

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 51034 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 10 2016

## 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

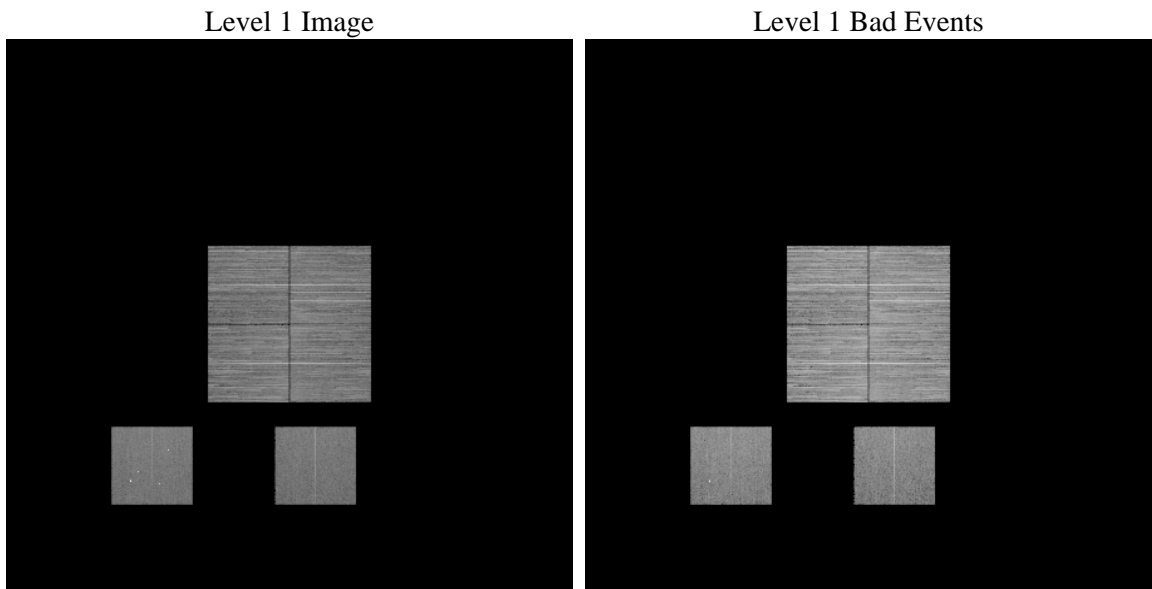
# 1 Front

seq_num	&#160	Sequence number
obs_id	51034	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	230.7685052917	Nominal RA [deg]
dec_nom	10.085780714027	Nominal Dec [deg]
roll_nom	172.6987701777	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8361.6001245975	Sum of GTIs [s]
livetime	8255.7205090688	Livetime [s]
ontime0	8361.6001245975	Sum of GTIs [s]
ontime1	8361.5885046721	Sum of GTIs [s]
ontime2	8361.5474646091	Sum of GTIs [s]
ontime3	8361.6001245975	Sum of GTIs [s]
ontime5	8361.5064246655	Sum of GTIs [s]
ontime7	8361.6001245975	Sum of GTIs [s]
l2events	202818	Number of level 2 events

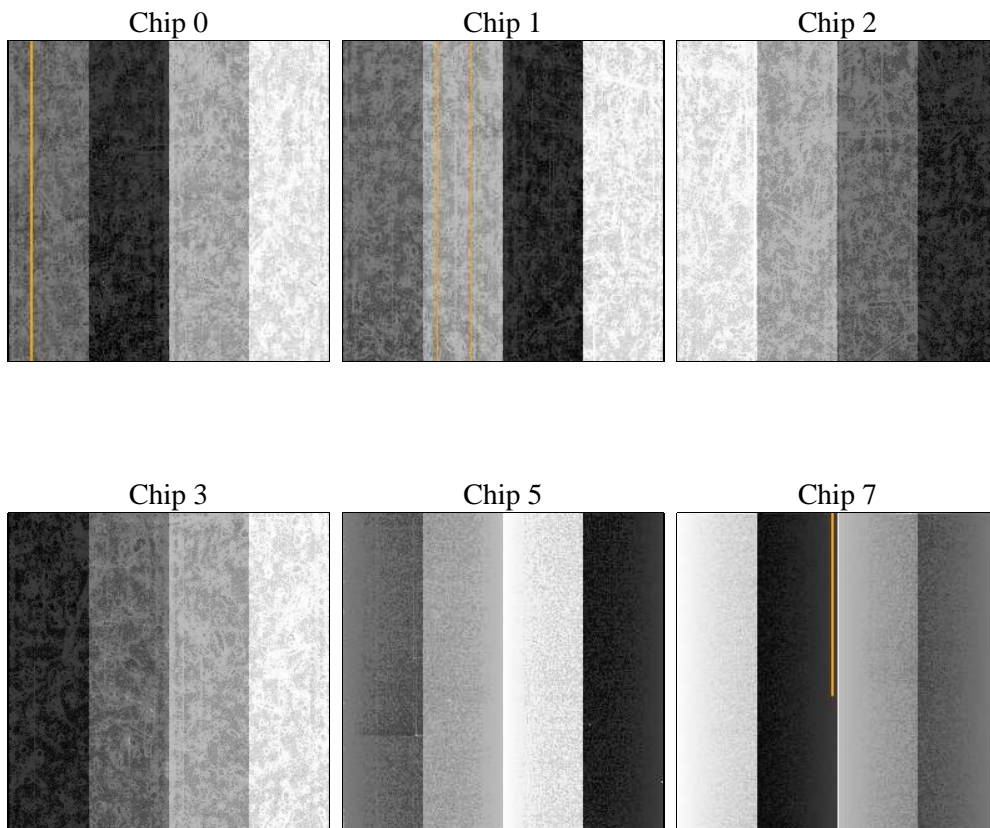
## 2 OBI

### 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	10.4.3.1	Processing system revision	ontime	8361.6001245975	Sum of GTIs [s]
caldsver	4.7.1	&#160	ontime0	8361.6001245975	Sum of GTIs [s]
date	2016-05-10T15:36:25	Date and time of file creation	ontime1	8361.5885046721	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8361.5474646091	Sum of GTIs [s]
			ontime3	8361.6001245975	Sum of GTIs [s]
			ontime5	8361.5064246655	Sum of GTIs [s]
			ontime7	8361.6001245975	Sum of GTIs [s]
			l1events	1002813	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	165558	184329	182885	175471	156347	138223	grade 0 events	11227	10671	11693	11770	9165	6661
rejected events	141414	160132	158834	151051	88726	82469		6%	5%	6%	6%	5%	4%
rejected %	85%	86%	86%	86%	56%	59%	grade 1 events	64	72	68	102	169	107
								0%	0%	0%	0%	0%	0%
							grade 2 events	5295	5682	5077	4941	24069	14183
								3%	3%	2%	2%	15%	10%
							grade 3 events	1708	1693	1719	1828	2339	4278
								1%	0%	0%	1%	1%	3%
							grade 4 events	1700	1686	1715	1757	2345	4279
								1%	0%	0%	1%	1%	3%
							grade 5 events	3360	3486	3280	3658	7125	8774
								2%	1%	1%	2%	4%	6%
							grade 6 events	4453	4666	4093	4380	30441	26966
								2%	2%	2%	2%	19%	19%
							grade 7 events	137751	156373	155240	147035	80694	72975
								83%	84%	84%	83%	51%	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	230.7685052917045	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	10.08578071402717	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	172.6987701776957	[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)	579227986.0281219	579227985.0031199			
Observation start date	2016-05-10T00:39:46	2016-05-10T00:39:45			
[s] Observation end time (MET)	579237280.728654	579237279.70365			
Observation end date	2016-05-10T03:14:41	2016-05-10T03:14:39			
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)	2016.05.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.3616001245975

### A.2 Comments