	5738.4030600637	Sum of GTIs [s]
revision	5	Processing version of data	ontime6	2203.9536911696	Sum of GTIs [s]
			ontime7	5359.1687289774	Sum of GTIs [s]
			ontime8	2209.0776918083	Sum of GTIs [s]
			ontime9	2118.1233022958	Sum of GTIs [s]
			l1events	1426940	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	147224	385623	170744	394076	172048	157225	grade 0 events	71857	86502	82370	93299	82698	75245
rejected events	23595	55615	25144	43428	26262	23867		48%	22%	48%	23%	48%	47%
rejected %	16%	14%	14%	11%	15%	15%	grade 1 events	409	272	505	248	433	422
								0%	0%	0%	0%	0%	0%
							grade 2 events	22528	119719	26360	80139	26601	24292
								15%	31%	15%	20%	15%	15%
							grade 3 events	7964	22509	9132	37014	9334	8633
								5%	5%	5%	9%	5%	5%
							grade 4 events	7873	22336	9333	36811	9385	8478
								5%	5%	5%	9%	5%	5%
							grade 5 events	1191	8445	1409	6442	1569	1356
								0%	2%	0%	1%	0%	0%
							grade 6 events	17439	90715	23638	115995	22661	20970
								11%	23%	13%	29%	13%	13%
							grade 7 events	17963	35125	17997	24128	19367	17829
								12%	9%	10%	6%	11%	11%

## 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	275.0148504213958	275.0148504155575
[deg] Pointing Dec	-21.02509717467746	-21.02509718090884
[deg] Pointing Roll	266.3520910336508	266.3520910315541
[mm] SIM focus pos	-0.78090834371673	-0.78090834371673
[mm] SIM defocus	0.7524282194390134	0.7524282194390134
[mm] SIM translation stage pos	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	111937436.475	111937436.475
Observation start date	2001-07-19T14:00:00	2001-07-19T13:43:56
[s] Observation end time (MET)	111946774.417153	111946774.417153
Observation end date	2001-07-19T16:22:00	2001-07-19T16:19:34
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	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.10.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.3591687289774

### A.2 Comments