

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 54236 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Oct 16 2012

## 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

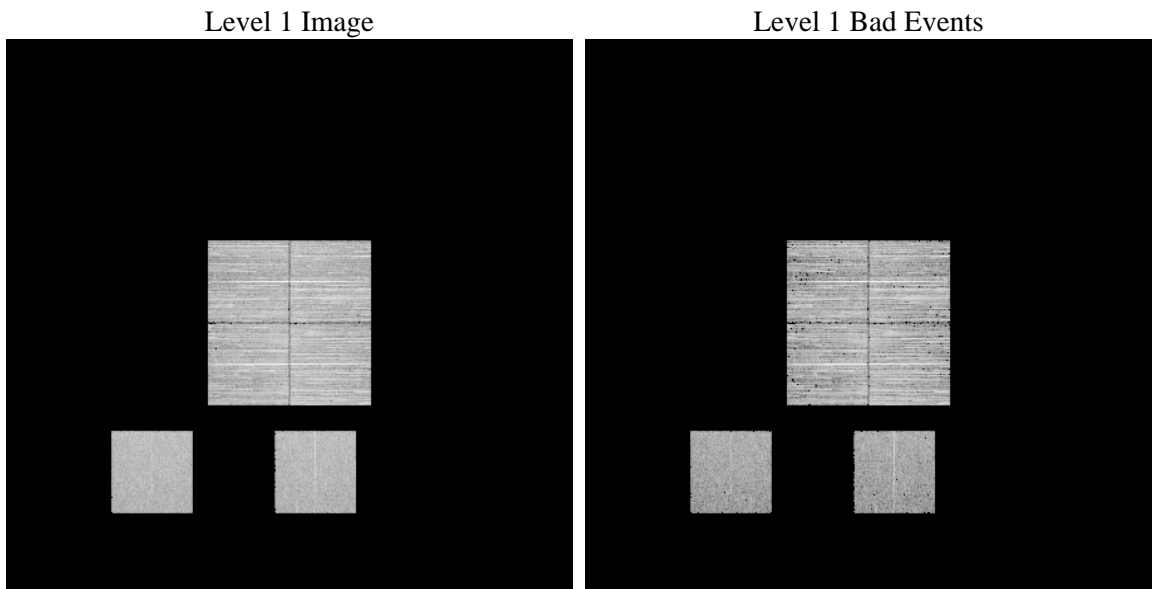
# 1 Front

seq_num	&#160	Sequence number
obs_id	54236	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	357.10445692762	Nominal RA [deg]
dec_nom	-5.0660027926267	Nominal Dec [deg]
roll_nom	299.97633322218	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4751.3555054069	Sum of GTIs [s]
livetime	4691.1909810746	Livetime [s]
ontime0	4751.3488807082	Sum of GTIs [s]
ontime1	4751.3078407049	Sum of GTIs [s]
ontime2	4751.2668007016	Sum of GTIs [s]
ontime3	4751.3554955125	Sum of GTIs [s]
ontime5	4751.2257606983	Sum of GTIs [s]
ontime7	4751.3555054069	Sum of GTIs [s]
l2events	149572	Number of level 2 events

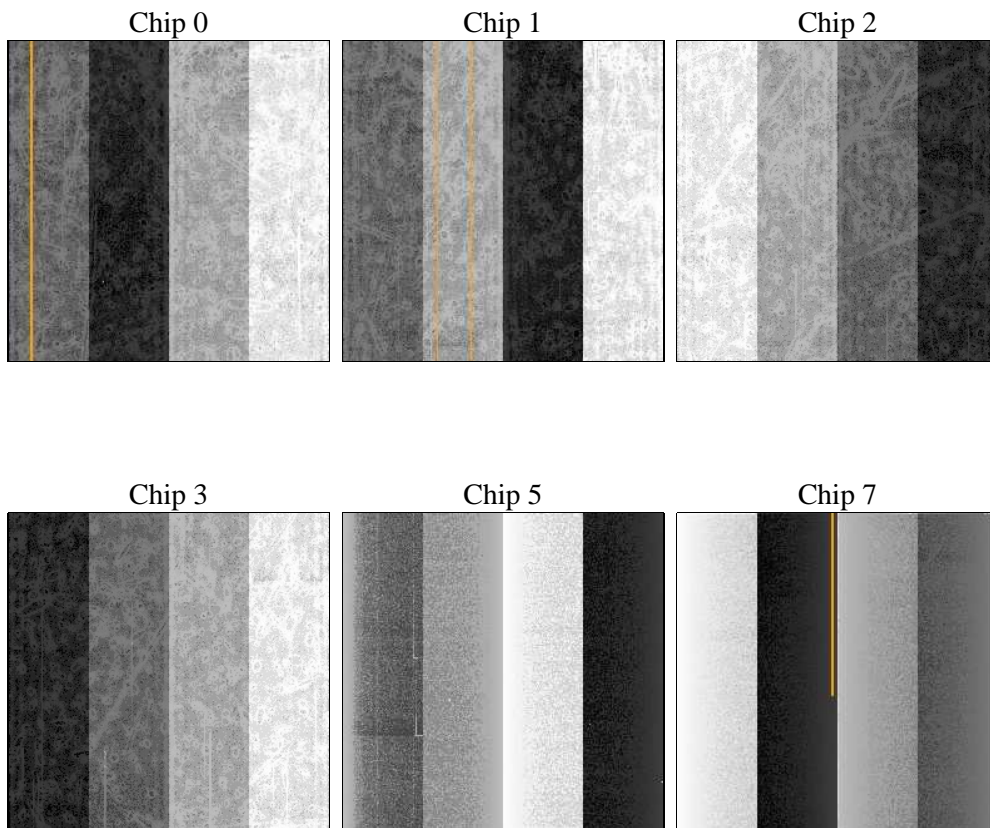
## 2 OBI

### 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	8.4.5	Processing system revision	ontime	4751.3555054069	Sum of GTIs [s]
caldbver	4.5.2	&#160	ontime0	4751.3488807082	Sum of GTIs [s]
date	2012-10-17T01:19:26	Date and time of file creation	ontime1	4751.3078407049	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	4751.2668007016	Sum of GTIs [s]
			ontime3	4751.3554955125	Sum of GTIs [s]
			ontime5	4751.2257606983	Sum of GTIs [s]
			ontime7	4751.3555054069	Sum of GTIs [s]
			l1events	522334	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	86894	94557	89294	99643	76480	75466	grade 0 events	10777	10484	11211	10949	3592	5451
rejected events	65938	73436	68076	78659	40229	39294		12%	11%	12%	10%	4%	7%
rejected %	75%	77%	76%	78%	52%	52%	grade 1 events	55	38	66	48	69	51
								0%	0%	0%	0%	0%	0%
							grade 2 events	4085	4334	3985	4033	13619	8903
								4%	4%	4%	4%	17%	11%
							grade 3 events	1460	1431	1441	1507	1385	2927
								1%	1%	1%	1%	1%	3%
							grade 4 events	1372	1424	1443	1484	1327	2973
								1%	1%	1%	1%	1%	3%
							grade 5 events	1633	1669	1513	1851	3436	4352
								1%	1%	1%	1%	4%	5%
							grade 6 events	3262	3448	3138	3011	16328	15918
								3%	3%	3%	3%	21%	21%
							grade 7 events	64250	71729	66497	76760	36724	34891
								73%	75%	74%	77%	48%	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	357.1044569276166	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-5.066002792626659	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	299.9763332221795	[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)	466791805.374117	466791804.34912			
Observation start date	2012-10-16T16:23:25	2012-10-16T16:23:24			
[s] Observation end time (MET)	466801175.92462	466801174.89962			
Observation end date	2012-10-16T18:59:36	2012-10-16T18:59:34			
Read mode	TIMED	TIMED			

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.10.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.7513555054069

### A.2 Comments