

# V&V Reference Report

## L2 ASCDS Version : 10.3.1

Observation 52186 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jan 14 2015

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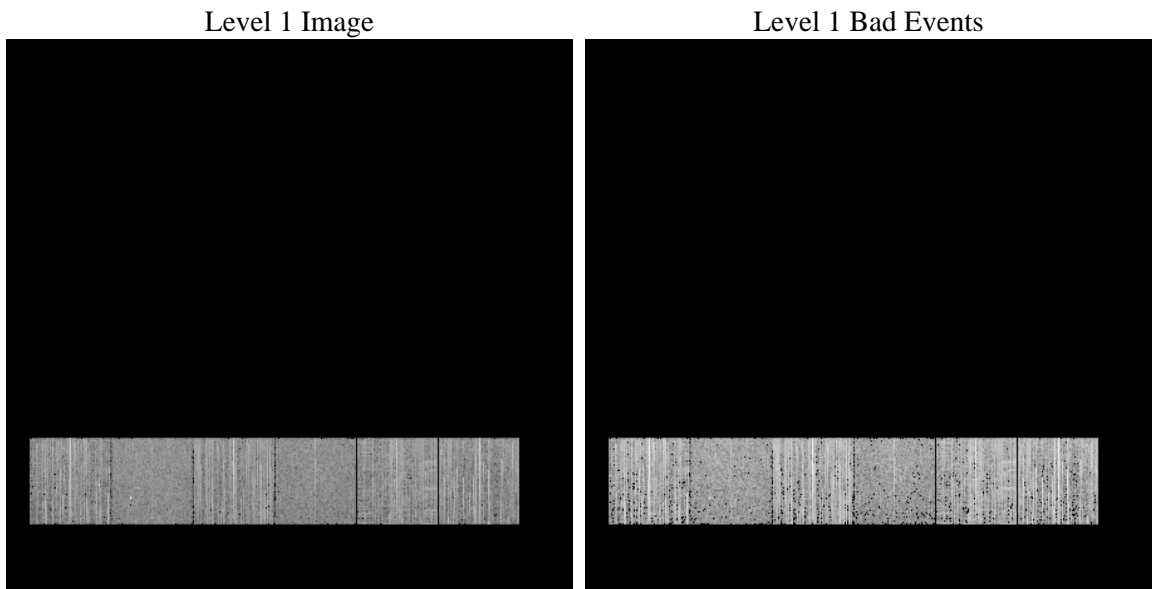
# 1 Front

seq_num	&#160	Sequence number
obs_id	52186	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	97.941326821807	Nominal RA [deg]
dec_nom	3.0800340653207	Nominal Dec [deg]
roll_nom	317.58716801091	Nominal Roll [deg]
revision	1	Processing version of data
ontime	2491.8051838875	Sum of GTIs [s]
livetime	2460.2524462641	Livetime [s]
ontime4	2491.682063818	Sum of GTIs [s]
ontime5	2491.7641438246	Sum of GTIs [s]
ontime6	2491.7231038809	Sum of GTIs [s]
ontime7	2491.8051838875	Sum of GTIs [s]
ontime8	2491.6410238743	Sum of GTIs [s]
ontime9	2491.8462238312	Sum of GTIs [s]
l2events	76927	Number of level 2 events

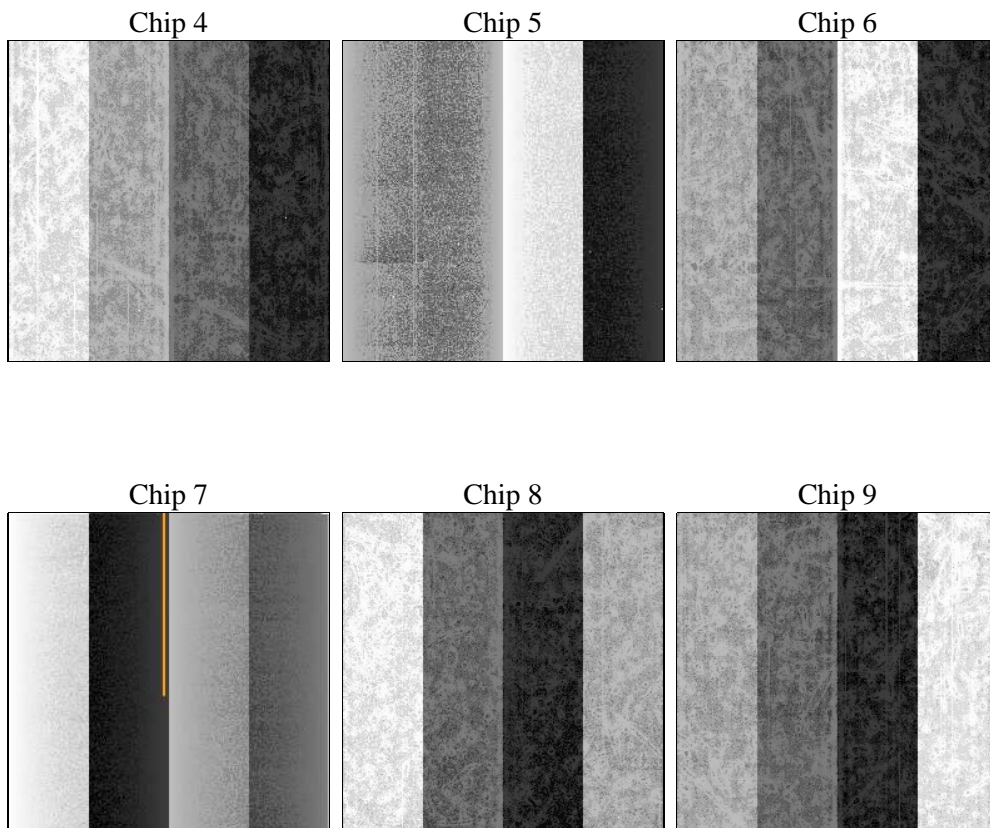
## 2 OBI

### 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	10.3.1	Processing system revision	ontime	2491.8051838875	Sum of GTIs [s]
caldsver	4.6.5	&#160	ontime4	2491.682063818	Sum of GTIs [s]
date	2015-01-14T14:57:27	Date and time of file creation	ontime5	2491.7641438246	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	2491.7231038809	Sum of GTIs [s]
			ontime7	2491.8051838875	Sum of GTIs [s]
			ontime8	2491.6410238743	Sum of GTIs [s]
			ontime9	2491.8462238312	Sum of GTIs [s]
			l1events	305810	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	53304	43474	57343	40001	55134	56554	grade 0 events	6247	1666	4036	2359	5488	4816
rejected events	41597	24069	46236	22263	41387	45318		11%	3%	7%	5%	9%	8%
rejected %	78%	55%	80%	55%	75%	80%	grade 1 events	53	64	20	38	24	27
								0%	0%	0%	0%	0%	0%
							grade 2 events	2318	7437	3640	4530	3456	2920
								4%	17%	6%	11%	6%	5%
							grade 3 events	774	614	536	1212	933	659
								1%	1%	0%	3%	1%	1%
							grade 4 events	696	484	530	1171	917	671
								1%	1%	0%	2%	1%	1%
							grade 5 events	944	1607	800	2016	1192	1073
								1%	3%	1%	5%	2%	1%
							grade 6 events	1797	9438	2509	8699	3120	2328
								3%	21%	4%	21%	5%	4%
							grade 7 events	40475	22164	45272	19976	40004	44060
								75%	50%	78%	49%	72%	77%

## 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	OVERRIDE	OVERRIDE
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	97.94132682180746	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	3.080034065320717	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	317.5871680109145	[s] Primary exposure time	3.2	3.2
SIM focus pos (mm)	-0.68282252473119	-0.68282252473119			
[mm] SIM defocus	0.001444942264670734	0.001444942264670734			
SIM translation stage pos (mm)	-187.1254020033	-187.1254020033			
[mm] SIM translation stage offset	-3.007121100667206	-3.007121100667206			
[s] Observation start time (MET)	537406625.8424259	537406625.8424259			
Observation start date	2015-01-11T23:37:06	2015-01-11T23:37:05			
[s] Observation end time (MET)	537484703.171785	537484703.171785			
Observation end date	2015-01-12T21:18:23	2015-01-12T21:18:23			
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)	2015.01.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.4918051838875

### A.2 Comments