

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60819 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Oct 24 2012

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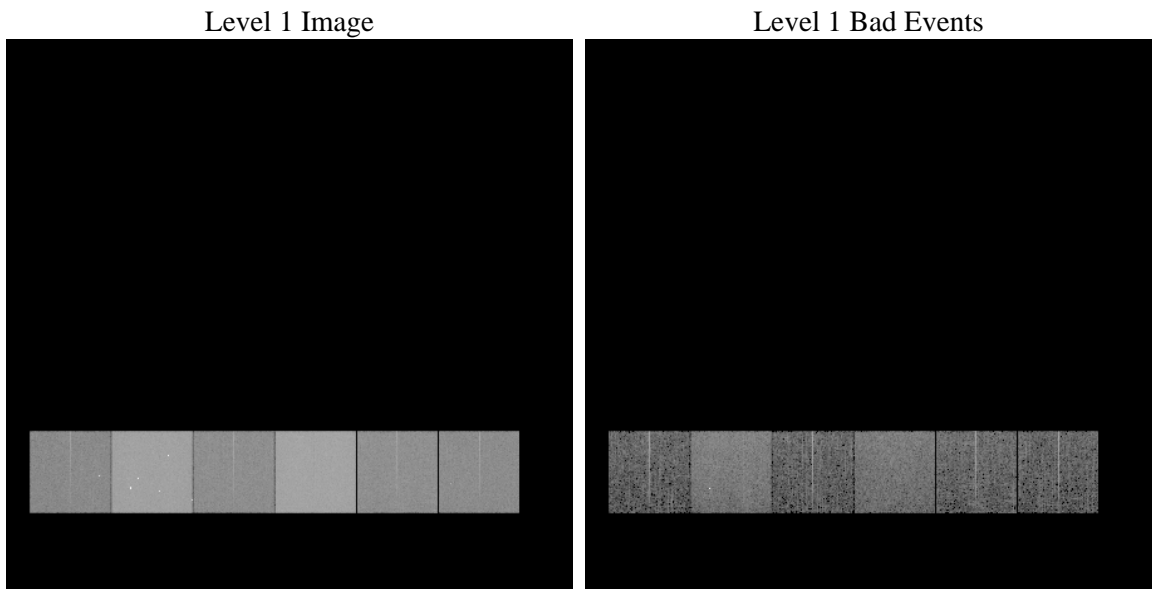
# 1 Front

seq_num	&#160	Sequence number
obs_id	60819	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	165.96546388528	Nominal RA [deg]
dec_nom	48.982600448473	Nominal Dec [deg]
roll_nom	184.58245625372	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7790.4709440172	Sum of GTIs [s]
livetime	7691.8233100656	Livetime [s]
ontime4	3152.7386207581	Sum of GTIs [s]
ontime5	7790.5119840205	Sum of GTIs [s]
ontime6	3480.0401212275	Sum of GTIs [s]
ontime7	7790.4709440172	Sum of GTIs [s]
ontime8	3568.9946892858	Sum of GTIs [s]
ontime9	3369.7224970758	Sum of GTIs [s]
l2events	1158431	Number of level 2 events

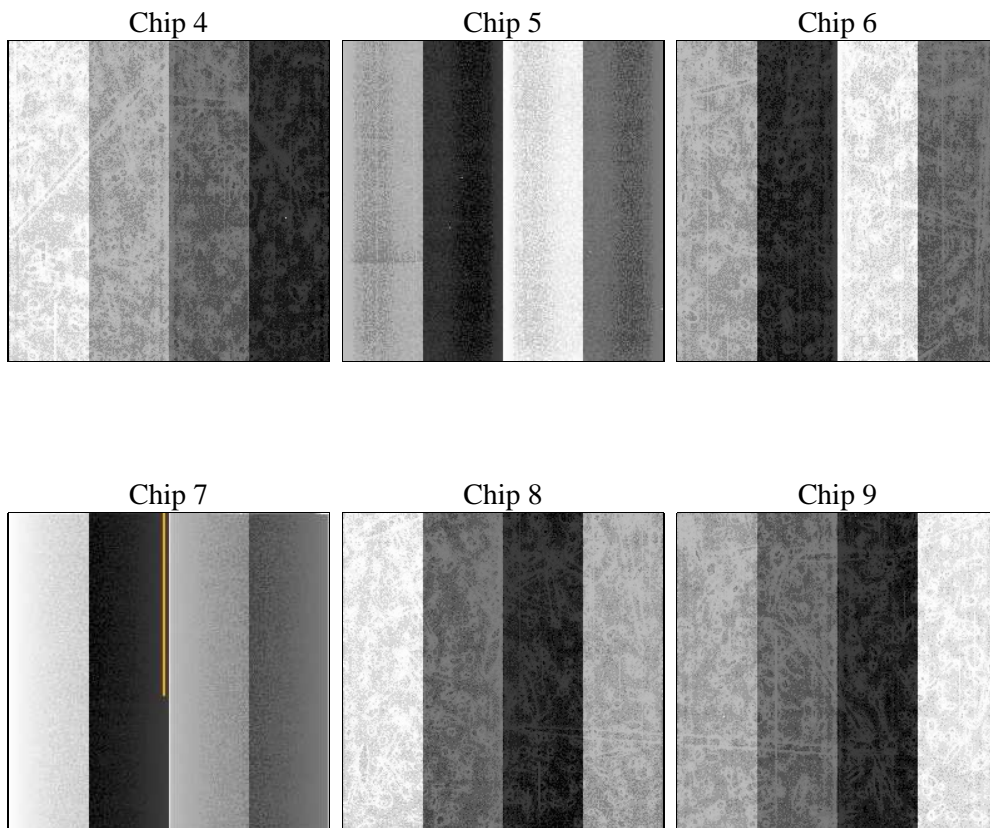
## 2 OBI

### 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	7790.4709440172	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime4	3152.7386207581	Sum of GTIs [s]
date	2012-10-24T13:04:10	Date and time of file creation	ontime5	7790.5119840205	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	3480.0401212275	Sum of GTIs [s]
			ontime7	7790.4709440172	Sum of GTIs [s]
			ontime8	3568.9946892858	Sum of GTIs [s]
			ontime9	3369.7224970758	Sum of GTIs [s]
			l1events	1423634	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	152093	359240	177620	382805	186361	165515	grade 0 events	74834	69036	82926	83925	86847	78260
rejected events	24626	54357	25743	42047	28626	24539		49%	19%	46%	21%	46%	47%
rejected %	16%	15%	14%	10%	15%	14%	grade 1 events	573	239	370	227	479	426
								0%	0%	0%	0%	0%	0%
							grade 2 events	19519	114465	26181	75247	27223	23742
								12%	31%	14%	19%	14%	14%
							grade 3 events	8387	16962	9383	34131	10180	9107
								5%	4%	5%	8%	5%	5%
							grade 4 events	8367	16862	9271	33638	10031	8953
								5%	4%	5%	8%	5%	5%
							grade 5 events	1496	9409	1751	7849	2058	1743
								0%	2%	0%	2%	1%	1%
							grade 6 events	16360	87558	24116	113817	23584	20914
								10%	24%	13%	29%	12%	12%
							grade 7 events	22557	44709	23622	33971	25959	22370
								14%	12%	13%	8%	13%	13%

## 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	165.9654638852759
[deg] Pointing Dec	0	48.9826004484728
[deg] Pointing Roll	0.0	184.5824562537178
[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)	163573982.735599	163573981.7109
Observation start date	2003-03-09T05:13:03	2003-03-09T05:13:01
[s] Observation end time (MET)	163585161.386069	163585160.36137
Observation end date	2003-03-09T08:19:21	2003-03-09T08:19:20
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)	2012.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.7904709440172

### **A.2 Comments**