

# V&V Reference Report

## L2 ASCDS Version : 10.4.2.1

Observation 51459 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Dec 2 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

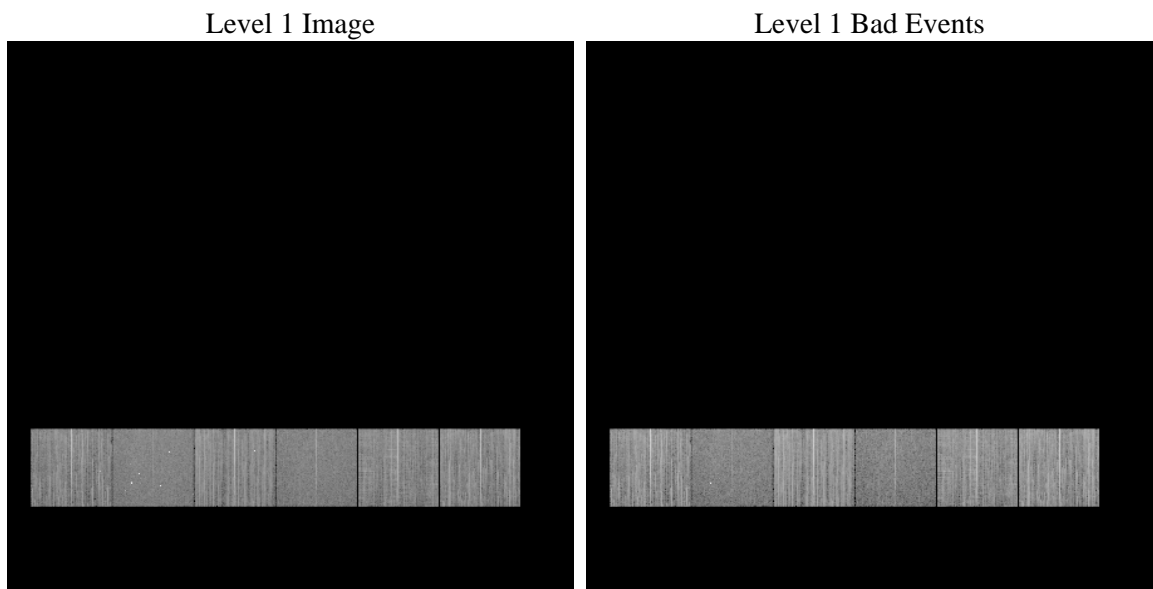
# 1 Front

seq_num	&#160	Sequence number
obs_id	51459	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	112.25519451023	Nominal RA [deg]
dec_nom	-12.447205425097	Nominal Dec [deg]
roll_nom	38.146879957411	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6924.8001031876	Sum of GTIs [s]
livetime	6837.114114667	Livetime [s]
ontime4	6924.8001031876	Sum of GTIs [s]
ontime5	6924.8001031876	Sum of GTIs [s]
ontime6	6924.8001031876	Sum of GTIs [s]
ontime7	6924.8001031876	Sum of GTIs [s]
ontime8	6924.8001031876	Sum of GTIs [s]
ontime9	6924.8001031876	Sum of GTIs [s]
l2events	149492	Number of level 2 events

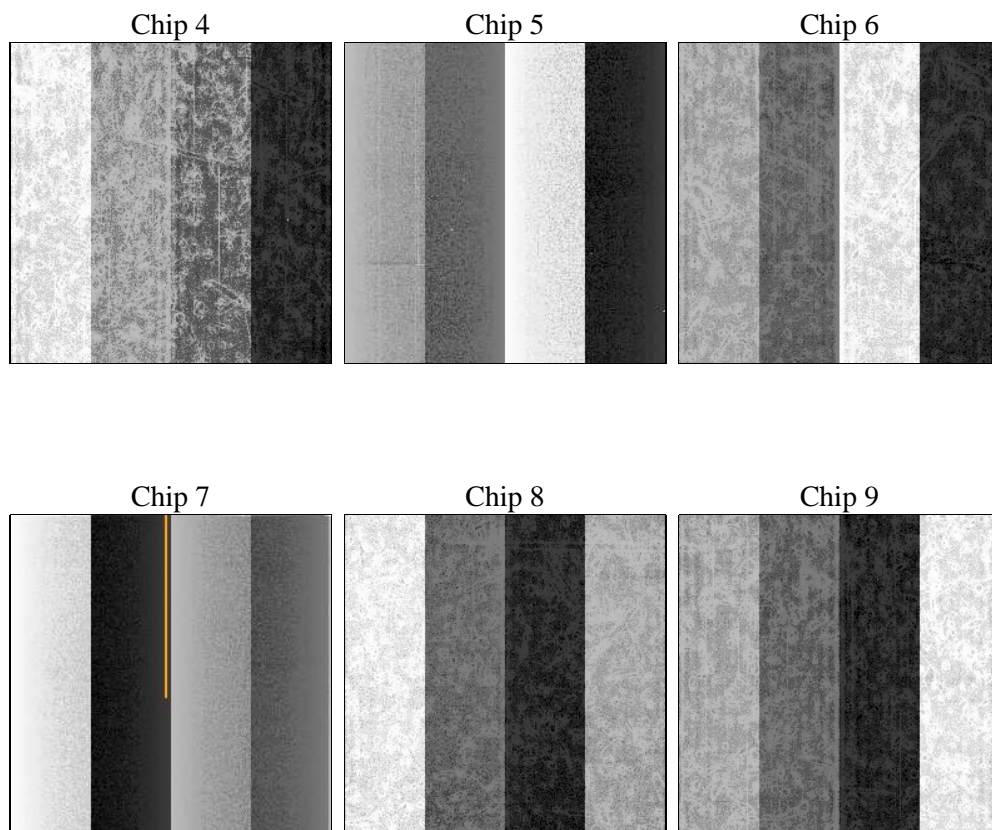
## 2 OBI

### 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	10.4.2.1	Processing system revision	ontime	6924.8001031876	Sum of GTIs [s]
caldsver	4.6.10a	&#160	ontime4	6924.8001031876	Sum of GTIs [s]
date	2015-12-03T03:23:07	Date and time of file creation	ontime5	6924.8001031876	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	6924.8001031876	Sum of GTIs [s]
			ontime7	6924.8001031876	Sum of GTIs [s]
			ontime8	6924.8001031876	Sum of GTIs [s]
			ontime9	6924.8001031876	Sum of GTIs [s]
			l1events	816422	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	137864	121911	154395	106201	142679	153372	grade 0 events	9274	9475	9937	4704	10844	8081
rejected events	120082	69515	134533	64730	116255	135959		6%	7%	6%	4%	7%	5%
rejected %	87%	57%	87%	60%	81%	88%	grade 1 events	95	285	55	89	60	42
								0%	0%	0%	0%	0%	0%
							grade 2 events	3577	17071	4170	10246	5929	3658
								2%	14%	2%	9%	4%	2%
							grade 3 events	1293	1421	1203	3065	2182	1305
								0%	1%	0%	2%	1%	0%
							grade 4 events	1295	1368	1233	2974	2179	1263
								0%	1%	0%	2%	1%	0%
							grade 5 events	2889	5633	2768	6514	3628	3205
								2%	4%	1%	6%	2%	2%
							grade 6 events	2511	23538	3496	20822	5634	3266
								1%	19%	2%	19%	3%	2%
							grade 7 events	116930	63120	131533	57787	112223	132552
								84%	51%	85%	54%	78%	86%

## 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	112.2551945102323
[deg] Pointing Dec	0	-12.44720542509722
[deg] Pointing Roll	0.0	38.14687995741149
SIM focus pos (mm)	-1.4281808131	-1.4281808131
[mm] SIM defocus	0.1051557500557434	0.1051557500557434
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	565469978.159255	565469978.159255
Observation start date	2015-12-02T18:59:38	2015-12-02T18:59:38
[s] Observation end time (MET)	565479062.77202	565479062.77202
Observation end date	2015-12-02T21:31:03	2015-12-02T21:31:02
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
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	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.9248001031876

### A.2 Comments