

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 51170 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Mar 20 2016

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Star Slots	6
2.4	FID Slots	6
A	Summary	7
A.1	Status	7
A.2	Comments	7

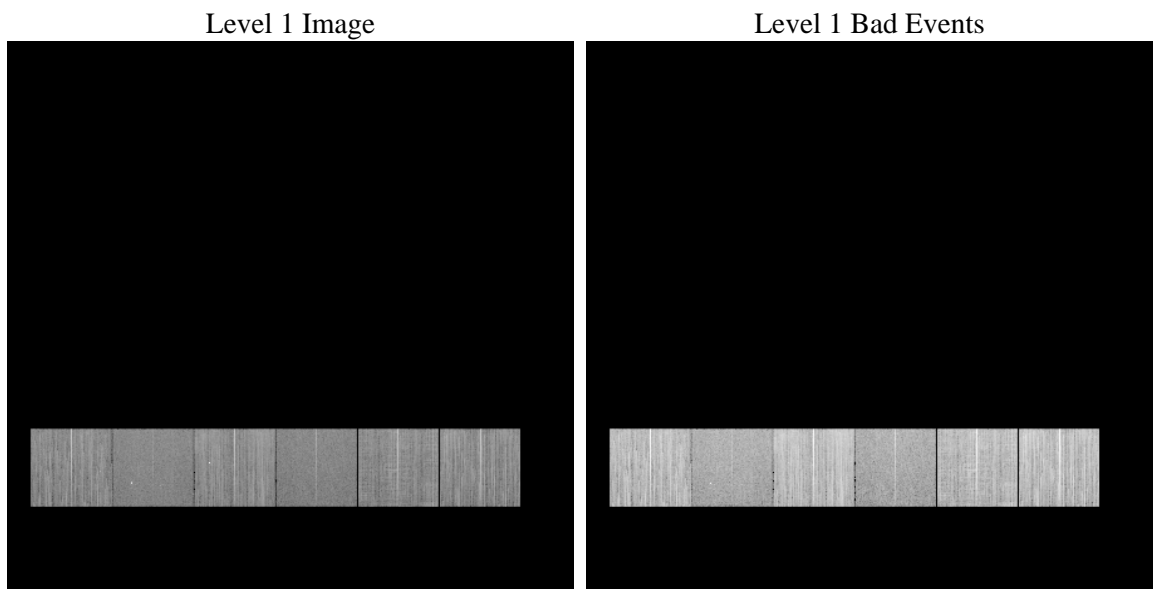
1 Front

seq_num	 	Sequence number
obs_id	51170	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	 	Source name
dtcycle	0	
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	230.60398244614	Nominal RA [deg]
dec_nom	22.593356226633	Nominal Dec [deg]
roll_nom	107.3428896856	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8177.7618578672	Sum of GTIs [s]
livetime	8074.2101131659	Livetime [s]
ontime4	8177.6387377977	Sum of GTIs [s]
ontime5	8177.7208178043	Sum of GTIs [s]
ontime6	8177.6797778606	Sum of GTIs [s]
ontime7	8177.7618578672	Sum of GTIs [s]
ontime8	8177.597697854	Sum of GTIs [s]
ontime9	8177.8028978109	Sum of GTIs [s]
l2events	182642	Number of level 2 events

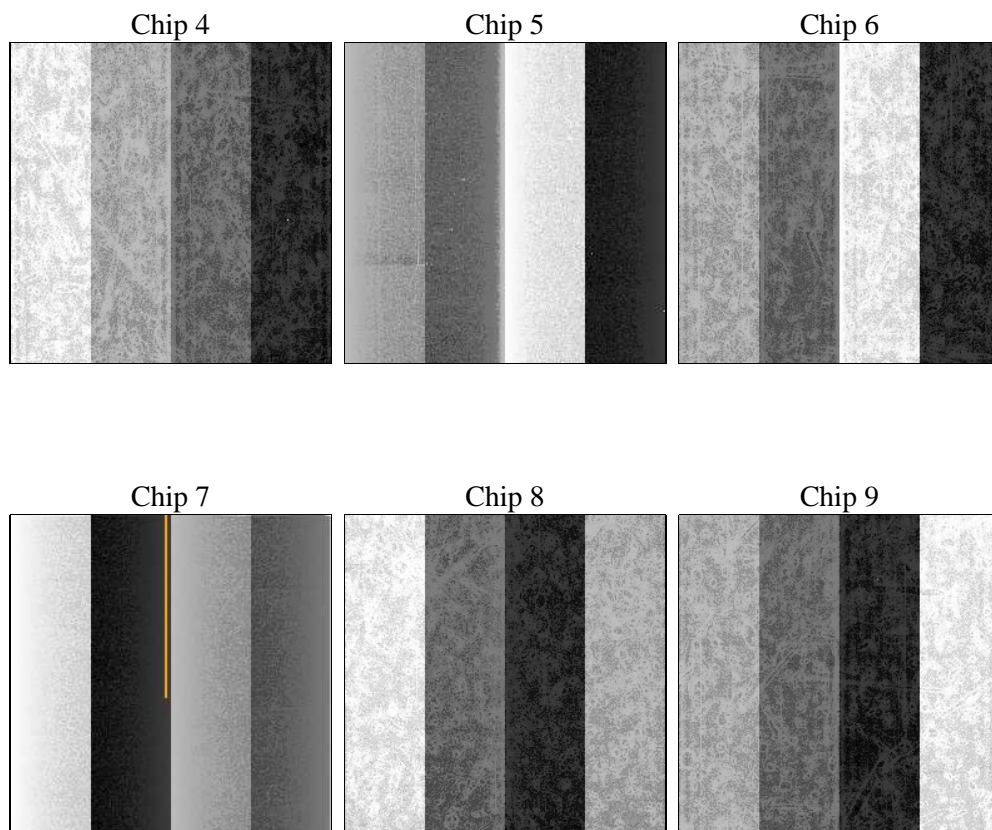
2 OBI

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	10.4.3.1	Processing system revision	ontime	8177.7618578672	Sum of GTIs [s]
caldbver	4.7.0	 	ontime4	8177.6387377977	Sum of GTIs [s]
date	2016-03-20T15:28:13	Date and time of file creation	ontime5	8177.7208178043	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8177.6797778606	Sum of GTIs [s]
			ontime7	8177.7618578672	Sum of GTIs [s]
			ontime8	8177.597697854	Sum of GTIs [s]
			ontime9	8177.8028978109	Sum of GTIs [s]
			l1events	1010920	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	173318	142653	192636	132037	178970	191306	grade 0 events	10538	4591	12243	5736	12869	9726
rejected events	152544	84986	168775	80747	147113	170556		6%	3%	6%	4%	7%	5%
rejected %	88%	59%	87%	61%	82%	89%	grade 1 events	115	460	66	110	90	72
								0%	0%	0%	0%	0%	0%
							grade 2 events	4301	20789	4902	12917	7334	4487
								2%	14%	2%	9%	4%	2%
							grade 3 events	1558	2203	1428	3904	2642	1496
								0%	1%	0%	2%	1%	0%
							grade 4 events	1545	1689	1516	3847	2580	1532
								0%	1%	0%	2%	1%	0%
							grade 5 events	3743	6892	3536	8665	4828	4002
								2%	4%	1%	6%	2%	2%
							grade 6 events	3086	29056	4058	25471	6847	3763
								1%	20%	2%	19%	3%	1%
							grade 7 events	148432	76973	164887	71387	141780	166228
								85%	53%	85%	54%	79%	86%

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	OVERRIDE	OVERRIDE
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	230.6039824461413	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	22.5933562266335	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	107.342889685602	[s] Primary exposure time	3.2	3.2
SIM focus pos (mm)	-1.4281808131	-1.4281808131			
[mm] SIM defocus	0.1051557500557434	0.1051557500557434			
SIM translation stage pos (mm)	250.4635187649	250.4635187649			
[mm] SIM translation stage offset	-0.007542945905271381	-0.007542945905271381			
[s] Observation start time (MET)	574837945.62726	574837945.62726			
Observation start date	2016-03-20T05:12:26	2016-03-20T05:12:25			
[s] Observation end time (MET)	574847493.286685	574847493.286685			
Observation end date	2016-03-20T07:51:33	2016-03-20T07:51:33			
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)	2016.03.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1777618578672

A.2 Comments