

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 15241 - L2 Version 2
Chandra X-Ray Center

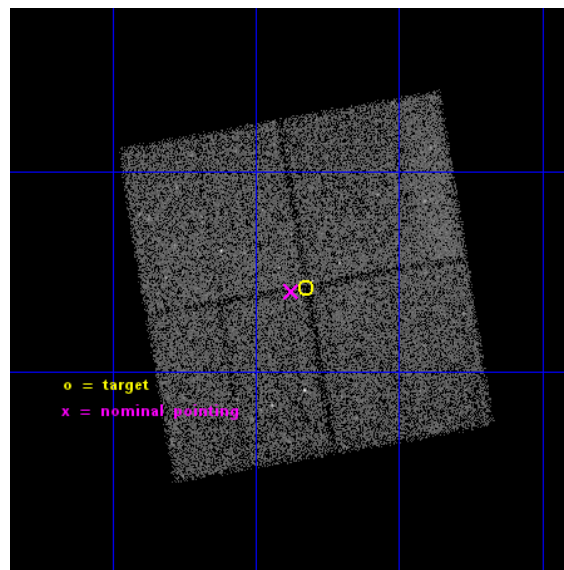
L2 Processing Date : Dec 10 2014

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	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

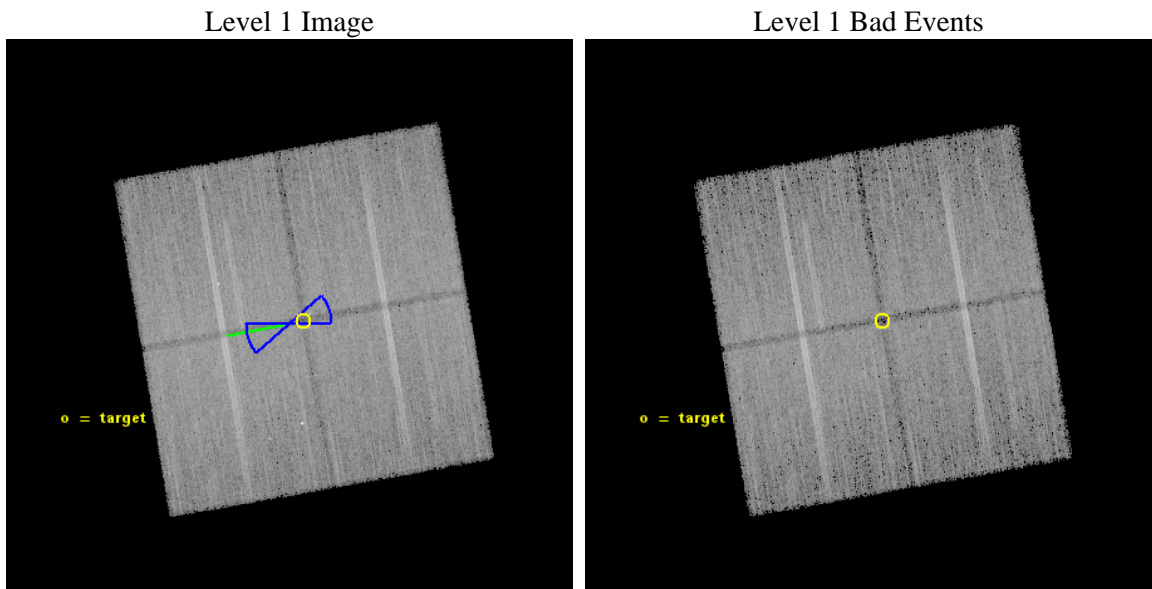
seq_num	901071	Sequence number
obs_id	15241	Observation id
title	The COSMOS Legacy Survey	Proposal title
observer	Dr Francesca Civano	Principal investigator
object	COSMOS Legacy	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	149.58177	Observer's specified target RA [deg]
dec_targ	2.569156	Observer's specified target Dec [deg]
ra_nom	149.59399269514	Nominal RA [deg]
dec_nom	2.5667957503157	Nominal Dec [deg]
roll_nom	260.20813829117	Nominal Roll [deg]
revision	2	Processing version of data
ontime	49243.500378728	Sum of GTIs [s]
livetime	48600.097793742	Livetime [s]
ontime0	49243.500378728	Sum of GTIs [s]
ontime1	49243.500378728	Sum of GTIs [s]
ontime2	49243.500378728	Sum of GTIs [s]
ontime3	49243.500378728	Sum of GTIs [s]
l2events	90796	Number of level 2 events



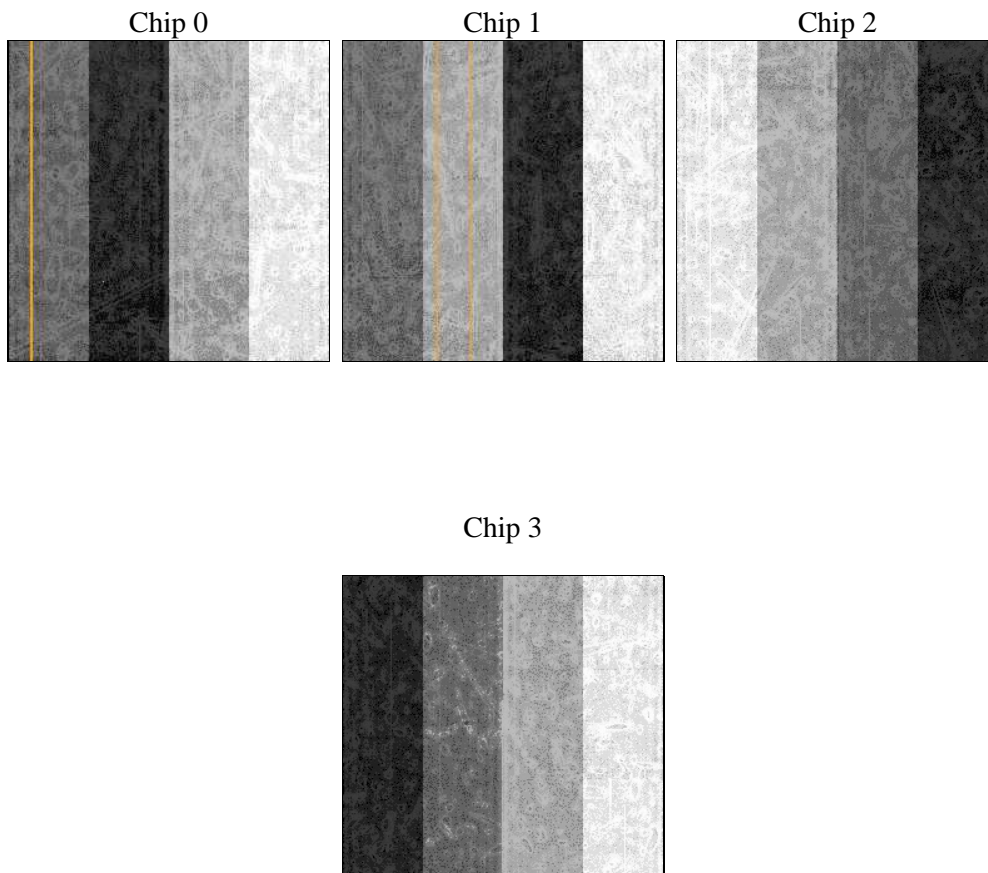
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	49149.057000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	49243.500378728	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	49243.500378728	Sum of GTIs [s]
date	2014-12-10T18:13:51	Date and time of file creation	ontime1	49243.500378728	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	49243.500378728	Sum of GTIs [s]
			ontime3	49243.500378728	Sum of GTIs [s]
			l1events	846959	Number of level 1 events

2.1.4 Events

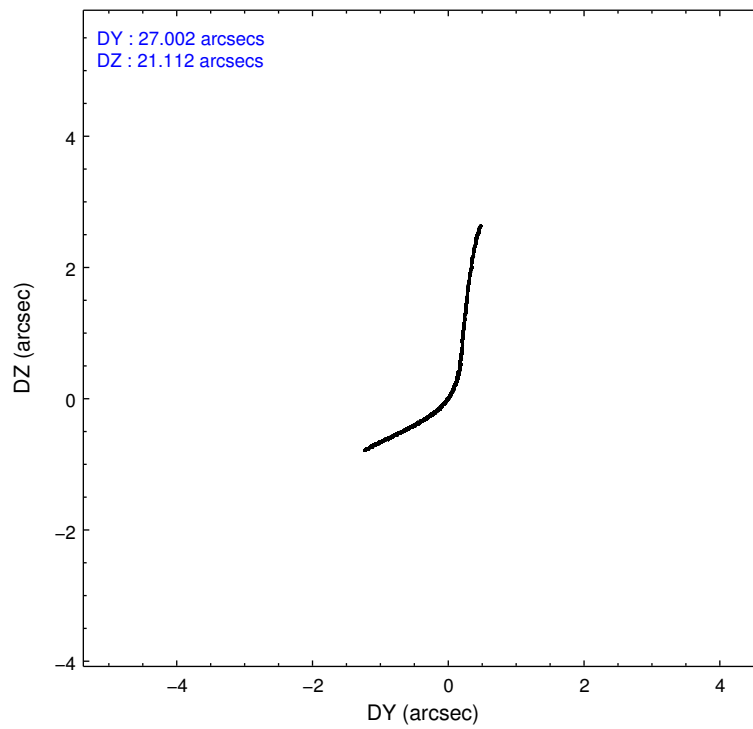
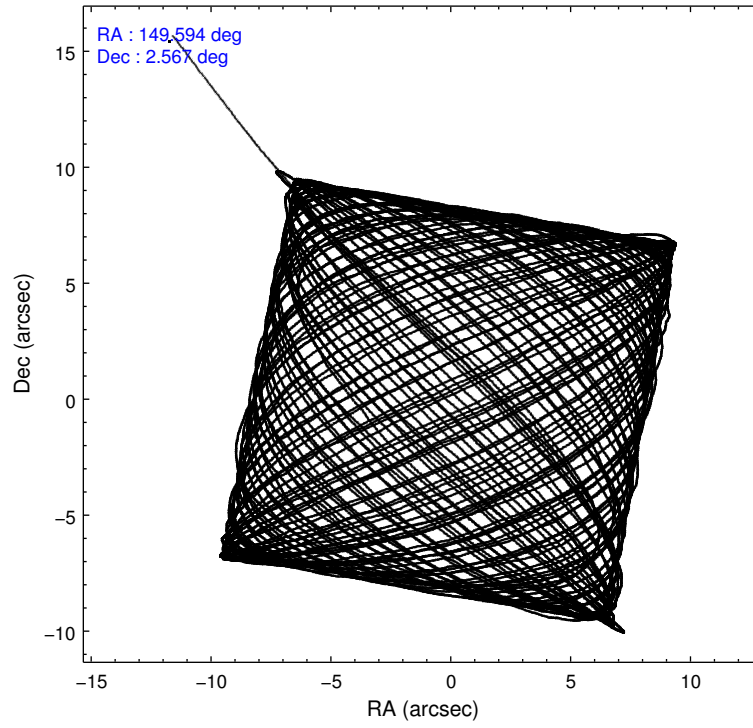
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	203218	206850	218175	218716
rejected events	176803	177531	191789	192811
rejected %	87%	85%	87%	88%

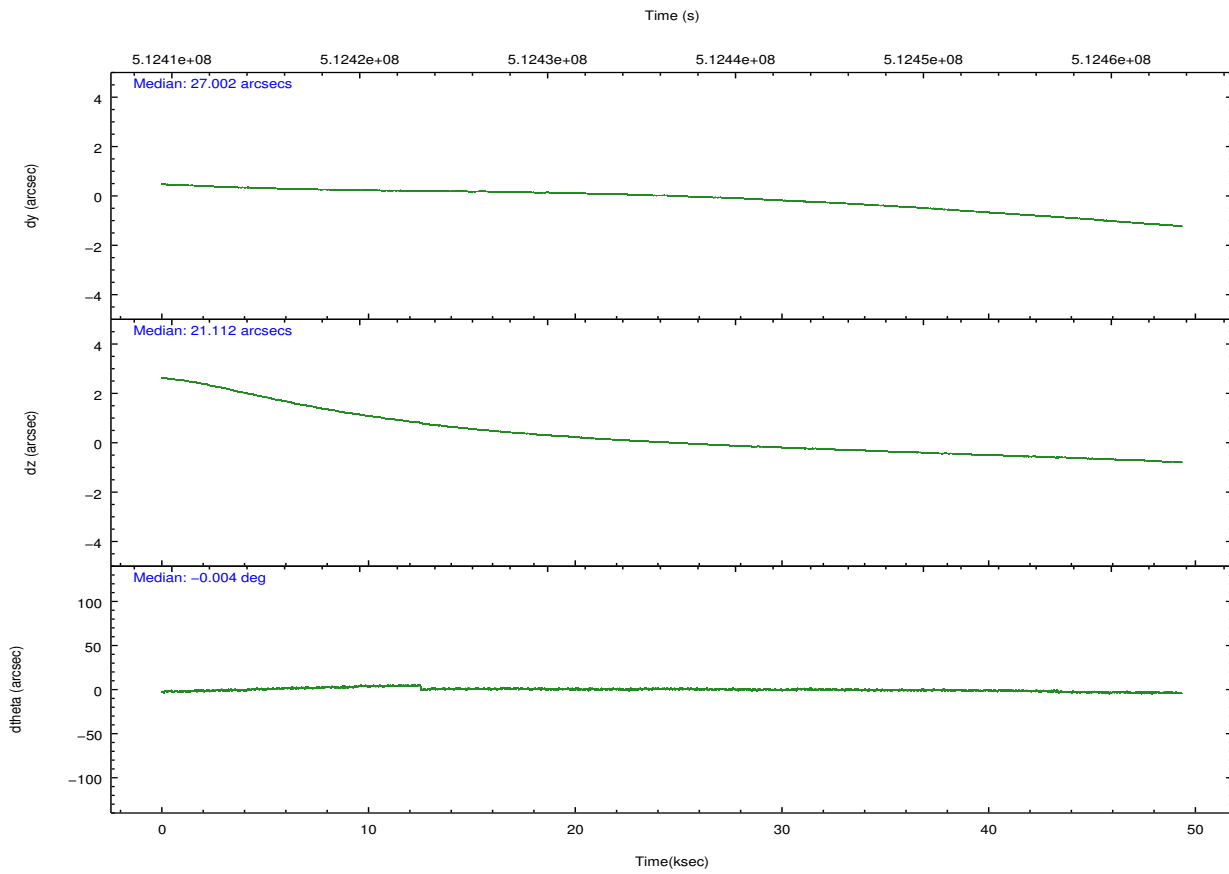
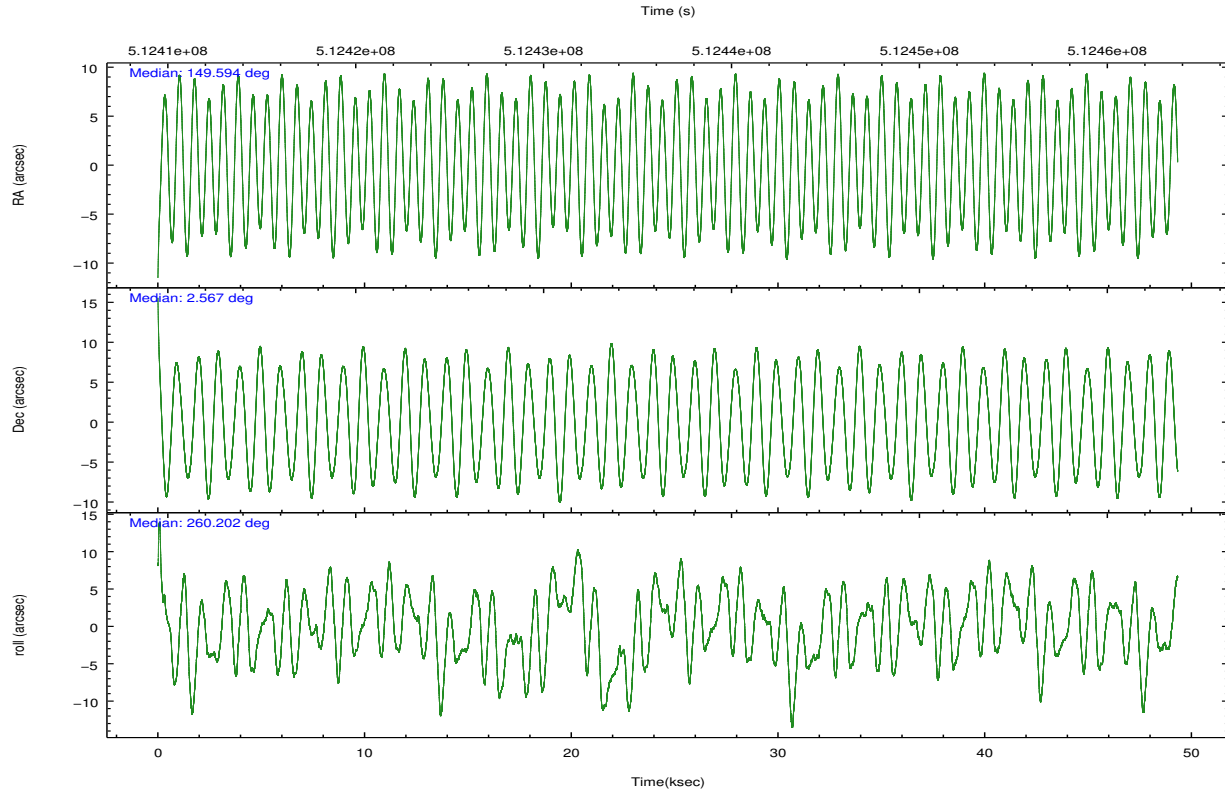
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	8786	10051	9465	9084
	4%	4%	4%	4%
grade 1 events	120	115	133	143
	0%	0%	0%	0%
grade 2 events	6679	6952	6361	5704
	3%	3%	2%	2%
grade 3 events	2820	2919	2709	2785
	1%	1%	1%	1%
grade 4 events	2657	2897	2699	2744
	1%	1%	1%	1%
grade 5 events	10710	11254	10064	11956
	5%	5%	4%	5%
grade 6 events	5473	6500	5153	5589
	2%	3%	2%	2%
grade 7 events	165973	166162	181591	180711
	81%	80%	83%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	149.584378	149.5939926951438	Subarray requested	NONE	NONE
[deg] Pointing Dec	2.592563	2.566795750315678	Alternating exposures requested	N	N
[deg] Pointing Roll	259.999883	260.2081382911656	[s] Primary exposure time	0.000000	3.1
[deg] Roll angle	250.000000	250.000000			
[deg] Roll tolerance	20.000000	20.000000			
Roll constraint allows 180D rotation	Y	Y			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	512412122.184000	512410974.96865			
Observation start date	2014-03-28T16:40:55	2014-03-28T16:22:54			
[s] Observation end time (MET)	512461271.184000	512461508.49643			
Observation end date	2014-03-29T06:20:04	2014-03-29T06:25:08			
Read mode	TIMED	TIMED			

2.3 Aspect





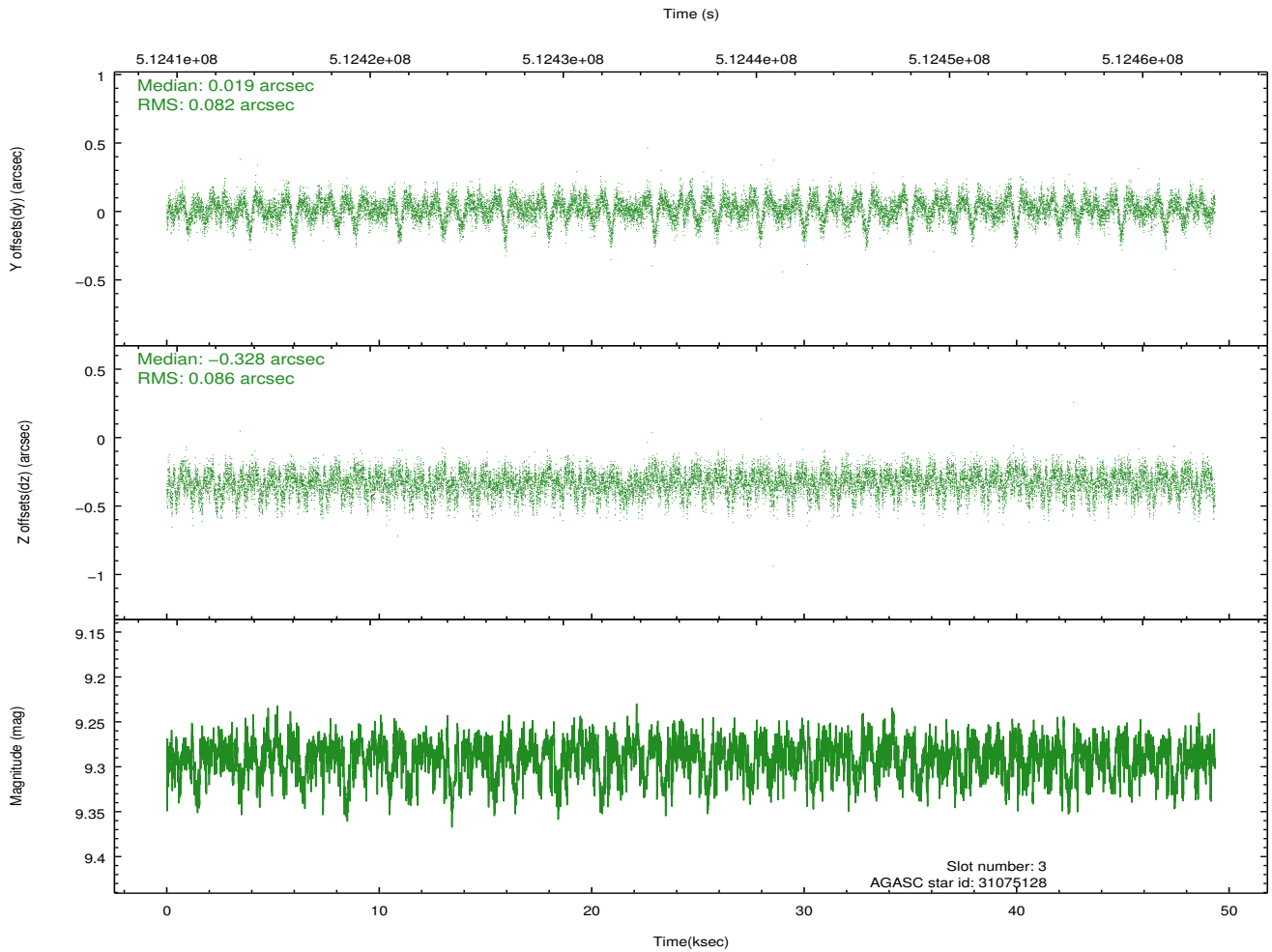
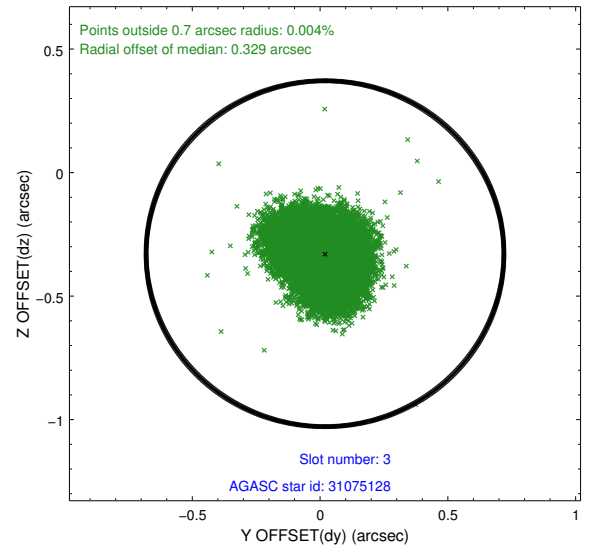
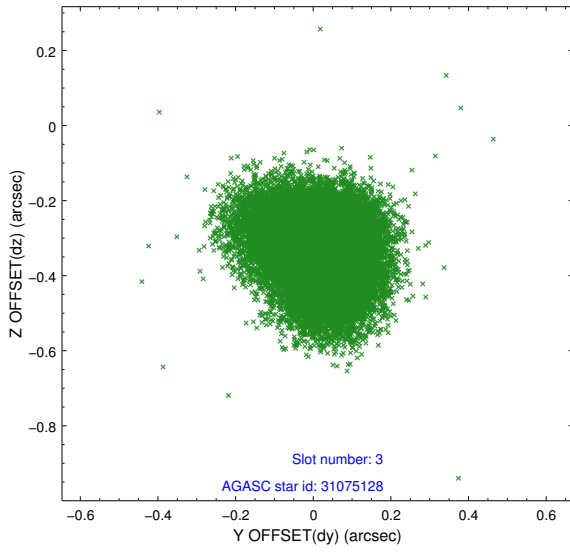
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.13	12033	-0.049	-0.031	0.024	0.068	0.000000	0.000000	912.27	-845.18
1	FID		ACIS-I-4	7.11	12033	0.342	0.068	0.027	0.041	0.000000	0.000000	2132.64	1054.75
2	FID		ACIS-I-5	7.11	12033	-0.388	0.034	0.020	0.032	0.000000	0.000000	-1836.14	1052.45
3	GUIDE	used	31075128	9.29	24044	0.019	-0.328	0.126	0.206	149.584516	2.364347	809.35	143.25
4	GUIDE	used	31076560	9.61	24039	-0.034	-0.027	0.184	0.297	149.884782	2.009277	1880.85	1429.90
5	GUIDE	used	31463760	8.83	24059	0.184	0.335	0.125	0.198	148.998237	2.798749	-364.49	-2204.05
6	GUIDE	used	32387968	9.18	24051	-0.081	0.144	0.174	0.273	150.106347	3.119099	-2193.07	1518.84
7	GUIDE	used	32375384	9.93	24022	-0.063	-0.118	0.210	0.333	150.238117	2.622063	-513.57	2296.33

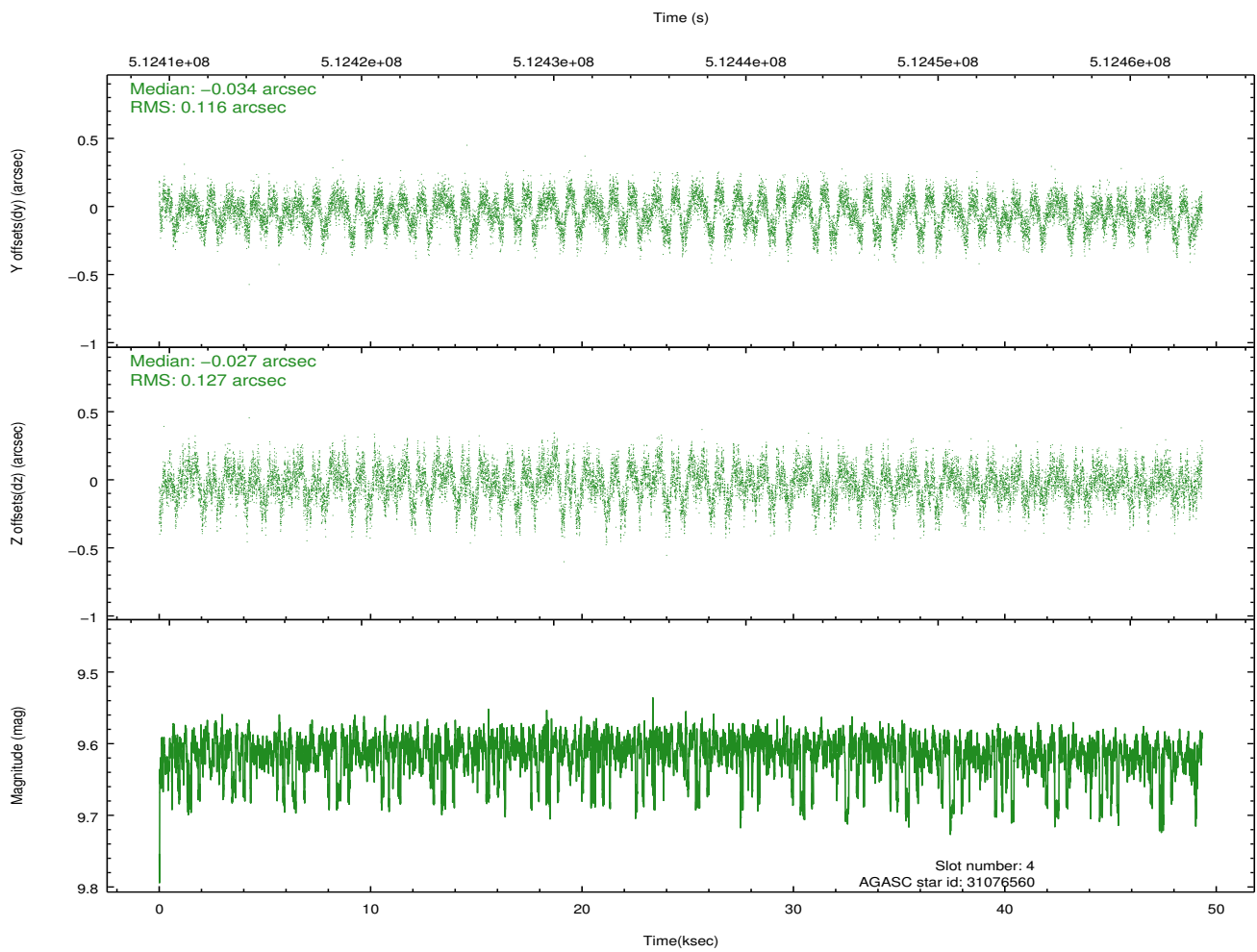
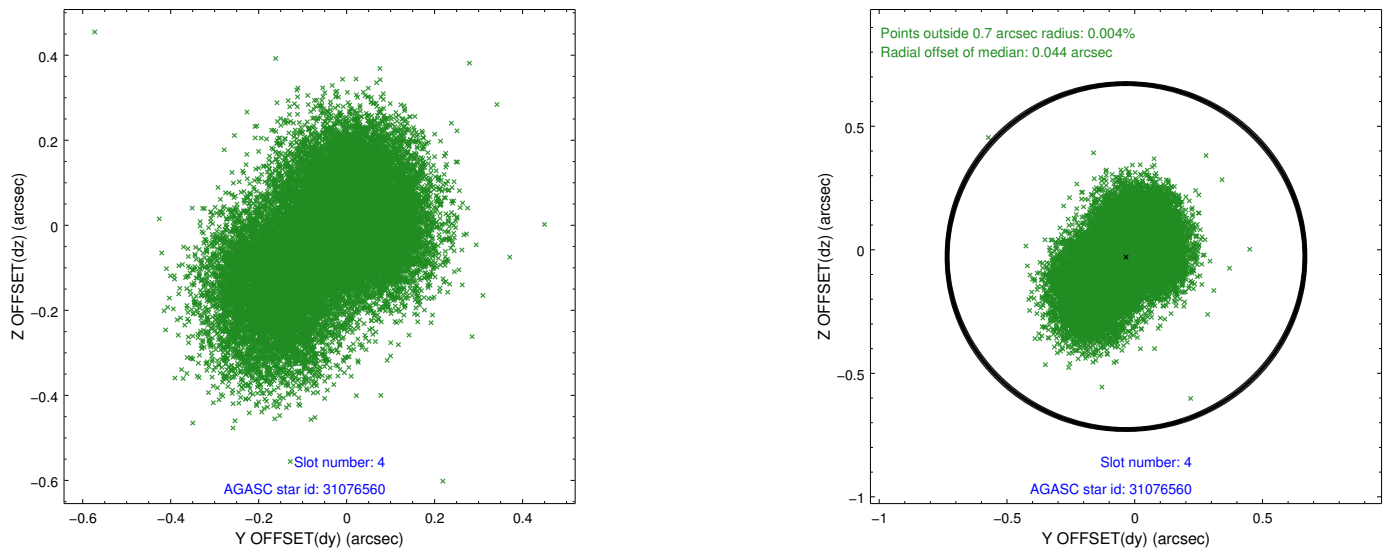
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2.4 Star Slots

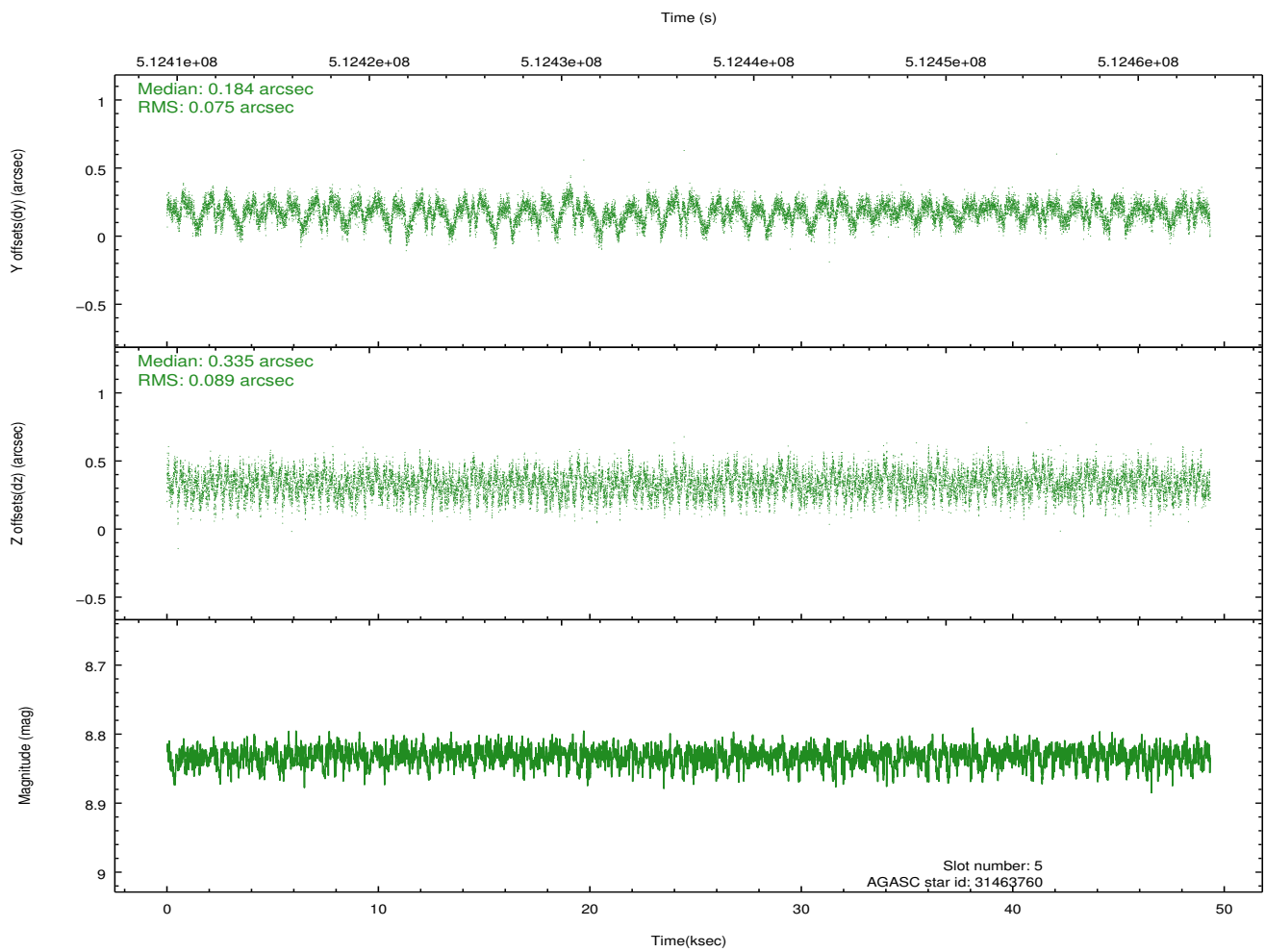
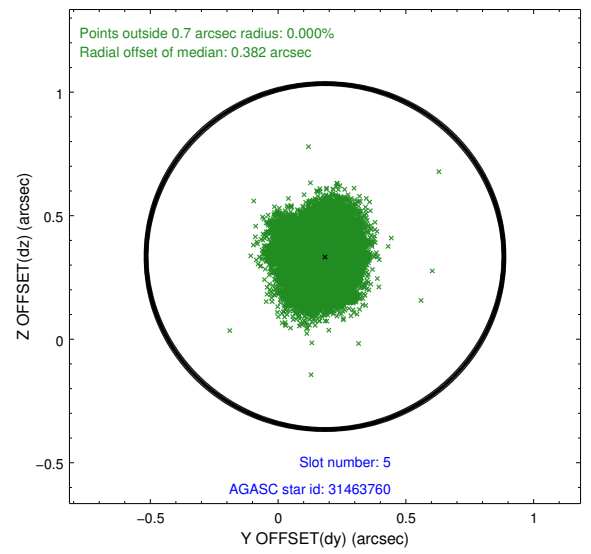
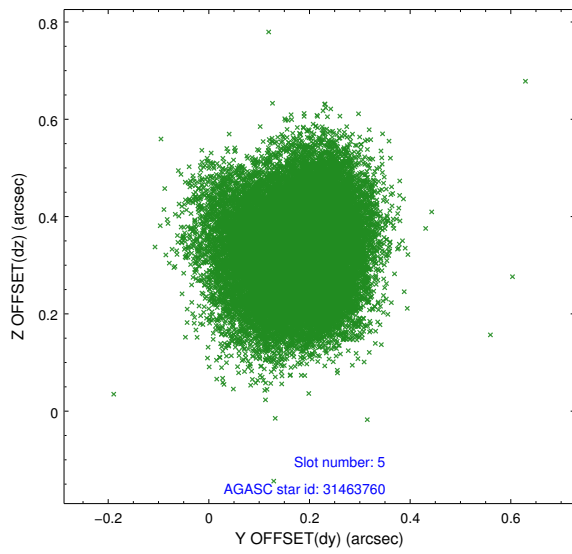
2.4.1 Slot 3



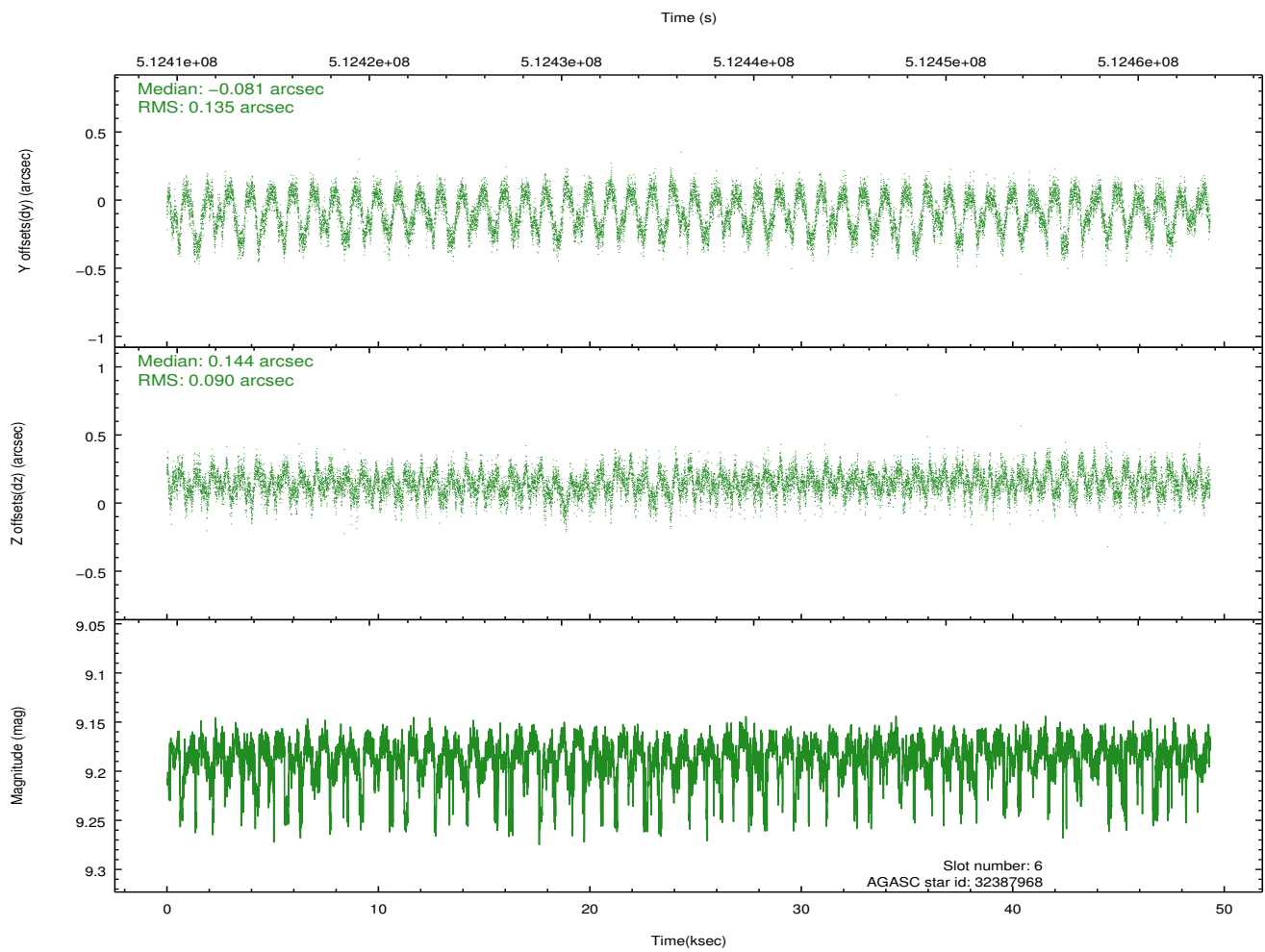
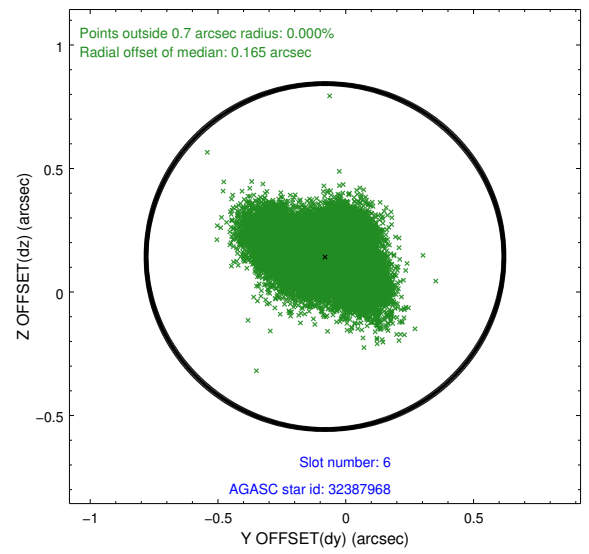
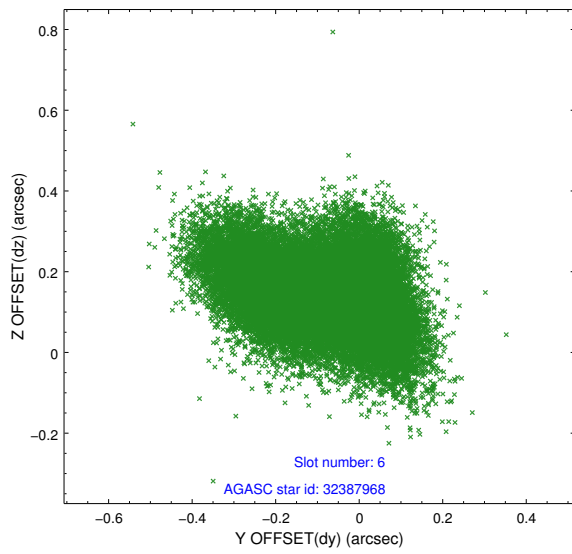
2.4.2 Slot 4



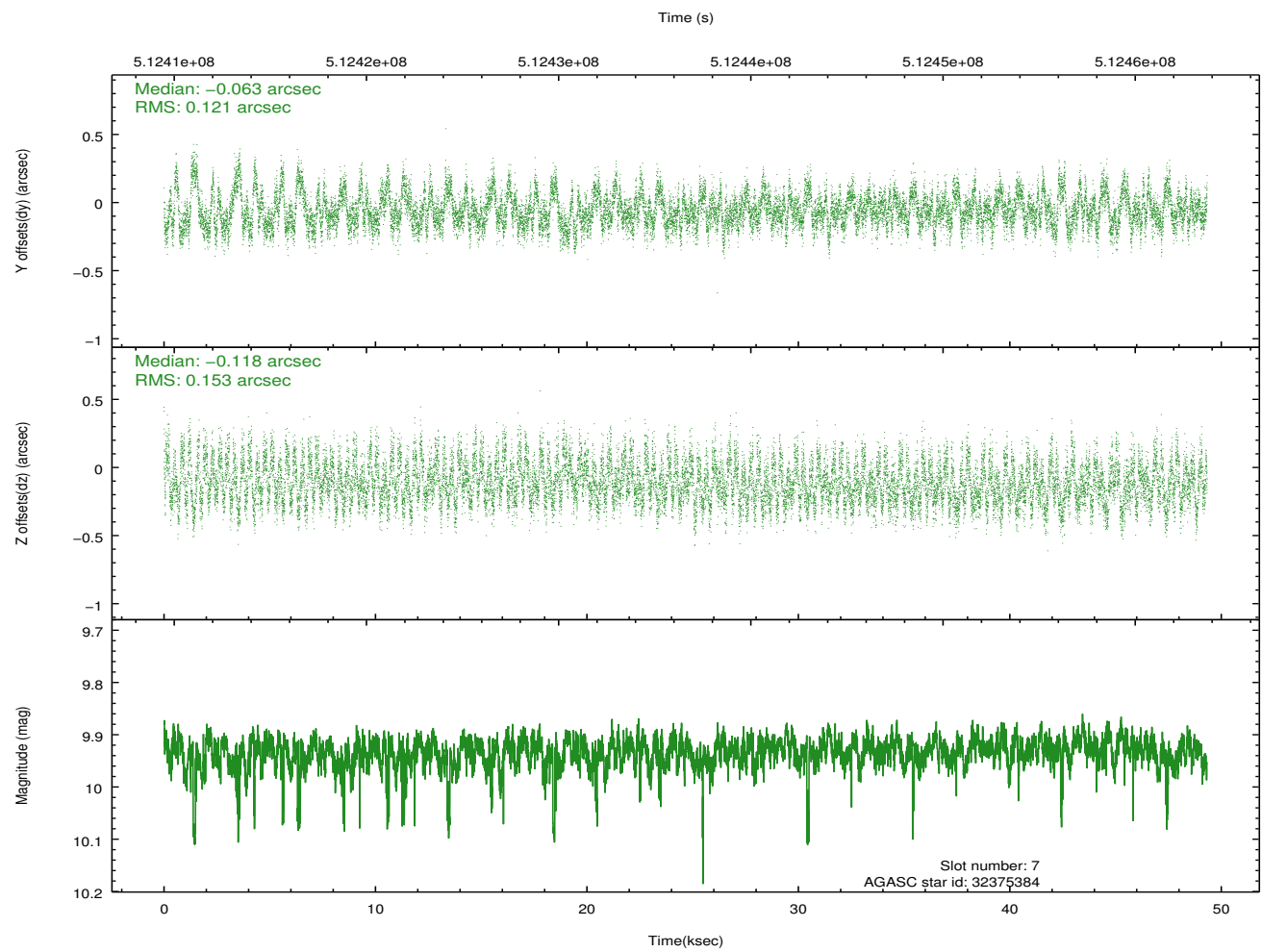
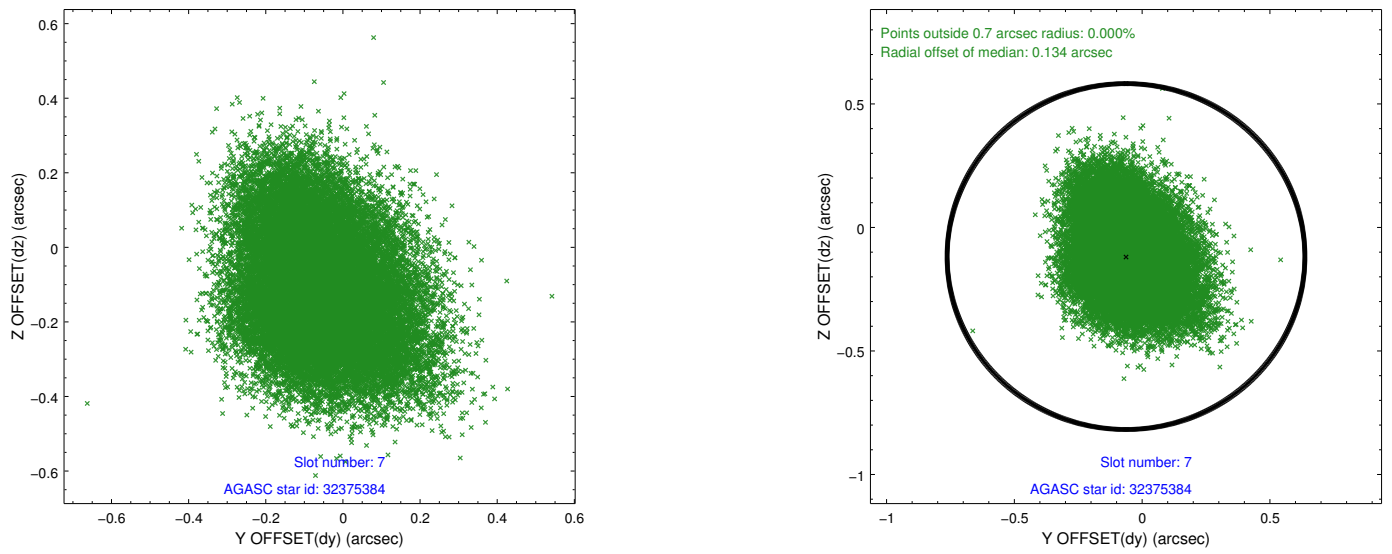
2.4.3 Slot 5



2.4.4 Slot 6

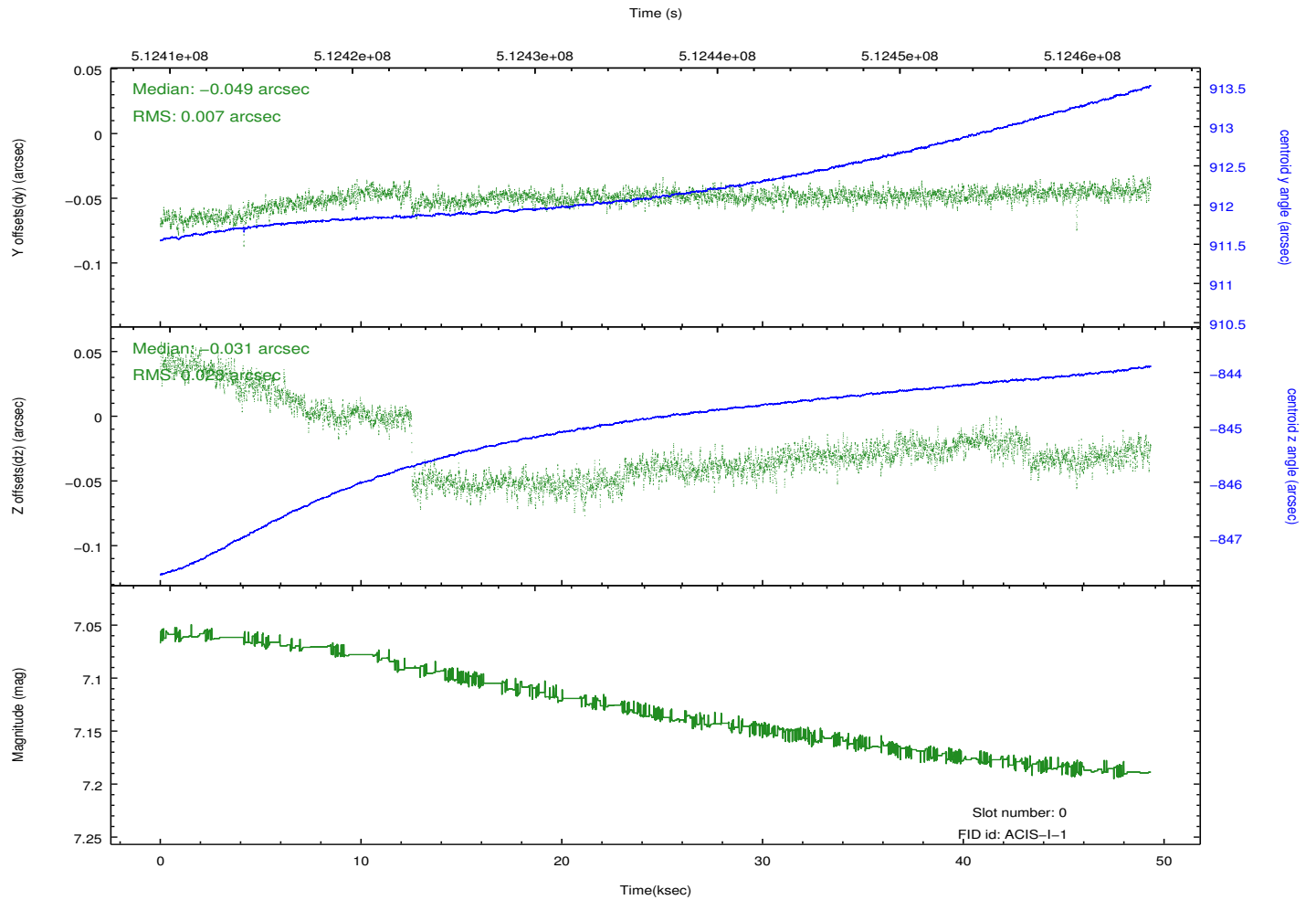
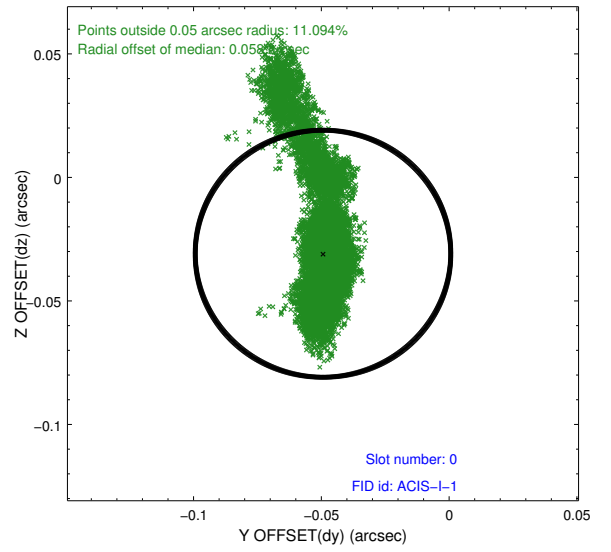
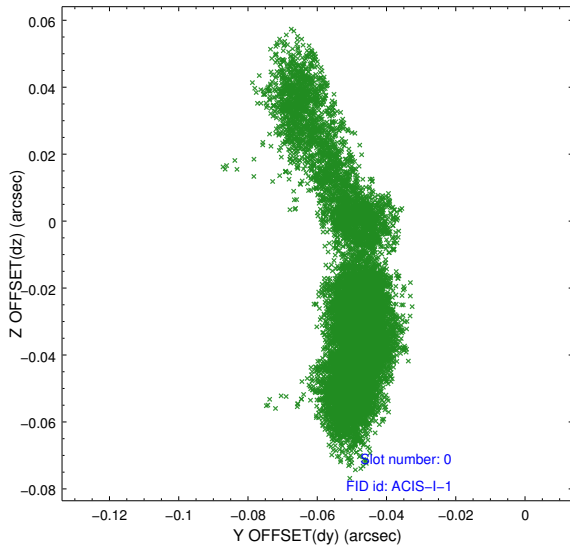


2.4.5 Slot 7

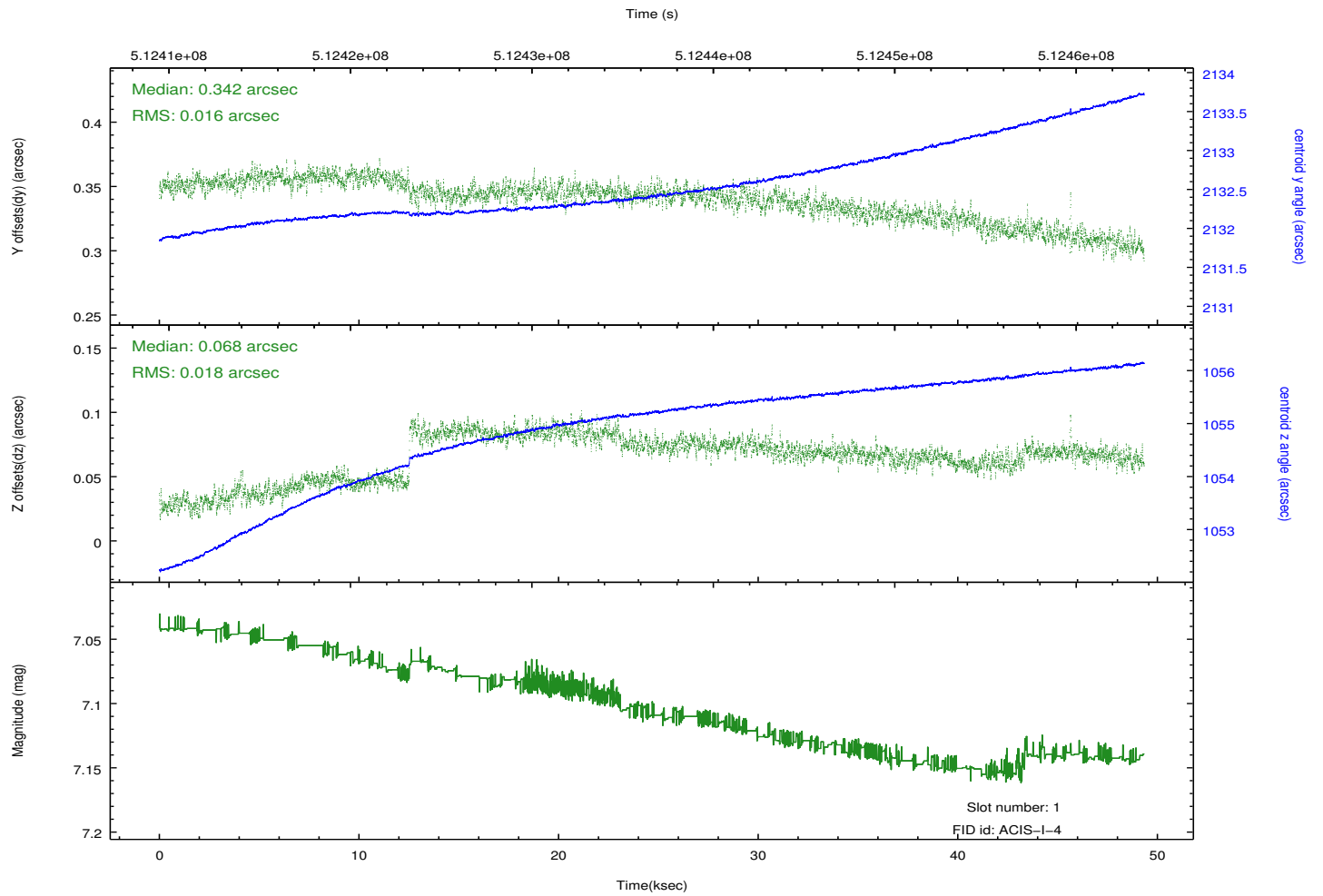
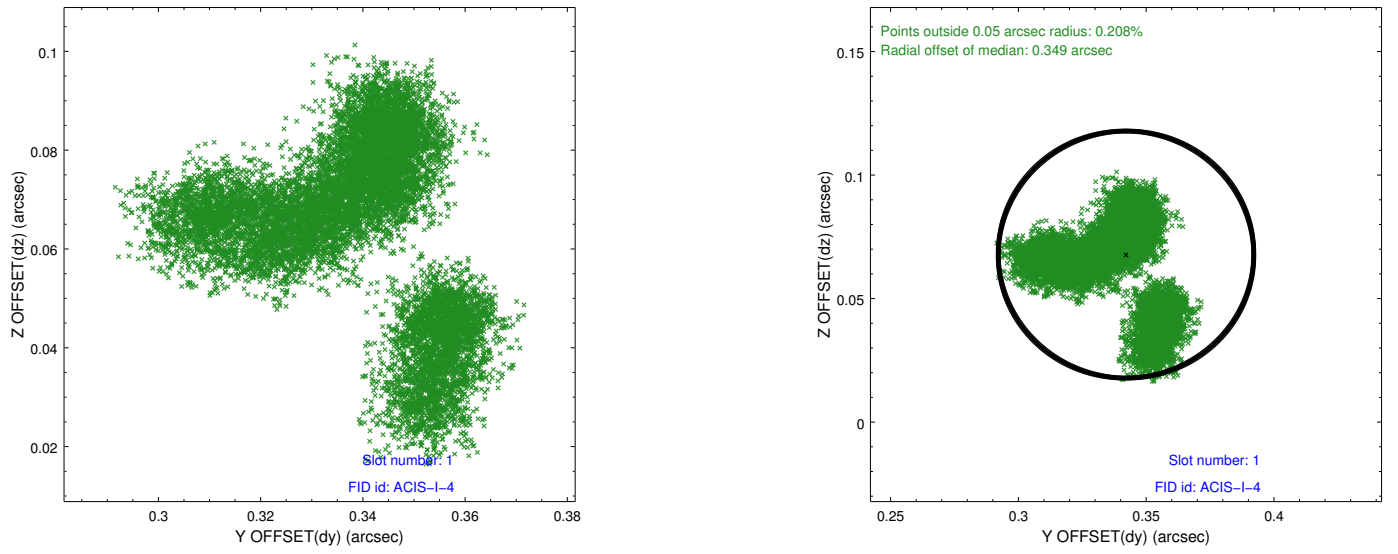


2.5 FID Slots

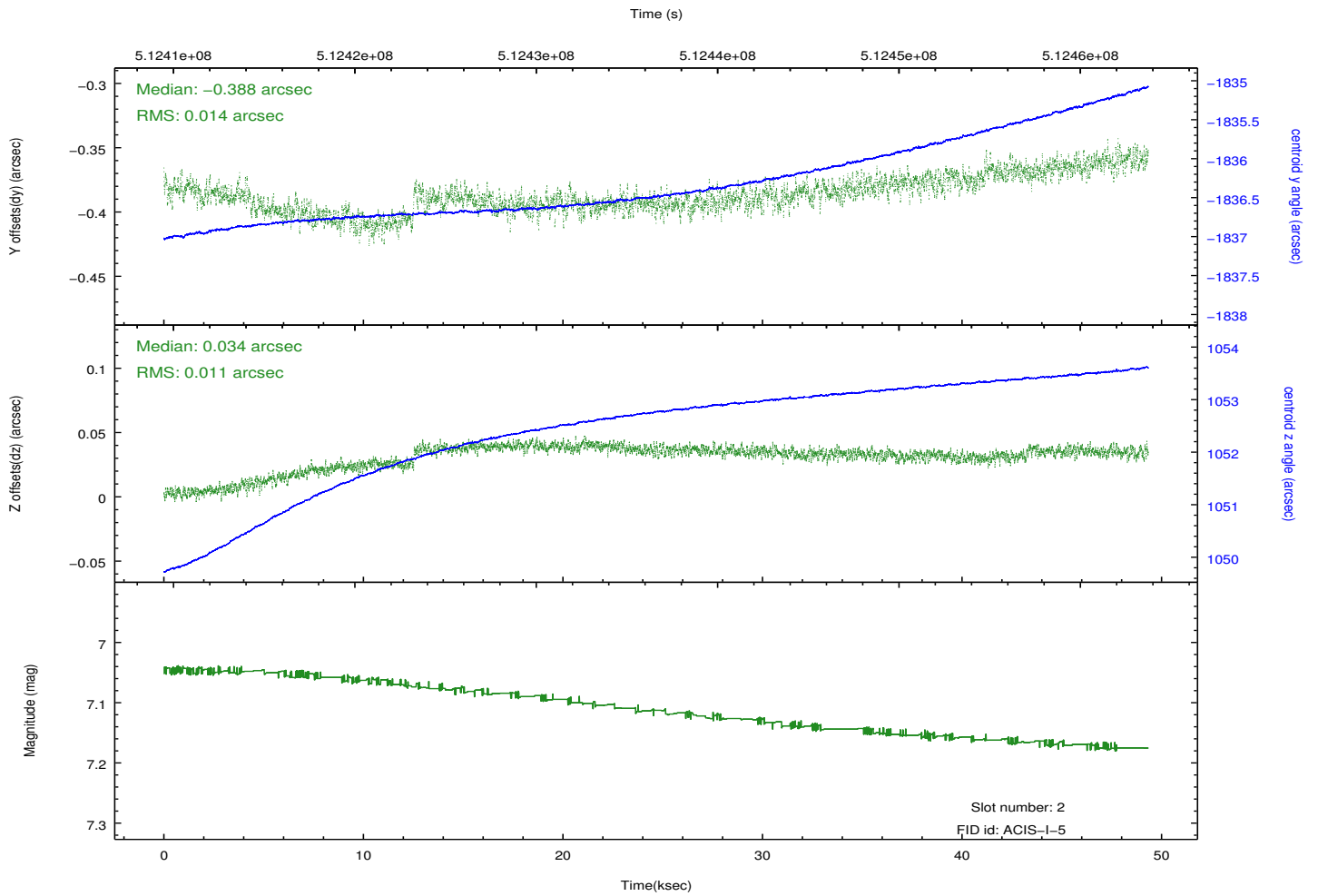
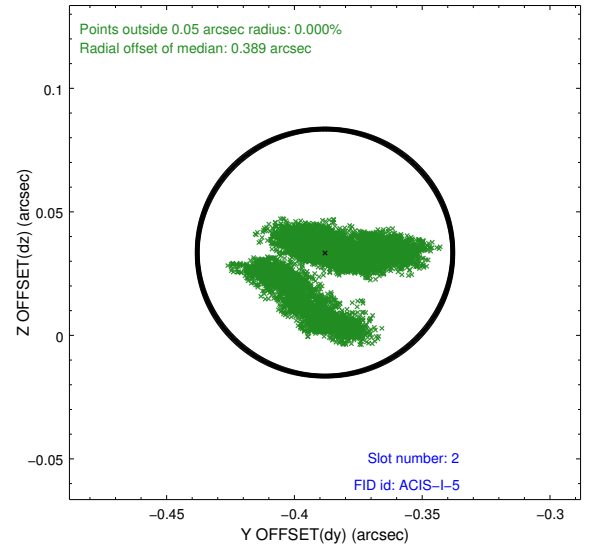
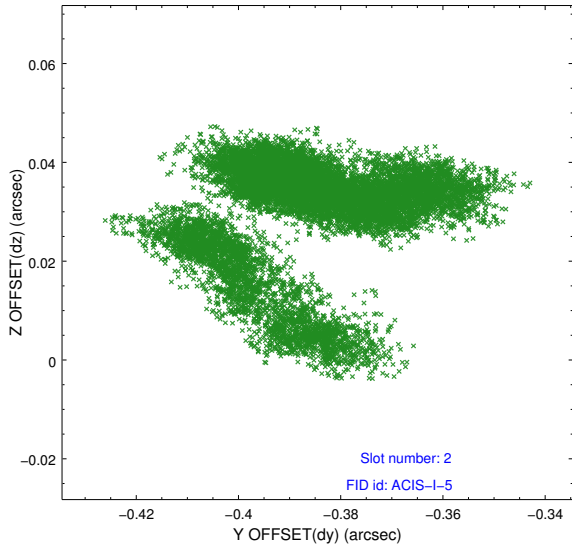
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	49.243500378728

A.2 Comments

Roll constraint met.

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These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.