

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 54457 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Aug 17 2012

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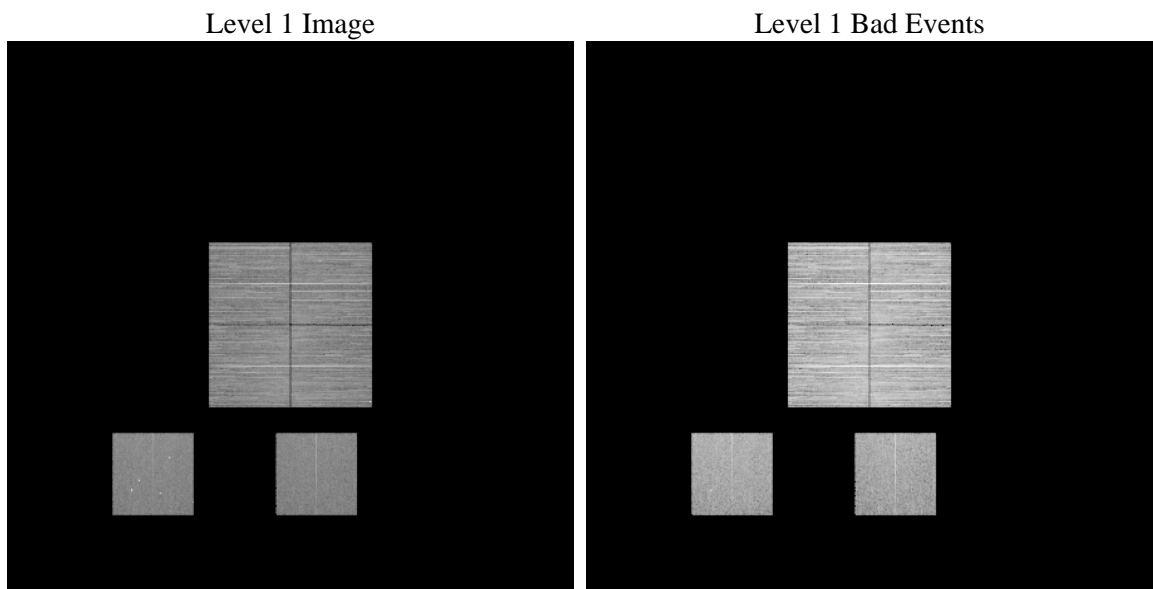
# 1 Front

seq_num	&#160	Sequence number
obs_id	54457	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	314.01787322491	Nominal RA [deg]
dec_nom	-42.47564729875	Nominal Dec [deg]
roll_nom	19.112294290929	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8236.7999693751	Sum of GTIs [s]
livetime	8132.5006485574	Livetime [s]
ontime0	8236.7999693751	Sum of GTIs [s]
ontime1	8236.7999693751	Sum of GTIs [s]
ontime2	8236.7999693751	Sum of GTIs [s]
ontime3	8236.7999693751	Sum of GTIs [s]
ontime5	8236.7999693751	Sum of GTIs [s]
ontime7	8236.7999693751	Sum of GTIs [s]
l2events	284366	Number of level 2 events

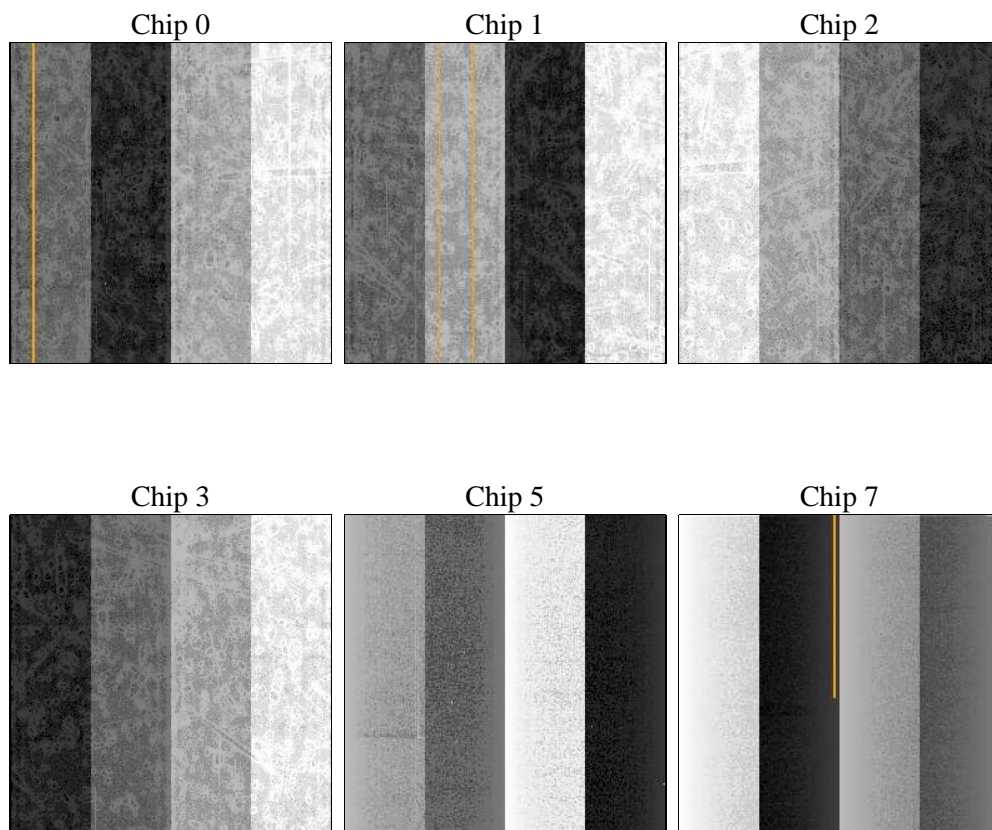
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	8236.7999693751	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime0	8236.7999693751	Sum of GTIs [s]
date	2012-08-17T21:35:34	Date and time of file creation	ontime1	8236.7999693751	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	8236.7999693751	Sum of GTIs [s]
			ontime3	8236.7999693751	Sum of GTIs [s]
			ontime5	8236.7999693751	Sum of GTIs [s]
			ontime7	8236.7999693751	Sum of GTIs [s]
			l1events	996902	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	170184	181743	183374	178956	145349	137296	grade 0 events	20989	20311	21899	24193	9526	10475
rejected events	129613	140688	142120	135291	74640	70177		12%	11%	11%	13%	6%	7%
rejected %	76%	77%	77%	75%	51%	51%	grade 1 events	104	92	118	139	139	93
								0%	0%	0%	0%	0%	0%
							grade 2 events	8170	8796	7754	7847	26311	16763
								4%	4%	4%	4%	18%	12%
							grade 3 events	2700	2663	2766	2808	2442	5528
								1%	1%	1%	1%	1%	4%
							grade 4 events	2593	2750	2766	2828	2378	5551
								1%	1%	1%	1%	1%	4%
							grade 5 events	2977	2918	2864	3330	5978	7655
								1%	1%	1%	1%	4%	5%
							grade 6 events	6409	6793	6350	6273	30476	29257
								3%	3%	3%	3%	20%	21%
							grade 7 events	126242	137420	138857	131538	68099	61974
								74%	75%	75%	73%	46%	45%

## 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	314.0178732249135	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-42.47564729875023	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	19.11229429092916	[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)	459678704.743244	459678703.71824			
Observation start date	2012-07-26T08:31:45	2012-07-26T08:31:43			
[s] Observation end time (MET)	459688444.293764	459688443.26876			
Observation end date	2012-07-26T11:14:04	2012-07-26T11:14:03			
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)	2012.08.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2367999693751

### **A.2 Comments**