

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15212 - L2 Version 2
Chandra X-Ray Center

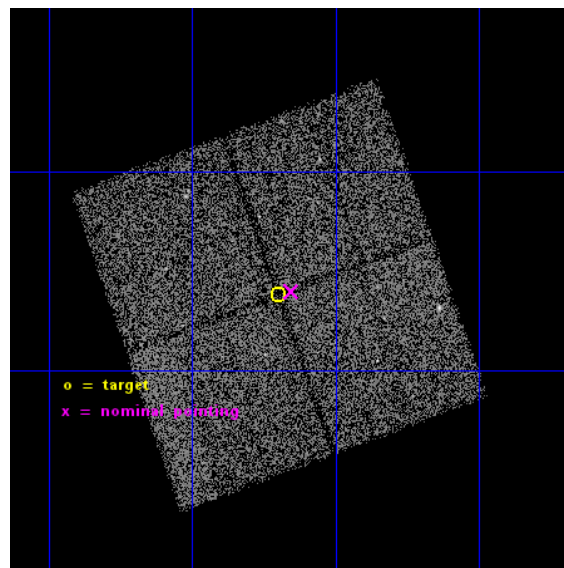
L2 Processing Date : Nov 30 2014

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1 Front

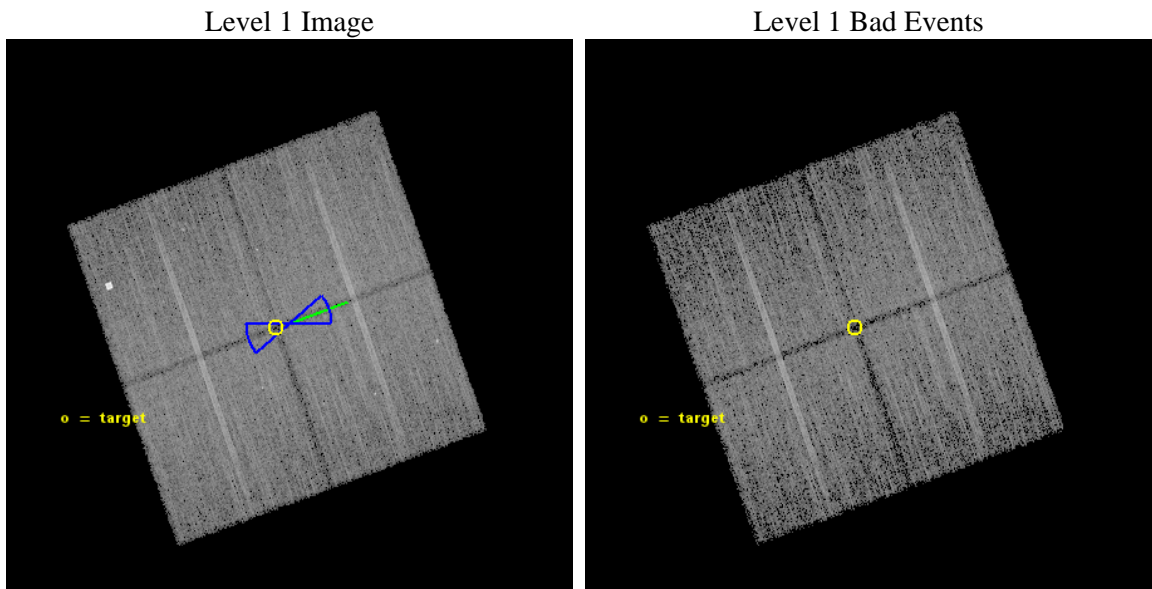
seq_num	901042	Sequence number
obs_id	15212	Observation id
title	The COSMOS Legacy Survey	Proposal title
observer	Dr Francesca Civano	Principal investigator
object	COSMOS Legacy	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	149.92473	Observer's specified target RA [deg]
dec_targ	2.730451	Observer's specified target Dec [deg]
ra_nom	149.91342541085	Nominal RA [deg]
dec_nom	2.7328500237133	Nominal Dec [deg]
roll_nom	70.209230500954	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25584.25916642	Sum of GTIs [s]
livetime	25249.981985553	Livetime [s]
ontime0	25587.400196791	Sum of GTIs [s]
ontime1	25584.25916642	Sum of GTIs [s]
ontime2	25584.25916642	Sum of GTIs [s]
ontime3	25587.400196791	Sum of GTIs [s]
l2events	53856	Number of level 2 events



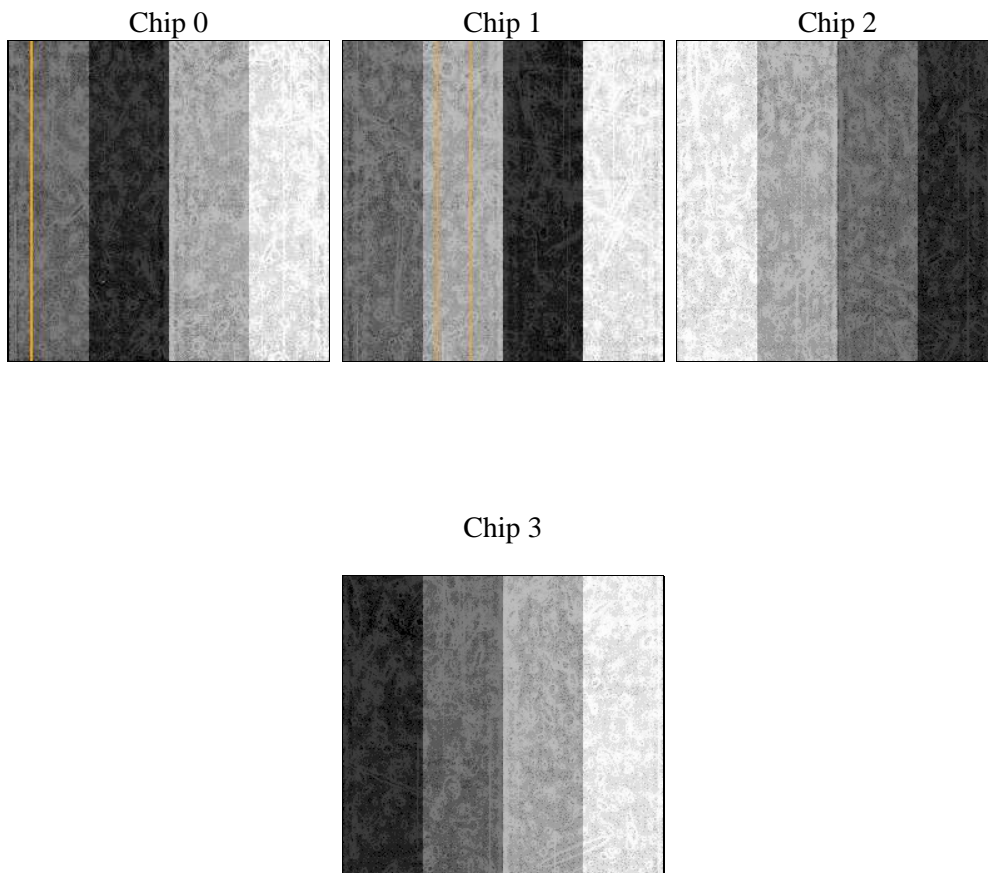
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25500.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	25584.25916642	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	25587.400196791	Sum of GTIs [s]
date	2014-11-30T19:49:08	Date and time of file creation	ontime1	25584.25916642	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	25584.25916642	Sum of GTIs [s]
			ontime3	25587.400196791	Sum of GTIs [s]
			l1events	518282	Number of level 1 events

2.1.4 Events

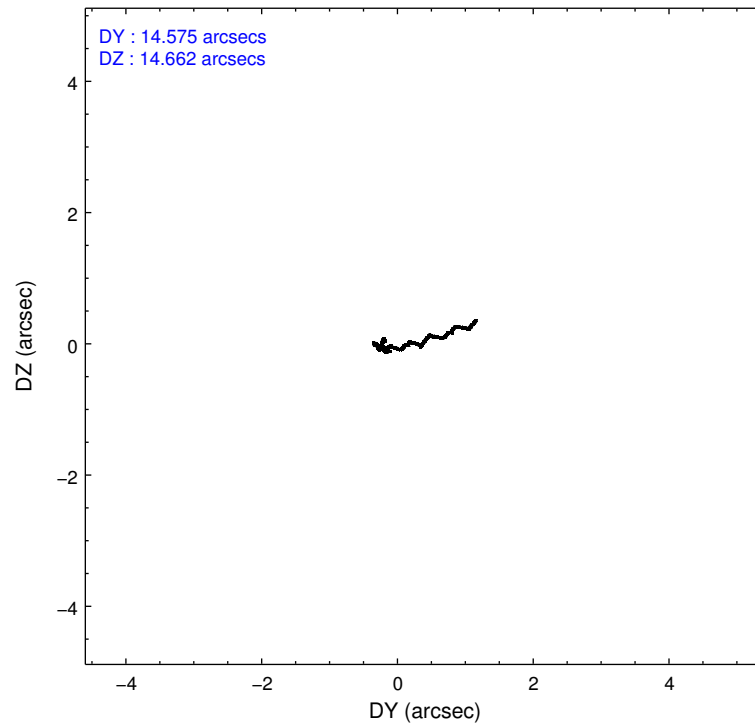
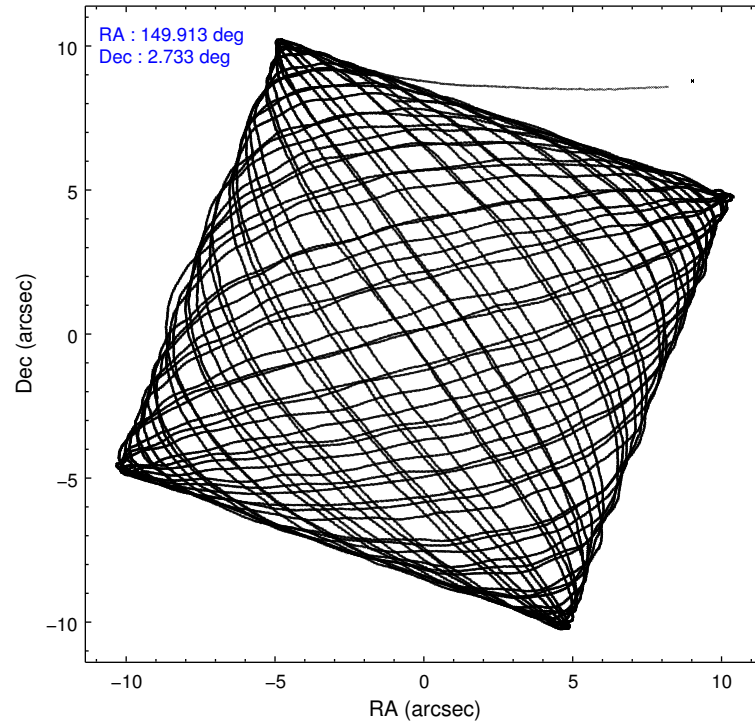
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	128063	127599	131706	130914
rejected events	104540	109993	116398	115366
rejected %	81%	86%	88%	88%

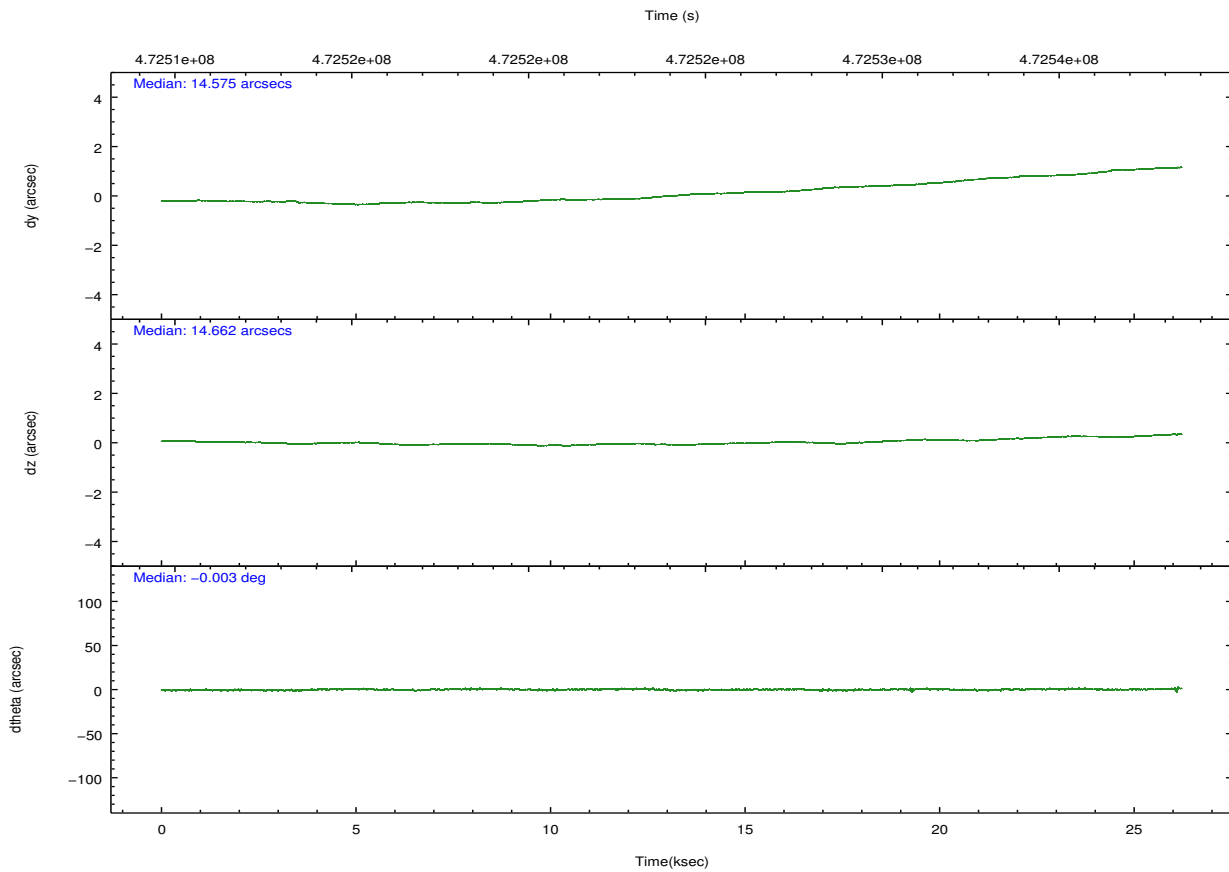
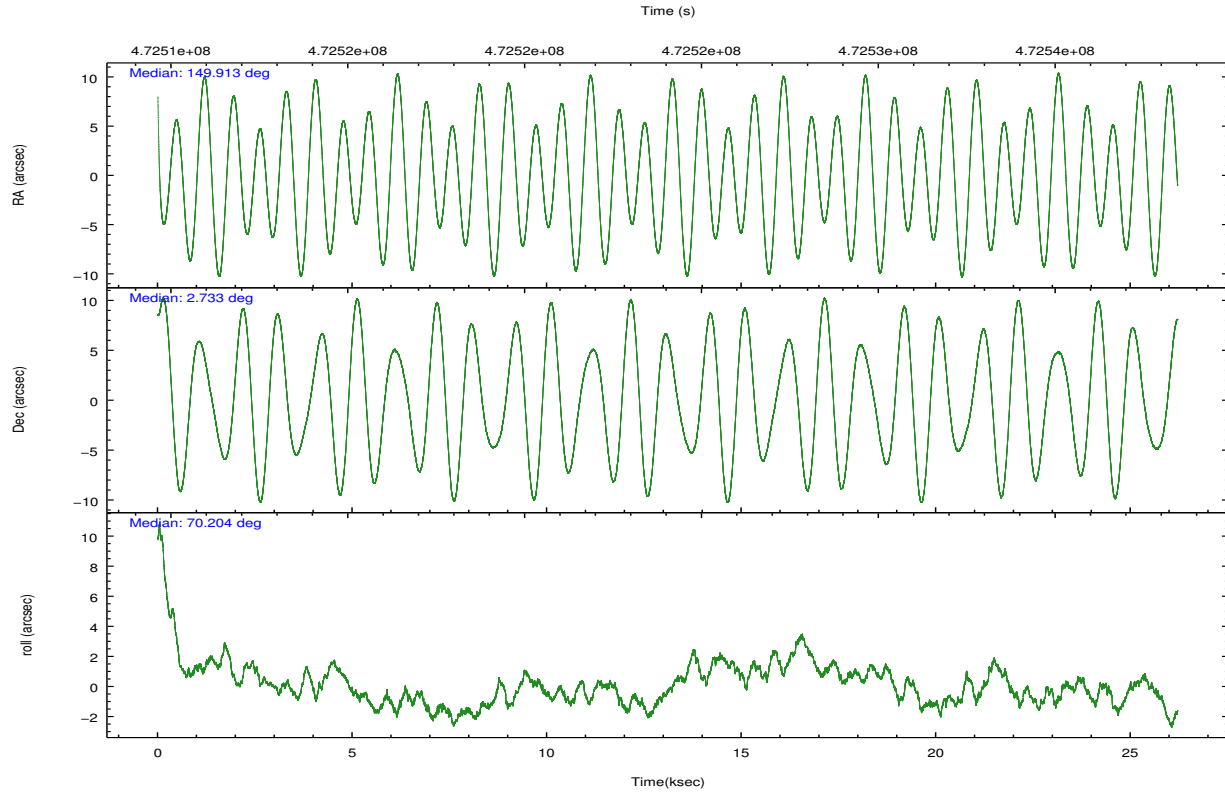
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	13254	5972	5412	5615
	10%	4%	4%	4%
grade 1 events	105	55	63	69
	0%	0%	0%	0%
grade 2 events	3837	4292	3804	3383
	2%	3%	2%	2%
grade 3 events	1617	1831	1468	1647
	1%	1%	1%	1%
grade 4 events	1571	1698	1583	1602
	1%	1%	1%	1%
grade 5 events	6273	6506	5725	6956
	4%	5%	4%	5%
grade 6 events	3247	3814	3042	3303
	2%	2%	2%	2%
grade 7 events	98159	103431	110609	108339
	76%	81%	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	149.918411	149.9134254108468	Subarray requested	NONE	NONE
[deg] Pointing Dec	2.705789	2.732850023713309	Alternating exposures requested	N	N
[deg] Pointing Roll	70.000305	70.20923050095418	[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	-233.5899487761303			
[mm] SIM translation stage offset	0	-0.002504226799430853			
[s] Observation start time (MET)	472511666.184000	472510311.94413			
Observation start date	2012-12-21T21:13:19	2012-12-21T20:51:51			
[s] Observation end time (MET)	472537166.184000	472537782.97061			
Observation end date	2012-12-22T04:18:19	2012-12-22T04:29:42			
Read mode	TIMED	TIMED			

2.3 Aspect





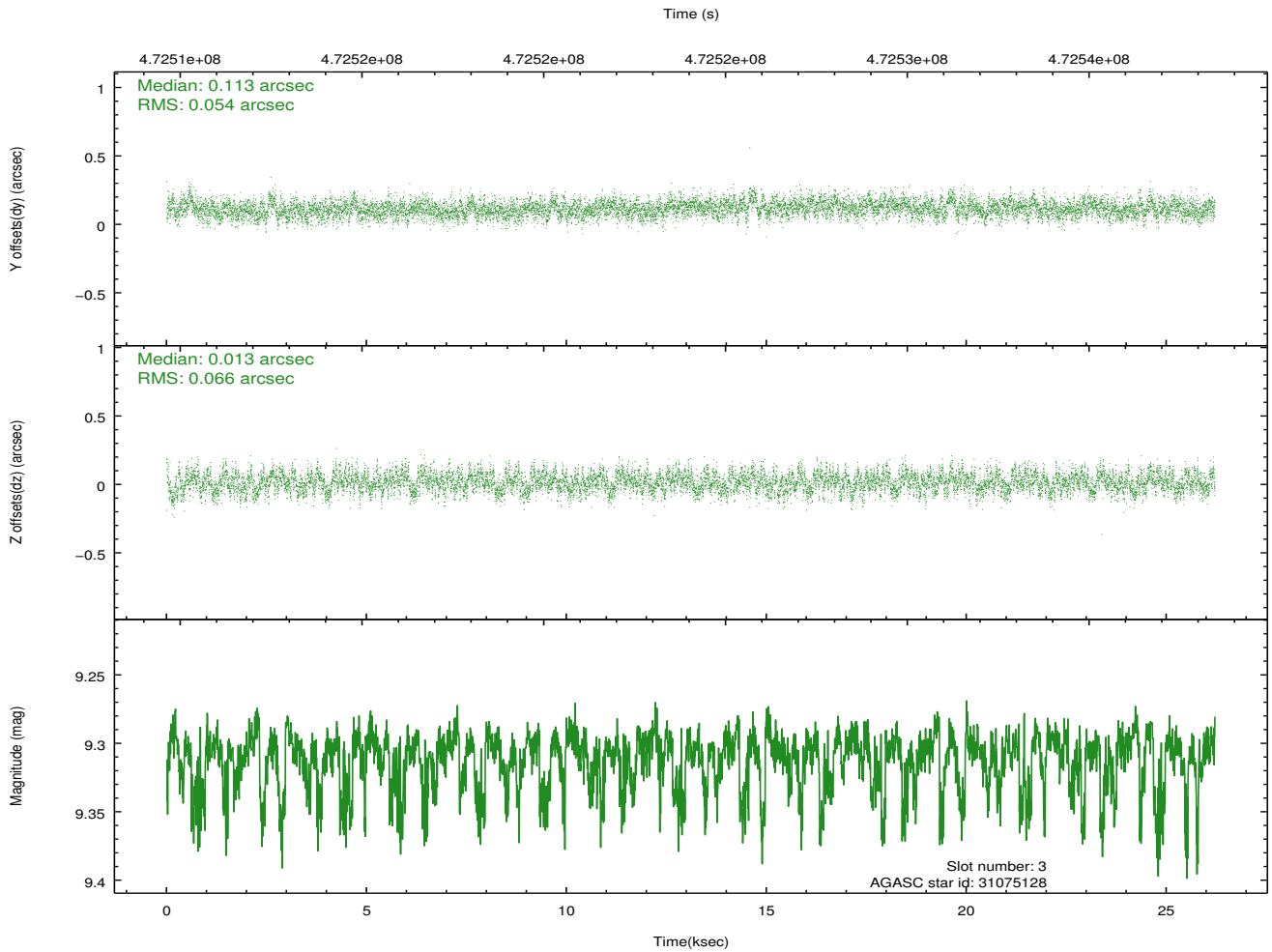
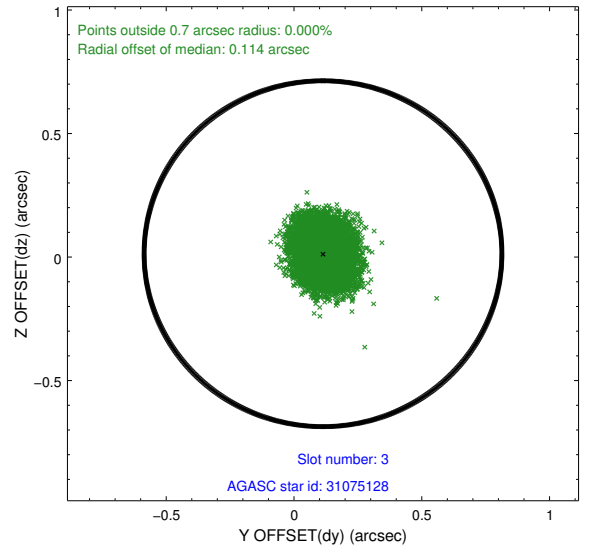
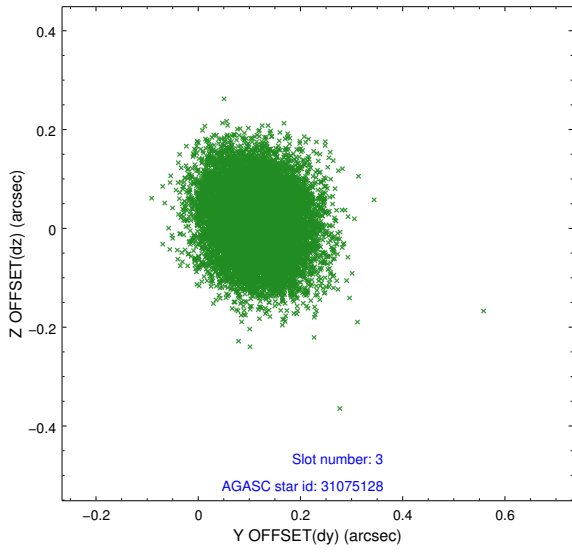
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.12	6393	0.048	-0.012	0.011	0.019	0.000000	0.000000	924.80	-838.22
1	FID		ACIS-I-5	7.11	6393	-0.245	0.043	0.009	0.014	0.000000	0.000000	-1823.59	1059.20
2	FID		ACIS-I-6	7.11	6393	0.106	0.039	0.009	0.015	0.000000	0.000000	390.22	1703.87
3	GUIDE	used	31075128	9.31	12768	0.113	0.013	0.091	0.146	149.584516	2.364347	-1565.39	708.17
4	GUIDE	used	31475336	7.00	12782	-0.283	-0.382	0.069	0.110	149.929497	3.384805	2310.44	799.48
5	GUIDE	used	31983336	8.60	12780	0.453	0.455	0.115	0.187	150.429924	2.291234	-771.68	-2238.82
6	GUIDE	used	32387968	9.20	12717	-0.038	0.075	0.141	0.225	150.106347	3.119099	1629.58	-125.85
7	GUIDE	used	31465320	9.65	12717	-0.252	-0.165	0.138	0.220	149.742867	3.457799	2328.29	1518.88

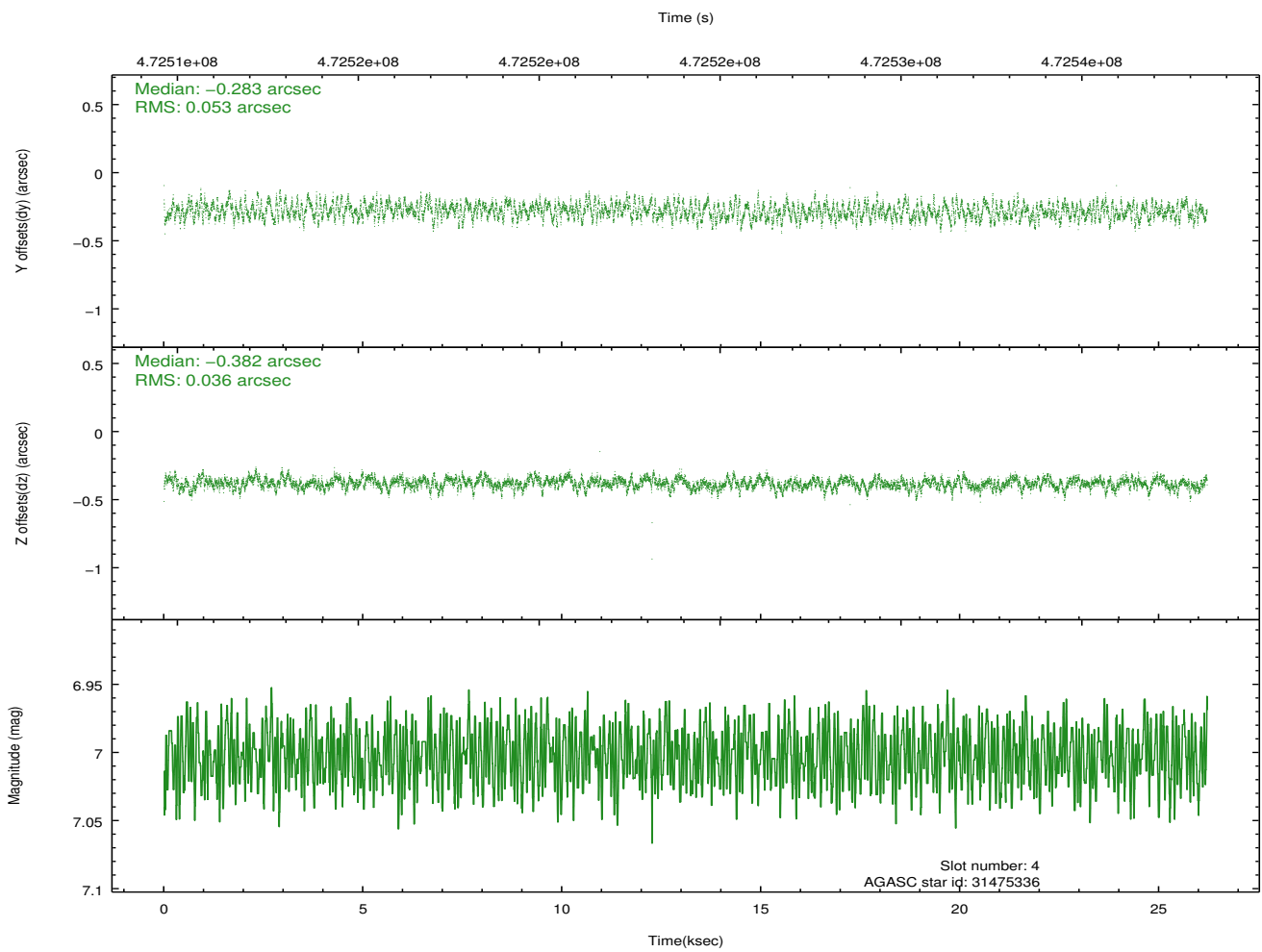
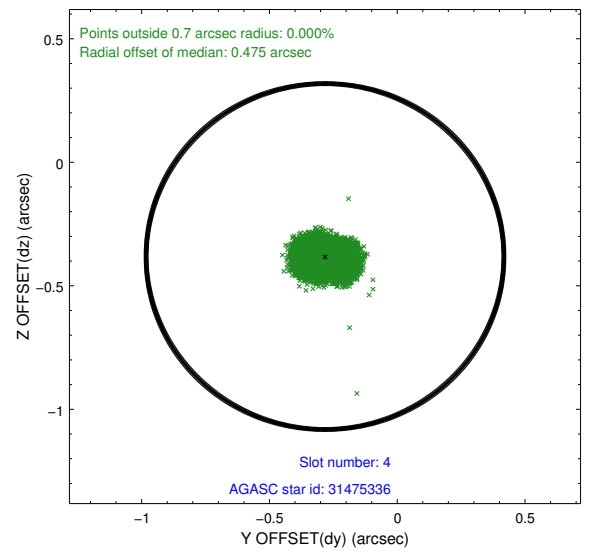
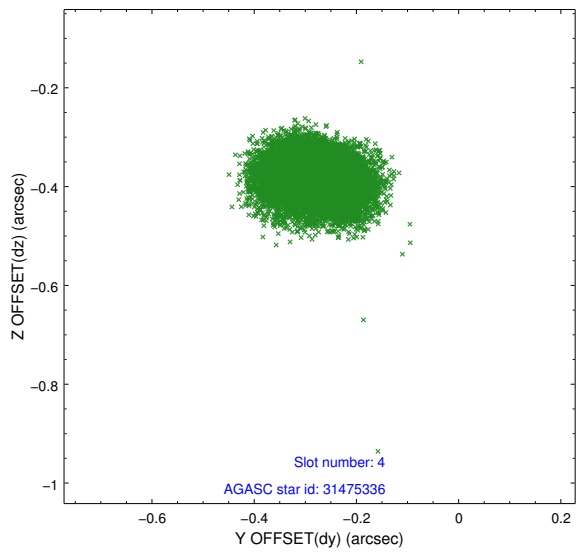
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2.4 Star Slots

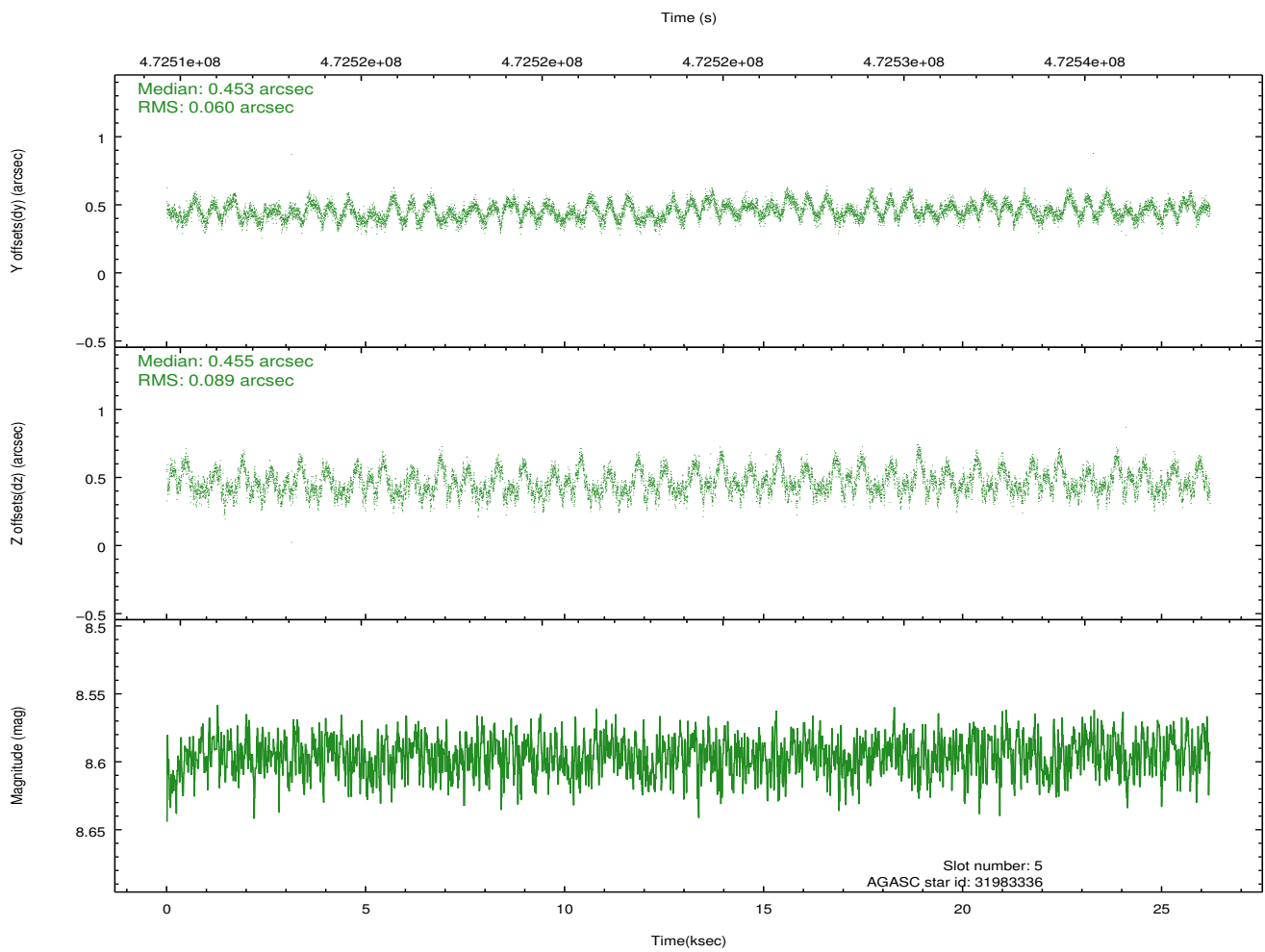
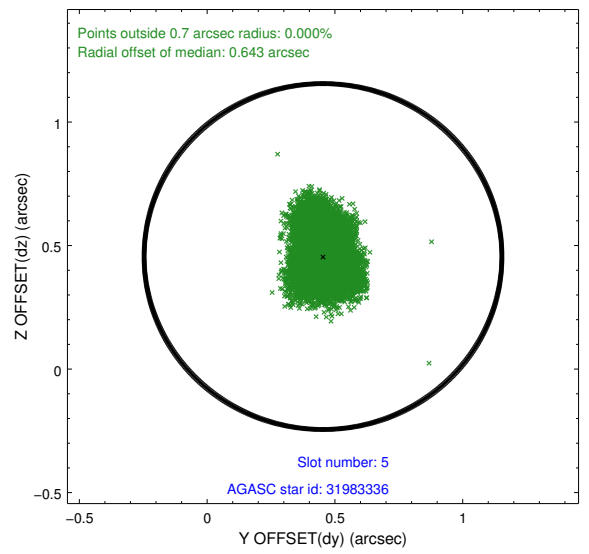
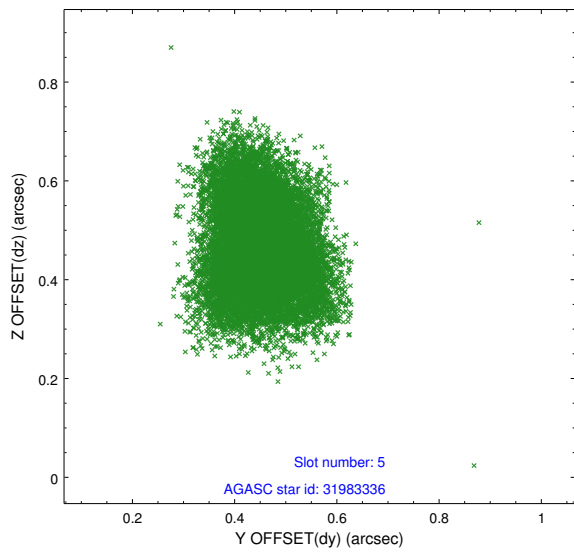
2.4.1 Slot 3



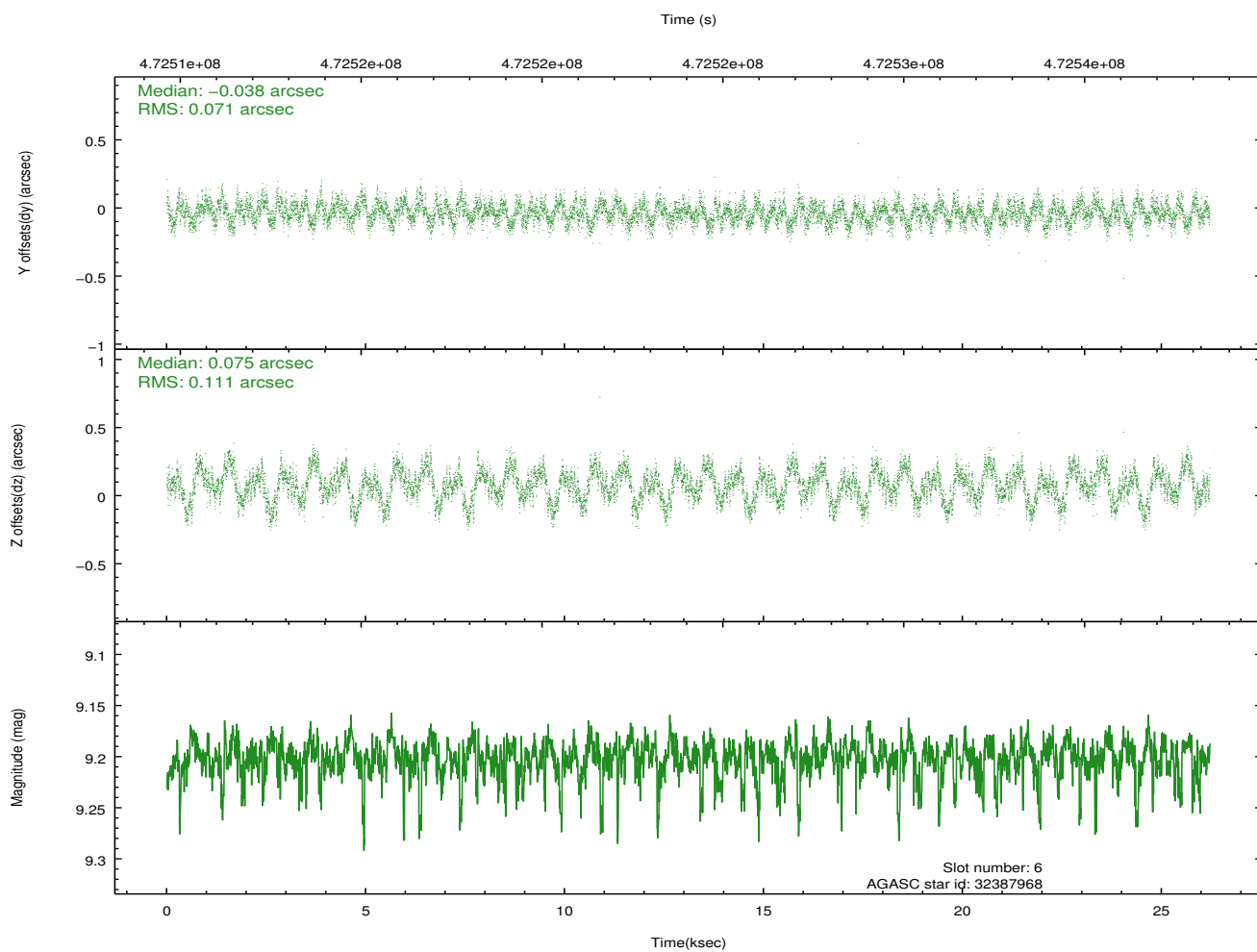
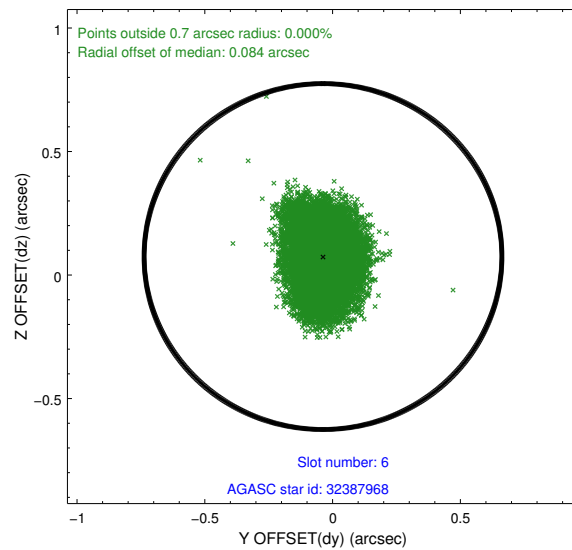
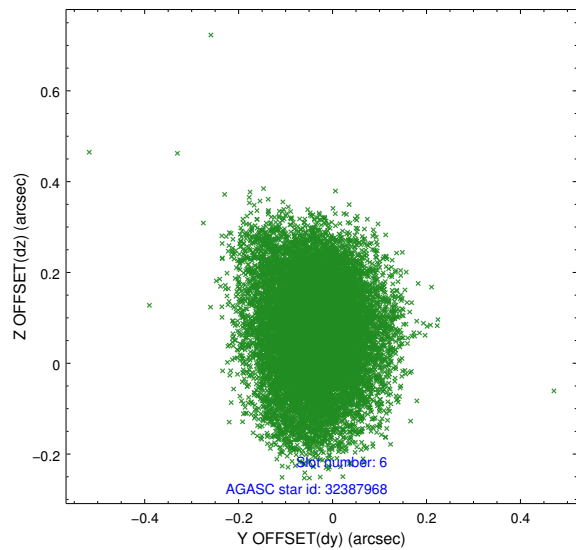
2.4.2 Slot 4



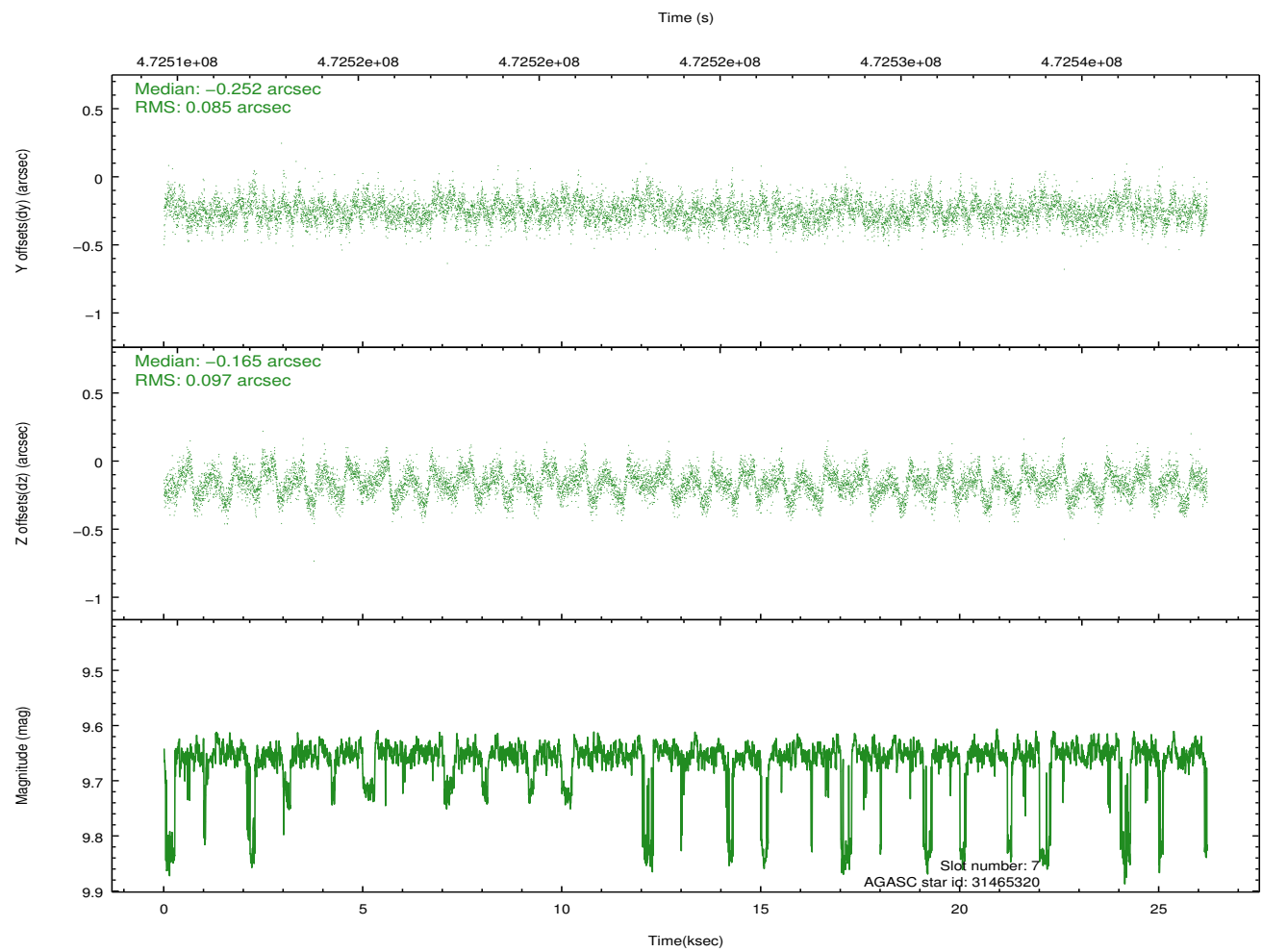
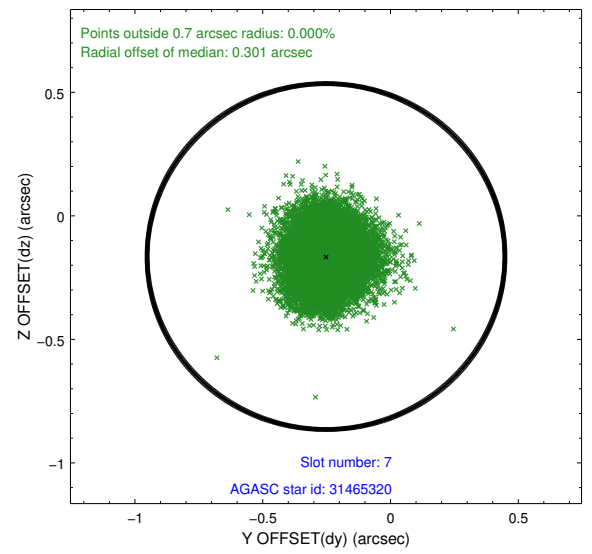
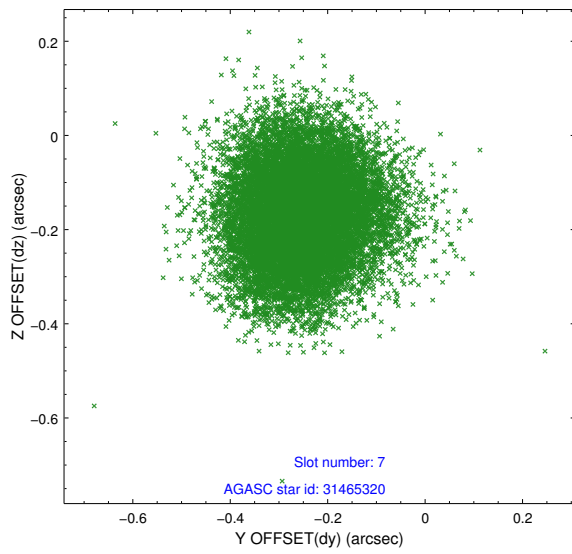
2.4.3 Slot 5



2.4.4 Slot 6

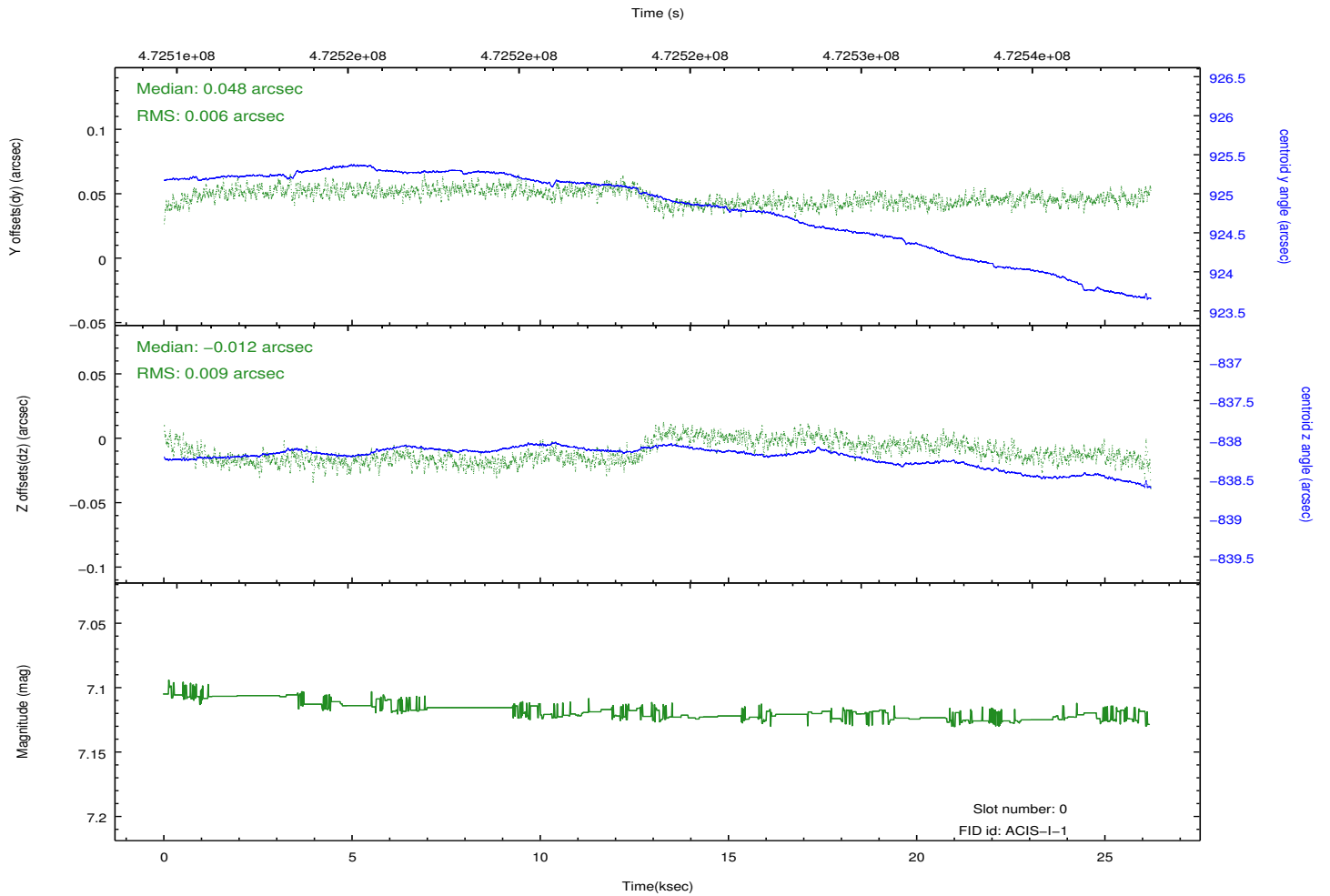
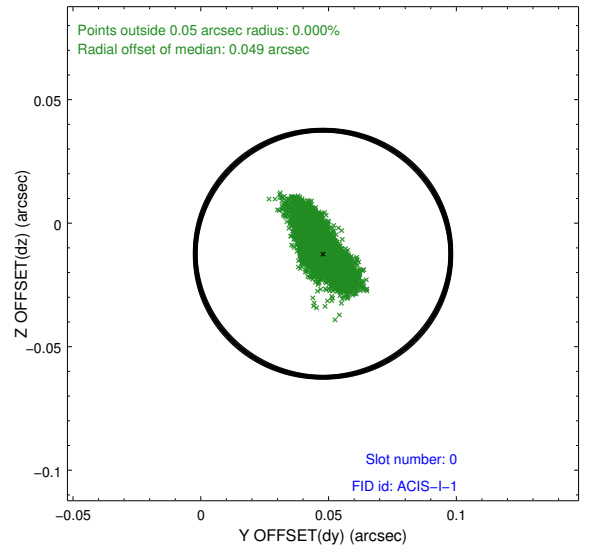
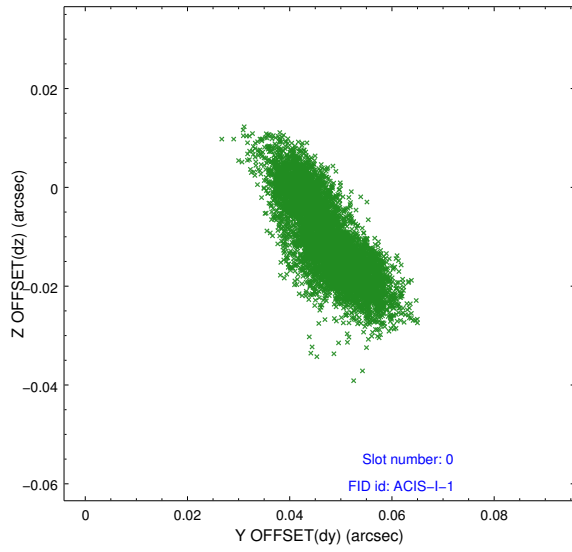


2.4.5 Slot 7

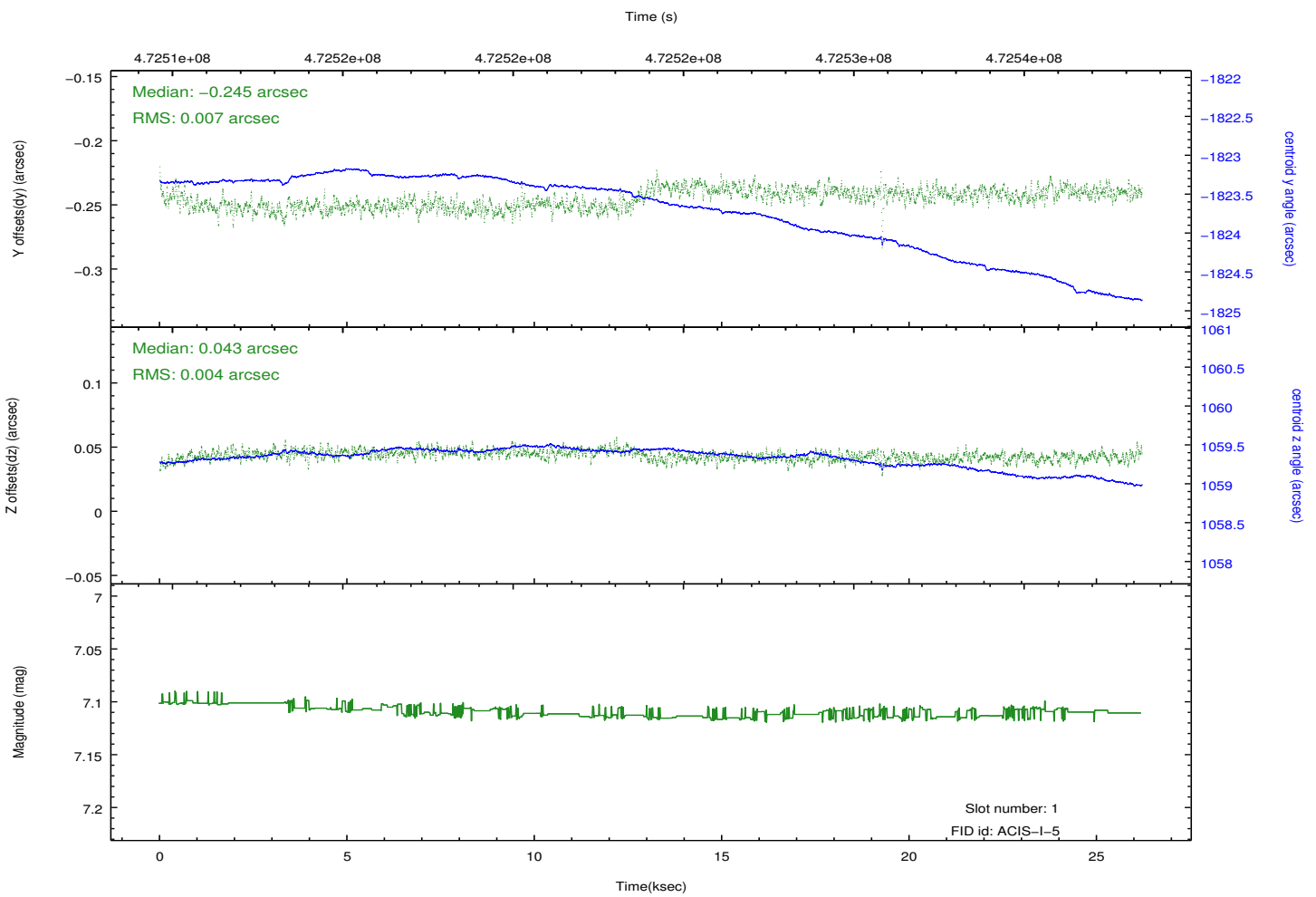
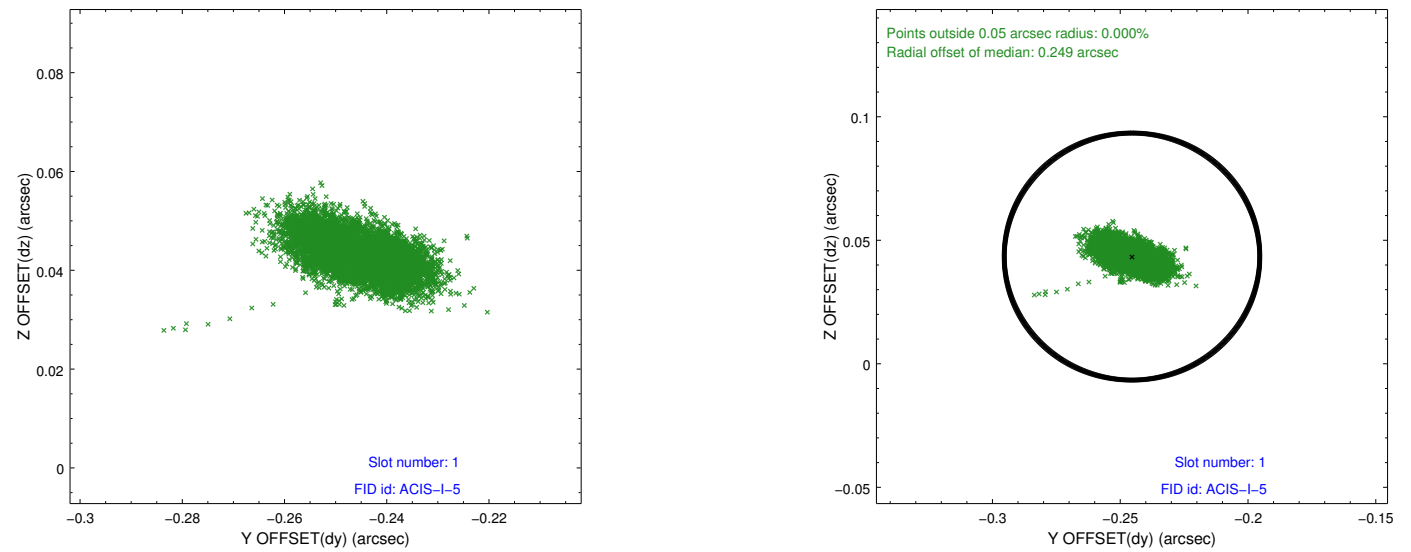


2.5 FID Slots

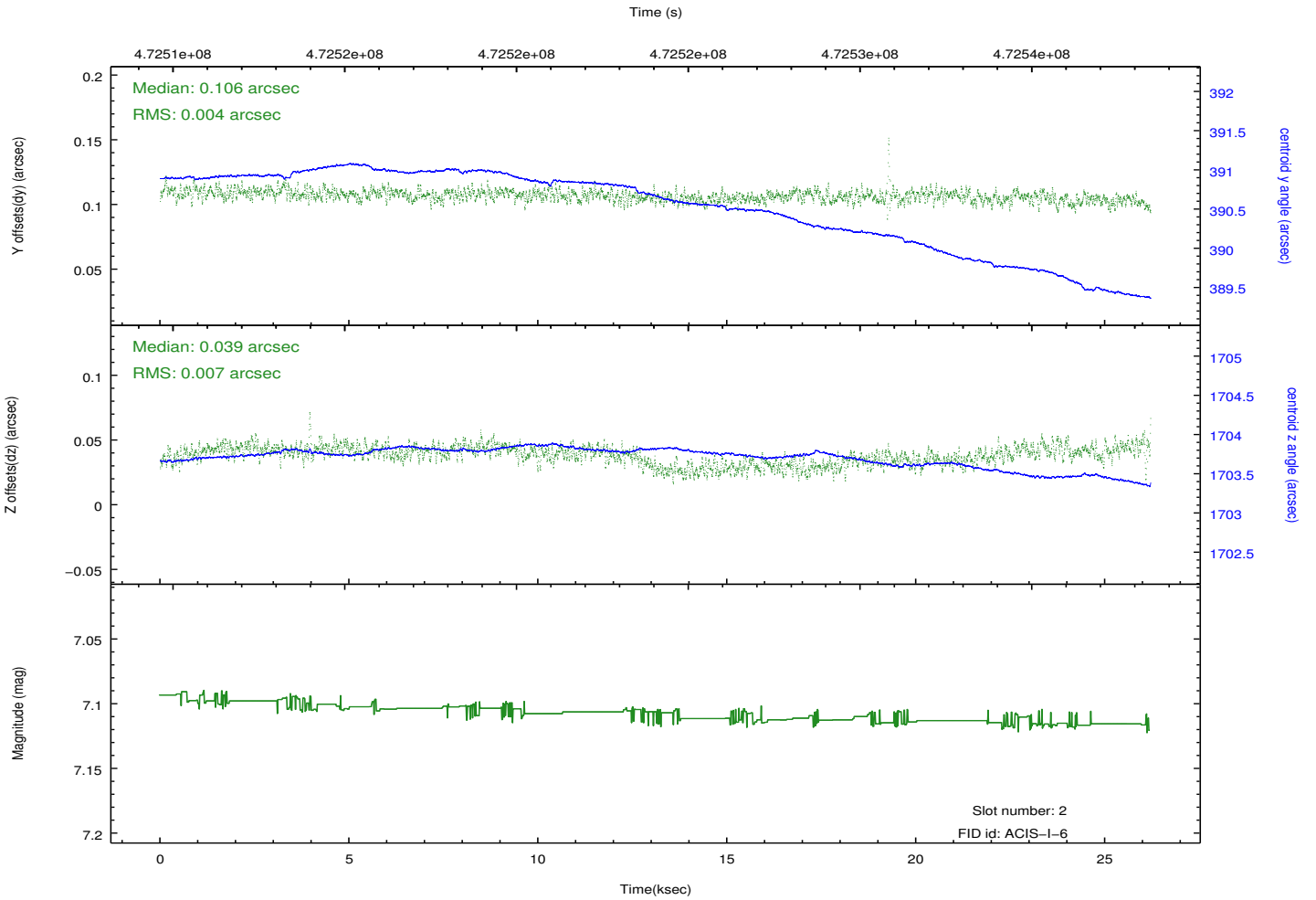
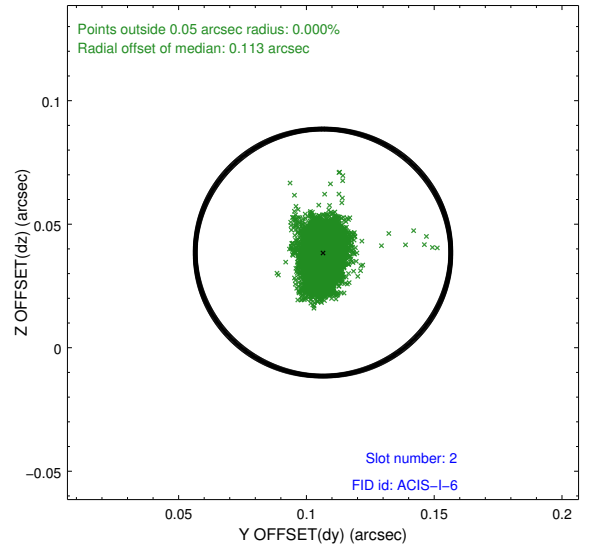
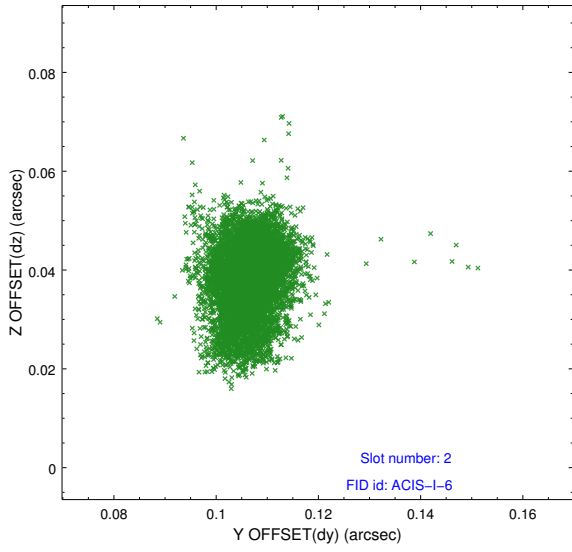
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.58425916642

A.2 Comments

Roll preference met.

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.