

# V&V Reference Report

## L2 ASCDS Version : 10.4

Observation 51844 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Jun 6 2015

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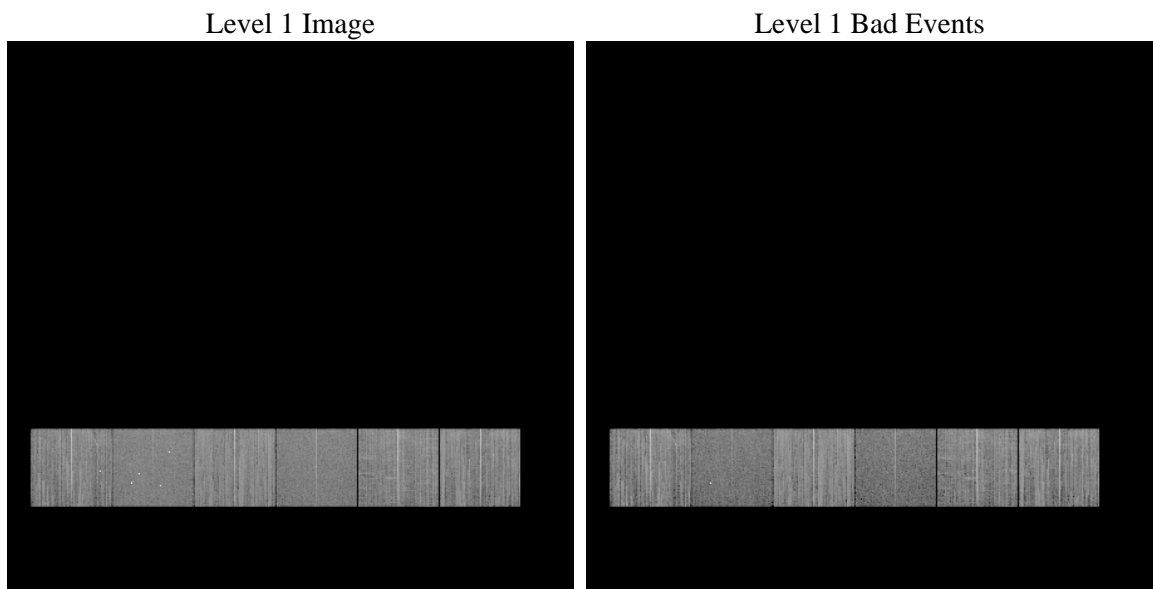
# 1 Front

seq_num	&#160	Sequence number
obs_id	51844	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	228.01042279417	Nominal RA [deg]
dec_nom	-19.027104514983	Nominal Dec [deg]
roll_nom	257.07936898299	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8451.2001259327	Sum of GTIs [s]
livetime	8344.1859412364	Livetime [s]
ontime4	8451.2001259327	Sum of GTIs [s]
ontime5	8451.2001259327	Sum of GTIs [s]
ontime6	8451.2001259327	Sum of GTIs [s]
ontime7	8451.2001259327	Sum of GTIs [s]
ontime8	8447.9590655565	Sum of GTIs [s]
ontime9	8451.2001259327	Sum of GTIs [s]
l2events	183809	Number of level 2 events

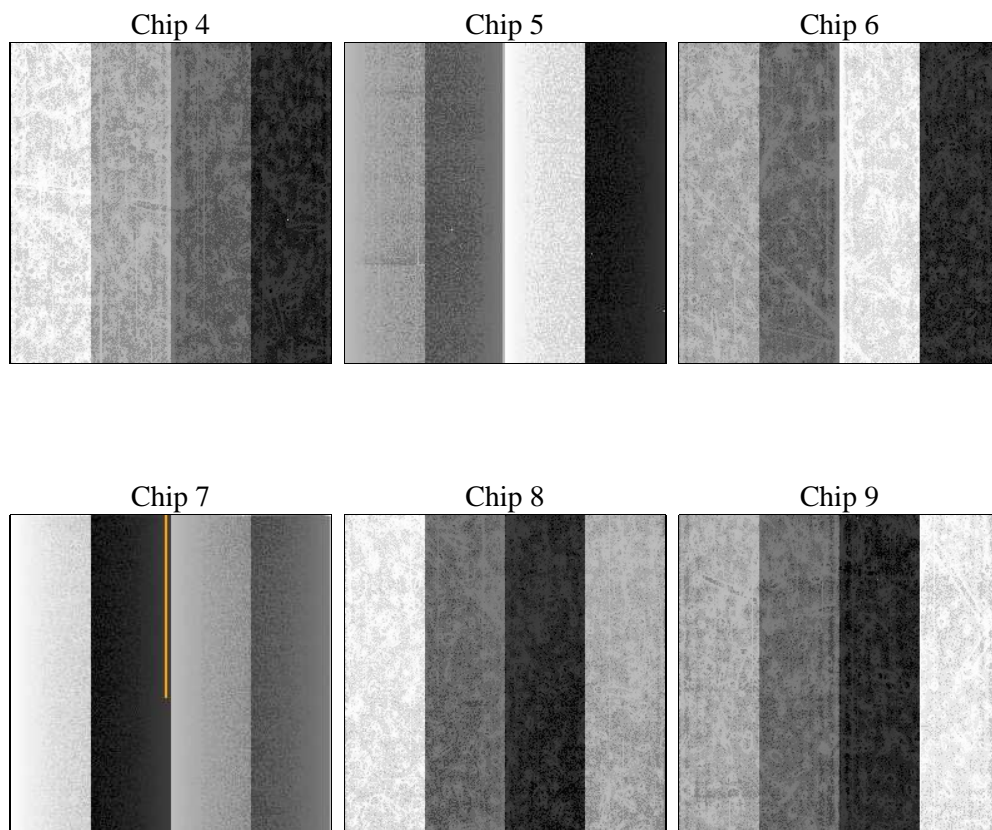
## 2 OBI

### 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	10.4	Processing system revision	ontime	8451.2001259327	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime4	8451.2001259327	Sum of GTIs [s]
date	2015-06-07T01:07:47	Date and time of file creation	ontime5	8451.2001259327	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8451.2001259327	Sum of GTIs [s]
			ontime7	8451.2001259327	Sum of GTIs [s]
			ontime8	8447.9590655565	Sum of GTIs [s]
			ontime9	8451.2001259327	Sum of GTIs [s]
			l1events	878204	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	149054	135959	167941	119346	151256	154648	grade 0 events	14060	10761	10992	5993	13509	10721
rejected events	123959	76104	144583	70384	119024	131979		9%	7%	6%	5%	8%	6%
rejected %	83%	55%	86%	58%	78%	85%	grade 1 events	120	129	52	101	82	58
								0%	0%	0%	0%	0%	0%
							grade 2 events	4430	19782	5111	12014	6918	4663
								2%	14%	3%	10%	4%	3%
							grade 3 events	1714	1732	1551	3652	2605	1587
								1%	1%	0%	3%	1%	1%
							grade 4 events	1618	1722	1525	3768	2503	1637
								1%	1%	0%	3%	1%	1%
							grade 5 events	3244	6140	3120	7562	4146	3416
								2%	4%	1%	6%	2%	2%
							grade 6 events	3273	25858	4179	23535	6697	4061
								2%	19%	2%	19%	4%	2%
							grade 7 events	120595	69835	141411	62721	114796	128505
								80%	51%	84%	52%	75%	83%

## 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	228.0104227941652	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-19.02710451498323	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	257.0793689829898	[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)	549972249.145784	549972248.12078			
Observation start date	2015-06-06T10:04:09	2015-06-06T10:04:08			
[s] Observation end time (MET)	549984483.54647	549984482.52147			
Observation end date	2015-06-06T13:28:04	2015-06-06T13:28:02			
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)	2015.06.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4512001259327

### **A.2 Comments**