

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15606 - L2 Version 2
Chandra X-Ray Center

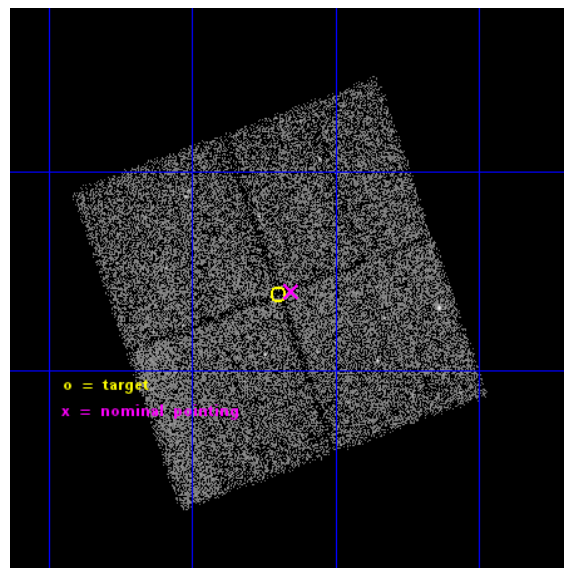
L2 Processing Date : Nov 30 2014

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1 Front

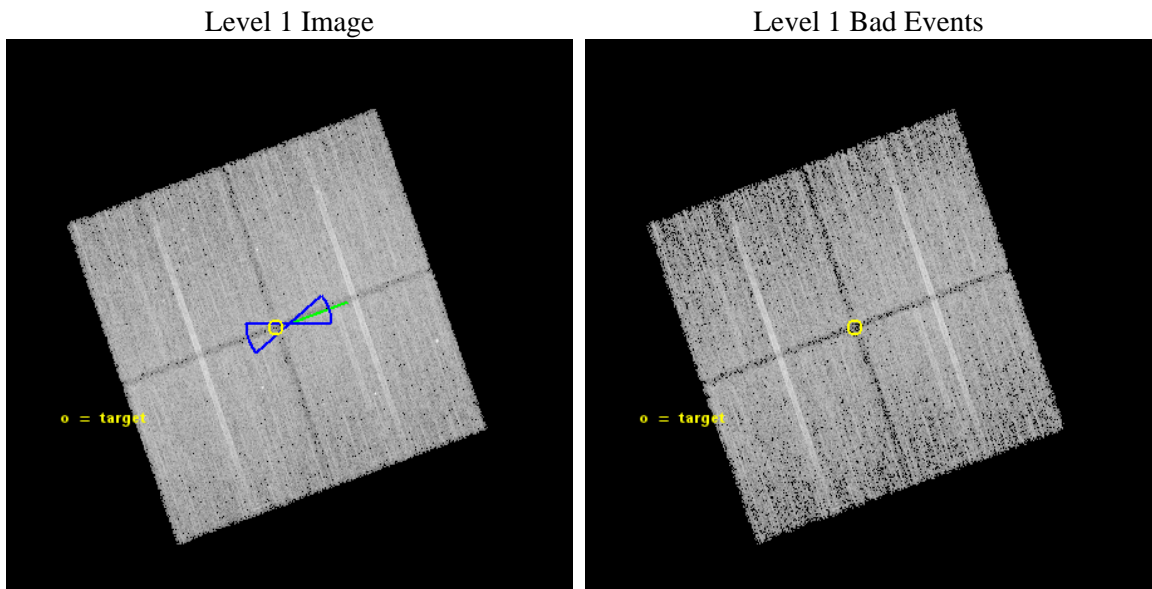
seq_num	901042	Sequence number
obs_id	15606	Observation id
title	The COSMOS Legacy Survey	Proposal title
observer	Dr Francesca Civano	Principal investigator
object	COSMOS Legacy	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	149.92473	Observer's specified target RA [deg]
dec_targ	2.730451	Observer's specified target Dec [deg]
ra_nom	149.91341862281	Nominal RA [deg]
dec_nom	2.7328459449369	Nominal Dec [deg]
roll_nom	70.209228154589	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25553.300196528	Sum of GTIs [s]
livetime	25219.427517395	Livetime [s]
ontime0	25553.300196528	Sum of GTIs [s]
ontime1	25553.300196528	Sum of GTIs [s]
ontime2	25553.300196528	Sum of GTIs [s]
ontime3	25540.736135423	Sum of GTIs [s]
l2events	54613	Number of level 2 events



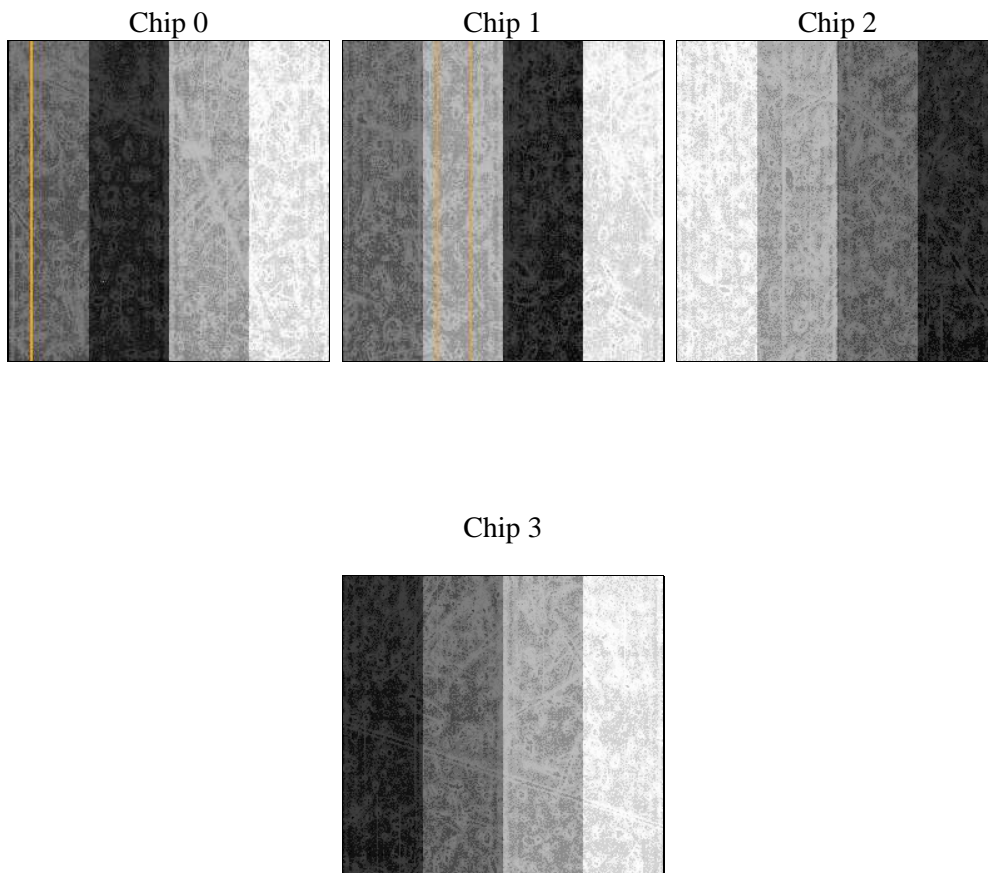
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25465.551000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	25553.300196528	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	25553.300196528	Sum of GTIs [s]
date	2014-12-01T00:51:57	Date and time of file creation	ontime1	25553.300196528	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	25553.300196528	Sum of GTIs [s]
			ontime3	25540.736135423	Sum of GTIs [s]
			l1events	520430	Number of level 1 events

2.1.4 Events

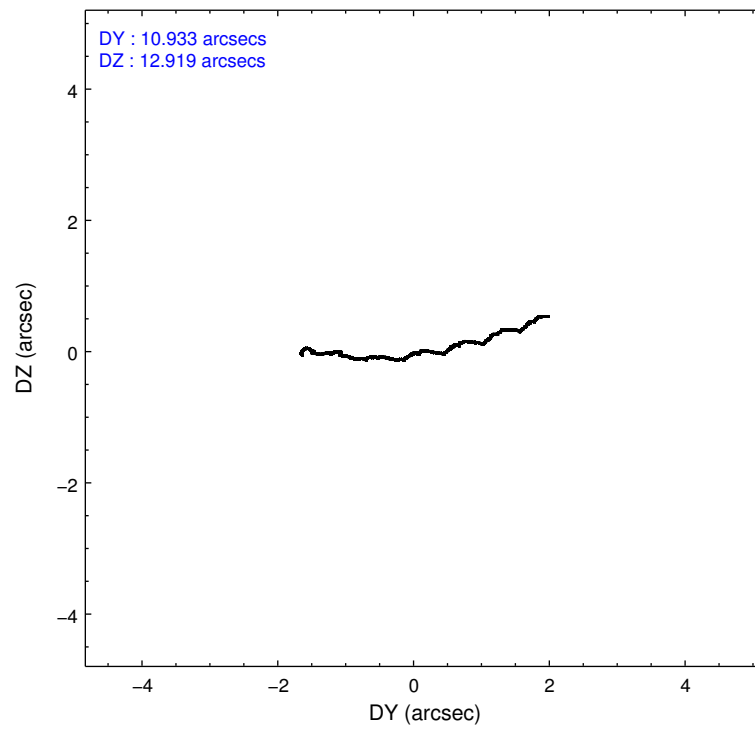
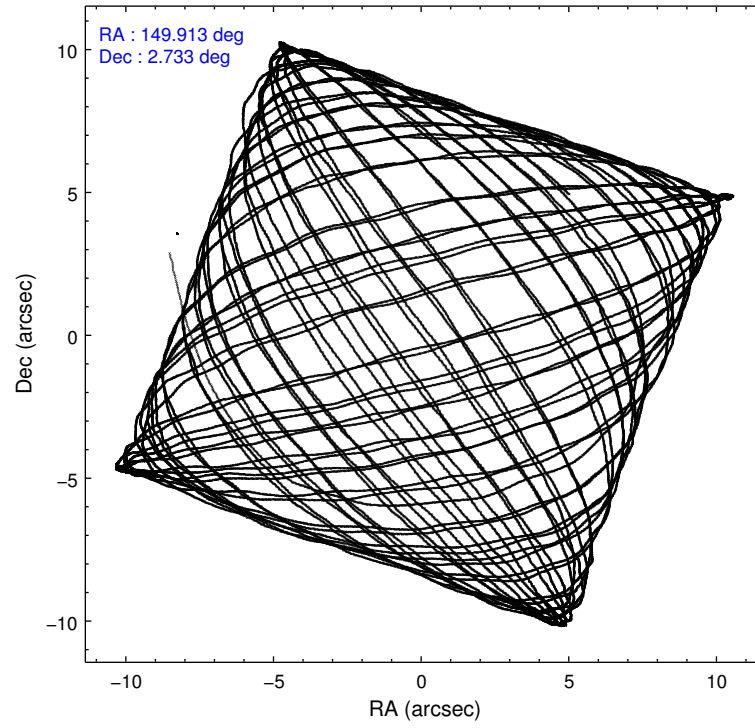
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	124187	127567	136794	131882
rejected events	108130	109733	121278	116303
rejected %	87%	86%	88%	88%

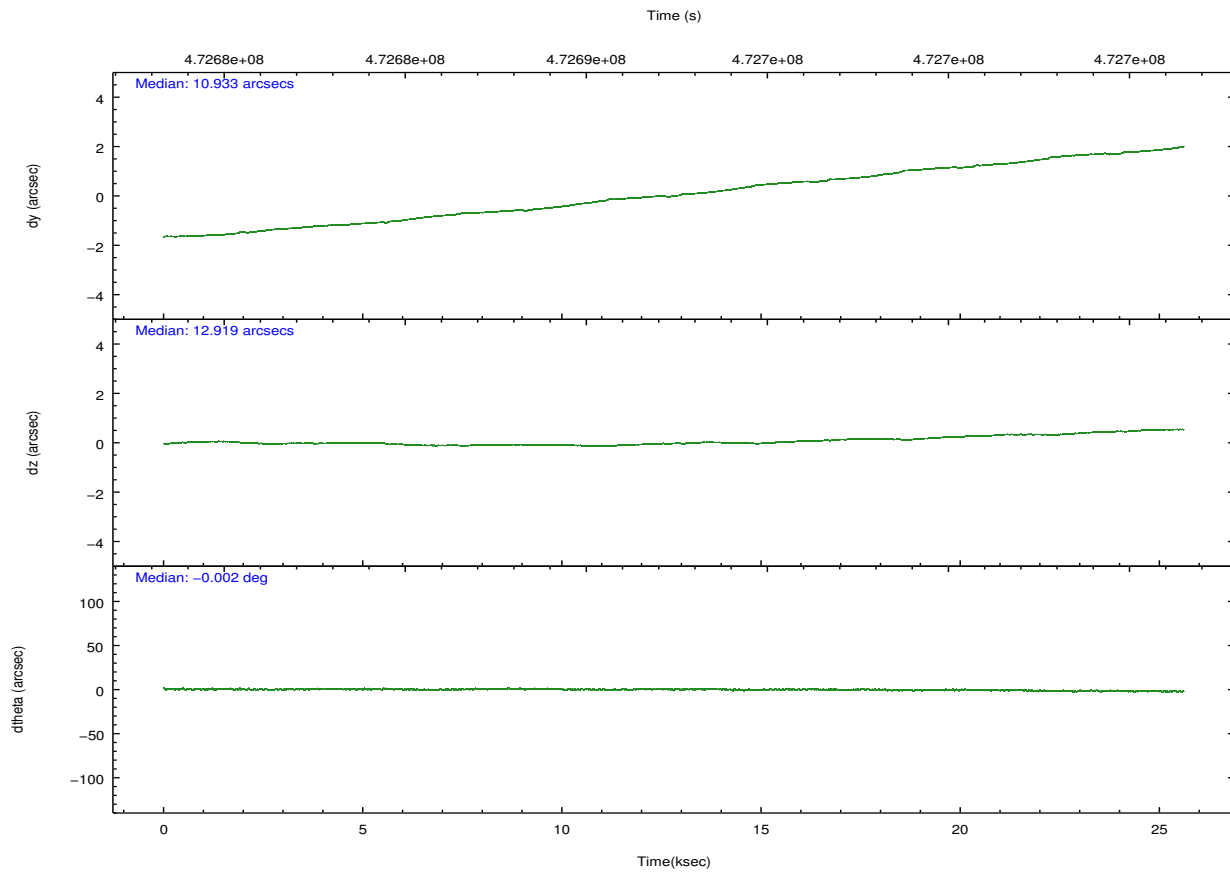
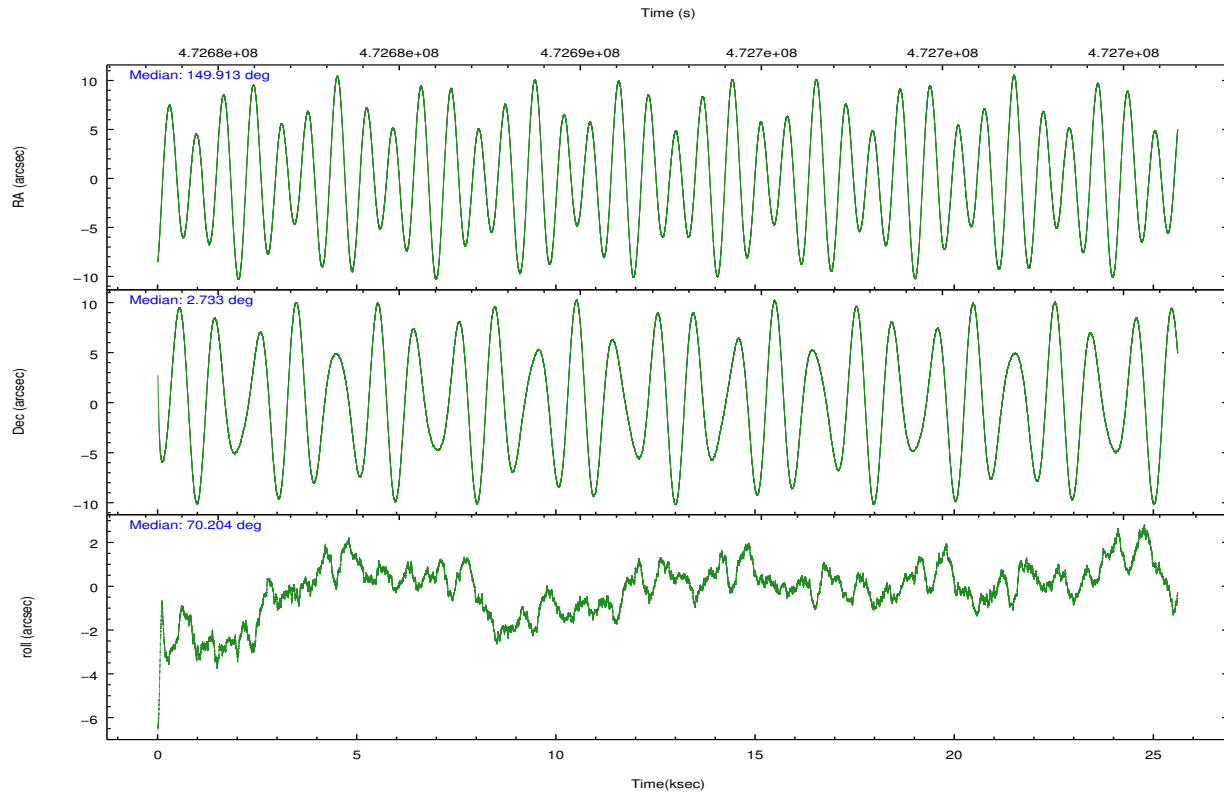
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	5530	6188	5419	5711
	4%	4%	3%	4%
grade 1 events	74	58	77	94
	0%	0%	0%	0%
grade 2 events	3920	4297	3914	3414
	3%	3%	2%	2%
grade 3 events	1723	1724	1600	1643
	1%	1%	1%	1%
grade 4 events	1627	1814	1576	1650
	1%	1%	1%	1%
grade 5 events	6321	6755	6010	7152
	5%	5%	4%	5%
grade 6 events	3260	3812	3008	3163
	2%	2%	2%	2%
grade 7 events	101732	102919	115190	109055
	81%	80%	84%	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	149.9134186228104	Subarray requested	NONE	NONE
[deg] Pointing Dec	2.705789	2.732845944936868	Alternating exposures requested	N	N
[deg] Pointing Roll	70.000305	70.20922815458921	[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)	472679760.184000	472678506.2532			
Observation start date	2012-12-23T19:54:53	2012-12-23T19:35:06			
[s] Observation end time (MET)	472705226.184000	472705463.24215			
Observation end date	2012-12-24T02:59:19	2012-12-24T03:04:23			
Read mode	TIMED	TIMED			

2.3 Aspect



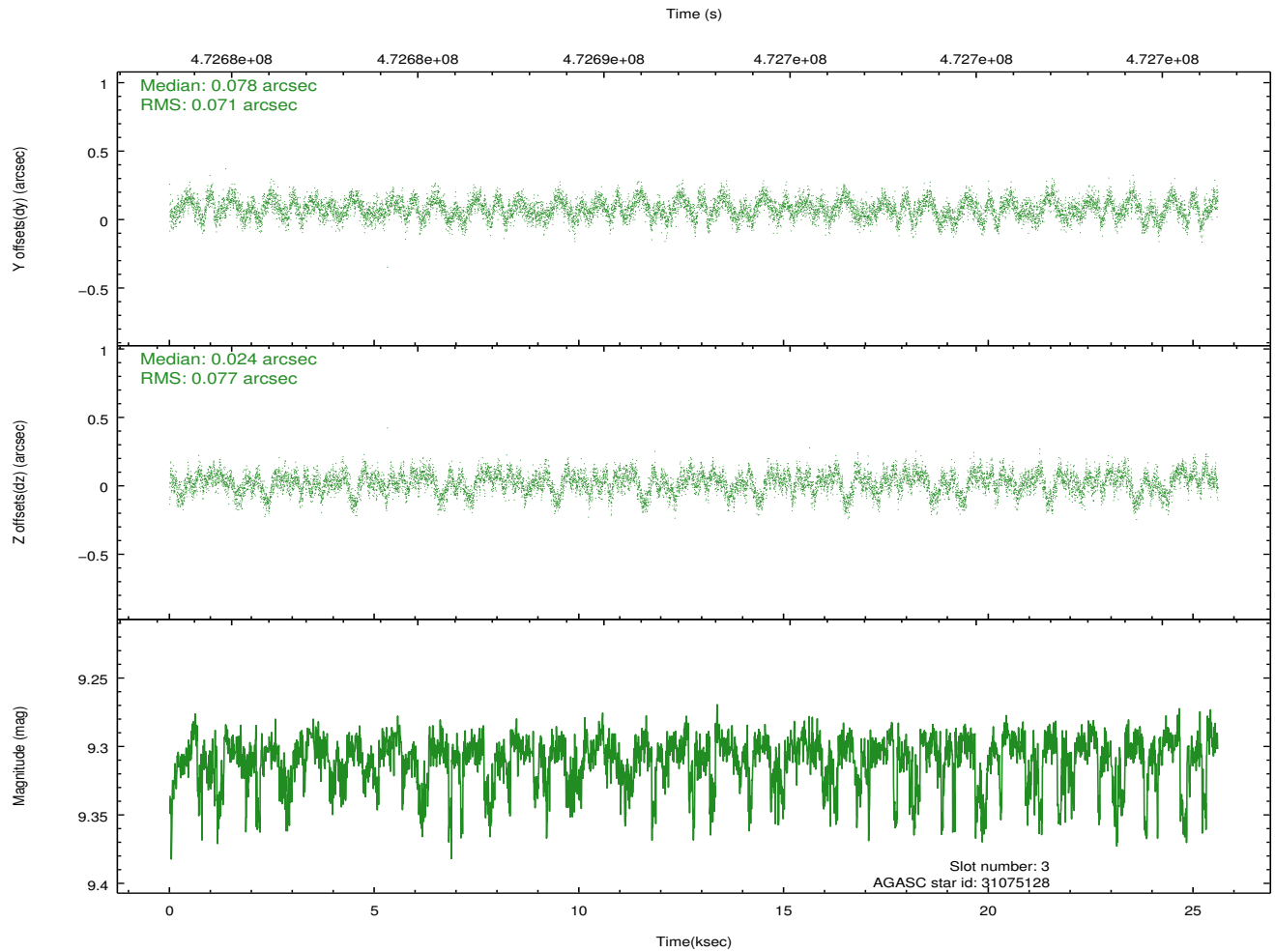
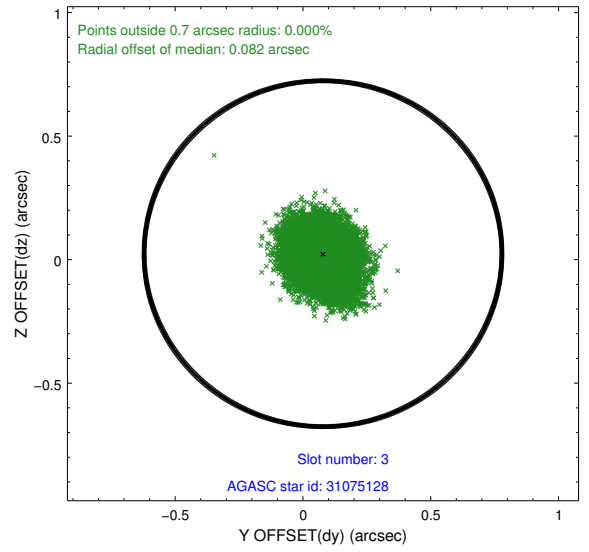
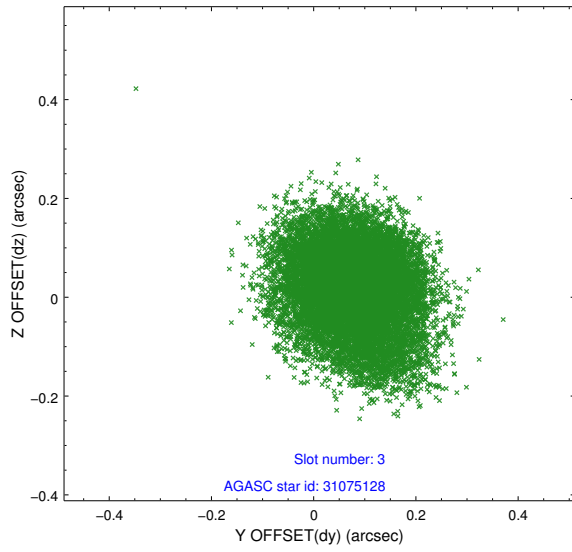


Slot Statistics

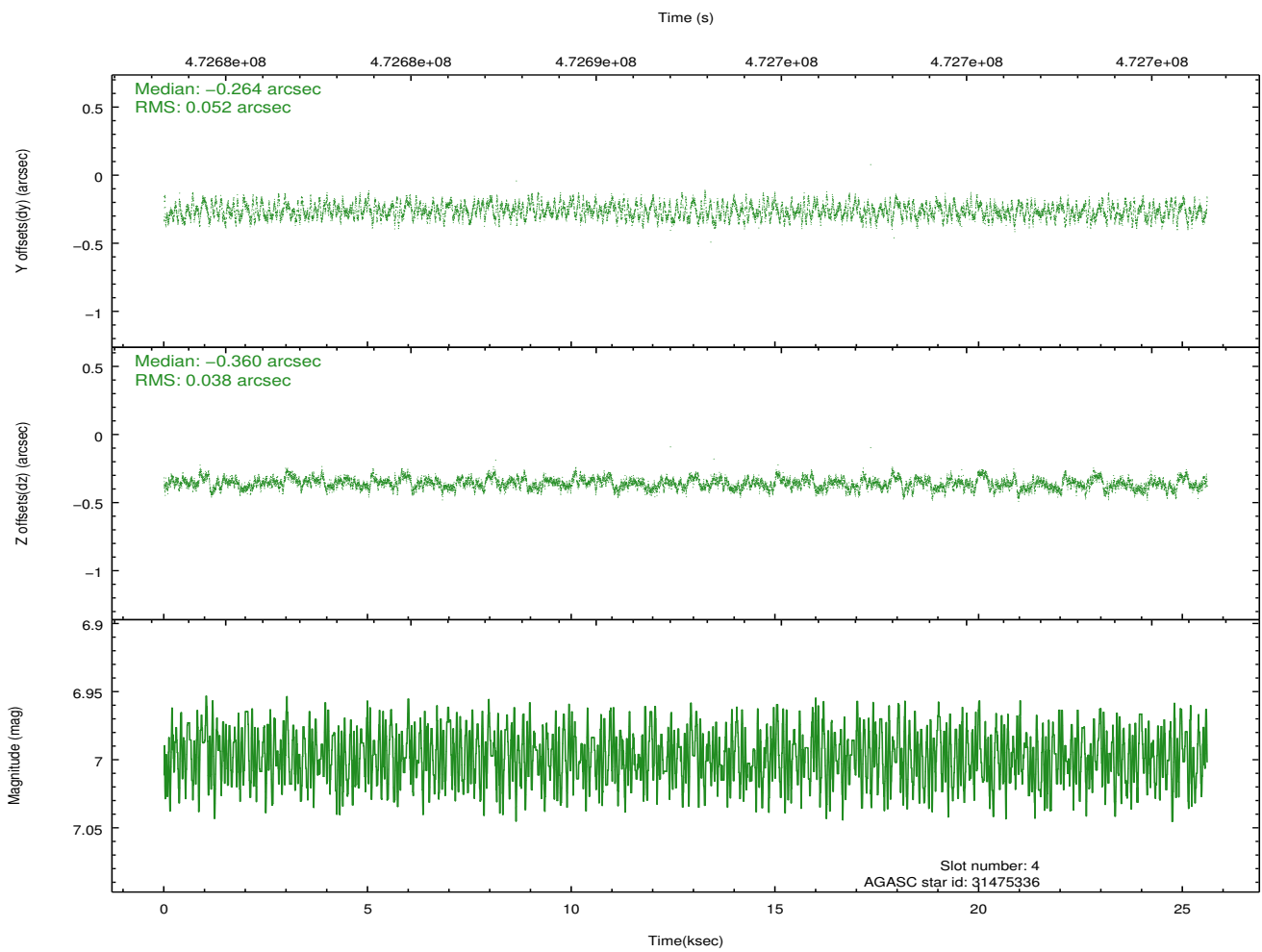
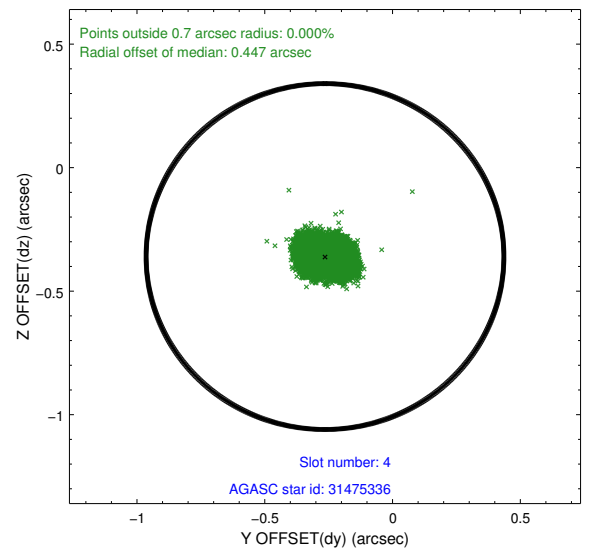
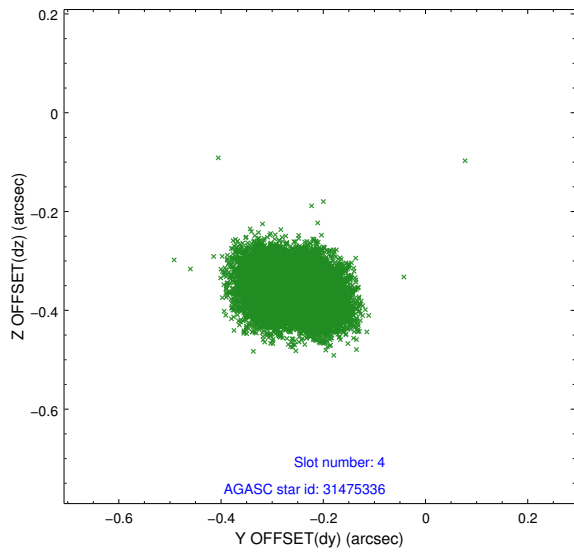
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.15	6245	0.060	-0.031	0.030	0.038	0.000000	0.000000	928.63	-836.52
1	FID		ACIS-I-5	7.14	6245	-0.210	0.064	0.022	0.031	0.000000	0.000000	-1819.71	1060.99
2	FID		ACIS-I-6	7.14	6245	0.060	0.040	0.012	0.024	0.000000	0.000000	394.03	1705.61
3	GUIDE	used	31075128	9.31	12484	0.078	0.024	0.112	0.180	149.584516	2.364347	-1565.40	708.16
4	GUIDE	used	31475336	7.00	12489	-0.264	-0.360	0.070	0.110	149.929497	3.384805	2310.48	799.48
5	GUIDE	used	31983336	8.58	12484	0.398	0.402	0.091	0.143	150.429924	2.291234	-771.72	-2238.90
6	GUIDE	used	32387968	9.20	12389	-0.020	0.094	0.138	0.232	150.106347	3.119099	1629.63	-125.88
7	GUIDE	used	31465320	9.66	12399	-0.199	-0.134	0.145	0.224	149.742867	3.457799	2328.38	1518.87

2.4 Star Slots

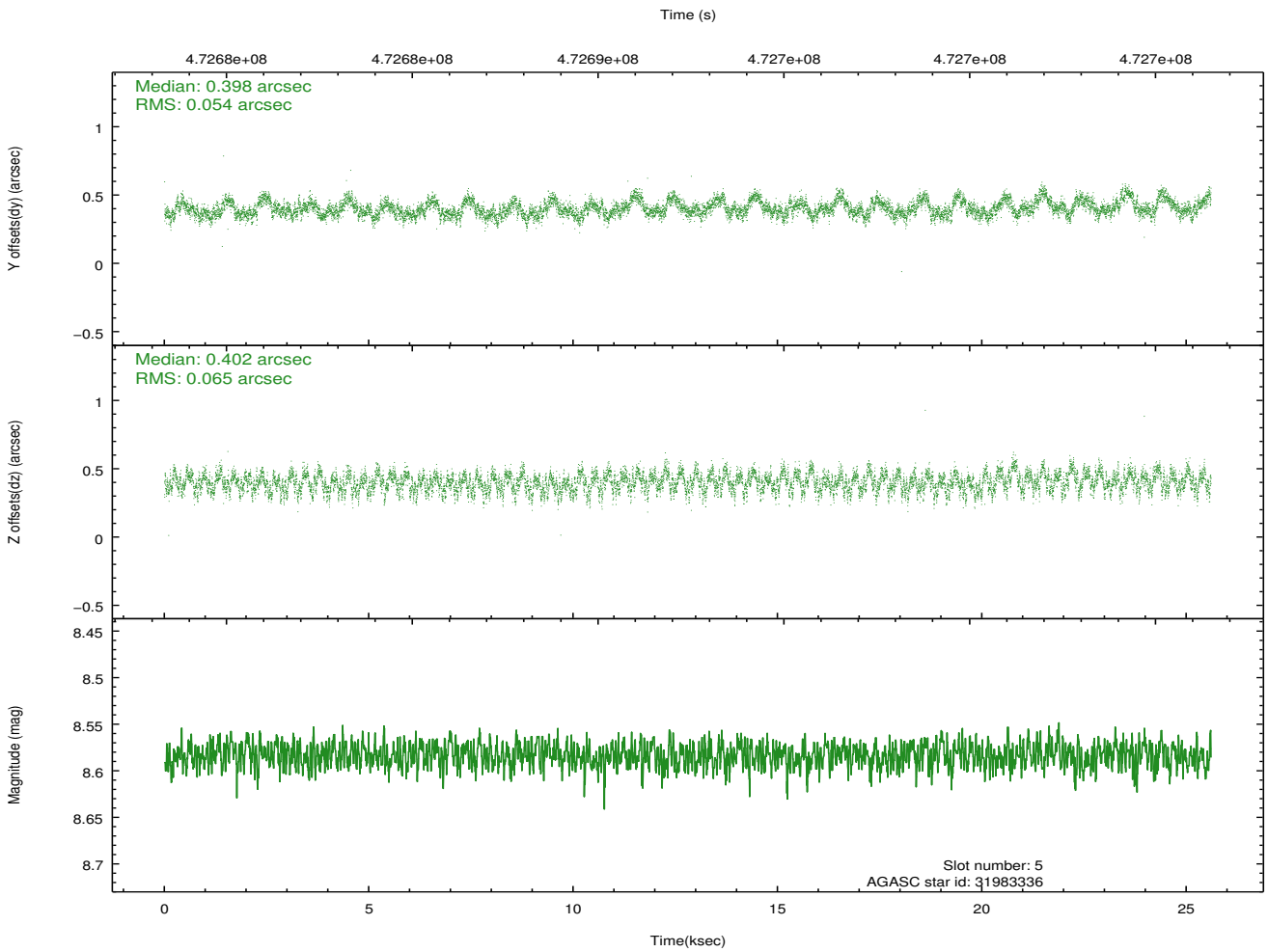
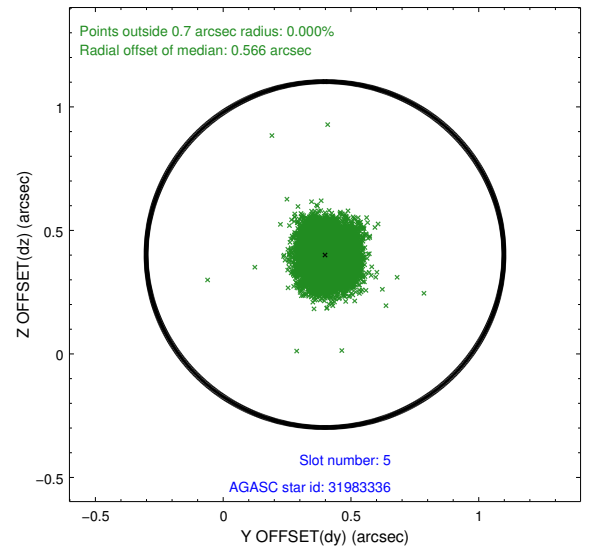
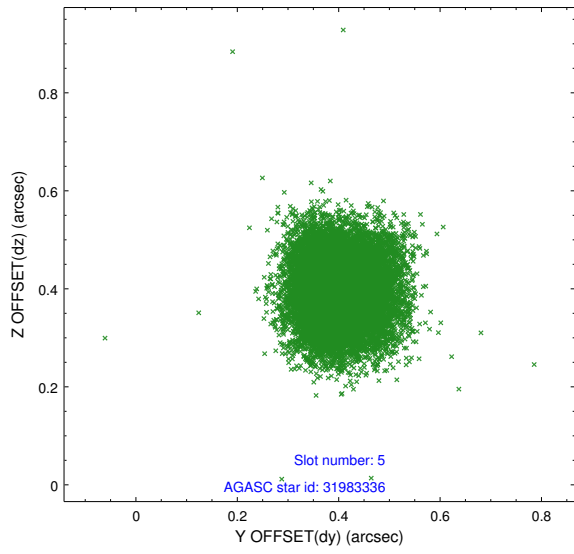
2.4.1 Slot 3



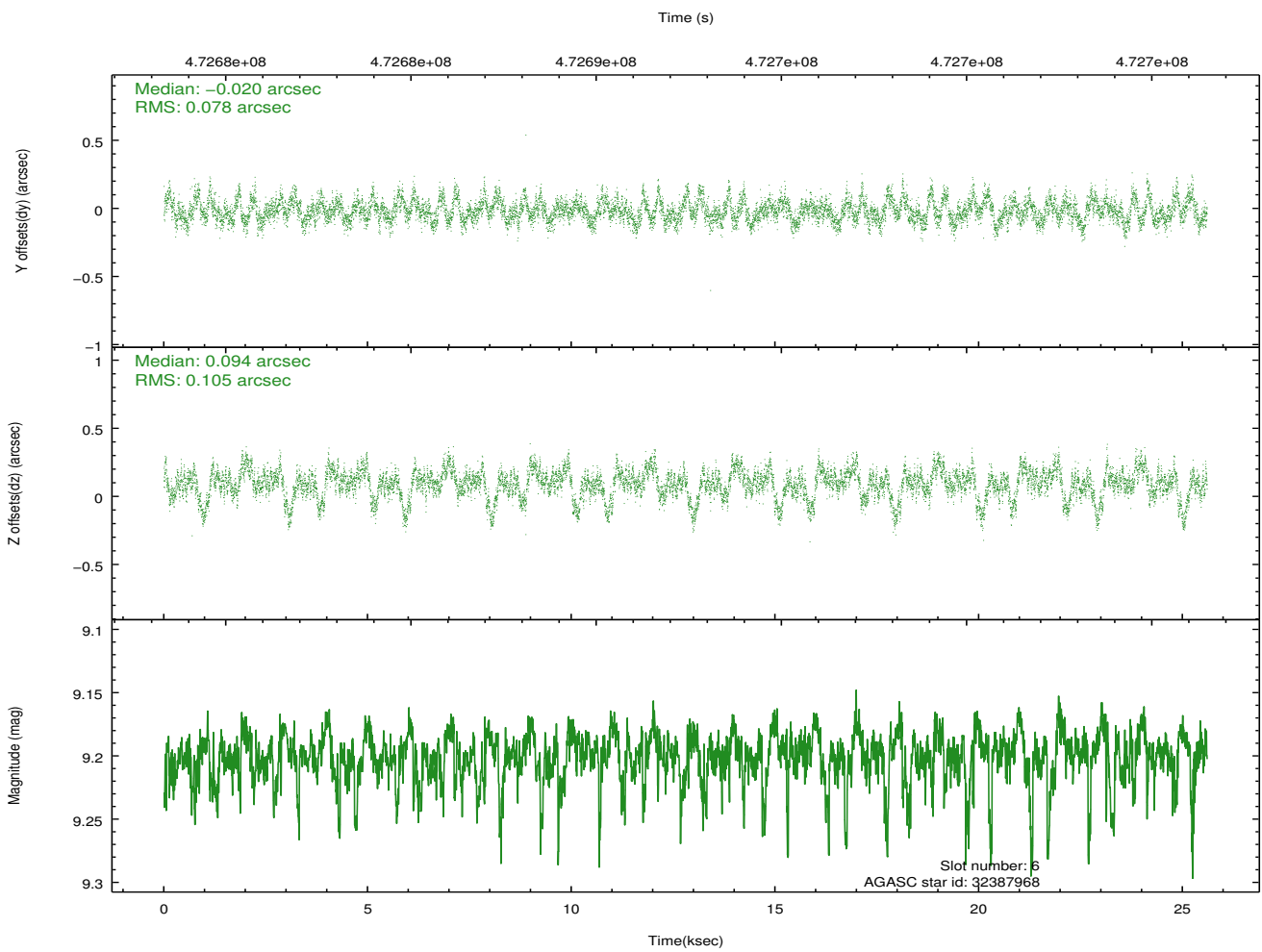
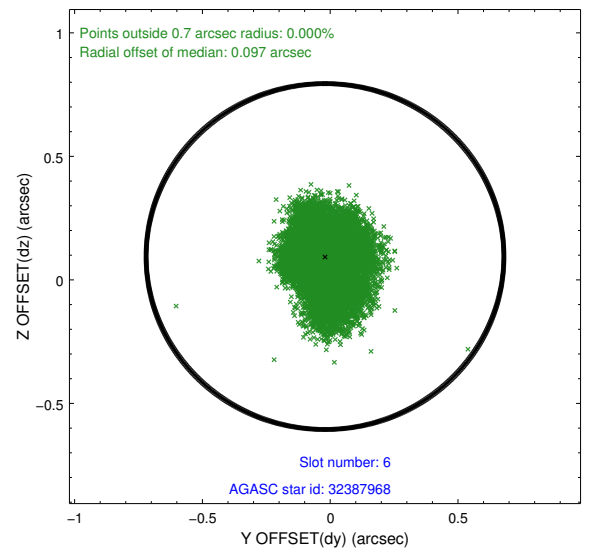
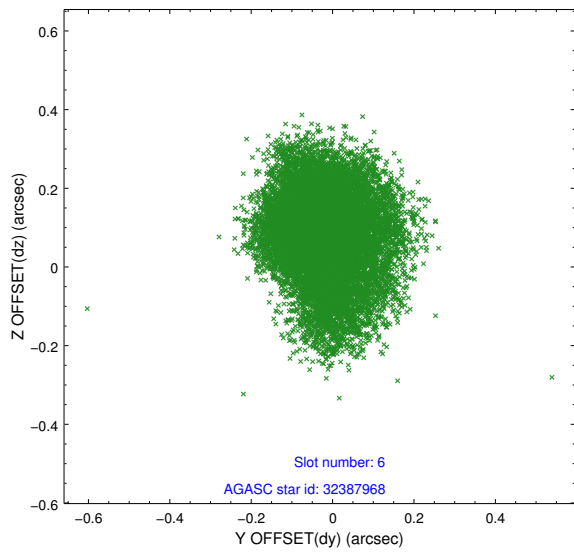
2.4.2 Slot 4



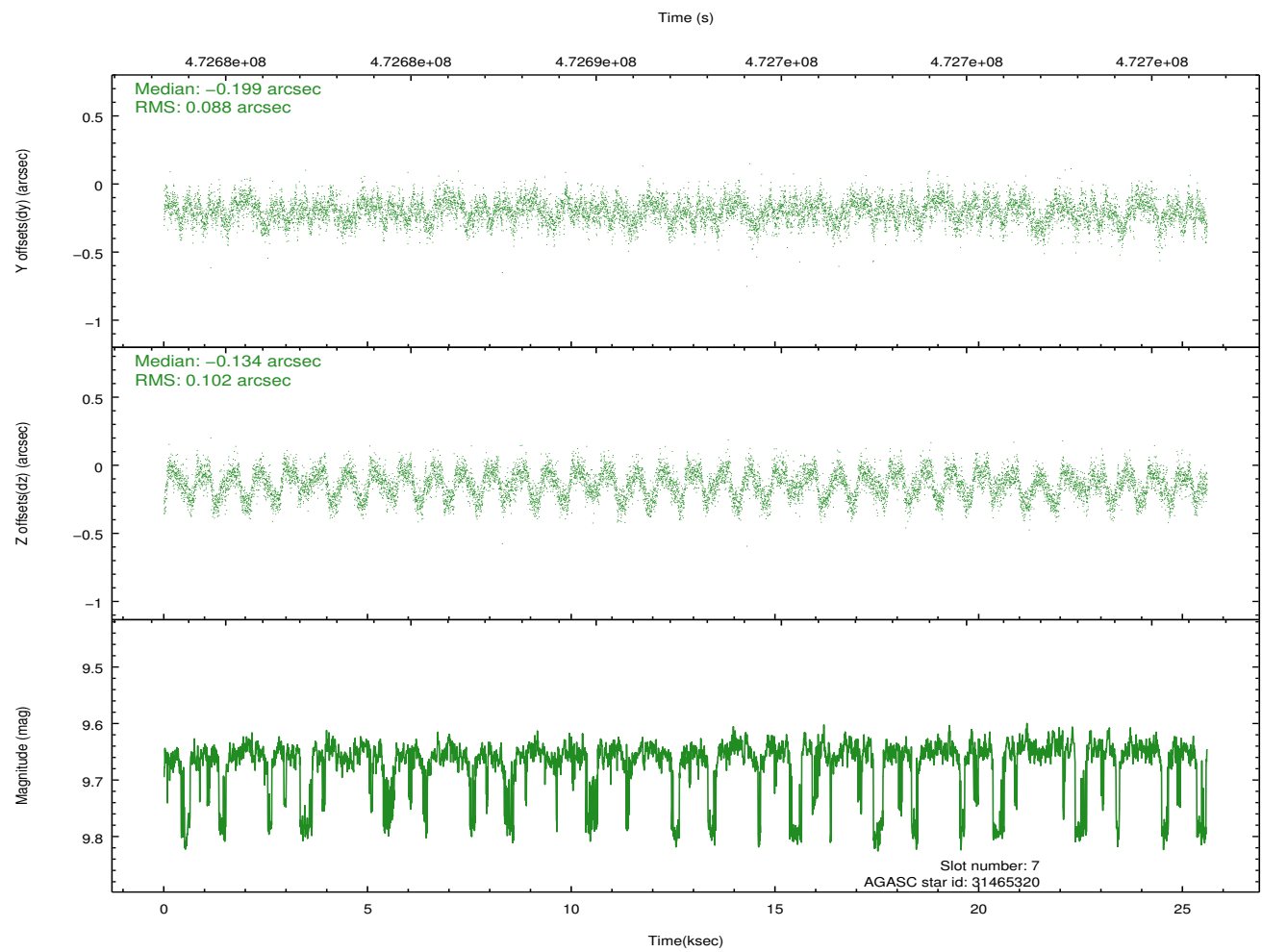
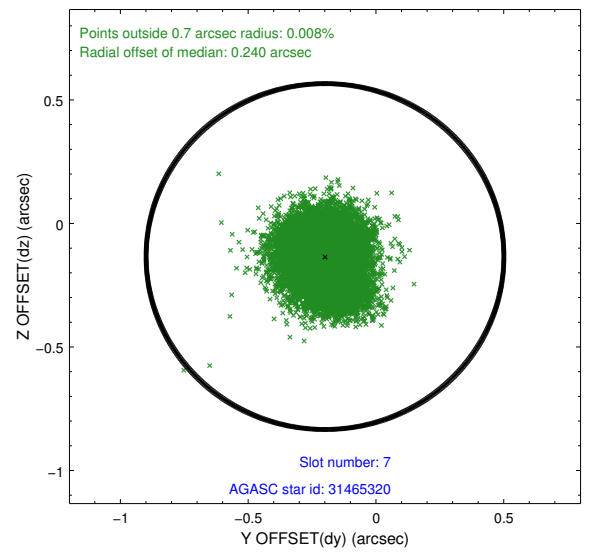
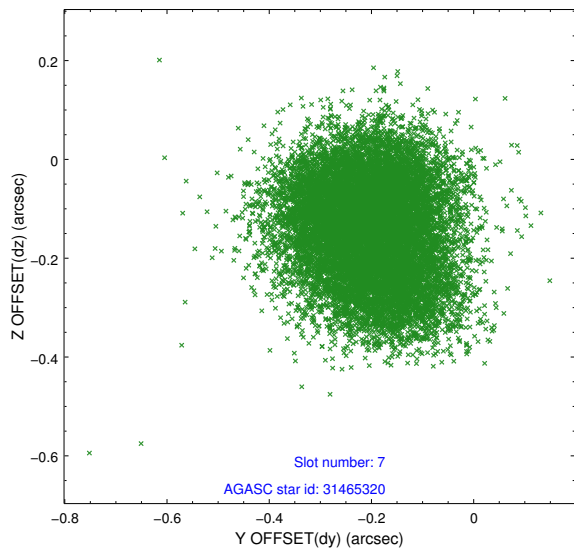
2.4.3 Slot 5



2.4.4 Slot 6

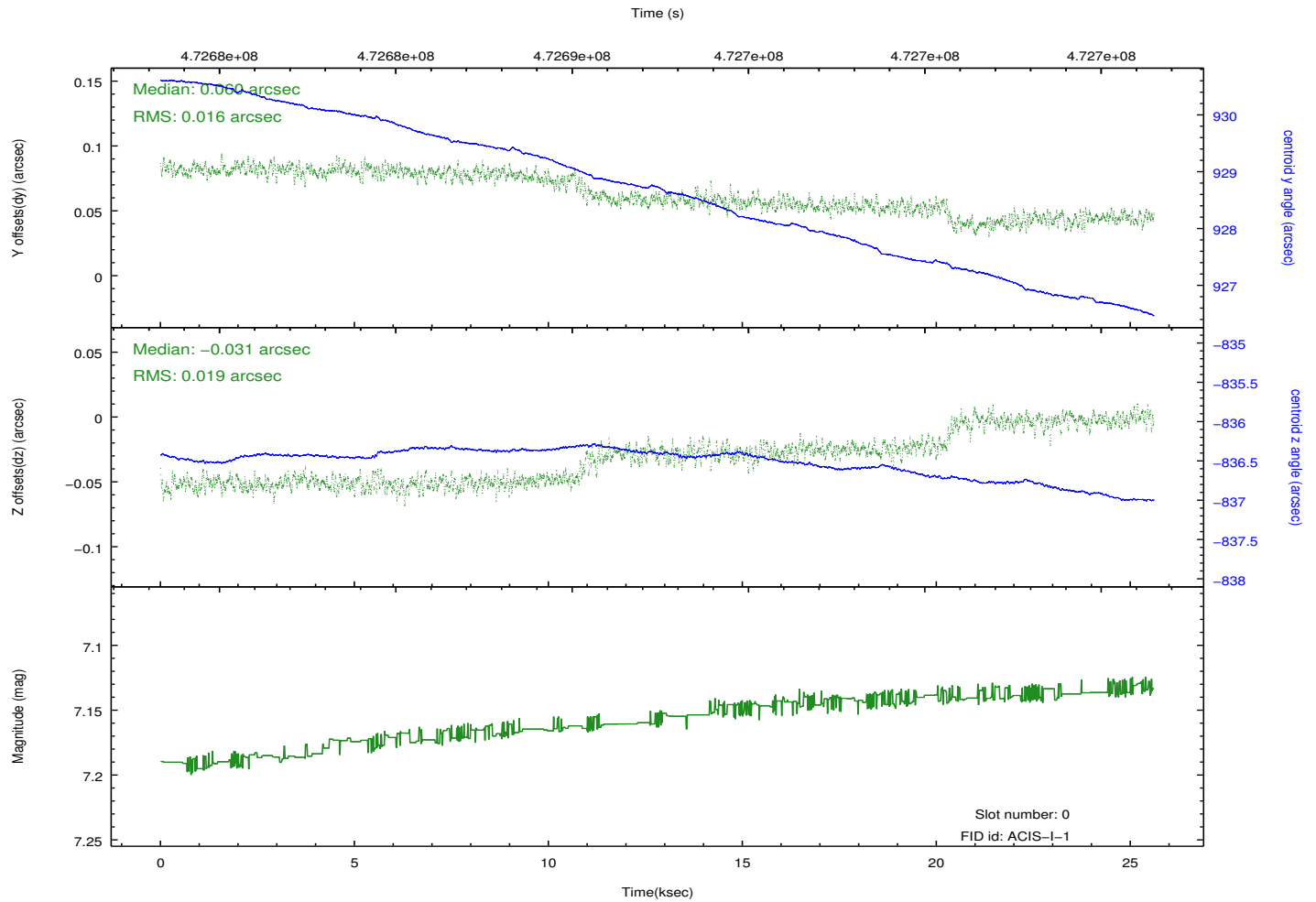
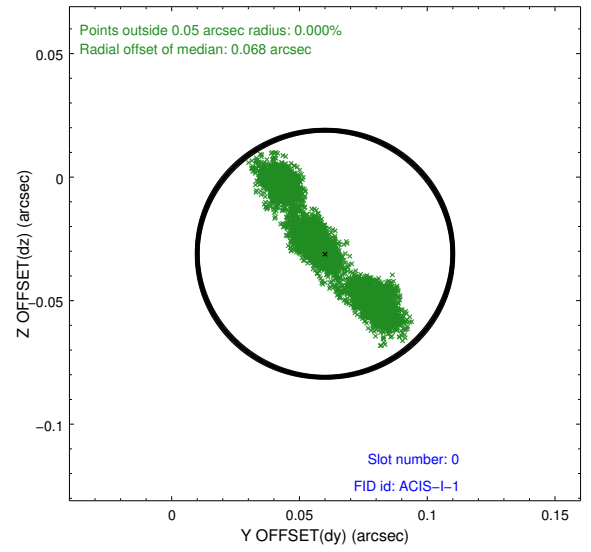
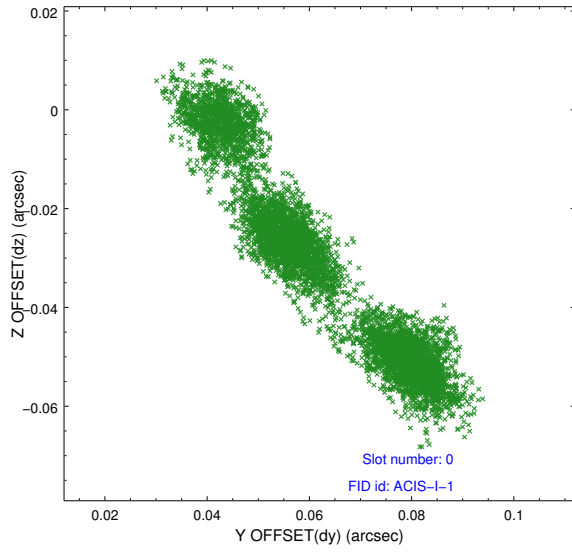


2.4.5 Slot 7

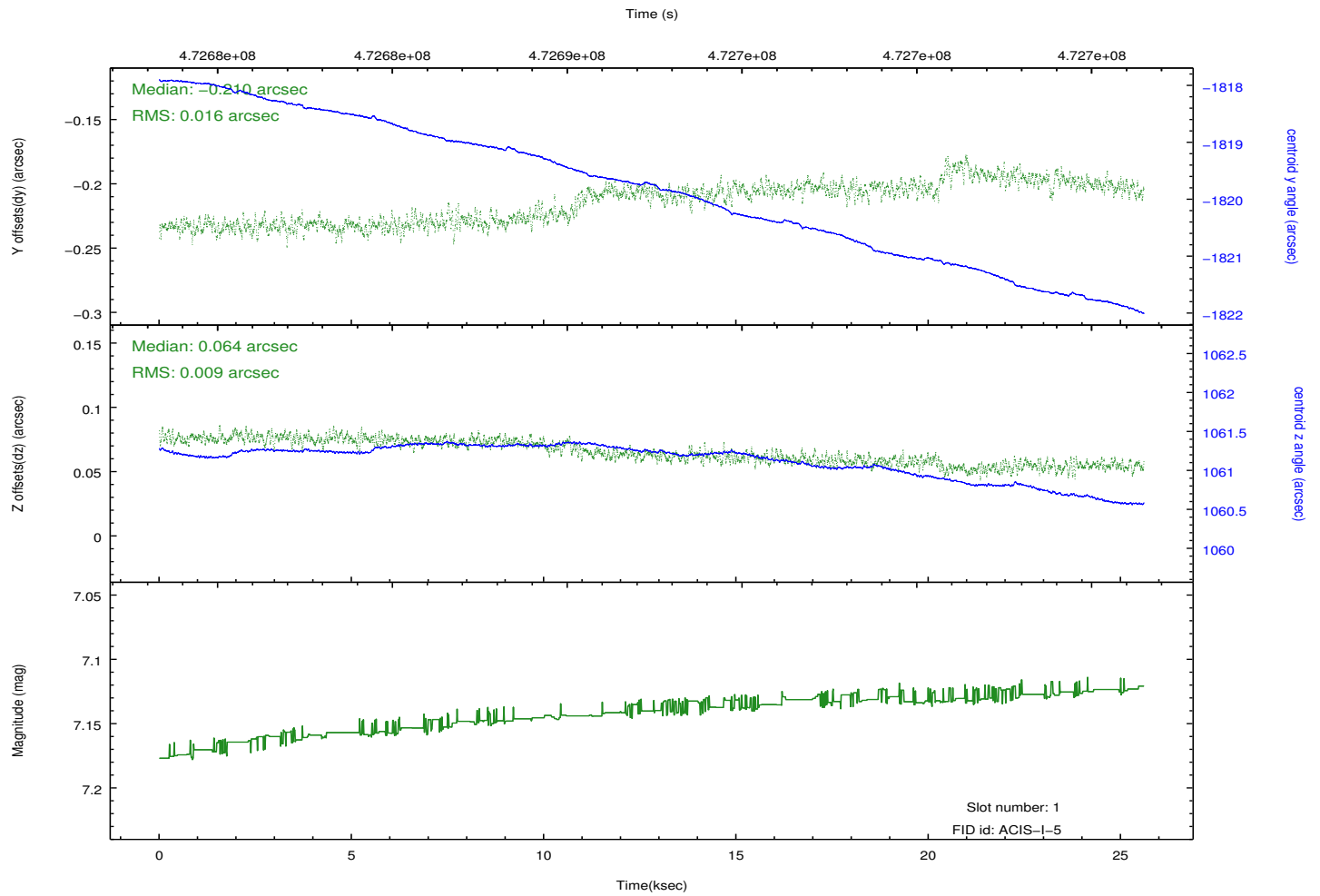
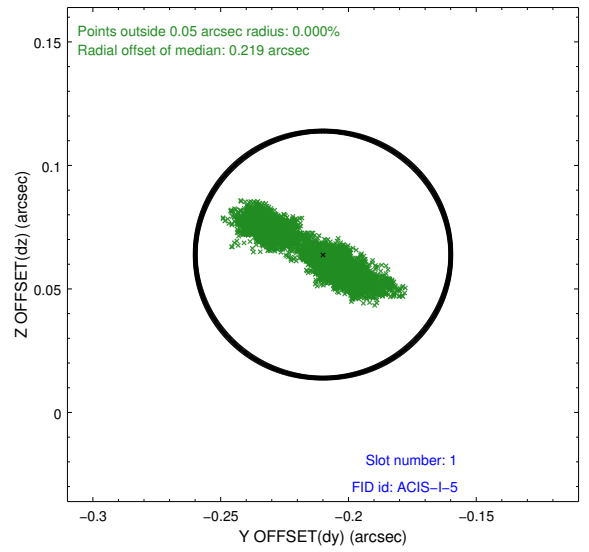
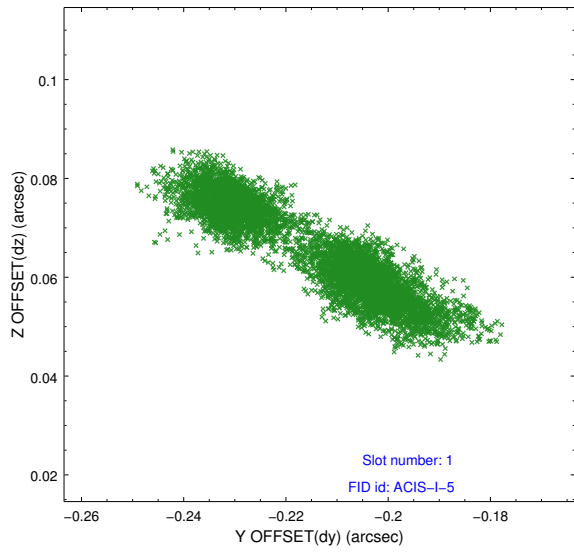


2.5 FID Slots

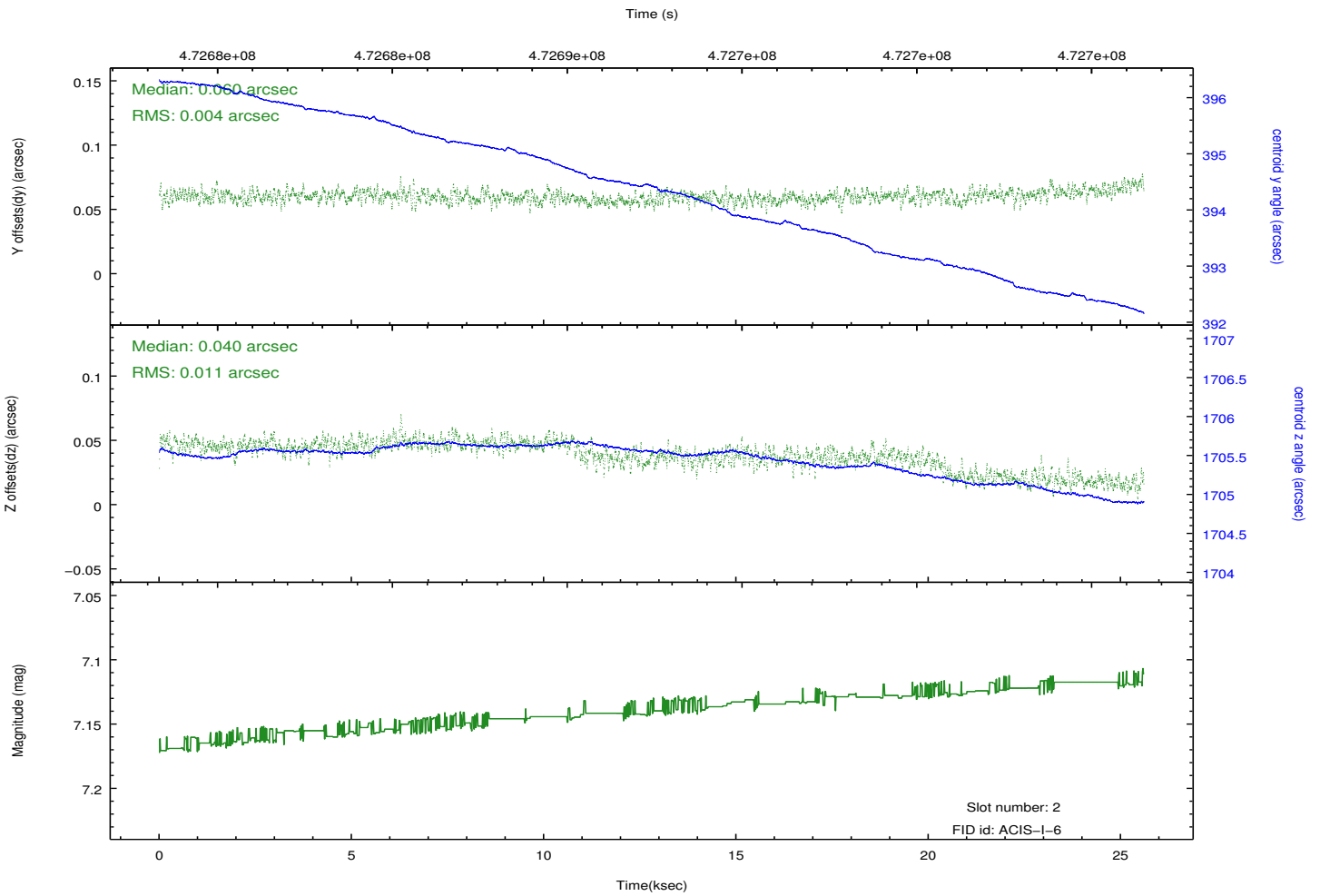
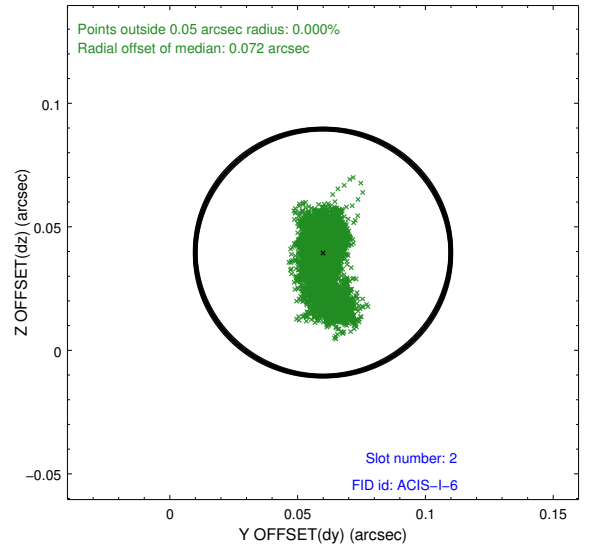
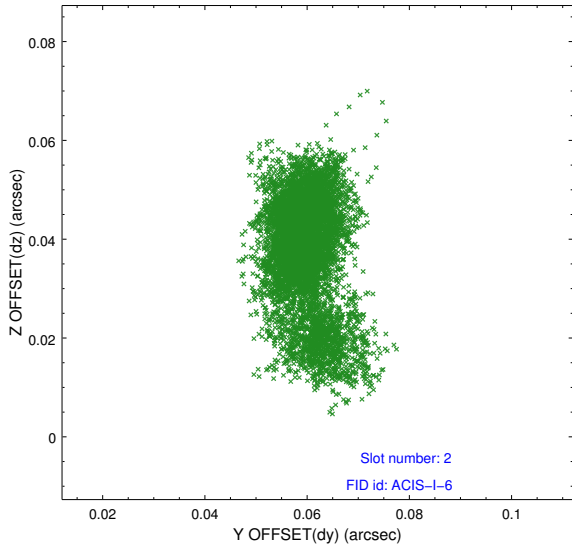
2.5.1 Slot 0



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	25.553300196528

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.