

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 59619 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 24 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Star Slots . . . . .	6
2.4	FID Slots . . . . .	6
<b>A</b>	<b>Summary</b>	<b>7</b>
A.1	Status . . . . .	7
A.2	Comments . . . . .	7

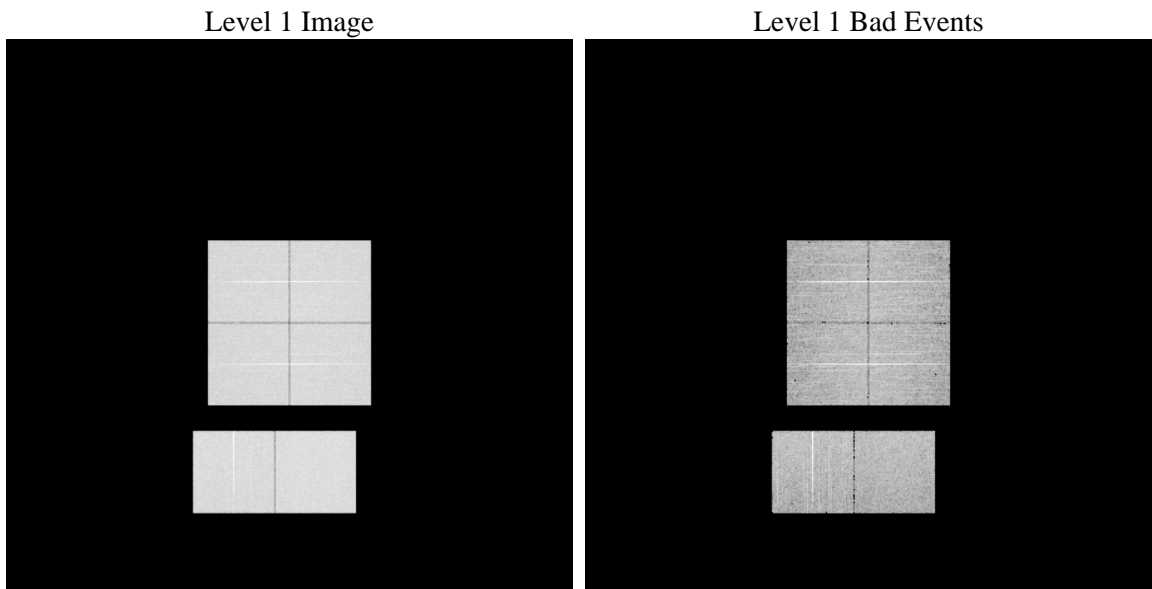
# 1 Front

seq_num	&#160	Sequence number
obs_id	59619	Observation id
title	ACIS-012367 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	4.459962874992	Nominal RA [deg]
dec_nom	71.025475751948	Nominal Dec [deg]
roll_nom	84.252019016875	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8277.51207757	Sum of GTIs [s]
livetime	8172.6972355244	Livetime [s]
ontime0	7823.7774464488	Sum of GTIs [s]
ontime1	7972.8618294597	Sum of GTIs [s]
ontime2	7528.8126831353	Sum of GTIs [s]
ontime3	7710.3439659178	Sum of GTIs [s]
ontime6	8070.0117340982	Sum of GTIs [s]
ontime7	8277.51207757	Sum of GTIs [s]
l2events	1081147	Number of level 2 events

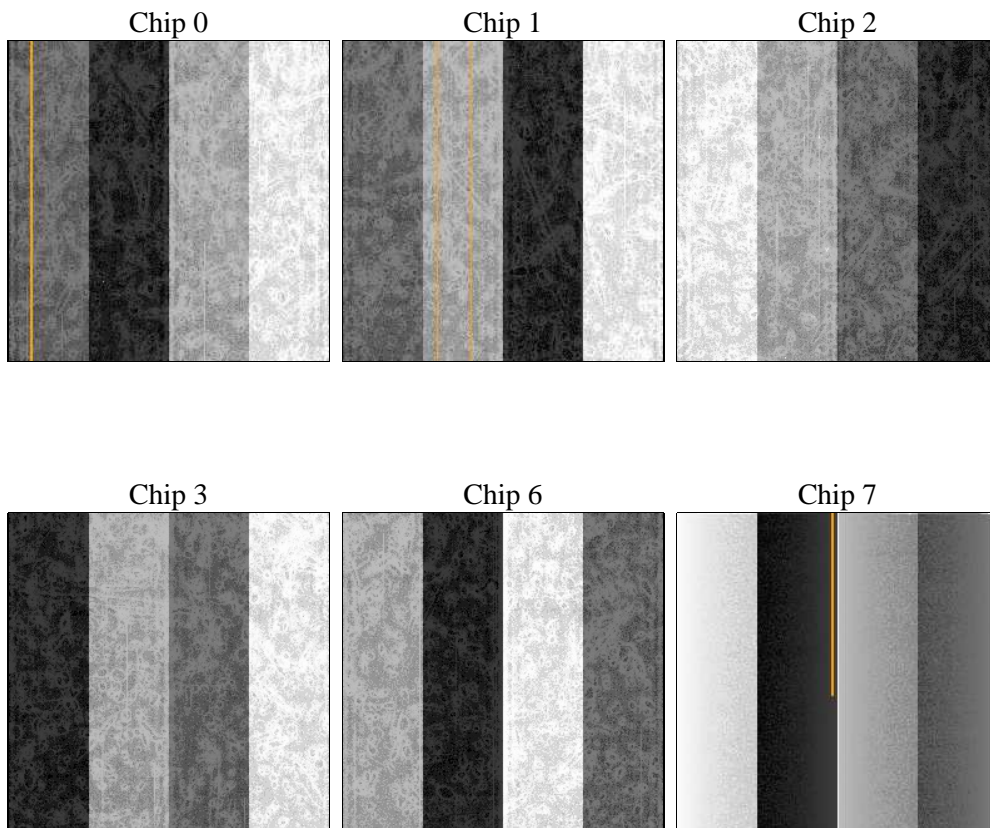
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	8277.51207757	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime0	7823.7774464488	Sum of GTIs [s]
date	2012-12-24T18:16:44	Date and time of file creation	ontime1	7972.8618294597	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	7528.8126831353	Sum of GTIs [s]
			ontime3	7710.3439659178	Sum of GTIs [s]
			ontime6	8070.0117340982	Sum of GTIs [s]
			ontime7	8277.51207757	Sum of GTIs [s]
			l1events	1487141	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	237707	244133	232865	240445	259179	272812	grade 0 events	100123	99769	99013	102731	104377	49408
rejected events	56190	58455	57667	59438	64299	54192		42%	40%	42%	42%	40%	18%
rejected %	23%	23%	24%	24%	24%	19%	grade 1 events	559	503	669	649	492	185
								0%	0%	0%	0%	0%	0%
							grade 2 events	31396	34633	28135	29578	34866	48714
								13%	14%	12%	12%	13%	17%
							grade 3 events	11776	11621	11596	11765	11637	21158
								4%	4%	4%	4%	4%	7%
							grade 4 events	11703	11706	11442	11842	11938	20805
								4%	4%	4%	4%	4%	7%
							grade 5 events	3431	3343	3105	3537	3668	9036
								1%	1%	1%	1%	1%	3%
							grade 6 events	26519	27949	25012	25091	32062	78535
								11%	11%	10%	10%	12%	28%
							grade 7 events	52200	54609	53893	55252	60139	44971
								21%	22%	23%	22%	23%	16%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	4.459962874992017
[deg] Pointing Dec	0	71.02547575194848
[deg] Pointing Roll	0.0	84.25201901687461
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.7524282956875696
[mm] SIM translation stage pos	-233.592463	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	234890255.070577	234890254.04556
Observation start date	2005-06-11T15:17:35	2005-06-11T15:17:34
[s] Observation end time (MET)	234911564.821551	234911563.79653
Observation end date	2005-06-11T21:12:45	2005-06-11T21:12:43
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)	2013.01.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.27751207757

### A.2 Comments