

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 54532 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jun 22 2012

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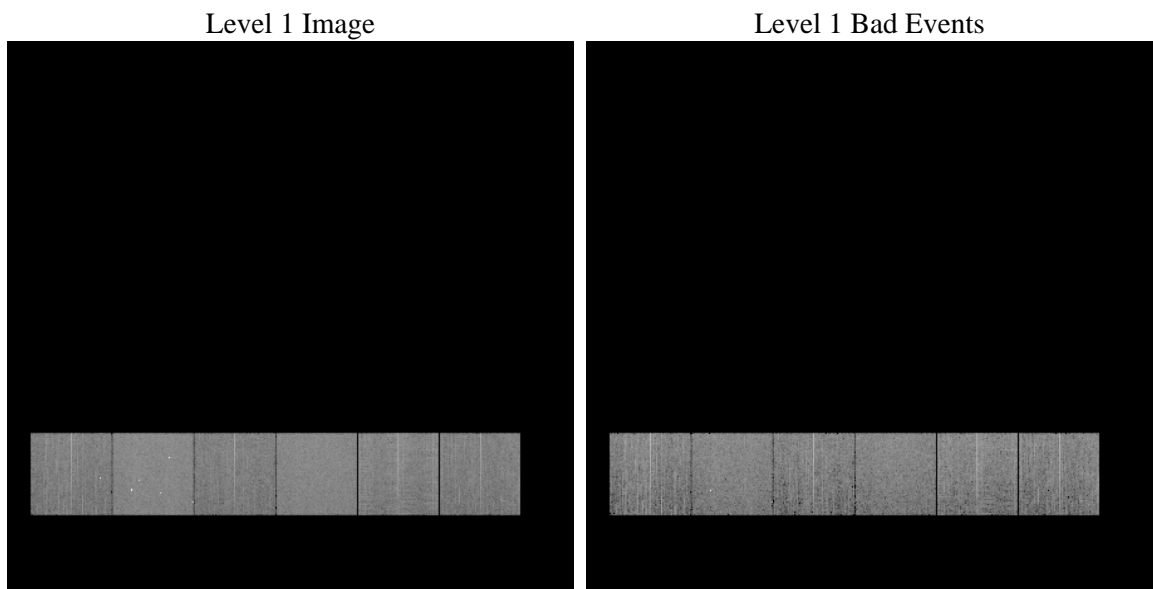
# 1 Front

seq_num	&#160	Sequence number
obs_id	54532	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	244.91391361575	Nominal RA [deg]
dec_nom	-21.824209177768	Nominal Dec [deg]
roll_nom	261.16910614606	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8283.4159473777	Sum of GTIs [s]
livetime	8178.5263469777	Livetime [s]
ontime4	8283.2928273678	Sum of GTIs [s]
ontime5	8283.3749073744	Sum of GTIs [s]
ontime6	8283.3338673711	Sum of GTIs [s]
ontime7	8283.4159473777	Sum of GTIs [s]
ontime8	8283.2517873645	Sum of GTIs [s]
ontime9	8283.456987381	Sum of GTIs [s]
l2events	280592	Number of level 2 events

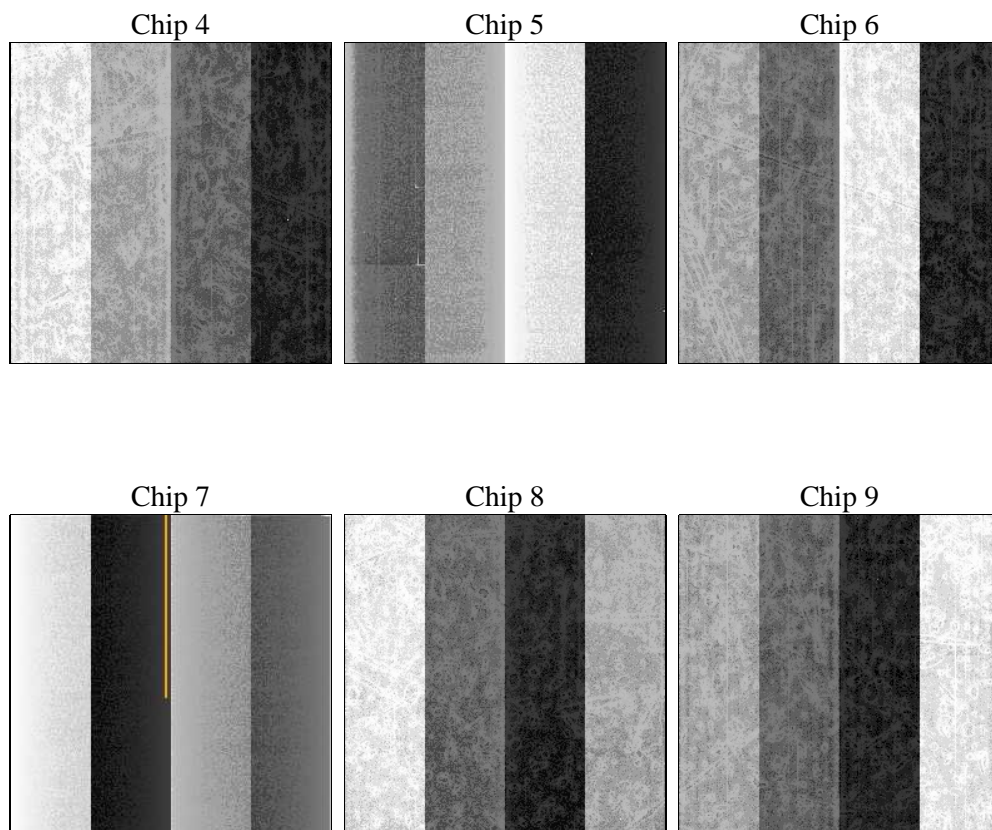
## 2 OBI

### 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	8.4.5	Processing system revision	ontime	8283.4159473777	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime4	8283.2928273678	Sum of GTIs [s]
date	2012-06-22T19:00:20	Date and time of file creation	ontime5	8283.3749073744	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8283.3338673711	Sum of GTIs [s]
			ontime7	8283.4159473777	Sum of GTIs [s]
			ontime8	8283.2517873645	Sum of GTIs [s]
			ontime9	8283.456987381	Sum of GTIs [s]
			l1events	649047	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	97858	131928	93853	120634	110308	94466	grade 0 events	23841	10786	21089	10647	24054	20679
rejected events	56778	58047	52527	54539	59407	54591		24%	8%	22%	8%	21%	21%
rejected %	58%	43%	55%	45%	53%	57%	grade 1 events	184	242	110	98	128	129
								0%	0%	0%	0%	0%	0%
							grade 2 events	6442	25938	7775	14274	9461	7181
								6%	19%	8%	11%	8%	7%
							grade 3 events	2887	2793	2780	5679	3927	2813
								2%	2%	2%	4%	3%	2%
							grade 4 events	2756	2817	2686	5803	3946	2734
								2%	2%	2%	4%	3%	2%
							grade 5 events	3491	7227	3351	8575	4525	3836
								3%	5%	3%	7%	4%	4%
							grade 6 events	5154	31547	6996	29692	9513	6468
								5%	23%	7%	24%	8%	6%
							grade 7 events	53103	50578	49066	45866	54754	50626
								54%	38%	52%	38%	49%	53%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	244.9139136157497
[deg] Pointing Dec	0	-21.82420917776761
[deg] Pointing Roll	0.0	261.1691061460621
[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)	456737009.93625	456737008.91125
Observation start date	2012-06-22T07:23:30	2012-06-22T07:23:28
[s] Observation end time (MET)	456748846.63688	456748845.61188
Observation end date	2012-06-22T10:40:47	2012-06-22T10:40:45
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2834159473777

### A.2 Comments