

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 52025 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Mar 8 2015

## 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

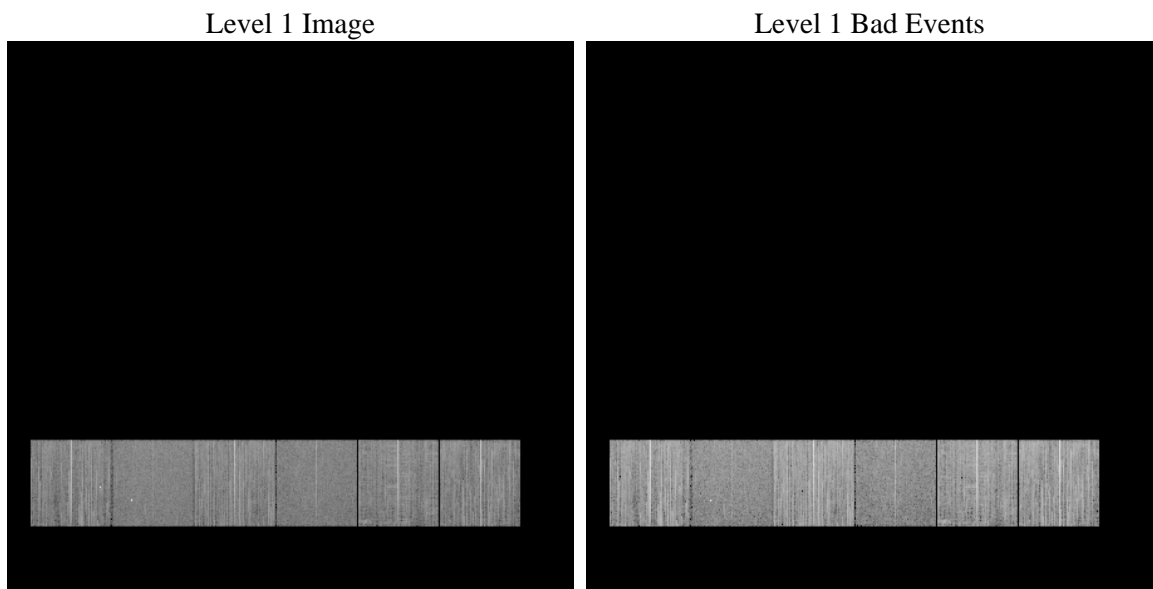
# 1 Front

seq_num	&#160	Sequence number
obs_id	52025	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycle	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	156.98419024501	Nominal RA [deg]
dec_nom	27.274794237036	Nominal Dec [deg]
roll_nom	208.14020645838	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6870.4001023769	Sum of GTIs [s]
livetime	6783.4029594224	Livetime [s]
ontime4	6870.4001023769	Sum of GTIs [s]
ontime5	6870.4001023769	Sum of GTIs [s]
ontime6	6870.4001023769	Sum of GTIs [s]
ontime7	6870.4001023769	Sum of GTIs [s]
ontime8	6870.4001023769	Sum of GTIs [s]
ontime9	6870.4001023769	Sum of GTIs [s]
l2events	153068	Number of level 2 events

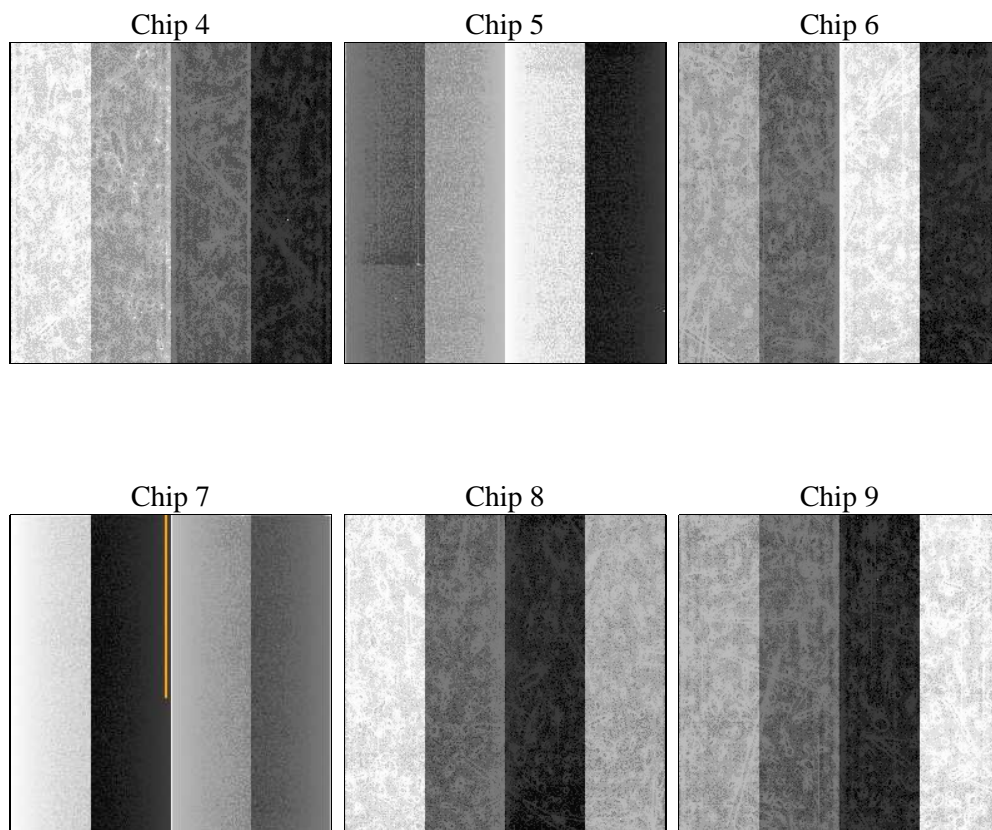
## 2 OBI

### 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	10.3.3	Processing system revision	ontime	6870.4001023769	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime4	6870.4001023769	Sum of GTIs [s]
date	2015-03-08T23:58:15	Date and time of file creation	ontime5	6870.4001023769	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	6870.4001023769	Sum of GTIs [s]
			ontime7	6870.4001023769	Sum of GTIs [s]
			ontime8	6870.4001023769	Sum of GTIs [s]
			ontime9	6870.4001023769	Sum of GTIs [s]
			l1events	682269	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	117076	102543	127685	94185	118282	122498	grade 0 events	12178	3262	9349	5030	11248	9262
rejected events	95526	59164	107372	54416	91288	103054		10%	3%	7%	5%	9%	7%
rejected %	81%	57%	84%	57%	77%	84%	grade 1 events	84	115	39	74	58	50
								0%	0%	0%	0%	0%	0%
							grade 2 events	3871	16099	4653	9840	5870	4038
								3%	15%	3%	10%	4%	3%
							grade 3 events	1400	1518	1260	2948	2139	1343
								1%	1%	0%	3%	1%	1%
							grade 4 events	1408	1246	1316	2919	2099	1378
								1%	1%	1%	3%	1%	1%
							grade 5 events	2530	5305	2412	5854	3197	2744
								2%	5%	1%	6%	2%	2%
							grade 6 events	2711	21274	3745	19043	5640	3435
								2%	20%	2%	20%	4%	2%
							grade 7 events	92894	53724	104911	48477	88031	100248
								79%	52%	82%	51%	74%	81%

## 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	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	156.984190245006	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	27.27479423703578	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	208.1402064583797	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	542204833.560545	542204832.53554			
Observation start date	2015-03-08T12:27:14	2015-03-08T12:27:12			
[s] Observation end time (MET)	542213705.961041	542213704.93604			
Observation end date	2015-03-08T14:55:06	2015-03-08T14:55:04			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

## **A Summary**

### **A.1 Status**

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2015.03.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.8704001023769

### **A.2 Comments**