

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 54061 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Dec 29 2012

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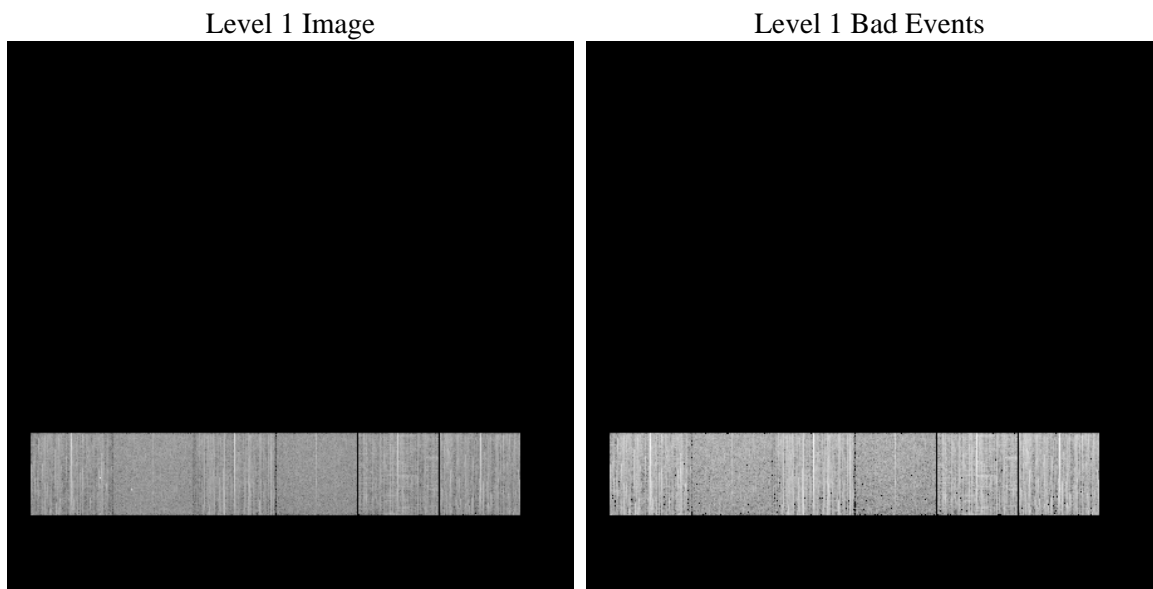
# 1 Front

seq_num	&#160	Sequence number
obs_id	54061	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	84.839702379596	Nominal RA [deg]
dec_nom	-0.78297420787199	Nominal Dec [deg]
roll_nom	330.96616375036	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4147.1999846101	Sum of GTIs [s]
livetime	4094.6856412609	Livetime [s]
ontime4	4147.1999846101	Sum of GTIs [s]
ontime5	4147.1999846101	Sum of GTIs [s]
ontime6	4147.1999846101	Sum of GTIs [s]
ontime7	4147.1999846101	Sum of GTIs [s]
ontime8	4147.1999846101	Sum of GTIs [s]
ontime9	4147.1999846101	Sum of GTIs [s]
l2events	130119	Number of level 2 events

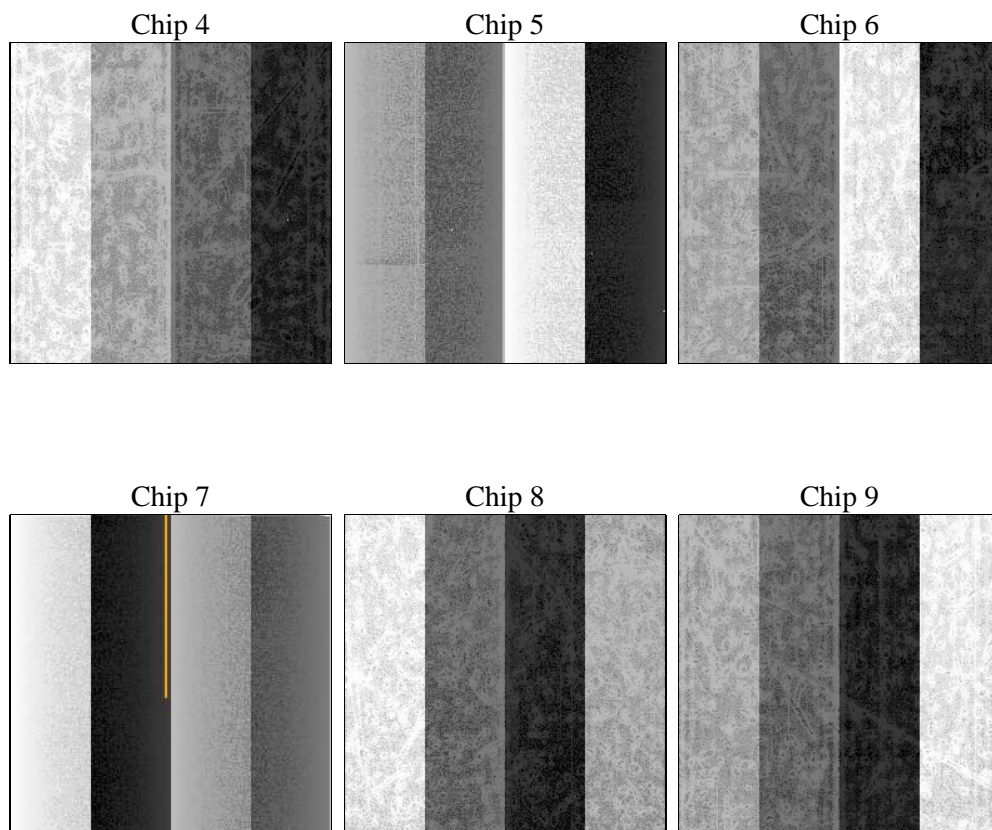
## 2 OBI

### 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	4147.1999846101	Sum of GTIs [s]
caldbver	4.5.5	&#160	ontime4	4147.1999846101	Sum of GTIs [s]
date	2012-12-30T02:17:42	Date and time of file creation	ontime5	4147.1999846101	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	4147.1999846101	Sum of GTIs [s]
			ontime7	4147.1999846101	Sum of GTIs [s]
			ontime8	4147.1999846101	Sum of GTIs [s]
			ontime9	4147.1999846101	Sum of GTIs [s]
			l1events	490504	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	85273	71681	89298	68106	88323	87823	grade 0 events	10311	3165	8996	4540	10519	9185
rejected events	66794	38994	70868	36189	65375	69665		12%	4%	10%	6%	11%	10%
rejected %	78%	54%	79%	53%	74%	79%	grade 1 events	103	77	38	39	70	52
								0%	0%	0%	0%	0%	0%
							grade 2 events	3359	12365	3857	7937	4667	3568
								3%	17%	4%	11%	5%	4%
							grade 3 events	1241	1191	1202	2561	1740	1206
								1%	1%	1%	3%	1%	1%
							grade 4 events	1180	1089	1151	2544	1738	1252
								1%	1%	1%	3%	1%	1%
							grade 5 events	1644	3164	1566	3955	2235	1869
								1%	4%	1%	5%	2%	2%
							grade 6 events	2388	14877	3224	14335	4284	2947
								2%	20%	3%	21%	4%	3%
							grade 7 events	65047	35753	69264	32195	63070	67744
								76%	49%	77%	47%	71%	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	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	84.83970237959632	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-0.7829742078719892	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	330.966163750363	[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)	473189845.46816	473189844.44316			
Observation start date	2012-12-29T17:37:25	2012-12-29T17:37:24			
[s] Observation end time (MET)	473197204.968556	473197203.94356			
Observation end date	2012-12-29T19:40:05	2012-12-29T19:40:03			
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)	2012.12.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.1471999846101

### A.2 Comments