

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 53662 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jun 1 2013

## 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

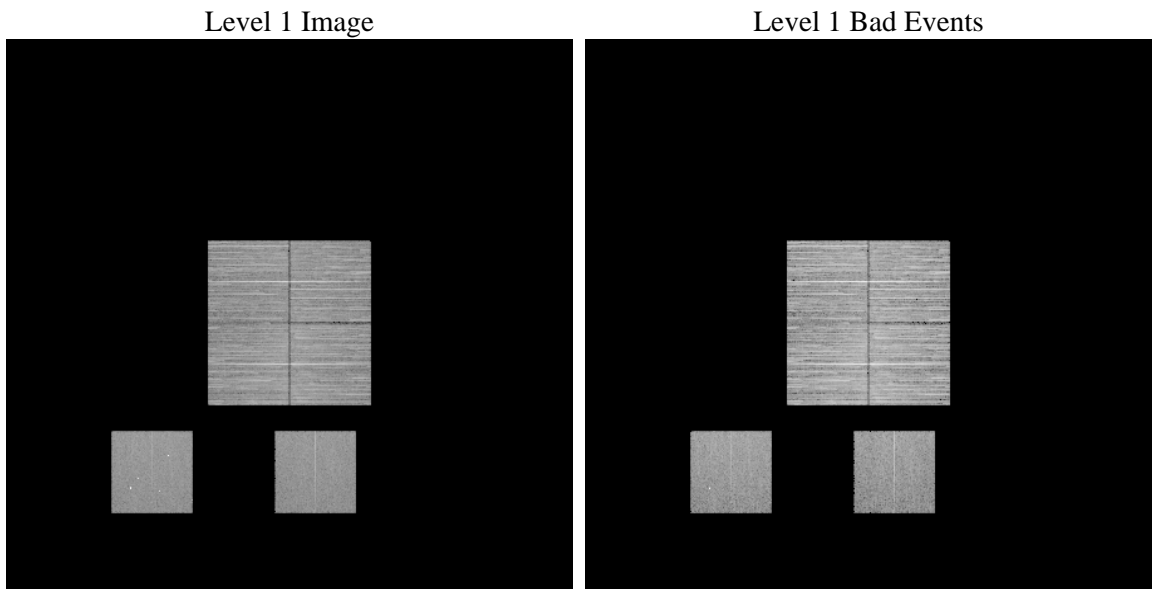
# 1 Front

seq_num	&#160	Sequence number
obs_id	53662	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	257.15678180336	Nominal RA [deg]
dec_nom	4.1112933872497	Nominal Dec [deg]
roll_nom	162.71451505791	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8287.2666698694	Sum of GTIs [s]
livetime	8182.3283093026	Livetime [s]
ontime0	8287.2666698694	Sum of GTIs [s]
ontime1	8287.2666698694	Sum of GTIs [s]
ontime2	8287.2666698694	Sum of GTIs [s]
ontime3	8287.2666698694	Sum of GTIs [s]
ontime5	8287.2422306538	Sum of GTIs [s]
ontime7	8287.2666698694	Sum of GTIs [s]
l2events	235781	Number of level 2 events

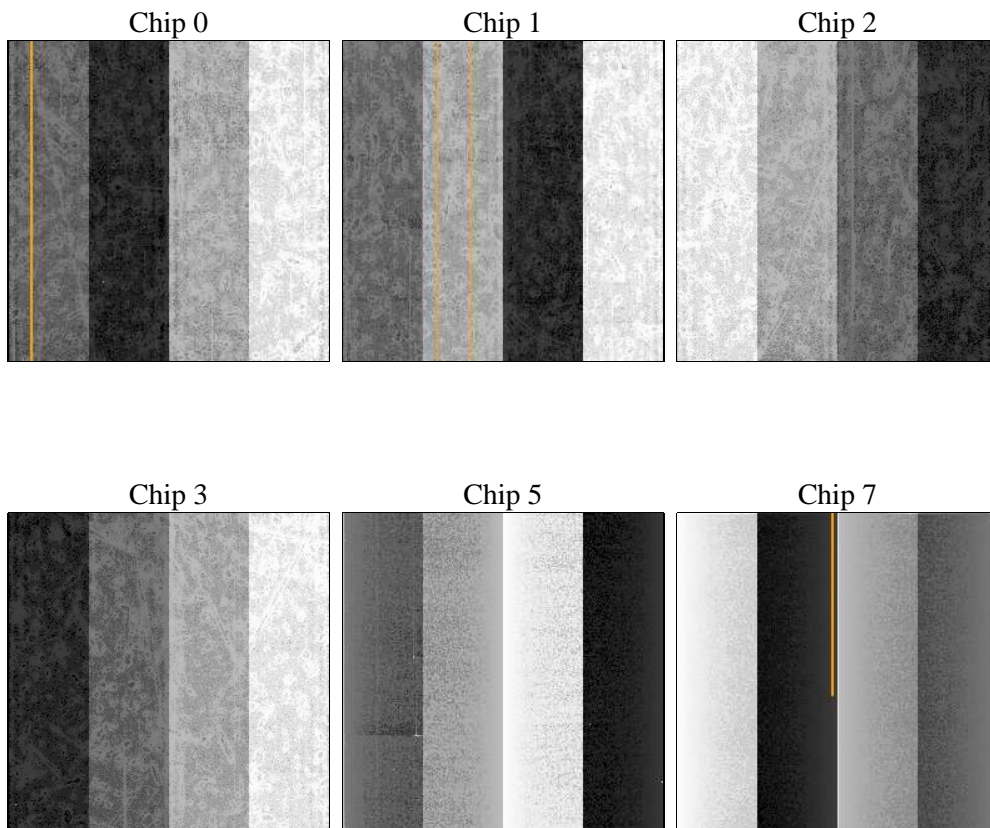
## 2 OBI

### 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	8.5.1.1	Processing system revision	ontime	8287.2666698694	Sum of GTIs [s]
caldsver	4.5.6	&#160	ontime0	8287.2666698694	Sum of GTIs [s]
date	2013-06-01T15:29:59	Date and time of file creation	ontime1	8287.2666698694	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8287.2666698694	Sum of GTIs [s]
			ontime3	8287.2666698694	Sum of GTIs [s]
			ontime5	8287.2422306538	Sum of GTIs [s]
			ontime7	8287.2666698694	Sum of GTIs [s]
			l1events	859227	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	145064	148293	152811	157292	132838	122929	grade 0 events	16301	15975	16877	16704	8856	8848
rejected events	112929	115849	120537	125057	69365	64763		11%	10%	11%	10%	6%	7%
rejected %	77%	78%	78%	79%	52%	52%	grade 1 events	86	75	96	87	151	96
								0%	0%	0%	0%	0%	0%
							grade 2 events	6348	6640	6122	6119	22756	14047
								4%	4%	4%	3%	17%	11%
							grade 3 events	2212	2241	2209	2252	2471	4875
								1%	1%	1%	1%	1%	3%
							grade 4 events	2250	2183	2239	2280	2220	4880
								1%	1%	1%	1%	1%	3%
							grade 5 events	2873	2878	2671	3104	6184	7656
								1%	1%	1%	1%	4%	6%
							grade 6 events	5024	5405	4827	4880	27170	25516
								3%	3%	3%	3%	20%	20%
							grade 7 events	109970	112896	117770	121866	63030	57011
								75%	76%	77%	77%	47%	46%

## 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	257.1567818033586	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	4.111293387249717	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	162.7145150579132	[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)	486416056.683515	486416055.65852			
Observation start date	2013-05-31T19:34:17	2013-05-31T19:34:15			
[s] Observation end time (MET)	486438924.434756	486438923.40976			
Observation end date	2013-06-01T01:55:24	2013-06-01T01:55:23			
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)	2013.06.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2872666698694

### A.2 Comments