

# V&V Reference Report

## L2 ASCDS Version : 10.4.2.1

Observation 51534 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Oct 30 2015

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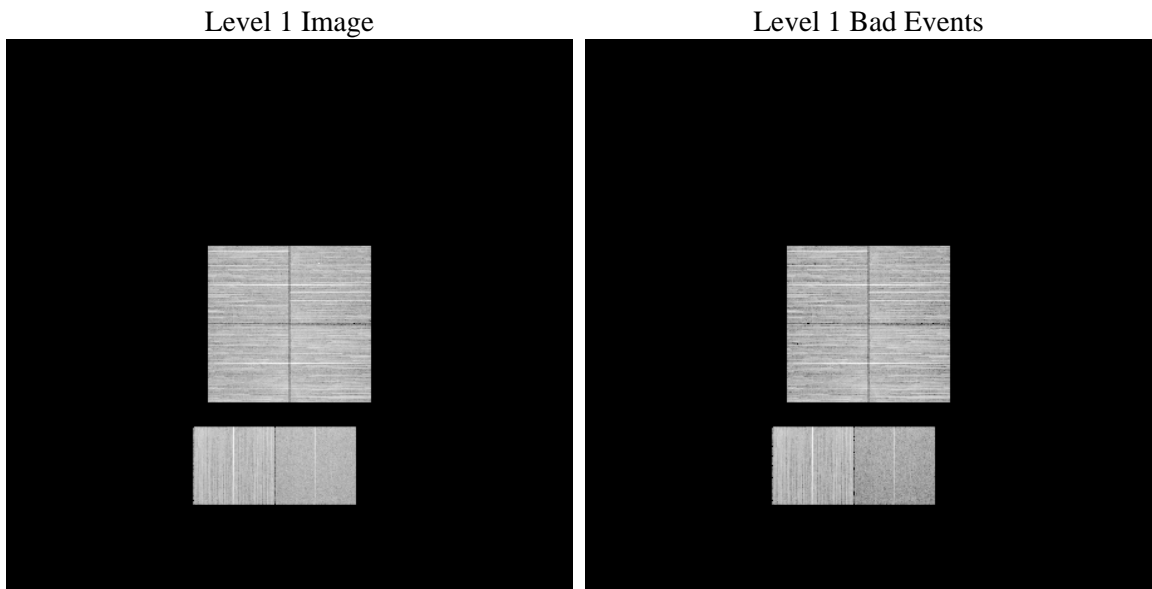
# 1 Front

seq_num	&#160	Sequence number
obs_id	51534	Observation id
title	ACIS-012367 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	174.5031216392	Nominal RA [deg]
dec_nom	21.22868712079	Nominal Dec [deg]
roll_nom	51.407357309859	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8448.000125885	Sum of GTIs [s]
livetime	8341.0264615161	Livetime [s]
ontime0	8448.000125885	Sum of GTIs [s]
ontime1	8448.000125885	Sum of GTIs [s]
ontime2	8448.000125885	Sum of GTIs [s]
ontime3	8448.000125885	Sum of GTIs [s]
ontime6	8448.000125885	Sum of GTIs [s]
ontime7	8448.000125885	Sum of GTIs [s]
l2events	152303	Number of level 2 events

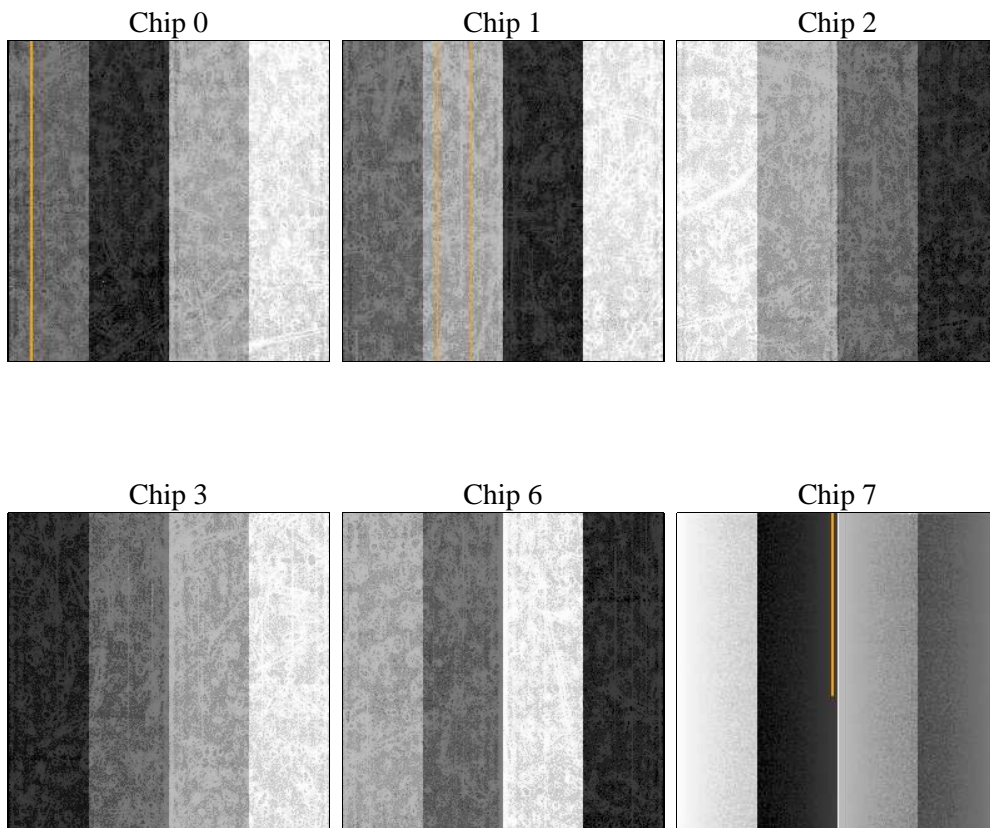
## 2 OBI

### 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	10.4.2.1	Processing system revision	ontime	8448.000125885	Sum of GTIs [s]
caldsver	4.6.10a	&#160	ontime0	8448.000125885	Sum of GTIs [s]
date	2015-10-30T16:30:35	Date and time of file creation	ontime1	8448.000125885	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8448.000125885	Sum of GTIs [s]
			ontime3	8448.000125885	Sum of GTIs [s]
			ontime6	8448.000125885	Sum of GTIs [s]
			ontime7	8448.000125885	Sum of GTIs [s]
			l1events	945925	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	157264	155363	160256	178415	168529	126098	grade 0 events	10488	10345	11088	10763	10595	5999
rejected events	135268	133129	138026	156413	145817	74505		6%	6%	6%	6%	6%	4%
rejected %	86%	85%	86%	87%	86%	59%	grade 1 events	68	59	75	75	58	111
								0%	0%	0%	0%	0%	0%
							grade 2 events	4722	5021	4529	4434	4952	12934
								3%	3%	2%	2%	2%	10%
							grade 3 events	1586	1511	1607	1653	1564	4047
								1%	0%	1%	0%	0%	3%
							grade 4 events	1532	1510	1541	1694	1533	4013
								0%	0%	0%	0%	0%	3%
							grade 5 events	2940	3118	2814	3358	3253	8202
								1%	2%	1%	1%	1%	6%
							grade 6 events	3668	3847	3465	3458	4068	24600
								2%	2%	2%	1%	2%	19%
							grade 7 events	132260	129952	135137	152980	142506	66192
								84%	83%	84%	85%	84%	52%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	174.5031216391971	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	21.22868712078997	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	51.40735730985907	[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)	562542717.393491	562542716.36849			
Observation start date	2015-10-29T21:51:57	2015-10-29T21:51:56			
[s] Observation end time (MET)	562552897.694067	562552896.66907			
Observation end date	2015-10-30T00:41:38	2015-10-30T00:41:36			
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)	2015.10.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.448000125885

### A.2 Comments