

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 54155 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Nov 17 2012

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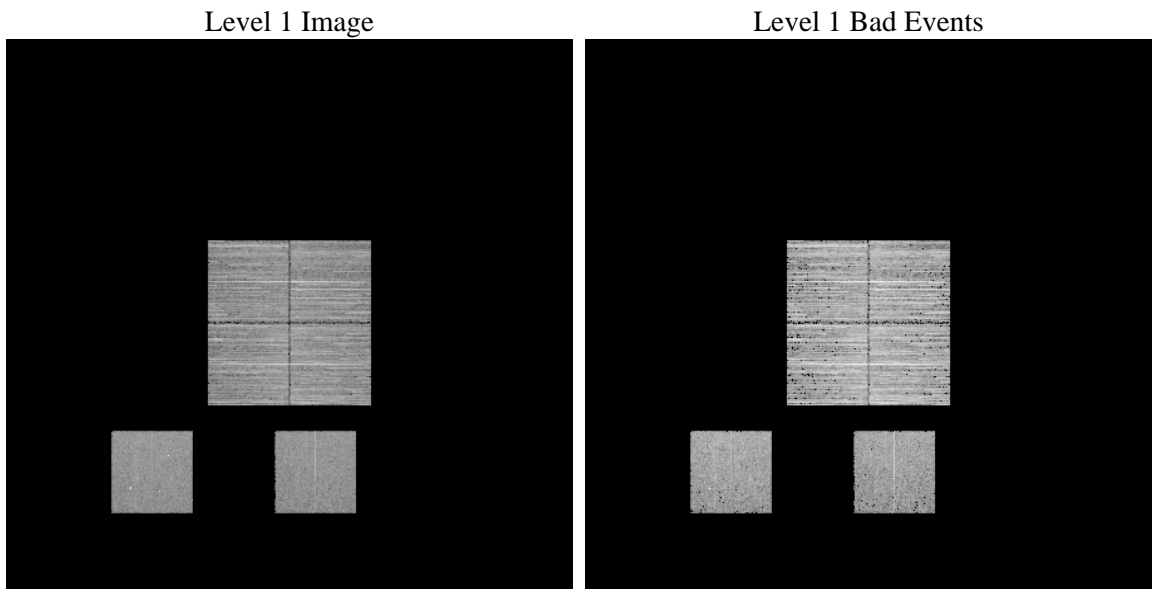
# 1 Front

seq_num	&#160	Sequence number
obs_id	54155	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	60.01883188401	Nominal RA [deg]
dec_nom	-3.9782034410162	Nominal Dec [deg]
roll_nom	16.617334182382	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3942.399985373	Sum of GTIs [s]
livetime	3892.47894293	Livetime [s]
ontime0	3942.399985373	Sum of GTIs [s]
ontime1	3942.399985373	Sum of GTIs [s]
ontime2	3942.399985373	Sum of GTIs [s]
ontime3	3942.399985373	Sum of GTIs [s]
ontime5	3942.399985373	Sum of GTIs [s]
ontime7	3942.399985373	Sum of GTIs [s]
l2events	124446	Number of level 2 events

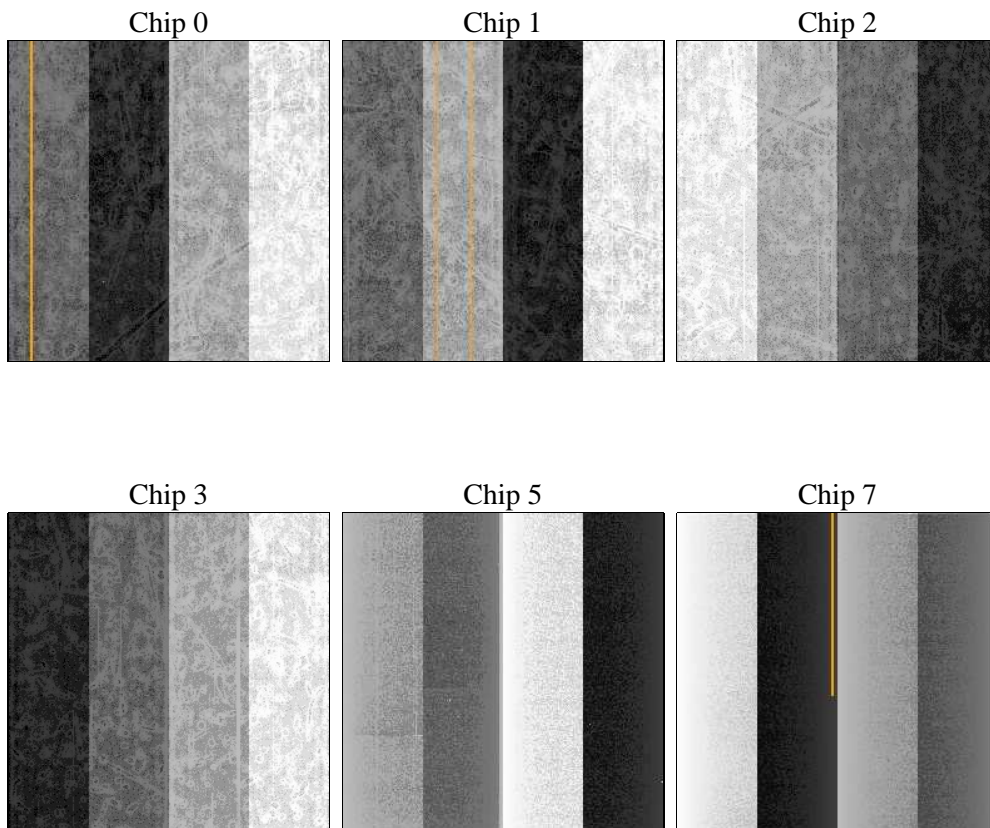
## 2 OBI

### 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	3942.399985373	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	3942.399985373	Sum of GTIs [s]
date	2012-11-18T00:58:32	Date and time of file creation	ontime1	3942.399985373	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	3942.399985373	Sum of GTIs [s]
			ontime3	3942.399985373	Sum of GTIs [s]
			ontime5	3942.399985373	Sum of GTIs [s]
			ontime7	3942.399985373	Sum of GTIs [s]
			l1events	443086	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	72407	74803	80434	83254	68598	63590	grade 0 events	8765	8709	9115	9117	4651	4528
rejected events	55180	57468	63156	65934	35817	33262		12%	11%	11%	10%	6%	7%
rejected %	76%	76%	78%	79%	52%	52%	grade 1 events	46	34	54	45	97	48
								0%	0%	0%	0%	0%	0%
							grade 2 events	3361	3552	3277	3327	12018	7389
								4%	4%	4%	3%	17%	11%
							grade 3 events	1168	1142	1205	1168	1187	2483
								1%	1%	1%	1%	1%	3%
							grade 4 events	1171	1199	1115	1220	1207	2501
								1%	1%	1%	1%	1%	3%
							grade 5 events	1397	1500	1363	1552	3107	3734
								1%	2%	1%	1%	4%	5%
							grade 6 events	2762	2733	2566	2488	13718	13427
								3%	3%	3%	2%	19%	21%
							grade 7 events	53737	55934	61739	64337	32613	29480
								74%	74%	76%	77%	47%	46%

## 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	60.01883188401024	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-3.978203441016202	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	16.61733418238166	[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)	469535828.921541	469535827.89654			
Observation start date	2012-11-17T10:37:09	2012-11-17T10:37:07			
[s] Observation end time (MET)	469541663.221855	469541662.19685			
Observation end date	2012-11-17T12:14:23	2012-11-17T12:14:22			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.11.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.942399985373

### A.2 Comments