

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 53779 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Apr 15 2013

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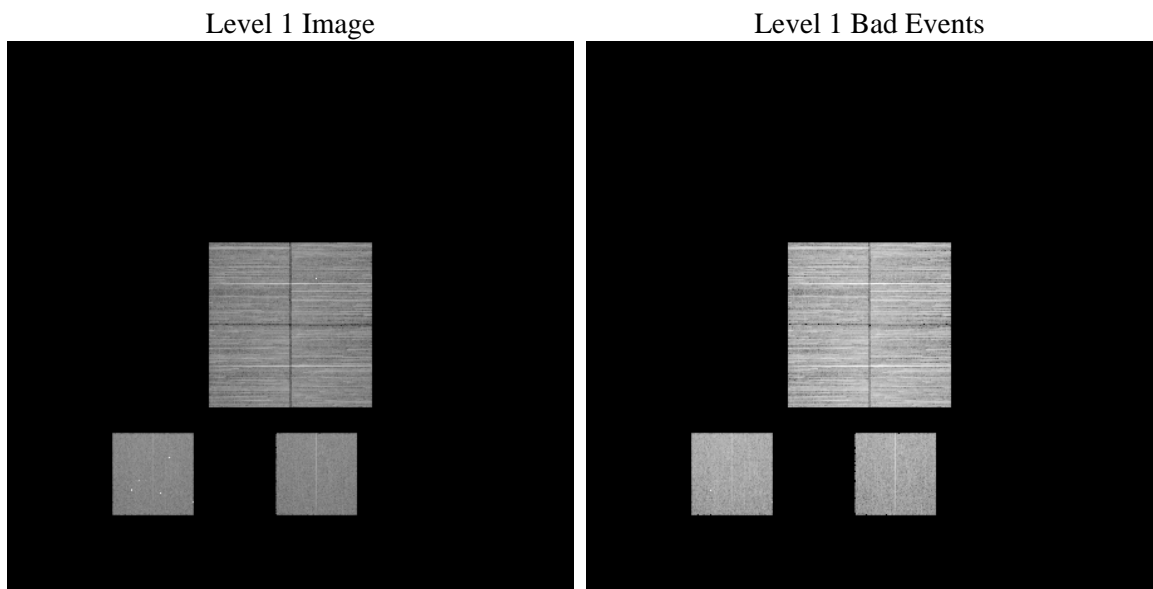
# 1 Front

seq_num	&#160	Sequence number
obs_id	53779	Observation id
title	ACIS-012357 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	191.03588221944	Nominal RA [deg]
dec_nom	-37.994823883447	Nominal Dec [deg]
roll_nom	337.42433829711	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8286.8055571914	Sum of GTIs [s]
livetime	8181.873035511	Livetime [s]
ontime0	8286.7645171881	Sum of GTIs [s]
ontime1	8286.7234771848	Sum of GTIs [s]
ontime2	8286.6824371815	Sum of GTIs [s]
ontime3	8286.8465971947	Sum of GTIs [s]
ontime5	8286.6413971782	Sum of GTIs [s]
ontime7	8286.8055571914	Sum of GTIs [s]
l2events	247034	Number of level 2 events

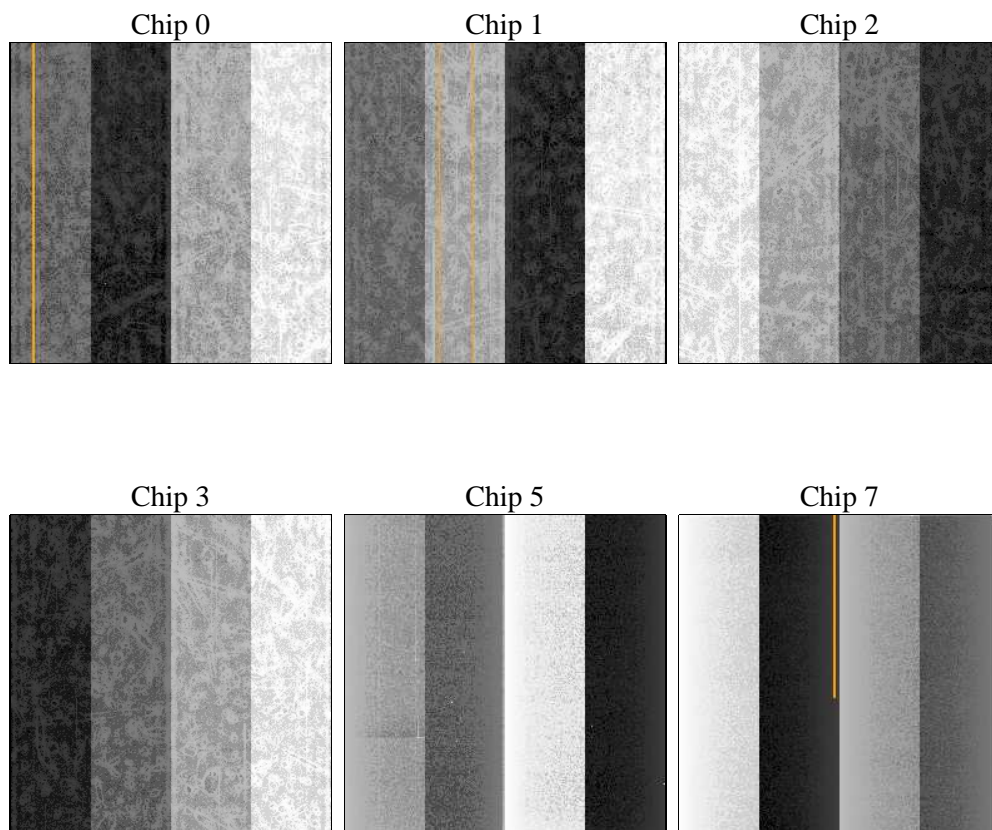
## 2 OBI

### 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	8286.8055571914	Sum of GTIs [s]
caldsver	4.5.6	&#160	ontime0	8286.7645171881	Sum of GTIs [s]
date	2013-04-15T15:21:13	Date and time of file creation	ontime1	8286.7234771848	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8286.6824371815	Sum of GTIs [s]
			ontime3	8286.8465971947	Sum of GTIs [s]
			ontime5	8286.6413971782	Sum of GTIs [s]
			ontime7	8286.8055571914	Sum of GTIs [s]
			l1events	934733	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	154214	170576	164526	167150	144914	133353	grade 0 events	16950	19158	17460	17598	11746	8959
rejected events	121073	134512	130841	133500	75137	71822		10%	11%	10%	10%	8%	6%
rejected %	78%	78%	79%	79%	51%	53%	grade 1 events	96	123	91	107	209	100
								0%	0%	0%	0%	0%	0%
							grade 2 events	6470	7027	6516	6373	24342	15018
								4%	4%	3%	3%	16%	11%
							grade 3 events	2356	2176	2323	2338	2519	5100
								1%	1%	1%	1%	1%	3%
							grade 4 events	2241	2195	2261	2357	2486	5188
								1%	1%	1%	1%	1%	3%
							grade 5 events	2976	3047	2773	3399	6693	8020
								1%	1%	1%	2%	4%	6%
							grade 6 events	5124	5508	5125	4984	28684	27266
								3%	3%	3%	2%	19%	20%
							grade 7 events	118001	131342	127977	129994	68235	63702
								76%	76%	77%	77%	47%	47%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012357	ACIS-012357	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	191.0358822194364	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-37.99482388344714	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	337.4243382971061	[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)	482301282.110509	482301281.08551			
Observation start date	2013-04-14T04:34:42	2013-04-14T04:34:41			
[s] Observation end time (MET)	482311530.061064	482311529.03606			
Observation end date	2013-04-14T07:25:30	2013-04-14T07:25:29			
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)	2013.04.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2868055571914

### A.2 Comments