

# V&V Reference Report

## L2 ASCDS Version : 10.4.3.1

Observation 51095 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Apr 16 2016

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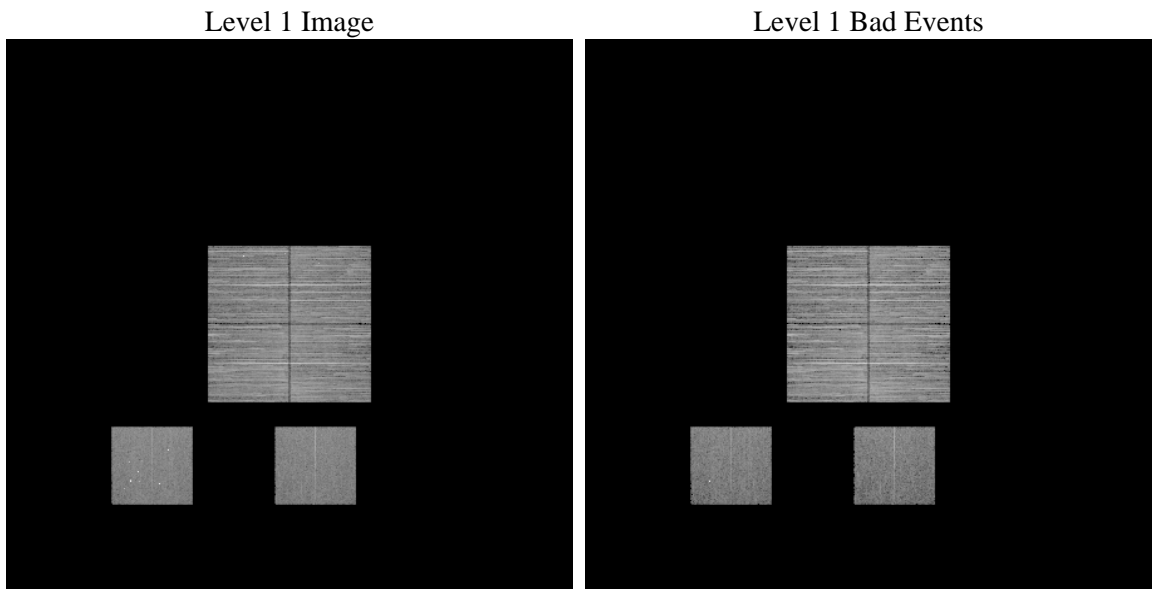
# 1 Front

seq_num	&#160	Sequence number
obs_id	51095	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	34.77436383495	Nominal RA [deg]
dec_nom	-39.120755884327	Nominal Dec [deg]
roll_nom	193.20687632447	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6297.6000938416	Sum of GTIs [s]
livetime	6217.8560894938	Livetime [s]
ontime0	6213.3329396248	Sum of GTIs [s]
ontime1	6216.5740929842	Sum of GTIs [s]
ontime2	6210.091889143	Sum of GTIs [s]
ontime3	6203.6099222898	Sum of GTIs [s]
ontime5	6297.6000938416	Sum of GTIs [s]
ontime7	6297.6000938416	Sum of GTIs [s]
l2events	131631	Number of level 2 events

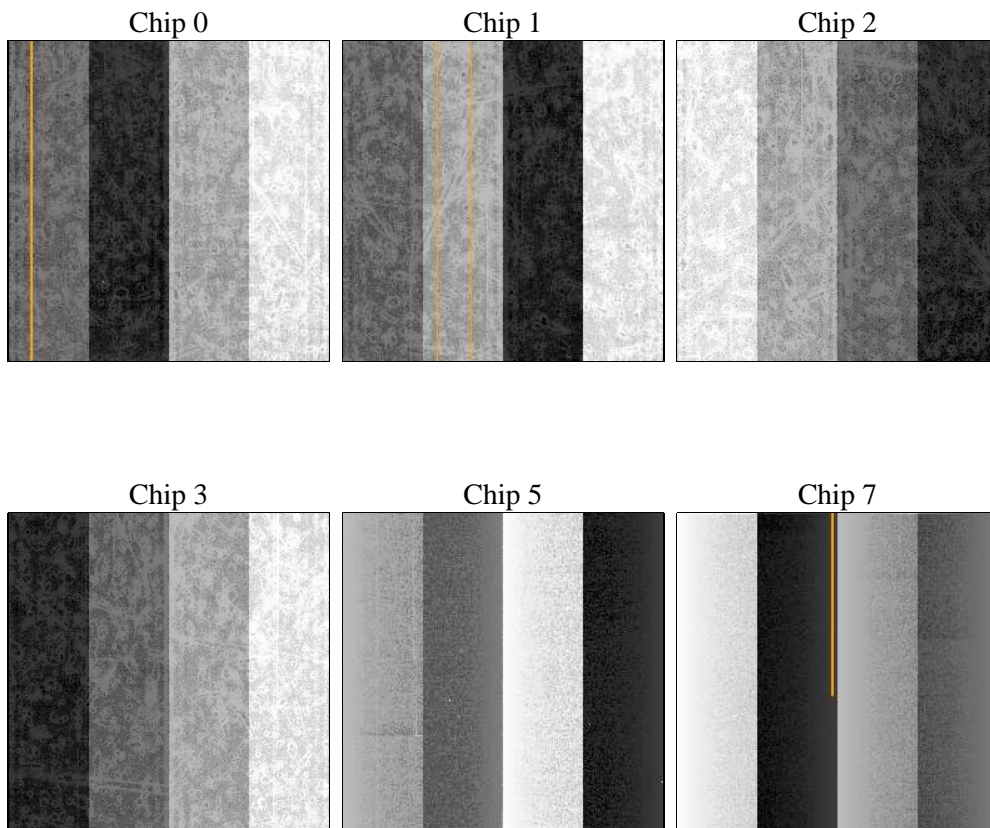
## 2 OBI

### 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	10.4.3.1	Processing system revision	ontime	6297.6000938416	Sum of GTIs [s]
caldsver	4.7.1	&#160	ontime0	6213.3329396248	Sum of GTIs [s]
date	2016-04-17T00:52:34	Date and time of file creation	ontime1	6216.5740929842	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	6210.091889143	Sum of GTIs [s]
			ontime3	6203.6099222898	Sum of GTIs [s]
			ontime5	6297.6000938416	Sum of GTIs [s]
			ontime7	6297.6000938416	Sum of GTIs [s]
			l1events	740525	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	123908	131196	141631	134719	111108	97963	grade 0 events	7055	6427	7233	7113	7961	3902
rejected events	107056	116066	126698	119721	63671	60503		5%	4%	5%	5%	7%	3%
rejected %	86%	88%	89%	88%	57%	61%	grade 1 events	65	46	58	58	151	72
								0%	0%	0%	0%	0%	0%
							grade 2 events	5216	3919	3238	3232	15612	9298
								4%	2%	2%	2%	14%	9%
							grade 3 events	1061	1000	1093	1107	1167	2589
								0%	0%	0%	0%	1%	2%
							grade 4 events	1002	1002	1102	1075	1116	2589
								0%	0%	0%	0%	1%	2%
							grade 5 events	2291	2283	2145	2639	4668	6033
								1%	1%	1%	1%	4%	6%
							grade 6 events	2573	2842	2326	2520	21770	19209
								2%	2%	1%	1%	19%	19%
							grade 7 events	104645	113677	124436	116975	58663	54271
								84%	86%	87%	86%	52%	55%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012357	ACIS-012357
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	34.77436383494987
[deg] Pointing Dec	0	-39.12075588432721
[deg] Pointing Roll	0.0	193.2068763244715
[mm] SIM focus pos	-1.429586	-0.6828225247311905
[mm] SIM defocus	0.1037507710433287	0.8505141146731063
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	577171061.0105129	577171059.98551
Observation start date	2016-04-16T05:17:41	2016-04-16T05:17:39
[s] Observation end time (MET)	577177703.010893	577177701.98589
Observation end date	2016-04-16T07:08:23	2016-04-16T07:08:21
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.04.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.2976000938416

### A.2 Comments