

# V&V Reference Report

## L2 ASCDS Version : 8.5.1

Observation 59835 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 16 2012

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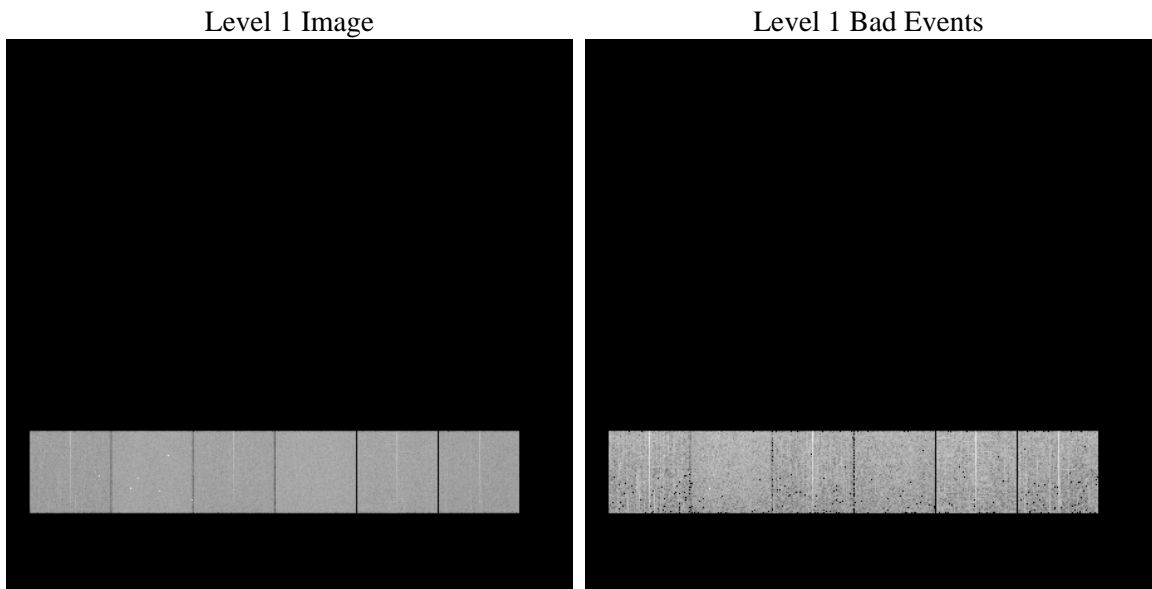
# 1 Front

seq_num	&#160	Sequence number
obs_id	59835	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	132.52255278974	Nominal RA [deg]
dec_nom	7.5203660185161	Nominal Dec [deg]
roll_nom	23.989902287161	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5304.6842813194	Sum of GTIs [s]
livetime	5237.5131748519	Livetime [s]
ontime4	4232.7594749928	Sum of GTIs [s]
ontime5	5304.6432413161	Sum of GTIs [s]
ontime6	4555.9389848411	Sum of GTIs [s]
ontime7	5304.6842813194	Sum of GTIs [s]
ontime8	4656.3269632459	Sum of GTIs [s]
ontime9	4355.9162549078	Sum of GTIs [s]
l2events	717645	Number of level 2 events

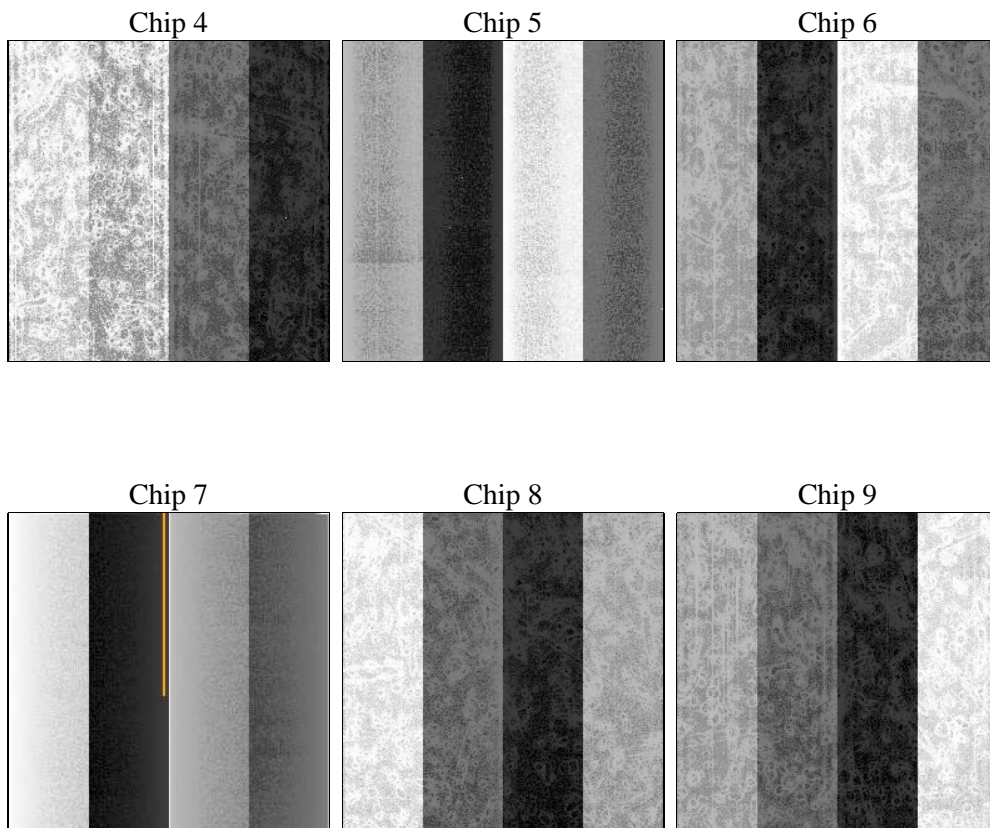
## 2 OBI

### 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	8.5.1	Processing system revision	ontime	5304.6842813194	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime4	4232.7594749928	Sum of GTIs [s]
date	2012-12-16T15:12:59	Date and time of file creation	ontime5	5304.6432413161	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	4555.9389848411	Sum of GTIs [s]
			ontime7	5304.6842813194	Sum of GTIs [s]
			ontime8	4656.3269632459	Sum of GTIs [s]
			ontime9	4355.9162549078	Sum of GTIs [s]
			l1events	965253	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	140702	174028	156566	182385	166937	144635	grade 0 events	62355	29506	67215	36207	70163	62470
rejected events	33668	35796	32354	30720	37017	31411		44%	16%	42%	19%	42%	43%
rejected %	23%	20%	20%	16%	22%	21%	grade 1 events	477	223	324	111	402	339
								0%	0%	0%	0%	0%	0%
							grade 2 events	17011	50677	21638	33477	22739	19292
								12%	29%	13%	18%	13%	13%
							grade 3 events	7124	7813	7777	14953	8621	7108
								5%	4%	4%	8%	5%	4%
							grade 4 events	7079	7572	7760	14876	8661	7169
								5%	4%	4%	8%	5%	4%
							grade 5 events	1915	5574	2066	5496	2496	2073
								1%	3%	1%	3%	1%	1%
							grade 6 events	13465	42664	19822	52152	19736	17185
								9%	24%	12%	28%	11%	11%
							grade 7 events	31276	29999	29964	25113	34119	28999
								22%	17%	19%	13%	20%	20%

## 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	132.522552789738
[deg] Pointing Dec	0	7.52036601851607
[deg] Pointing Roll	0.0	23.98990228716085
[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)	222970447.529245	222970446.50423
Observation start date	2005-01-24T16:14:08	2005-01-24T16:14:06
[s] Observation end time (MET)	222989721.630115	222989720.6051
Observation end date	2005-01-24T21:35:22	2005-01-24T21:35:20
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	3.2	3.2

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.01.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.3046842813194

### A.2 Comments