

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60405 - 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

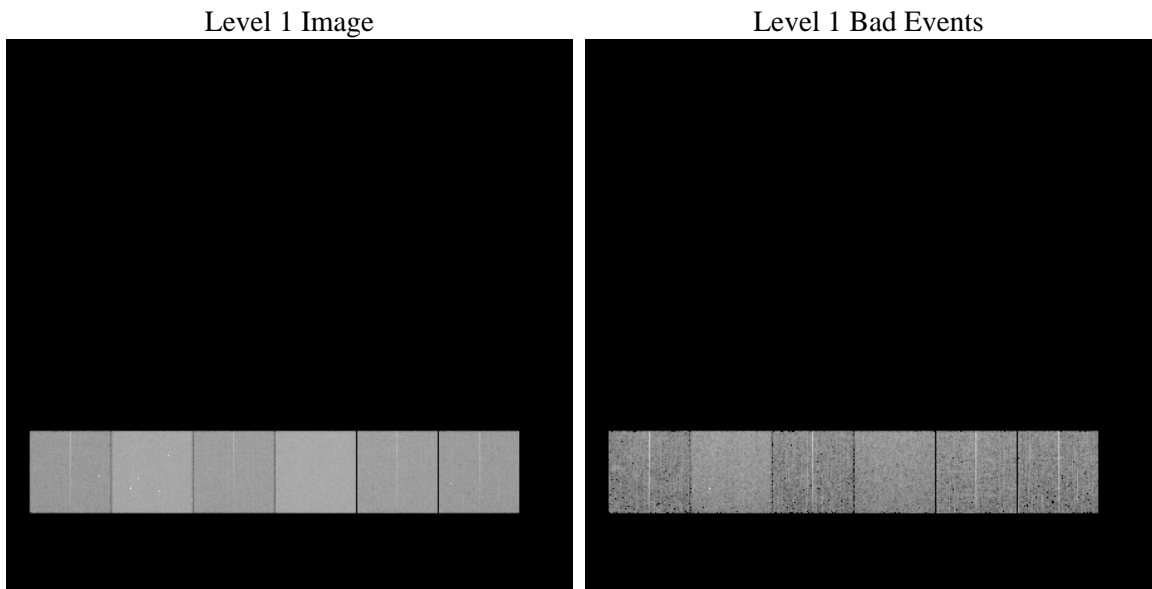
# 1 Front

seq_num	&#160	Sequence number
obs_id	60405	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	135.01227331181	Nominal RA [deg]
dec_nom	0.025842633140497	Nominal Dec [deg]
roll_nom	31.766763704746	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7801.1093901396	Sum of GTIs [s]
livetime	7702.3270457775	Livetime [s]
ontime4	4566.1014434993	Sum of GTIs [s]
ontime5	7803.9275818467	Sum of GTIs [s]
ontime6	5019.8817323744	Sum of GTIs [s]
ontime7	7801.1093901396	Sum of GTIs [s]
ontime8	5123.510832727	Sum of GTIs [s]
ontime9	4702.7276816368	Sum of GTIs [s]
l2events	1120903	Number of level 2 events

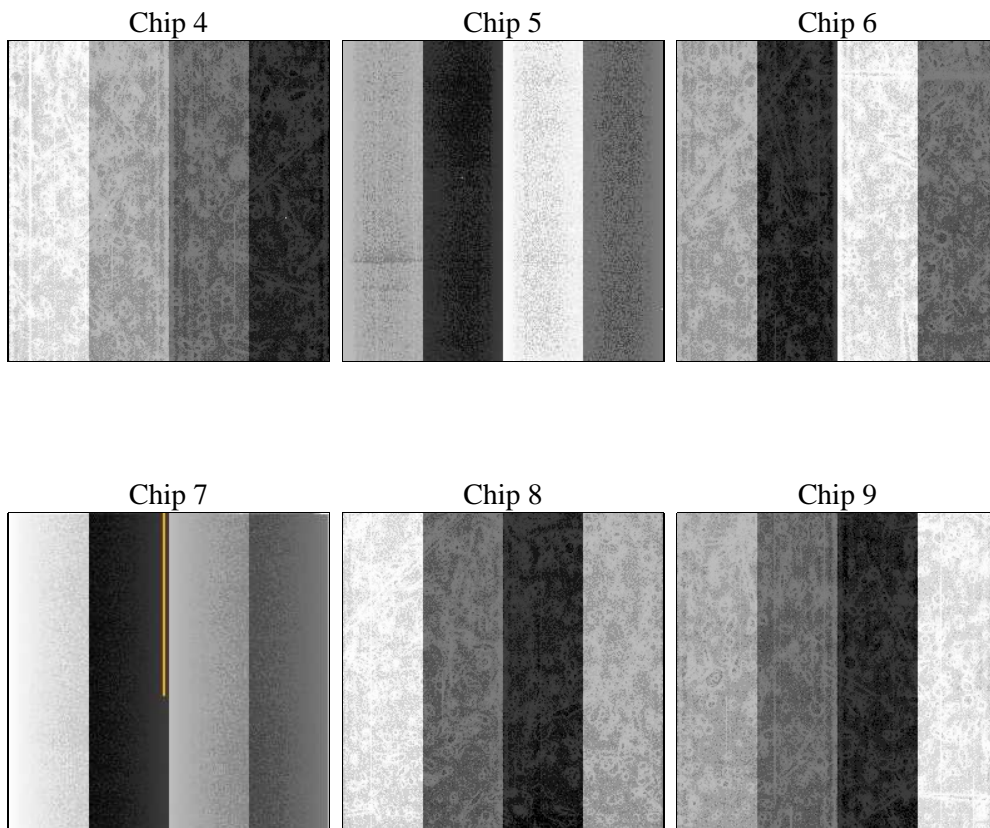
## 2 OBI

### 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	7801.1093901396	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime4	4566.1014434993	Sum of GTIs [s]
date	2012-11-10T22:26:19	Date and time of file creation	ontime5	7803.9275818467	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	5019.8817323744	Sum of GTIs [s]
			ontime7	7801.1093901396	Sum of GTIs [s]
			ontime8	5123.510832727	Sum of GTIs [s]
			ontime9	4702.7276816368	Sum of GTIs [s]
			l1events	1416231	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	180077	297968	207377	319028	220138	191643	grade 0 events	86042	55069	95094	68231	99067	87403
rejected events	32747	51385	32941	42149	38783	33883		47%	18%	45%	21%	45%	45%
rejected %	18%	17%	15%	13%	17%	17%	grade 1 events	604	193	437	179	457	541
								0%	0%	0%	0%	0%	0%
							grade 2 events	22964	90960	30580	61491	31883	26861
								12%	30%	14%	19%	14%	14%
							grade 3 events	9806	14245	10658	27813	11711	10009
								5%	4%	5%	8%	5%	5%
							grade 4 events	9863	14408	10805	27599	11862	10024
								5%	4%	5%	8%	5%	5%
							grade 5 events	1955	8381	2349	7831	2849	2354
								1%	2%	1%	2%	1%	1%
							grade 6 events	18655	71901	27299	91745	26832	23463
								10%	24%	13%	28%	12%	12%
							grade 7 events	30188	42811	30155	34139	35477	30988
								16%	14%	14%	10%	16%	16%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
[deg] Pointing RA	0	135.0122733118061	Alternating exposures requested	N	N
[deg] Pointing Dec	0	0.0258426331404971	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	31.76676370474616			
[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)	190984365.808424	190984364.78371			
Observation start date	2004-01-20T11:12:46	2004-01-20T11:12:44			
[s] Observation end time (MET)	191004910.90932	191004909.8846			
Observation end date	2004-01-20T16:55:11	2004-01-20T16:55:09			
Read mode	TIMED	TIMED			

## 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	7.8011093901396

### A.2 Comments