

# V&V Reference Report

## L2 ASCDS Version : 10.3.1

Observation 52241 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Dec 19 2014

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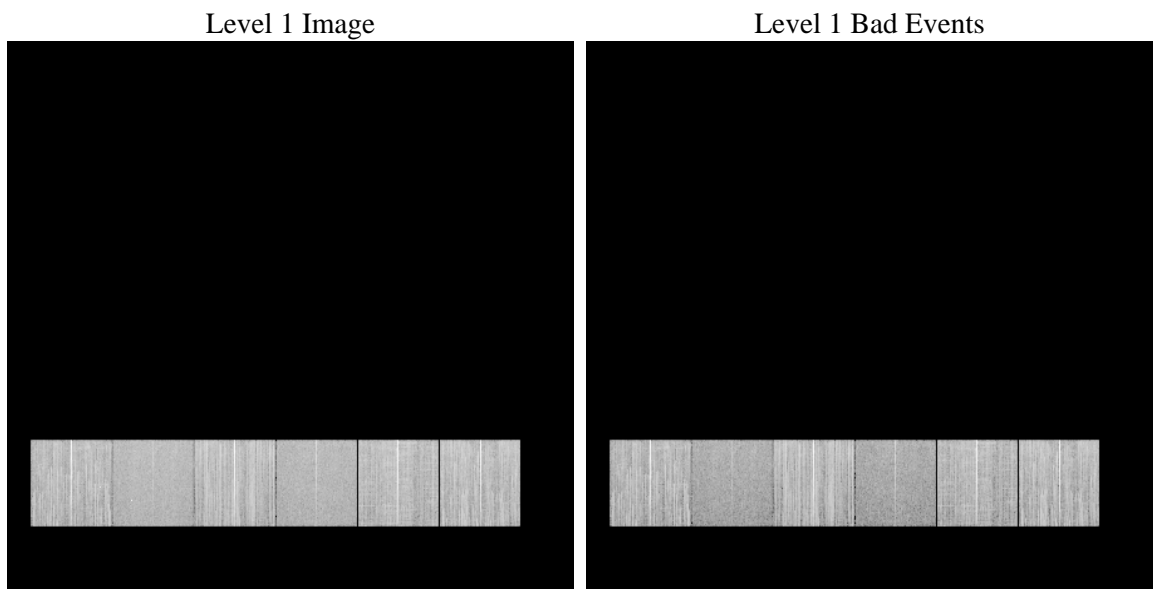
# 1 Front

seq_num	&#160	Sequence number
obs_id	52241	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	112.9985194414	Nominal RA [deg]
dec_nom	11.02888416628	Nominal Dec [deg]
roll_nom	60.223659879418	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8277.0908102393	Sum of GTIs [s]
livetime	8172.2813025343	Livetime [s]
ontime4	8127.8778624535	Sum of GTIs [s]
ontime5	8277.049770236	Sum of GTIs [s]
ontime6	8140.883112967	Sum of GTIs [s]
ontime7	8277.0908102393	Sum of GTIs [s]
ontime8	8157.0080390573	Sum of GTIs [s]
ontime9	8141.0062327981	Sum of GTIs [s]
l2events	190614	Number of level 2 events

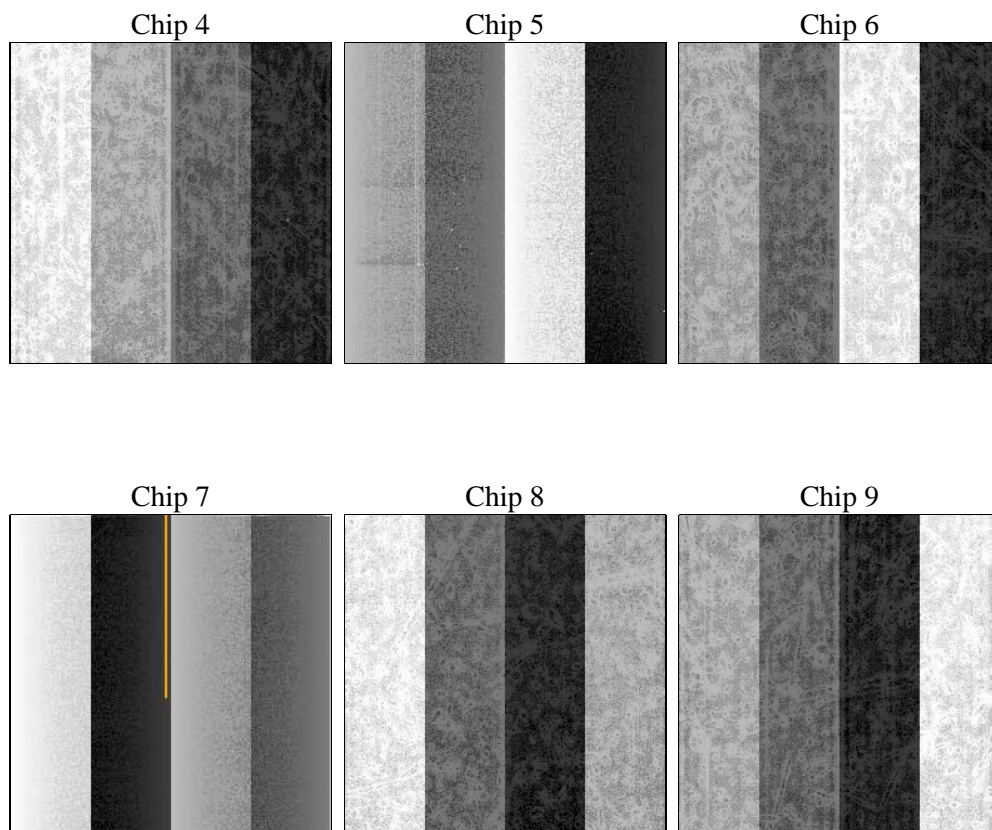
## 2 OBI

### 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	8277.0908102393	Sum of GTIs [s]
caldsver	4.6.5	&#160	ontime4	8127.8778624535	Sum of GTIs [s]
date	2014-12-19T20:57:07	Date and time of file creation	ontime5	8277.049770236	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8140.883112967	Sum of GTIs [s]
			ontime7	8277.0908102393	Sum of GTIs [s]
			ontime8	8157.0080390573	Sum of GTIs [s]
			ontime9	8141.0062327981	Sum of GTIs [s]
			l1events	927873	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	159142	134150	174597	124912	164024	171048	grade 0 events	12571	3629	9922	5976	13829	11142
rejected events	134674	79605	149969	74633	130236	146923		7%	2%	5%	4%	8%	6%
rejected %	84%	59%	85%	59%	79%	85%	grade 1 events	117	192	58	98	72	89
								0%	0%	0%	0%	0%	0%
							grade 2 events	4936	19447	7313	12542	8055	5561
								3%	14%	4%	10%	4%	3%
							grade 3 events	1815	1717	1323	3546	2414	1534
								1%	1%	0%	2%	1%	0%
							grade 4 events	1778	1552	1293	3414	2356	1594
								1%	1%	0%	2%	1%	0%
							grade 5 events	3161	5782	2635	7026	3863	3307
								1%	4%	1%	5%	2%	1%
							grade 6 events	3368	28200	4777	24801	7134	4294
								2%	21%	2%	19%	4%	2%
							grade 7 events	131396	73631	147276	67509	126301	143527
								82%	54%	84%	54%	77%	83%

## 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	112.998519441402	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	11.02888416627982	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	60.22365987941816	[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)	535351273.177785	535351272.15279			
Observation start date	2014-12-19T04:41:13	2014-12-19T04:41:12			
[s] Observation end time (MET)	535361135.728335	535361134.70334			
Observation end date	2014-12-19T07:25:36	2014-12-19T07:25:34			
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)	2014.12.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2770908102393

### A.2 Comments