

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 52018 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Mar 14 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

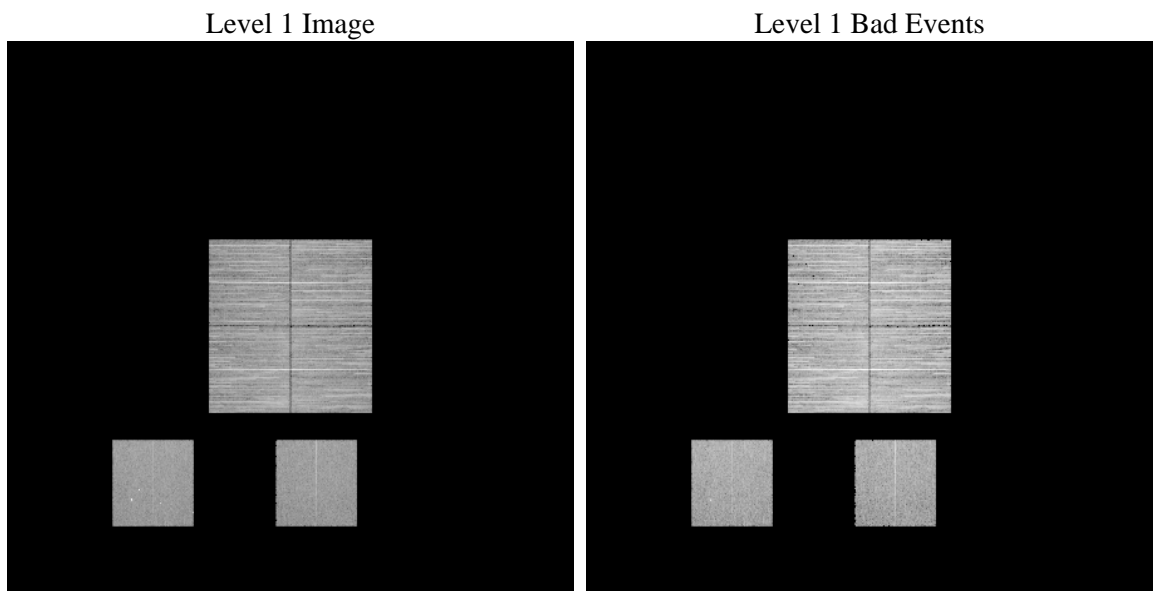
# 1 Front

seq_num	&#160	Sequence number
obs_id	52018	Observation id
title	ACIS-012357 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	161.63032582099	Nominal RA [deg]
dec_nom	-18.797956152506	Nominal Dec [deg]
roll_nom	331.2821702828	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7484.5004495382	Sum of GTIs [s]
livetime	7389.7271982211	Livetime [s]
ontime0	7484.4594094753	Sum of GTIs [s]
ontime1	7484.4183695316	Sum of GTIs [s]
ontime2	7484.3773294687	Sum of GTIs [s]
ontime3	7484.5414894819	Sum of GTIs [s]
ontime5	7484.336289525	Sum of GTIs [s]
ontime7	7484.5004495382	Sum of GTIs [s]
l2events	158055	Number of level 2 events

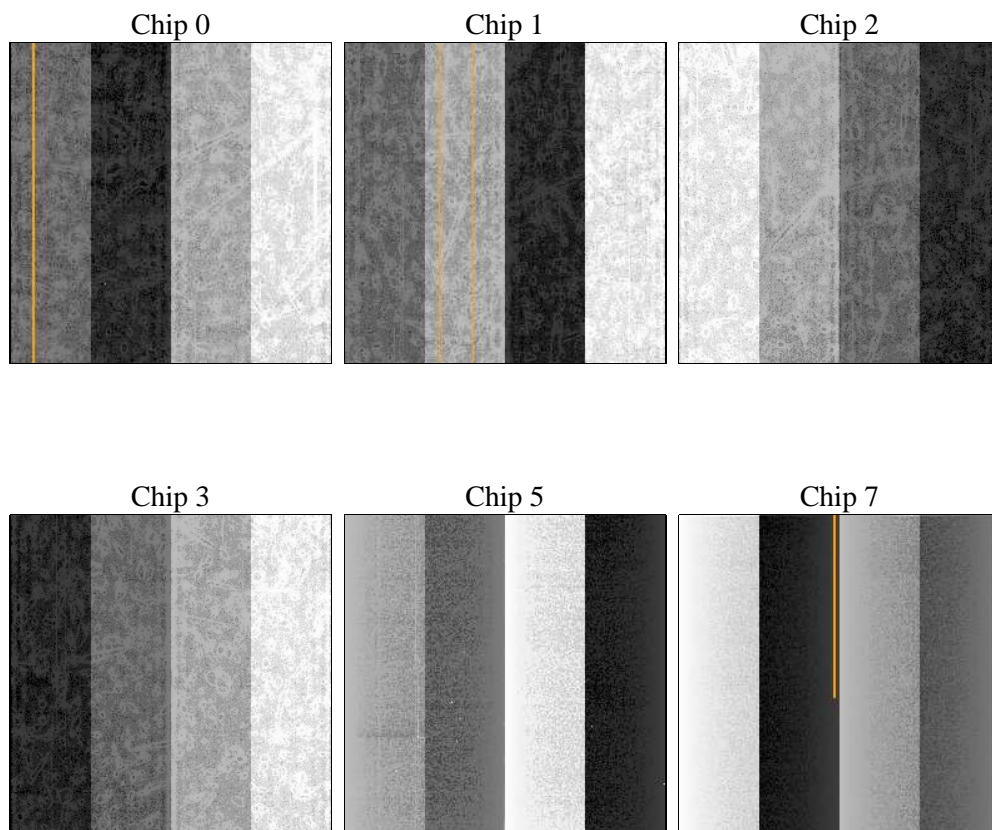
## 2 OBI

### 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	7484.5004495382	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime0	7484.4594094753	Sum of GTIs [s]
date	2015-03-14T06:05:27	Date and time of file creation	ontime1	7484.4183695316	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	7484.3773294687	Sum of GTIs [s]
			ontime3	7484.5414894819	Sum of GTIs [s]
			ontime5	7484.336289525	Sum of GTIs [s]
			ontime7	7484.5004495382	Sum of GTIs [s]
			l1events	726178	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	120554	129351	136047	131205	106789	102232	grade 0 events	9916	9225	10225	10314	4384	5098
rejected events	100457	108807	115885	110871	61448	60728		8%	7%	7%	7%	4%	4%
rejected %	83%	84%	85%	84%	57%	59%	grade 1 events	45	40	59	66	151	59
								0%	0%	0%	0%	0%	0%
							grade 2 events	4398	5196	4119	4265	16715	10671
								3%	4%	3%	3%	15%	10%
							grade 3 events	1389	1292	1420	1337	1394	3081
								1%	0%	1%	1%	1%	3%
							grade 4 events	1318	1360	1468	1387	1249	2990
								1%	1%	1%	1%	1%	2%
							grade 5 events	2365	2267	2235	2604	4536	6122
								1%	1%	1%	1%	4%	5%
							grade 6 events	3355	3792	3214	3336	22286	20338
								2%	2%	2%	2%	20%	19%
							grade 7 events	97768	106179	113307	107896	56074	53873
								81%	82%	83%	82%	52%	52%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012357	ACIS-012357	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	161.6303258209903	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-18.79795615250605	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	331.2821702828002	[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)	542662781.036139	542662780.01114			
Observation start date	2015-03-13T19:39:41	2015-03-13T19:39:40			
[s] Observation end time (MET)	542672102.38666	542672101.36166			
Observation end date	2015-03-13T22:15:02	2015-03-13T22:15:01			
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)	2015.03.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.4845004495382

### A.2 Comments