

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 53994 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jan 28 2013

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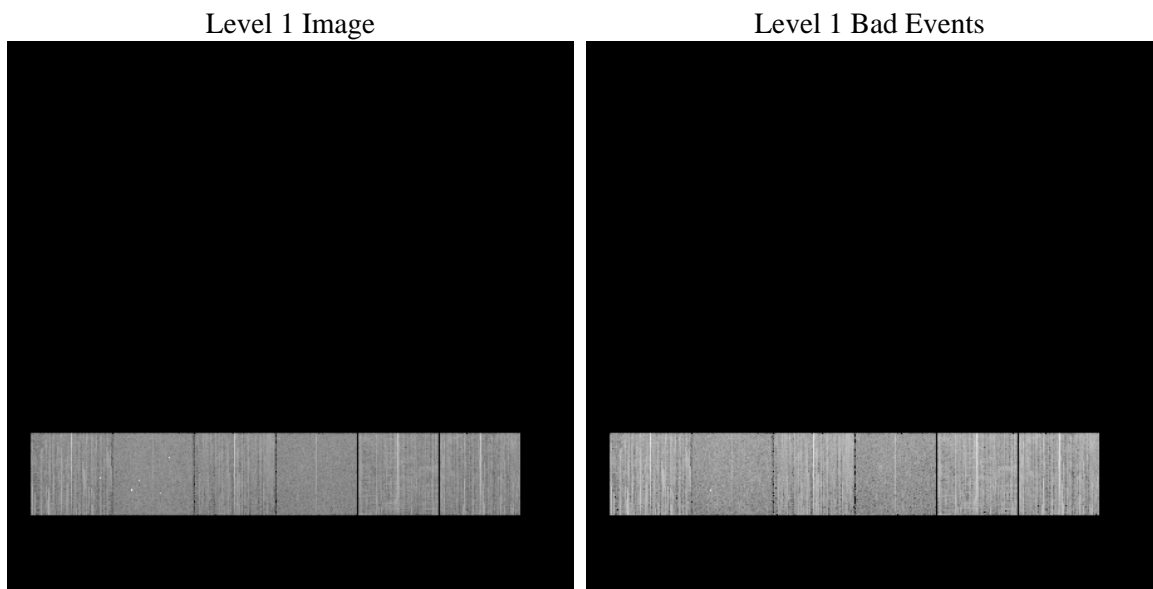
# 1 Front

seq_num	&#160	Sequence number
obs_id	53994	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	80.296733747923	Nominal RA [deg]
dec_nom	38.983080261702	Nominal Dec [deg]
roll_nom	250.92325551745	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5740.7999786735	Sum of GTIs [s]
livetime	5668.1065126488	Livetime [s]
ontime4	5740.7999786735	Sum of GTIs [s]
ontime5	5740.7999786735	Sum of GTIs [s]
ontime6	5740.7999786735	Sum of GTIs [s]
ontime7	5740.7999786735	Sum of GTIs [s]
ontime8	5740.7999786735	Sum of GTIs [s]
ontime9	5740.7999786735	Sum of GTIs [s]
l2events	180805	Number of level 2 events

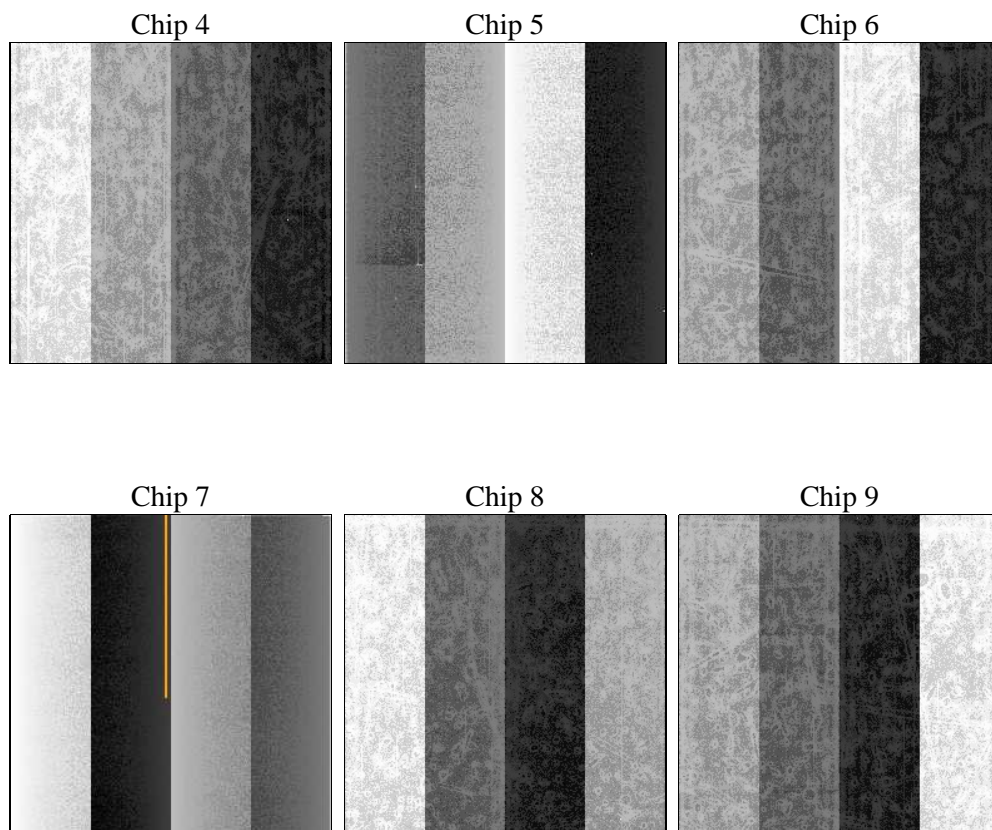
## 2 OBI

### 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	5740.7999786735	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime4	5740.7999786735	Sum of GTIs [s]
date	2013-01-28T07:36:27	Date and time of file creation	ontime5	5740.7999786735	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	5740.7999786735	Sum of GTIs [s]
			ontime7	5740.7999786735	Sum of GTIs [s]
			ontime8	5740.7999786735	Sum of GTIs [s]
			ontime9	5740.7999786735	Sum of GTIs [s]
			l1events	690986	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	121100	106659	119485	97601	124714	121427	grade 0 events	14892	6716	13137	7035	15281	13202
rejected events	95691	57889	94177	53204	92431	96513		12%	6%	10%	7%	12%	10%
rejected %	79%	54%	78%	54%	74%	79%	grade 1 events	113	273	51	77	73	68
								0%	0%	0%	0%	0%	0%
							grade 2 events	4646	18182	5201	11317	6721	4986
								3%	17%	4%	11%	5%	4%
							grade 3 events	1822	2045	1742	3887	2541	1720
								1%	1%	1%	3%	2%	1%
							grade 4 events	1760	1859	1709	4016	2438	1801
								1%	1%	1%	4%	1%	1%
							grade 5 events	2505	5135	2404	5993	3175	2802
								2%	4%	2%	6%	2%	2%
							grade 6 events	3298	21841	4554	19875	6402	4195
								2%	20%	3%	20%	5%	3%
							grade 7 events	92064	50608	90687	45401	88083	92653
								76%	47%	75%	46%	70%	76%

## 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	80.29673374792343	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	38.98308026170169	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	250.9232555174477	[s] Primary exposure time	3.2	3.2
SIM focus pos (mm)	-1.4281808131	-1.4281808131			
[mm] SIM defocus	0.1051557500557434	0.1051557500557434			
SIM translation stage pos (mm)	250.4635187649	250.4635187649			
[mm] SIM translation stage offset	-0.007542945905271381	-0.007542945905271381			
[s] Observation start time (MET)	475676083.552306	475676083.552306			
Observation start date	2013-01-27T12:14:44	2013-01-27T12:14:43			
[s] Observation end time (MET)	475683826.217365	475683826.217365			
Observation end date	2013-01-27T14:23:46	2013-01-27T14:23:46			
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)	2013.01.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.7407999786735

### A.2 Comments