

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60413 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Nov 10 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

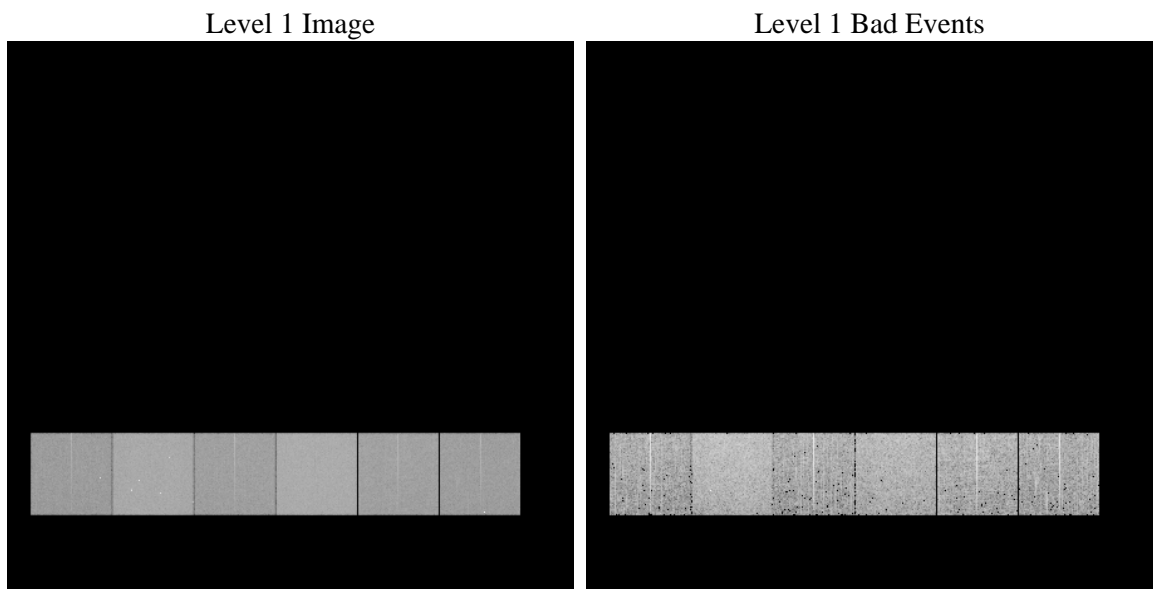
# 1 Front

seq_num	&#160	Sequence number
obs_id	60413	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	105.02431432187	Nominal RA [deg]
dec_nom	18.983010405545	Nominal Dec [deg]
roll_nom	290.67388223994	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7801.5999709368	Sum of GTIs [s]
livetime	7702.8114145452	Livetime [s]
ontime4	4732.3906257153	Sum of GTIs [s]
ontime5	7801.5999709368	Sum of GTIs [s]
ontime6	5097.4315525889	Sum of GTIs [s]
ontime7	7801.5999709368	Sum of GTIs [s]
ontime8	5215.2978093922	Sum of GTIs [s]
ontime9	4935.2592507303	Sum of GTIs [s]
l2events	1142010	Number of level 2 events

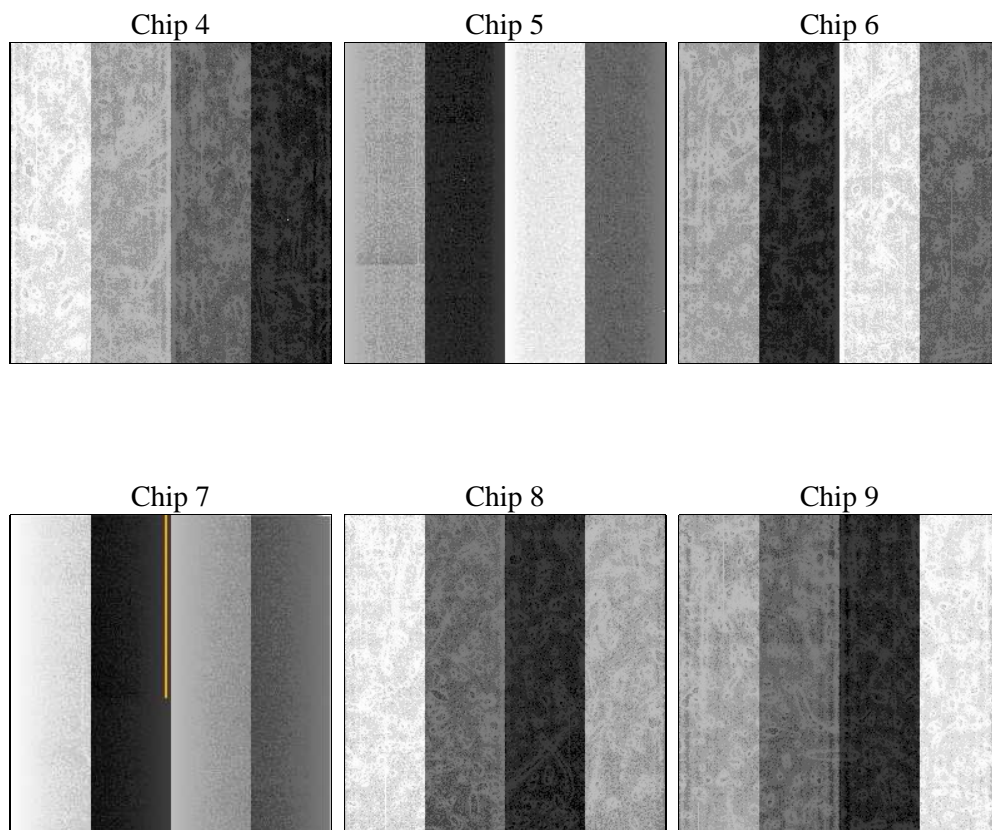
## 2 OBI

### 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	8.4.5	Processing system revision	ontime	7801.5999709368	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime4	4732.3906257153	Sum of GTIs [s]
date	2012-11-10T11:05:50	Date and time of file creation	ontime5	7801.5999709368	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	5097.4315525889	Sum of GTIs [s]
			ontime7	7801.5999709368	Sum of GTIs [s]
			ontime8	5215.2978093922	Sum of GTIs [s]
			ontime9	4935.2592507303	Sum of GTIs [s]
			l1events	1416769	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	184039	291891	209380	314608	219694	197157	grade 0 events	89509	57399	97944	68636	101579	92951
rejected events	30106	46196	30787	37879	34891	30251		48%	19%	46%	21%	46%	47%
rejected %	16%	15%	14%	12%	15%	15%	grade 1 events	537	187	455	175	505	445
								0%	0%	0%	0%	0%	0%
							grade 2 events	24266	87882	30771	61121	32329	28270
								13%	30%	14%	19%	14%	14%
							grade 3 events	10297	15056	11219	28217	12124	10626
								5%	5%	5%	8%	5%	5%
							grade 4 events	10308	15051	10959	27986	11786	10467
								5%	5%	5%	8%	5%	5%
							grade 5 events	1925	7846	2234	7040	2556	2232
								1%	2%	1%	2%	1%	1%
							grade 6 events	19652	70403	27700	90880	27105	24592
								10%	24%	13%	28%	12%	12%
							grade 7 events	27545	38067	28098	30553	31710	27574
								14%	13%	13%	9%	14%	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	105.0243143218714
[deg] Pointing Dec	0	18.98301040554495
[deg] Pointing Roll	0.0	290.6738822399352
[mm] SIM focus pos	-0.684267	-1.428180813131781
[mm] SIM defocus	0	0.1051558262725154
[mm] SIM translation stage pos	-190.132523	250.4635187648994
[mm] SIM translation stage offset	0	-0.007540371344731511
[s] Observation start time (MET)	190298435.778504	190298434.75381
Observation start date	2004-01-12T12:40:36	2004-01-12T12:40:34
[s] Observation end time (MET)	190316682.829299	190316681.8046
Observation end date	2004-01-12T17:44:43	2004-01-12T17:44:41
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)	2012.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.8015999709368

### A.2 Comments