

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 59922 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 12 2012

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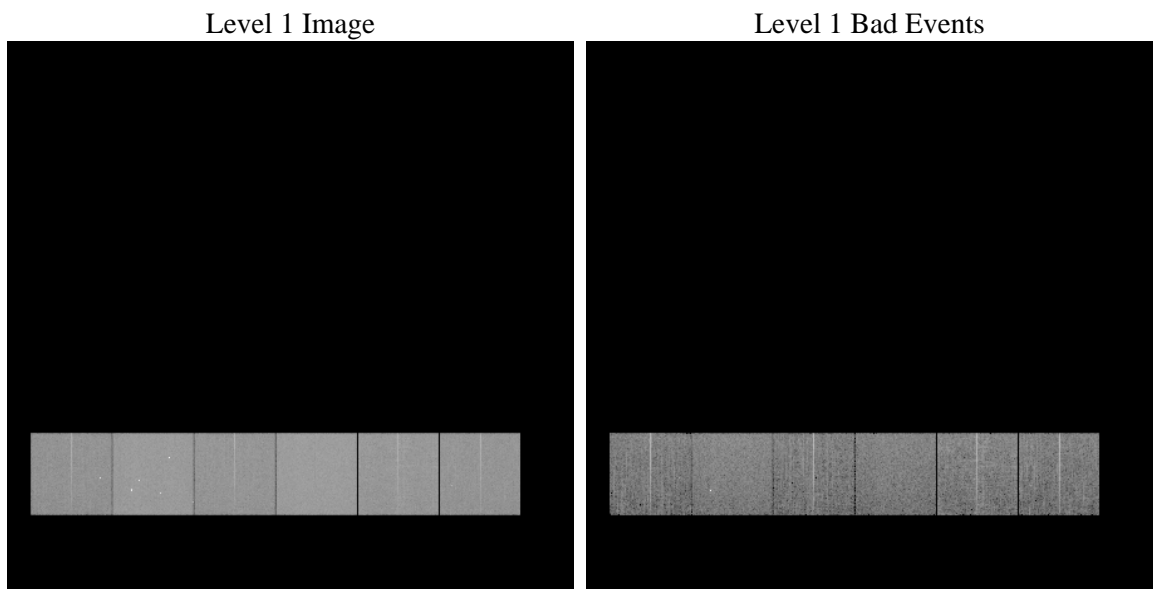
# 1 Front

seq_num	&#160	Sequence number
obs_id	59922	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	59.595442951447	Nominal RA [deg]
dec_nom	47.571621686511	Nominal Dec [deg]
roll_nom	223.50772762884	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8195.1999694705	Sum of GTIs [s]
livetime	8091.4274129001	Livetime [s]
ontime4	6072.3581108153	Sum of GTIs [s]
ontime5	8195.1999694705	Sum of GTIs [s]
ontime6	6451.5524361134	Sum of GTIs [s]
ontime7	8195.1999694705	Sum of GTIs [s]
ontime8	6795.0967454016	Sum of GTIs [s]
ontime9	6506.6494900584	Sum of GTIs [s]
l2events	1097674	Number of level 2 events

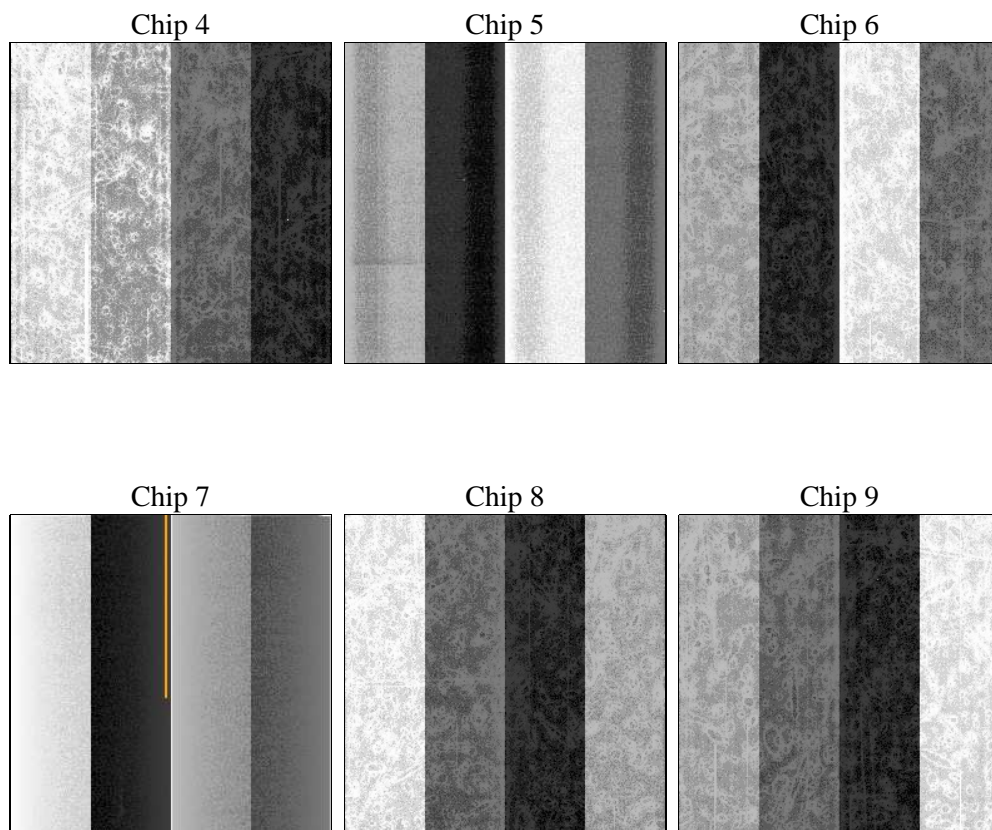
## 2 OBI

### 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	Processing system revision	ontime	8195.1999694705	Sum of GTIs [s]
caldsver	4.5.4	&#160	ontime4	6072.3581108153	Sum of GTIs [s]
date	2012-12-12T19:55:59	Date and time of file creation	ontime5	8195.1999694705	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	6451.5524361134	Sum of GTIs [s]
			ontime7	8195.1999694705	Sum of GTIs [s]
			ontime8	6795.0967454016	Sum of GTIs [s]
			ontime9	6506.6494900584	Sum of GTIs [s]
			l1events	1496210	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	208634	283009	232043	295024	253100	224400	grade 0 events	92443	50720	98903	58724	107301	96392
rejected events	51323	61538	52024	52461	58236	51118		44%	17%	42%	19%	42%	42%
rejected %	24%	21%	22%	17%	23%	22%	grade 1 events	721	225	534	161	591	530
								0%	0%	0%	0%	0%	0%
							grade 2 events	24958	79715	31990	53736	34432	30055
								11%	28%	13%	18%	13%	13%
							grade 3 events	10577	13015	11495	24438	12884	11233
								5%	4%	4%	8%	5%	5%
							grade 4 events	10508	12793	11215	24510	12641	11167
								5%	4%	4%	8%	4%	4%
							grade 5 events	2726	9165	3242	8928	4009	3403
								1%	3%	1%	3%	1%	1%
							grade 6 events	20388	67559	28768	83763	29636	26309
								9%	23%	12%	28%	11%	11%
							grade 7 events	46313	49817	45896	40764	51606	45311
								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	59.59544295144663
[deg] Pointing Dec	0	47.57162168651066
[deg] Pointing Roll	0.0	223.5077276288386
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.8505141146731063
[mm] SIM translation stage pos	-190.132523	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	219366906.116818	219366905.09183
Observation start date	2004-12-13T23:15:06	2004-12-13T23:15:05
[s] Observation end time (MET)	219378869.917356	219378868.89237
Observation end date	2004-12-14T02:34:30	2004-12-14T02:34:28
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	Beth Sundheim
V&V Date (YYYY-MM-DD)	2013.01.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1951999694705

### A.2 Comments