

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 61217 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Oct 7 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

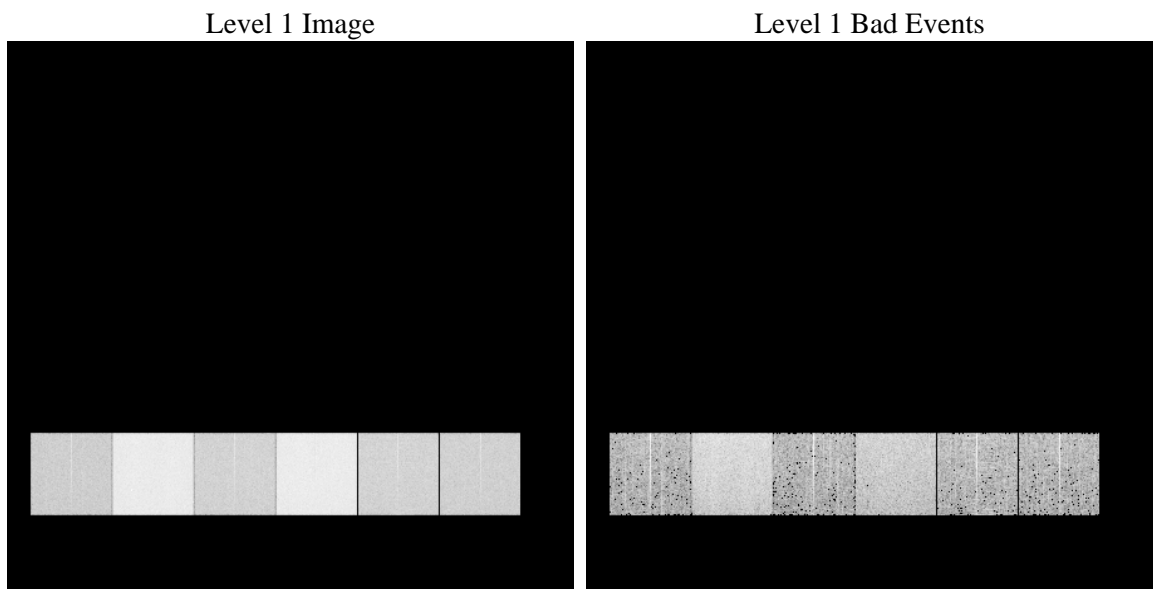
# 1 Front

seq_num	&#160	Sequence number
obs_id	61217	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	179.0044280626	Nominal RA [deg]
dec_nom	0.97171734118456	Nominal Dec [deg]
roll_nom	246.05661864602	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7505.0839513242	Sum of GTIs [s]
livetime	7410.0500593135	Livetime [s]
ontime4	2699.465338856	Sum of GTIs [s]
ontime5	8127.3492729664	Sum of GTIs [s]
ontime6	3010.5636196733	Sum of GTIs [s]
ontime7	7505.0839513242	Sum of GTIs [s]
ontime8	3013.0767785013	Sum of GTIs [s]
ontime9	2864.5934412479	Sum of GTIs [s]
l2events	1315939	Number of level 2 events

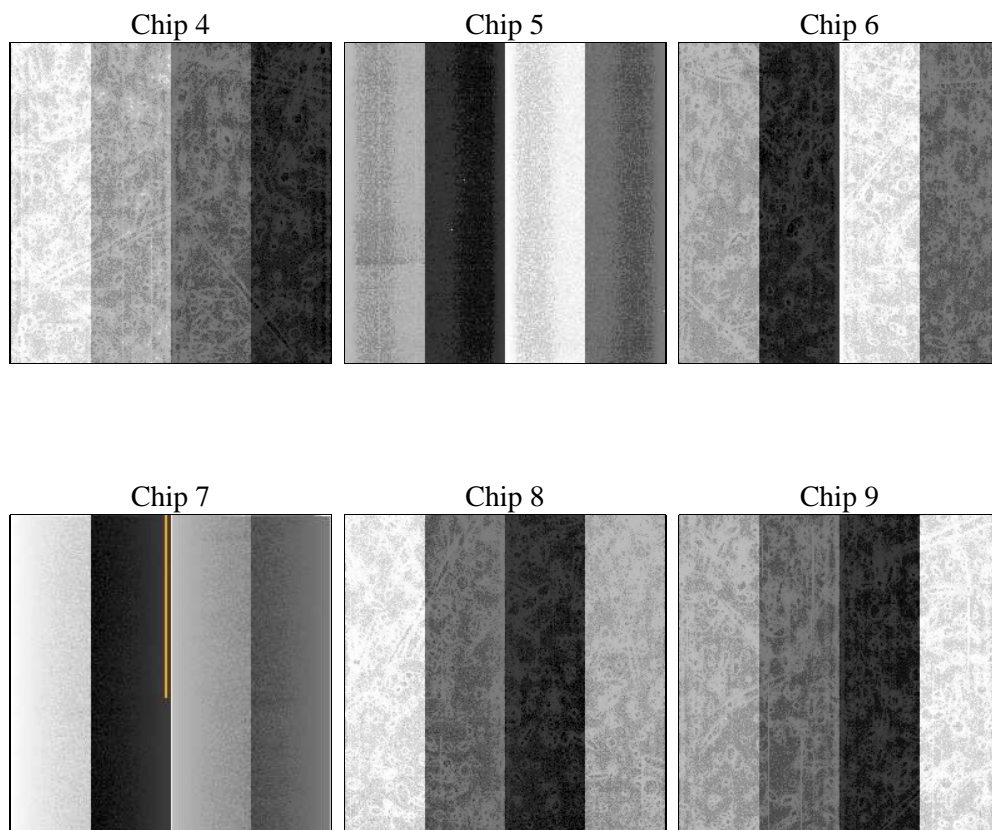
## 2 OBI

### 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	7505.0839513242	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime4	2699.465338856	Sum of GTIs [s]
date	2012-10-07T10:24:21	Date and time of file creation	ontime5	8127.3492729664	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	3010.5636196733	Sum of GTIs [s]
			ontime7	7505.0839513242	Sum of GTIs [s]
			ontime8	3013.0767785013	Sum of GTIs [s]
			ontime9	2864.5934412479	Sum of GTIs [s]
			l1events	1567298	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	154955	431165	183775	440852	187001	169550	grade 0 events	74769	81531	88419	100977	89006	81051
rejected events	23019	59748	23039	42081	25961	22989		48%	18%	48%	22%	47%	47%
rejected %	14%	13%	12%	9%	13%	13%	grade 1 events	367	245	419	294	423	396
								0%	0%	0%	0%	0%	0%
							grade 2 events	23582	139967	27913	88324	28625	25897
								15%	32%	15%	20%	15%	15%
							grade 3 events	7930	21853	9932	40612	10070	8879
								5%	5%	5%	9%	5%	5%
							grade 4 events	8071	21713	9861	40376	9987	8942
								5%	5%	5%	9%	5%	5%
							grade 5 events	1444	10413	1638	8092	1935	1643
								0%	2%	0%	1%	1%	0%
							grade 6 events	18084	107376	25169	129748	23848	22349
								11%	24%	13%	29%	12%	13%
							grade 7 events	20708	48067	20424	32429	23107	20393
								13%	11%	11%	7%	12%	12%

## 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	179.0044280625953
[deg] Pointing Dec	0	0.9717173411845594
[deg] Pointing Roll	0.0	246.056618646021
[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)	136648699.420414	136648698.3957
Observation start date	2002-05-01T13:58:19	2002-05-01T13:58:18
[s] Observation end time (MET)	136670009.171283	136670008.14657
Observation end date	2002-05-01T19:53:29	2002-05-01T19:53:28
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)	2012.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.5050839513242

### A.2 Comments