

# V&V Reference Report

## L2 ASCDS Version : 10.2.4

Observation 52419 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Oct 3 2014

## 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

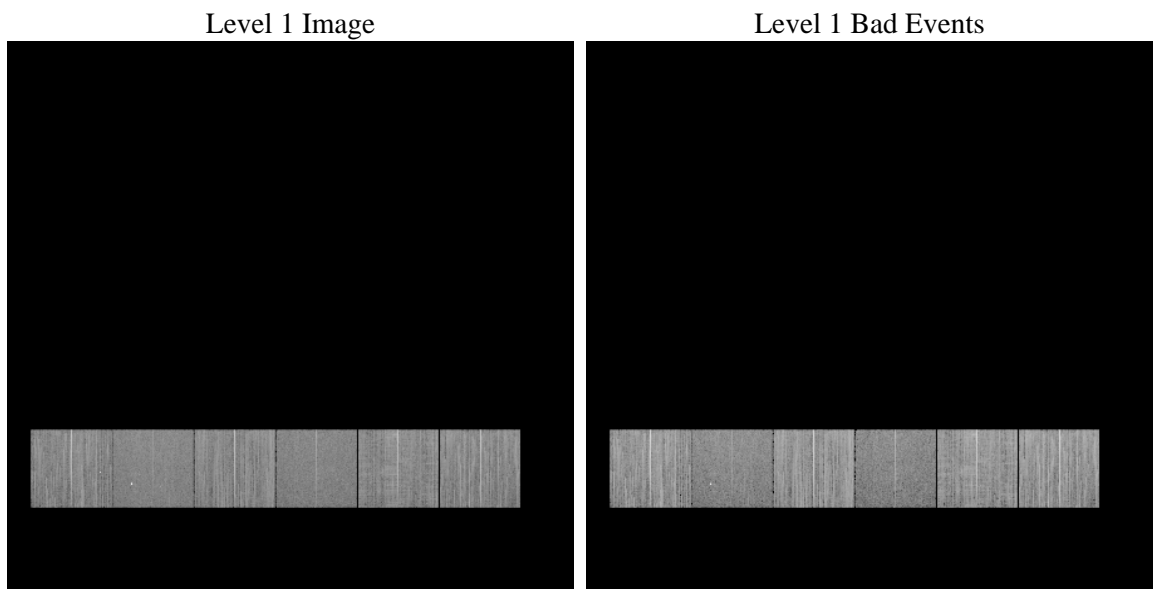
# 1 Front

seq_num	&#160	Sequence number
obs_id	52419	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	24.80881983702	Nominal RA [deg]
dec_nom	-15.272407751161	Nominal Dec [deg]
roll_nom	40.166617707324	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8428.7999686599	Sum of GTIs [s]
livetime	8322.0694282427	Livetime [s]
ontime4	8428.7999686599	Sum of GTIs [s]
ontime5	8428.7999686599	Sum of GTIs [s]
ontime6	8428.7999686599	Sum of GTIs [s]
ontime7	8428.7999686599	Sum of GTIs [s]
ontime8	8428.7999686599	Sum of GTIs [s]
ontime9	8428.7999686599	Sum of GTIs [s]
l2events	198715	Number of level 2 events

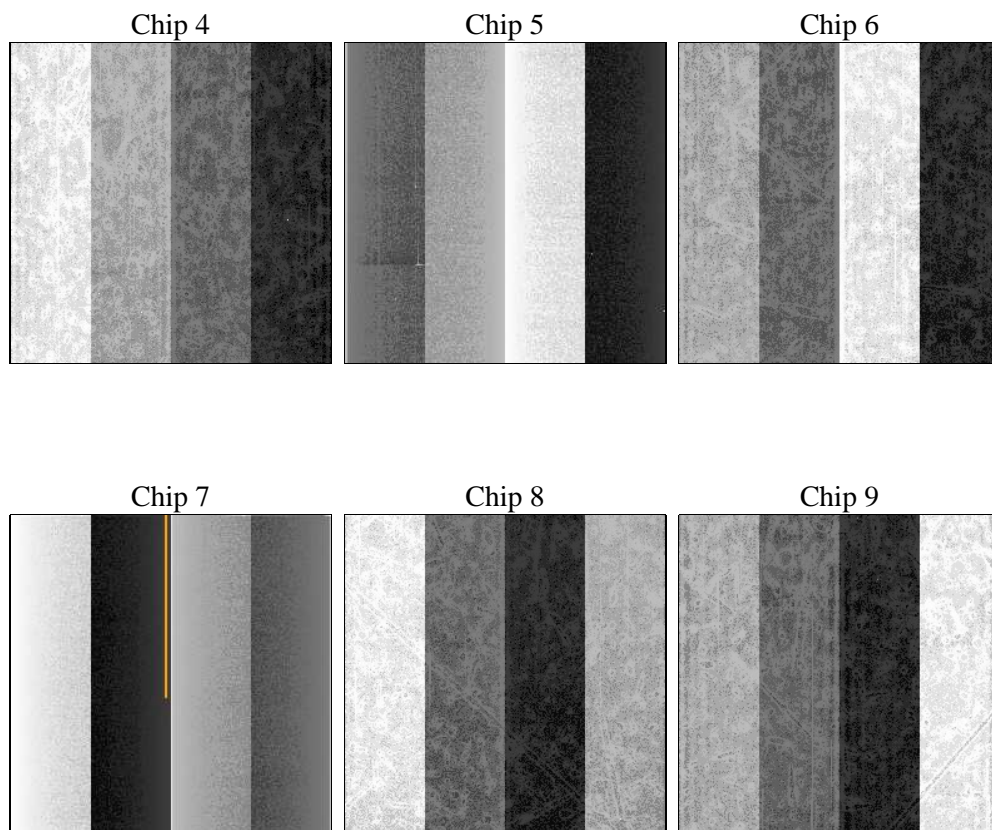
## 2 OBI

### 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	10.2.4	Processing system revision	ontime	8428.7999686599	Sum of GTIs [s]
caldsver	4.6.3	&#160	ontime4	8428.7999686599	Sum of GTIs [s]
date	2014-10-04T03:20:57	Date and time of file creation	ontime5	8428.7999686599	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8428.7999686599	Sum of GTIs [s]
			ontime7	8428.7999686599	Sum of GTIs [s]
			ontime8	8428.7999686599	Sum of GTIs [s]
			ontime9	8428.7999686599	Sum of GTIs [s]
			l1events	873900	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	149137	131149	155502	119939	158463	159710	grade 0 events	14232	5198	12507	6811	15141	12499
rejected events	122762	74652	129250	68241	123029	134177		9%	3%	8%	5%	9%	7%
rejected %	82%	56%	83%	56%	77%	84%	grade 1 events	99	119	84	103	92	88
								0%	0%	0%	0%	0%	0%
							grade 2 events	4927	21154	5401	12711	7621	5094
								3%	16%	3%	10%	4%	3%
							grade 3 events	1814	1827	1783	4135	2830	1752
								1%	1%	1%	3%	1%	1%
							grade 4 events	1814	1902	1792	4202	2756	1730
								1%	1%	1%	3%	1%	1%
							grade 5 events	3252	6208	3098	7602	4084	3500
								2%	4%	1%	6%	2%	2%
							grade 6 events	3588	26416	4769	23839	7086	4458
								2%	20%	3%	19%	4%	2%
							grade 7 events	119411	68325	126068	60536	118853	130589
								80%	52%	81%	50%	75%	81%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	24.80881983701959	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-15.27240775116097	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	40.16661770732408	[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)	528724836.409056	528724835.38406			
Observation start date	2014-10-03T12:00:36	2014-10-03T12:00:35			
[s] Observation end time (MET)	528735016.709621	528735015.68462			
Observation end date	2014-10-03T14:50:17	2014-10-03T14:50:15			
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)	2014.10.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4287999686599

### A.2 Comments