

# V&V Reference Report

## L2 ASCDS Version : 10.4.2.1

Observation 51589 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Oct 1 2015

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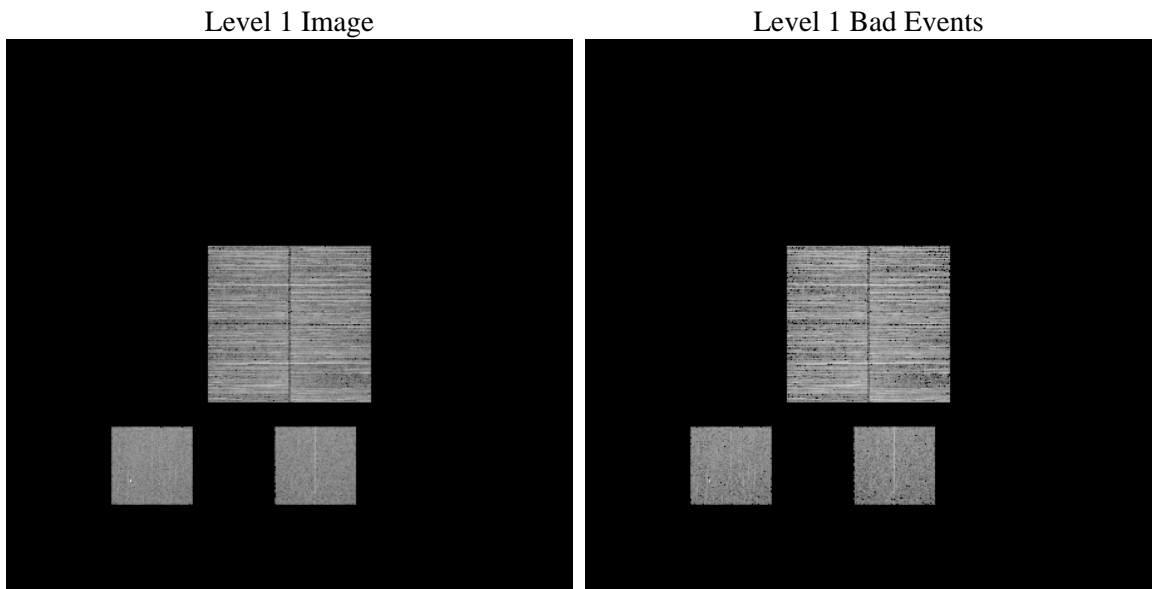
# 1 Front

seq_num	&#160	Sequence number
obs_id	51589	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	29.19726230149	Nominal RA [deg]
dec_nom	-19.232730828111	Nominal Dec [deg]
roll_nom	47.679904307515	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3385.6000504494	Sum of GTIs [s]
livetime	3342.729544047	Livetime [s]
ontime0	3385.6000504494	Sum of GTIs [s]
ontime1	3385.6000504494	Sum of GTIs [s]
ontime2	3385.6000504494	Sum of GTIs [s]
ontime3	3385.6000504494	Sum of GTIs [s]
ontime5	3385.6000504494	Sum of GTIs [s]
ontime7	3385.6000504494	Sum of GTIs [s]
l2events	71785	Number of level 2 events

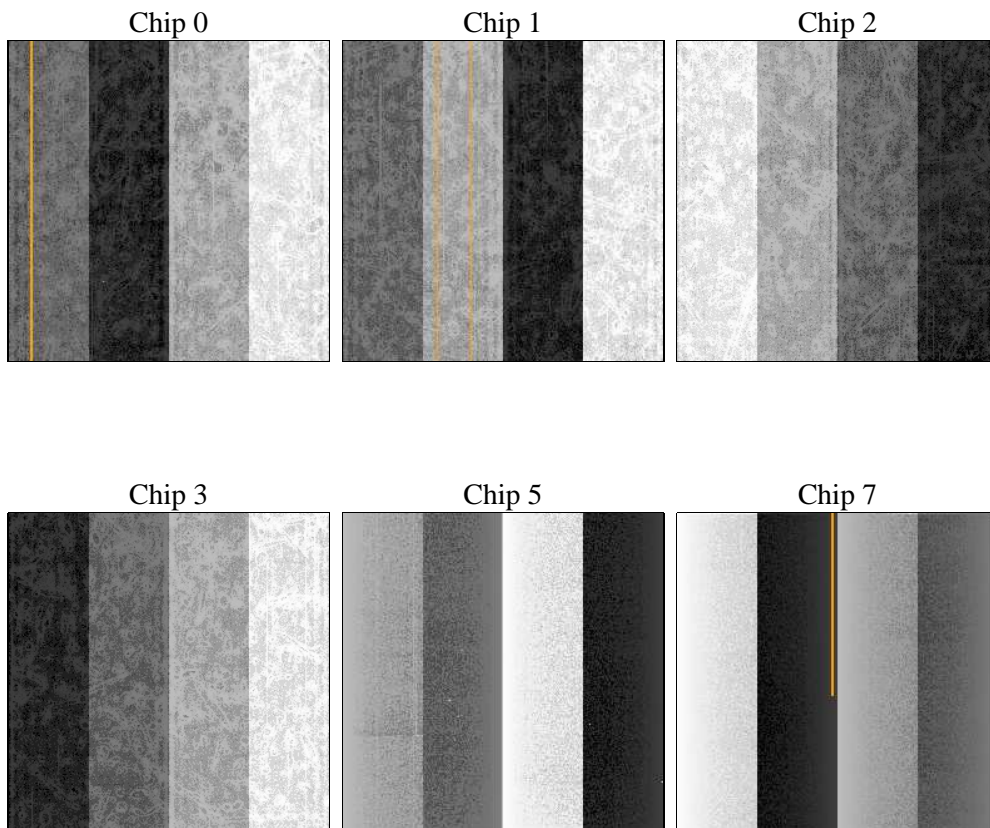
## 2 OBI

### 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	10.4.2.1	Processing system revision	ontime	3385.6000504494	Sum of GTIs [s]
caldbver	4.6.10a	&#160	ontime0	3385.6000504494	Sum of GTIs [s]
date	2015-10-01T16:24:25	Date and time of file creation	ontime1	3385.6000504494	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	3385.6000504494	Sum of GTIs [s]
			ontime3	3385.6000504494	Sum of GTIs [s]
			ontime5	3385.6000504494	Sum of GTIs [s]
			ontime7	3385.6000504494	Sum of GTIs [s]
			l1events	368778	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	63682	66321	68652	65829	54175	50119	grade 0 events	4180	3973	4321	4363	1703	2172
rejected events	54911	57493	60049	57073	32390	30592		6%	5%	6%	6%	3%	4%
rejected %	86%	86%	87%	86%	59%	61%	grade 1 events	19	11	27	22	57	33
								0%	0%	0%	0%	0%	0%
							grade 2 events	1989	2206	1800	1819	8068	4940
								3%	3%	2%	2%	14%	9%
							grade 3 events	625	586	634	635	630	1417
								0%	0%	0%	0%	1%	2%
							grade 4 events	578	598	628	633	651	1354
								0%	0%	0%	0%	1%	2%
							grade 5 events	1301	1127	1238	1303	2410	3080
								2%	1%	1%	1%	4%	6%
							grade 6 events	1542	1630	1365	1468	11079	9951
								2%	2%	1%	2%	20%	19%
							grade 7 events	53448	56190	58639	55586	29577	27172
								83%	84%	85%	84%	54%	54%

## 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	29.19726230149018
[deg] Pointing Dec	0	-19.23273082811103
[deg] Pointing Roll	0.0	47.67990430751467
SIM focus pos (mm)	-0.78090834371673	-0.78090834371673
[mm] SIM defocus	0.7524282194390134	0.7524282194390134
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	560031758.351472	560031758.351472
Observation start date	2015-09-30T20:22:38	2015-09-30T20:22:38
[s] Observation end time (MET)	560035812.4593509	560035812.4593509
Observation end date	2015-09-30T21:30:12	2015-09-30T21:30:12
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
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	Jen Lauer
V&V Date (YYYY-MM-DD)	2015.10.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.3856000504494

### A.2 Comments