

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 53759 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Apr 20 2013

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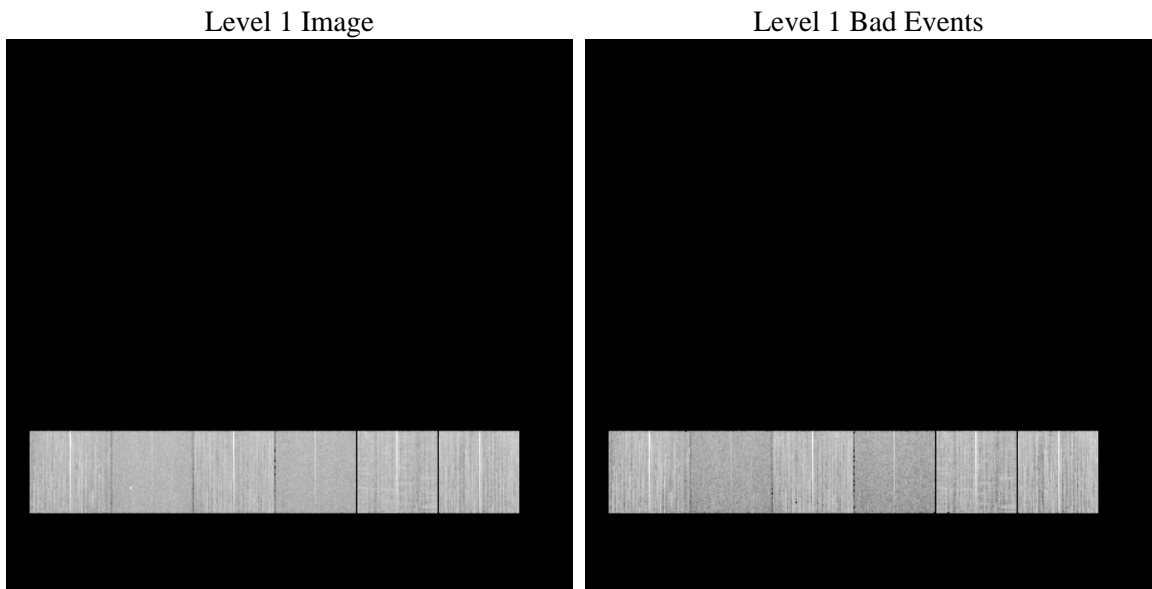
# 1 Front

seq_num	&#160	Sequence number
obs_id	53759	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycycle	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	175.55442806953	Nominal RA [deg]
dec_nom	-1.4340085197666	Nominal Dec [deg]
roll_nom	251.33911868079	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8275.1999692321	Sum of GTIs [s]
livetime	8170.4144044945	Livetime [s]
ontime4	8275.1999692321	Sum of GTIs [s]
ontime5	8275.1999692321	Sum of GTIs [s]
ontime6	8275.1999692321	Sum of GTIs [s]
ontime7	8275.1999692321	Sum of GTIs [s]
ontime8	8275.1999692321	Sum of GTIs [s]
ontime9	8275.1999692321	Sum of GTIs [s]
l2events	242223	Number of level 2 events

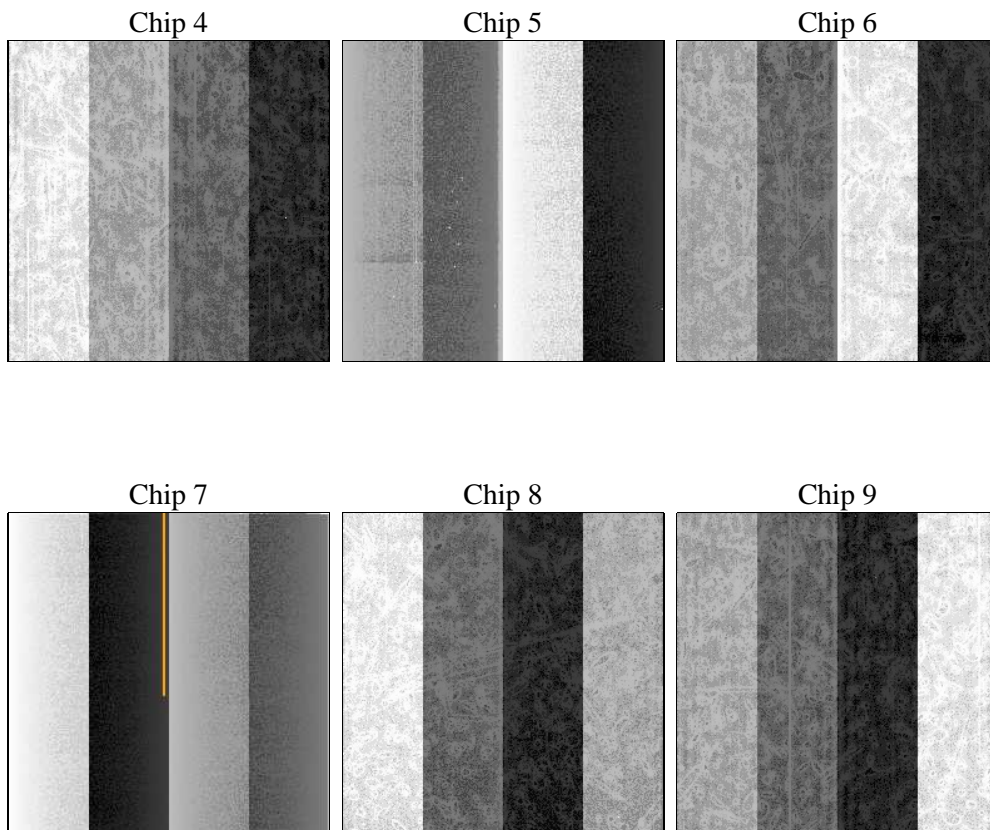
## 2 OBI

### 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	8.5.1.1	Processing system revision	ontime	8275.1999692321	Sum of GTIs [s]
caldbver	4.5.6	&#160	ontime4	8275.1999692321	Sum of GTIs [s]
date	2013-04-20T14:41:32	Date and time of file creation	ontime5	8275.1999692321	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8275.1999692321	Sum of GTIs [s]
			ontime7	8275.1999692321	Sum of GTIs [s]
			ontime8	8275.1999692321	Sum of GTIs [s]
			ontime9	8275.1999692321	Sum of GTIs [s]
			l1events	959341	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	167849	139442	174627	130609	167970	178844	grade 0 events	17831	4957	14696	8041	18981	16348
rejected events	134848	77522	140554	71364	125670	145253		10%	3%	8%	6%	11%	9%
rejected %	80%	55%	80%	54%	74%	81%	grade 1 events	127	143	69	84	93	85
								0%	0%	0%	0%	0%	0%
							grade 2 events	6439	23019	9285	14929	9294	7266
								3%	16%	5%	11%	5%	4%
							grade 3 events	2258	1937	1897	4477	2956	2215
								1%	1%	1%	3%	1%	1%
							grade 4 events	2201	1914	1890	4313	3110	2123
								1%	1%	1%	3%	1%	1%
							grade 5 events	3194	5686	2805	7061	3986	3339
								1%	4%	1%	5%	2%	1%
							grade 6 events	4290	30114	6317	27514	7988	5658
								2%	21%	3%	21%	4%	3%
							grade 7 events	131509	71672	137668	64190	121562	141810
								78%	51%	78%	49%	72%	79%

## 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	175.5544280695262	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-1.434008519766602	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	251.3391186807926	[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)	482787449.886809	482787448.86181			
Observation start date	2013-04-19T19:37:30	2013-04-19T19:37:28			
[s] Observation end time (MET)	482799249.687448	482799248.66245			
Observation end date	2013-04-19T22:54:10	2013-04-19T22:54:08			
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)	2013.04.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2751999692321

## A.2 Comments