

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 15023 - L2 Version 2
Chandra X-Ray Center

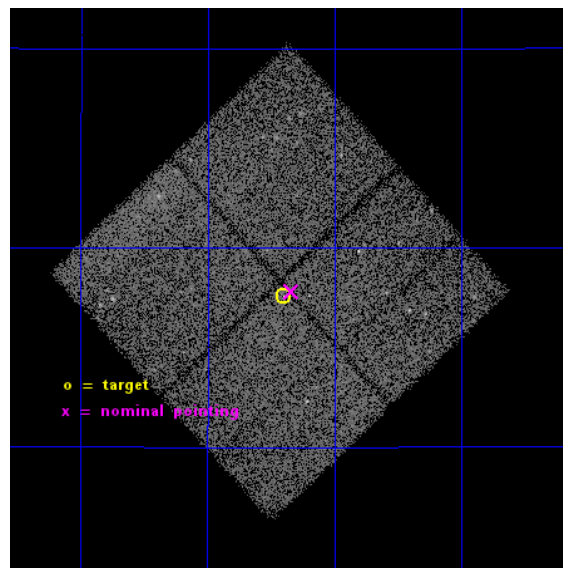
L2 Processing Date : Dec 10 2014

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1 Front

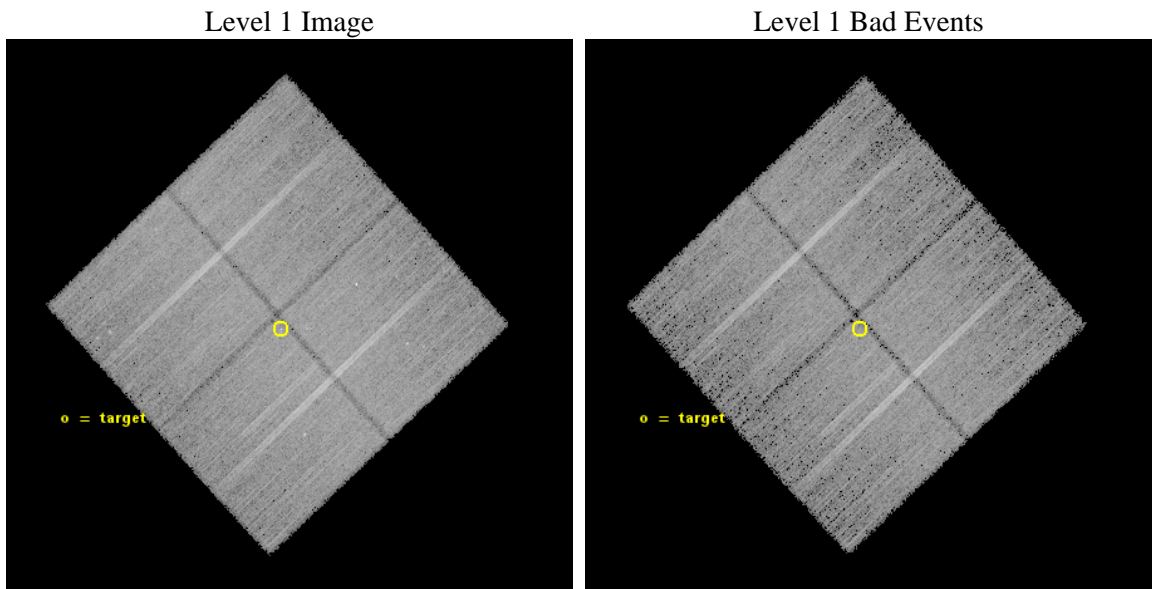
seq_num	702831	Sequence number
obs_id	15023	Observation id
title	Feedback in 3C 277.3	Proposal title
observer	Dr Andrew Young	Principal investigator
object	3C 277.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	193.55	Observer's specified target RA [deg]
dec_targ	27.626111	Observer's specified target Dec [deg]
ra_nom	193.5423961041	Nominal RA [deg]
dec_nom	27.630199703409	Nominal Dec [deg]
roll_nom	137.21221488339	Nominal Roll [deg]
revision	2	Processing version of data
ontime	44084.634396791	Sum of GTIs [s]
livetime	43508.636193762	Livetime [s]
ontime0	44087.652316988	Sum of GTIs [s]
ontime1	44090.83440733	Sum of GTIs [s]
ontime2	44087.734407008	Sum of GTIs [s]
ontime3	44084.634396791	Sum of GTIs [s]
l2events	84361	Number of level 2 events



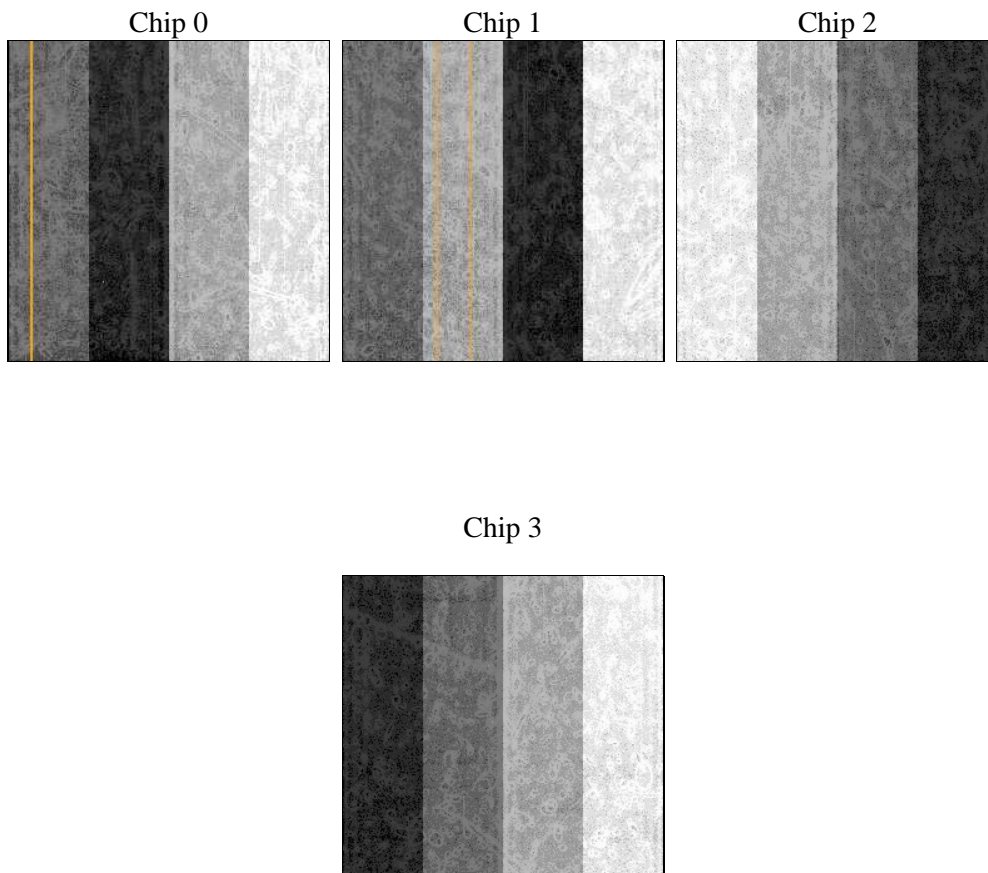
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	44000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	44084.634396791	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	44087.652316988	Sum of GTIs [s]
date	2014-12-10T23:15:35	Date and time of file creation	ontime1	44090.83440733	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	44087.734407008	Sum of GTIs [s]
			ontime3	44084.634396791	Sum of GTIs [s]
			l1events	752900	Number of level 1 events

2.1.4 Events

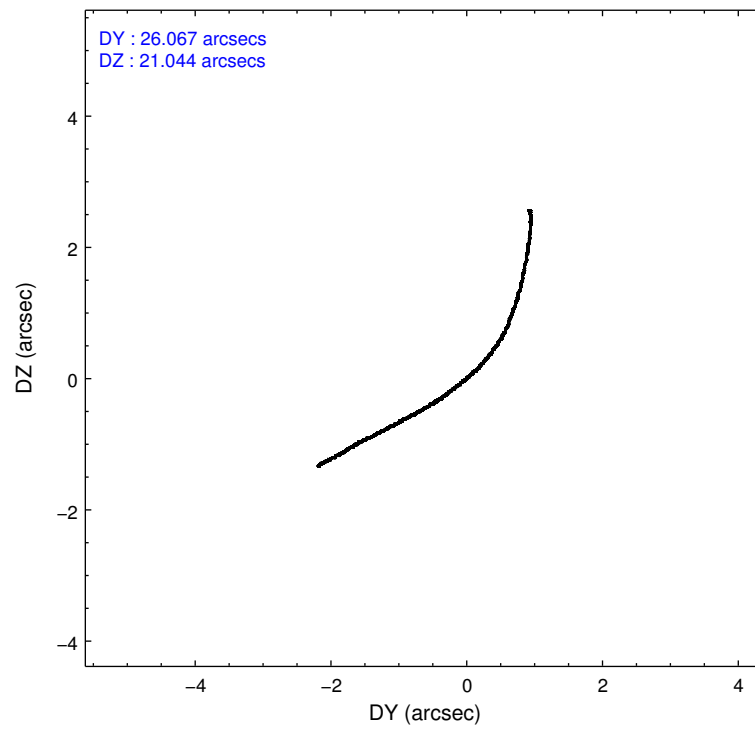
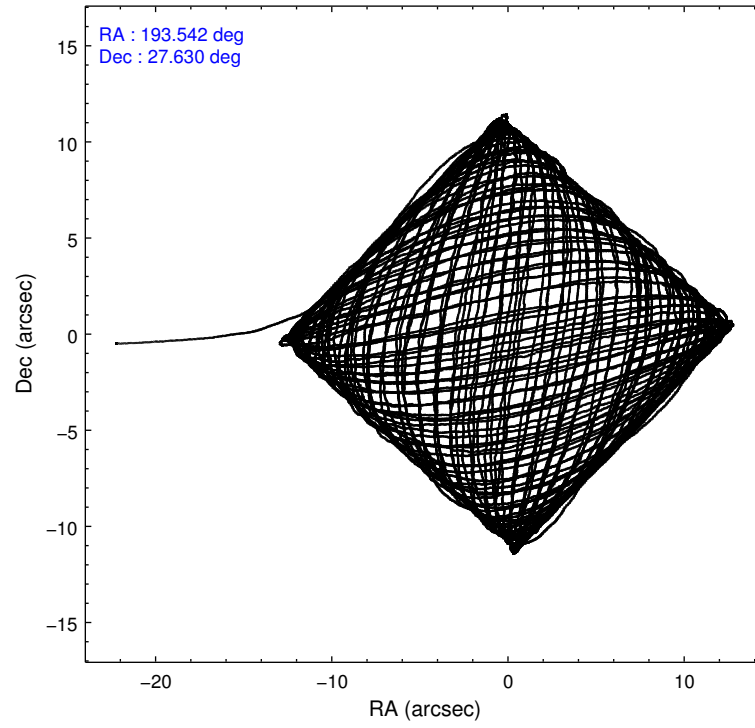
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	182044	185882	194698	190276
rejected events	157719	158699	169710	166881
rejected %	86%	85%	87%	87%

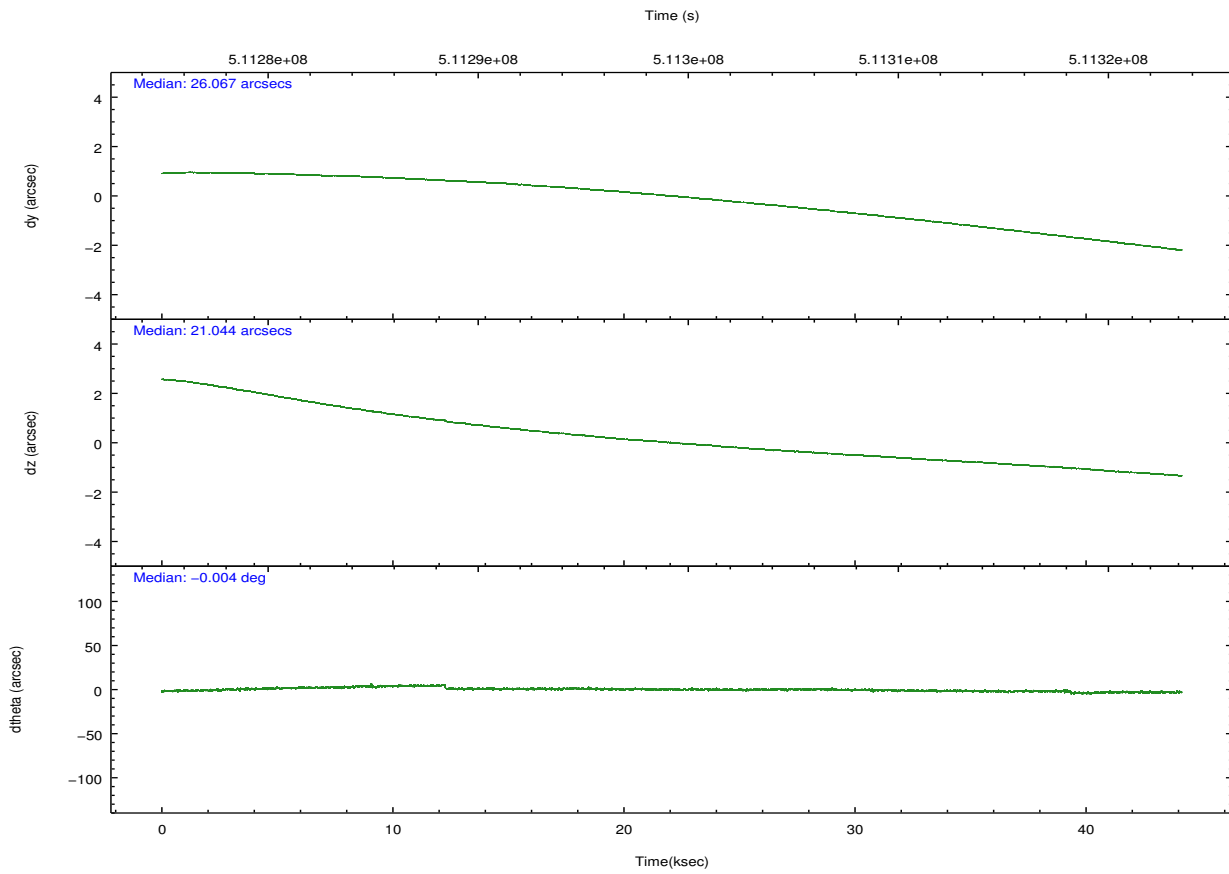
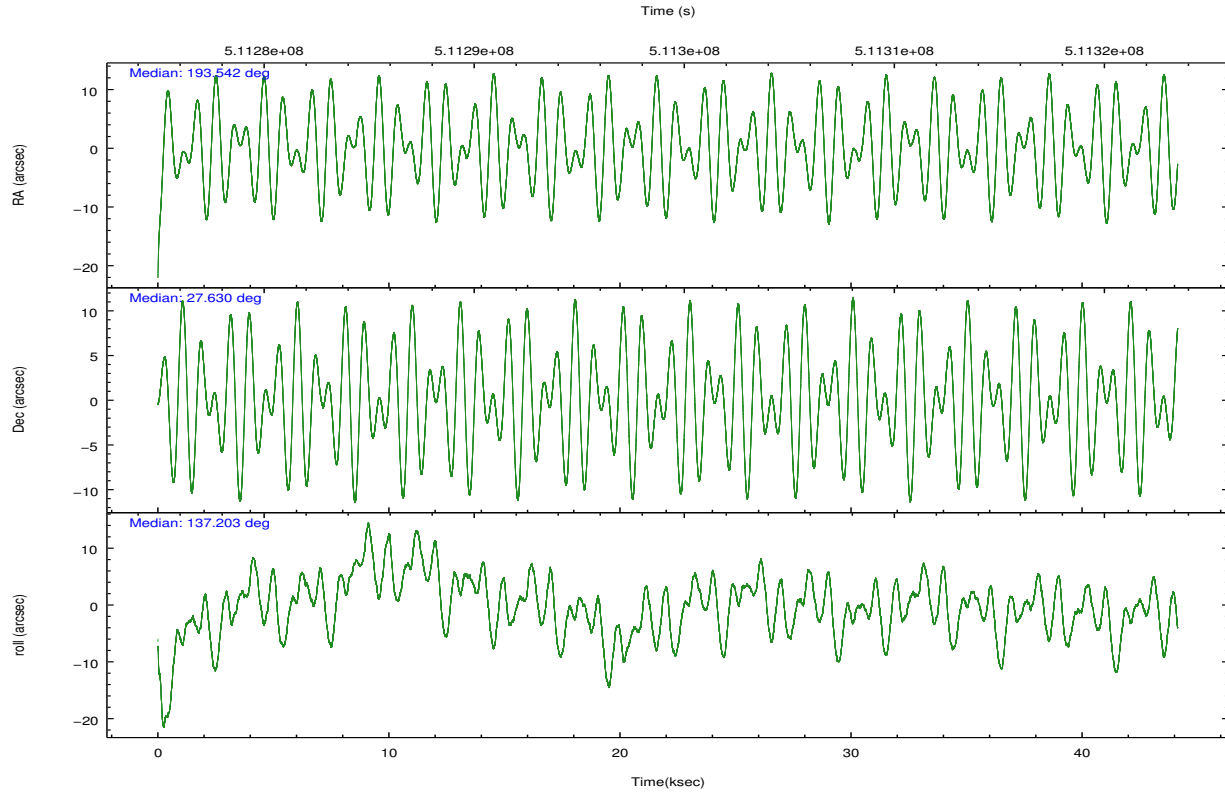
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	8576	9909	9497	8396
	4%	5%	4%	4%
grade 1 events	125	109	105	121
	0%	0%	0%	0%
grade 2 events	5787	6359	5926	5113
	3%	3%	3%	2%
grade 3 events	2520	2606	2467	2504
	1%	1%	1%	1%
grade 4 events	2348	2600	2458	2529
	1%	1%	1%	1%
grade 5 events	9892	10193	8930	11010
	5%	5%	4%	5%
grade 6 events	5101	5713	4643	4856
	2%	3%	2%	2%
grade 7 events	147695	148393	160672	155747
	81%	79%	82%	81%

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	193.572698	193.5423961041018	Subarray requested	NONE	NONE
[deg] Pointing Dec	27.624219	27.6301997034093	Alternating exposures requested	N	N
[deg] Pointing Roll	136.989471	137.2122148833894	[s] Primary exposure time	0.000000	3.1
[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)	511277290.184000	511276130.26862			
Observation start date	2014-03-15T13:27:03	2014-03-15T13:08:50			
[s] Observation end time (MET)	511321290.184000	511321527.00862			
Observation end date	2014-03-16T01:40:23	2014-03-16T01:45:27			
Read mode	TIMED	TIMED			

2.3 Aspect



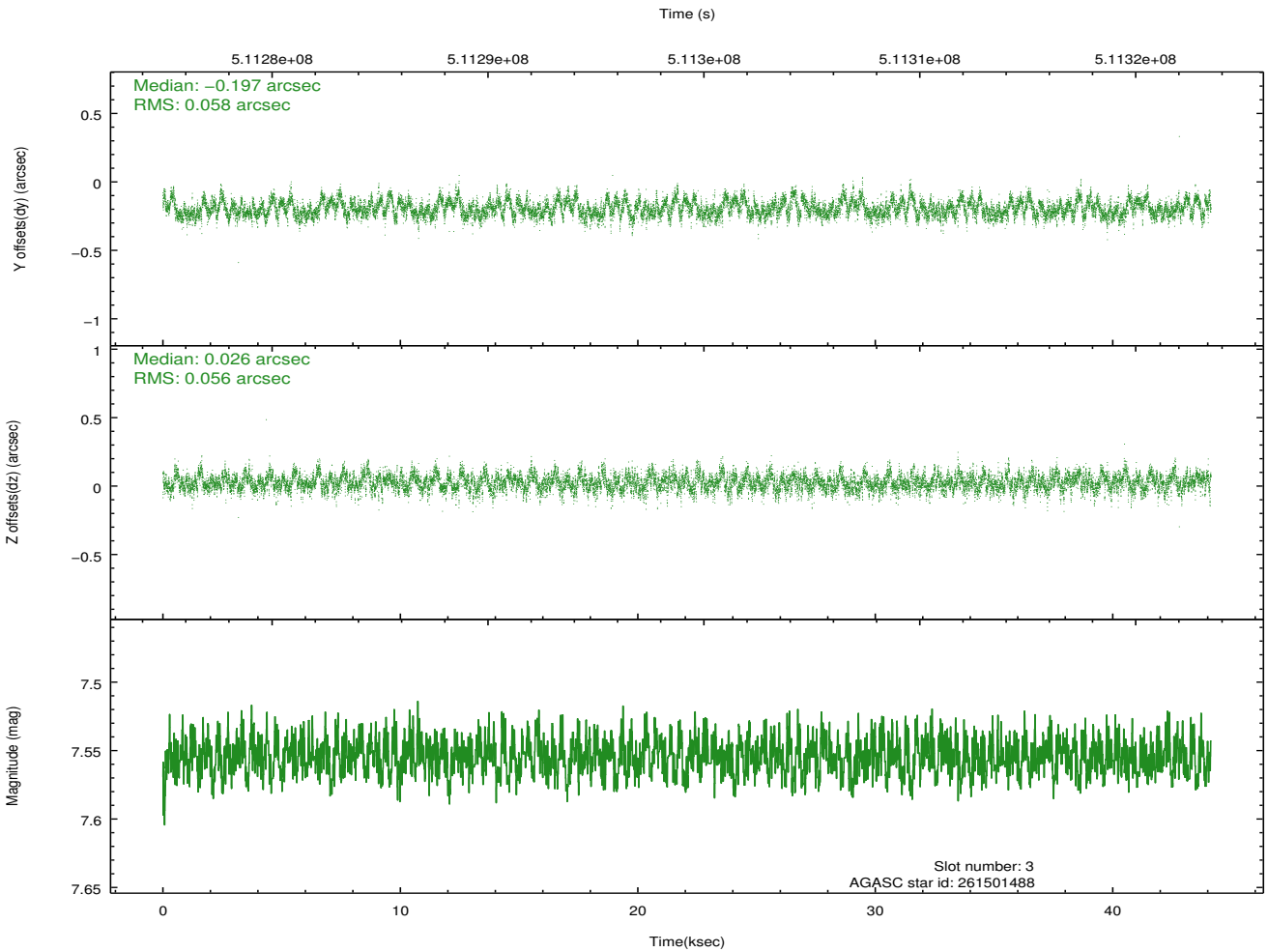
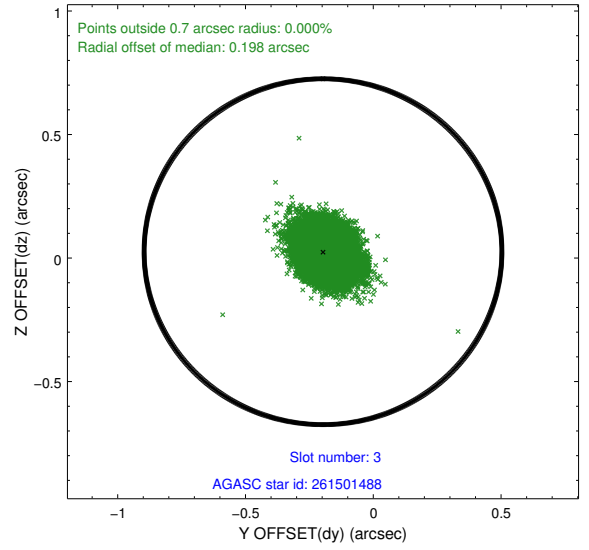
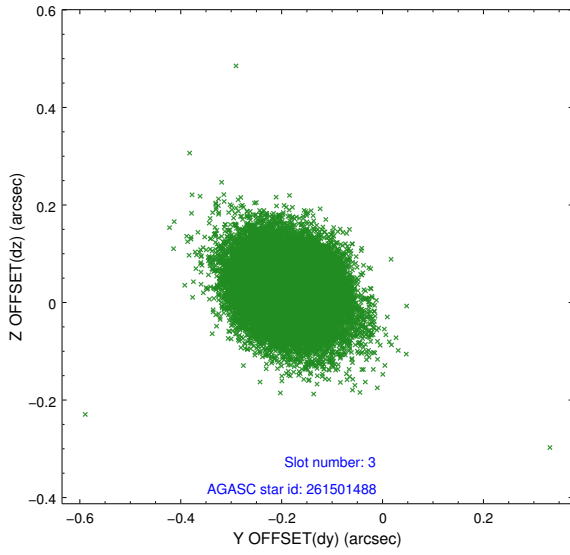


Slot Statistics

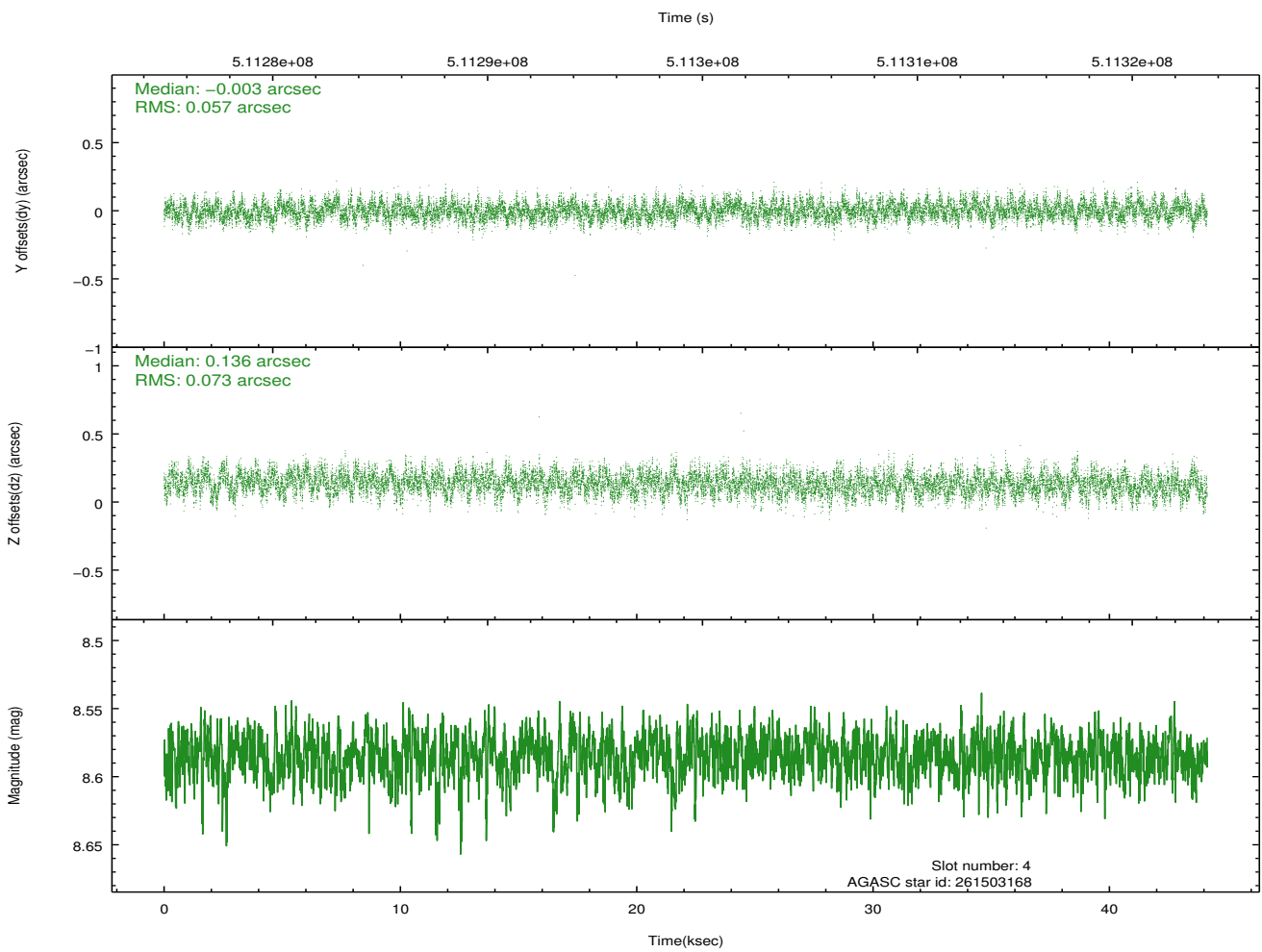
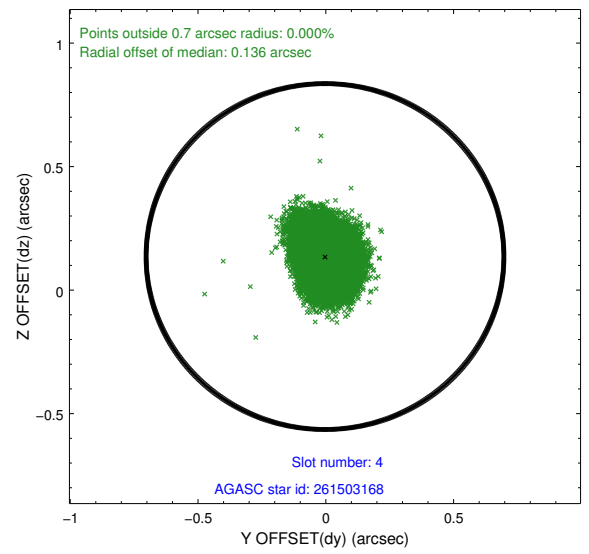
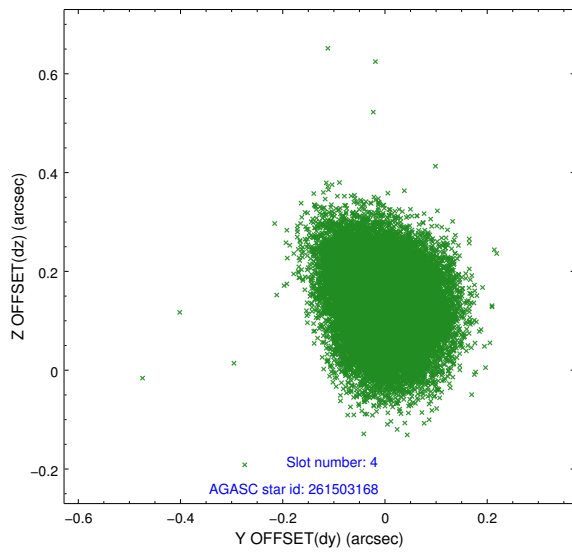
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.12	10764	-0.044	-0.023	0.027	0.057	0.000000	0.000000	913.29	-845.02
1	FID		ACIS-I-4	7.09	10764	0.308	0.058	0.033	0.045	0.000000	0.000000	2133.63	1054.89
2	FID		ACIS-I-5	7.11	10766	-0.364	0.035	0.024	0.035	0.000000	0.000000	-1835.09	1052.60
3	GUIDE	used	261501488	7.55	21530	-0.197	0.026	0.085	0.137	193.575606	28.449700	2021.00	-2178.84
4	GUIDE	used	261503168	8.58	21522	-0.003	0.136	0.099	0.160	193.765545	28.234101	1051.41	-2022.67
5	GUIDE	used	261503592	7.87	21527	0.229	0.091	0.097	0.149	193.784432	27.766358	-143.56	-833.65
6	GUIDE	used	261505808	9.36	21512	0.119	0.241	0.151	0.238	193.710324	27.913269	390.50	-1059.29
7	GUIDE	used	261507448	9.51	21510	-0.154	-0.488	0.188	0.303	192.816574	27.341077	1077.97	2389.16

2.4 Star Slots

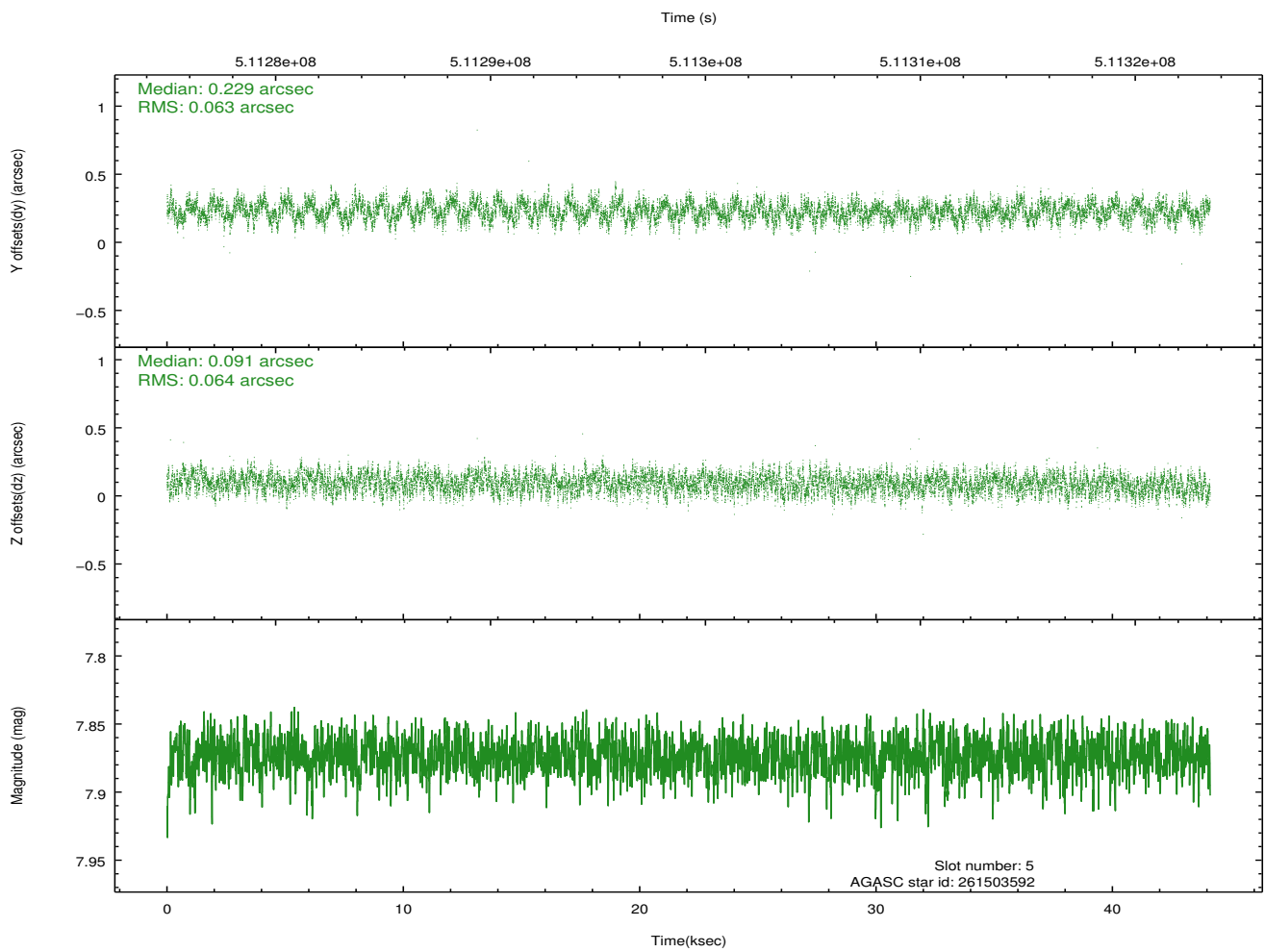
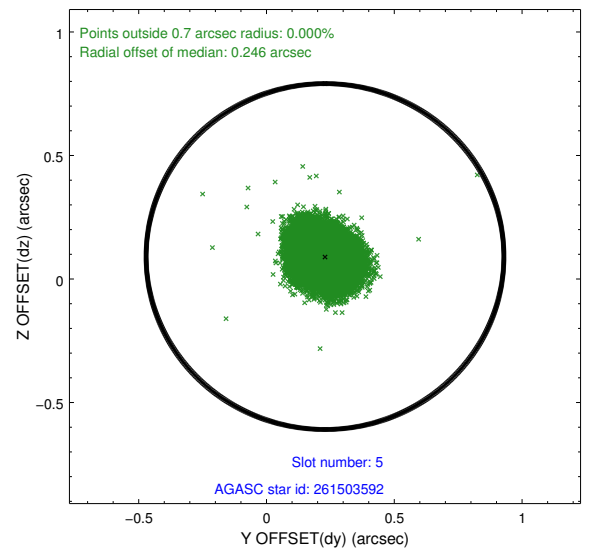
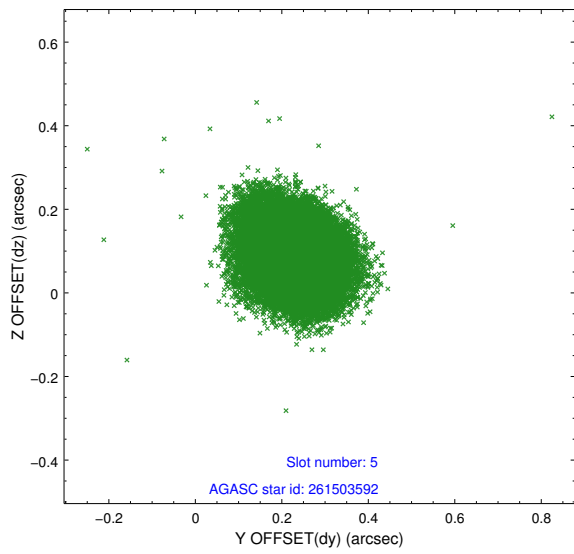
2.4.1 Slot 3



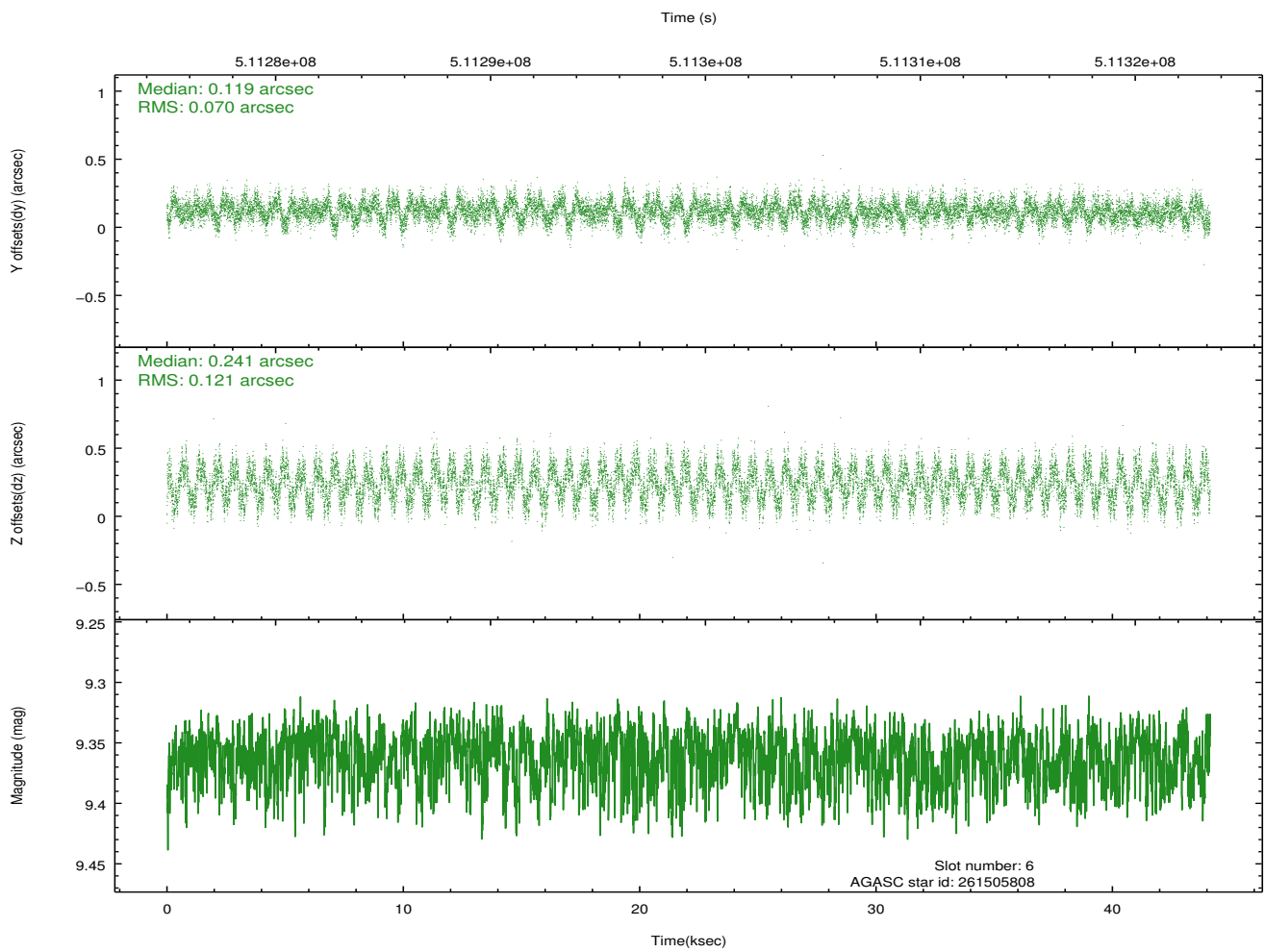
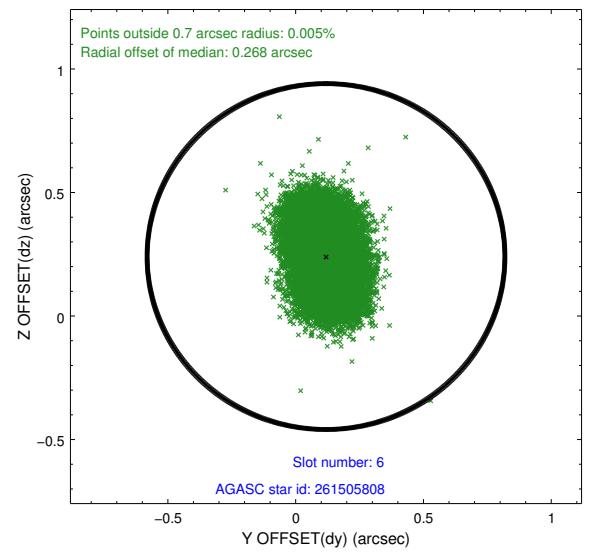
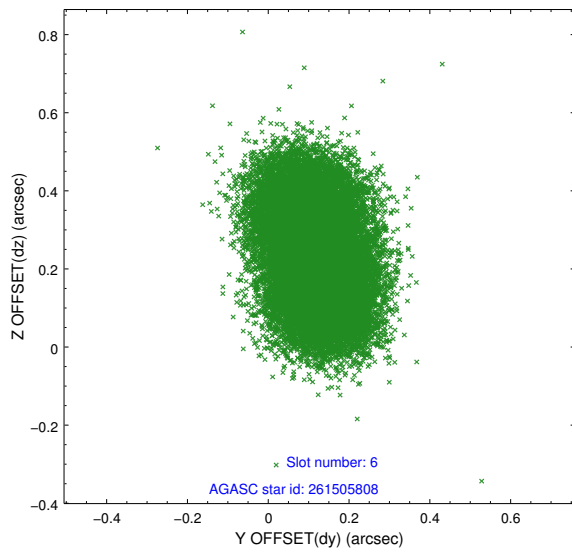
2.4.2 Slot 4



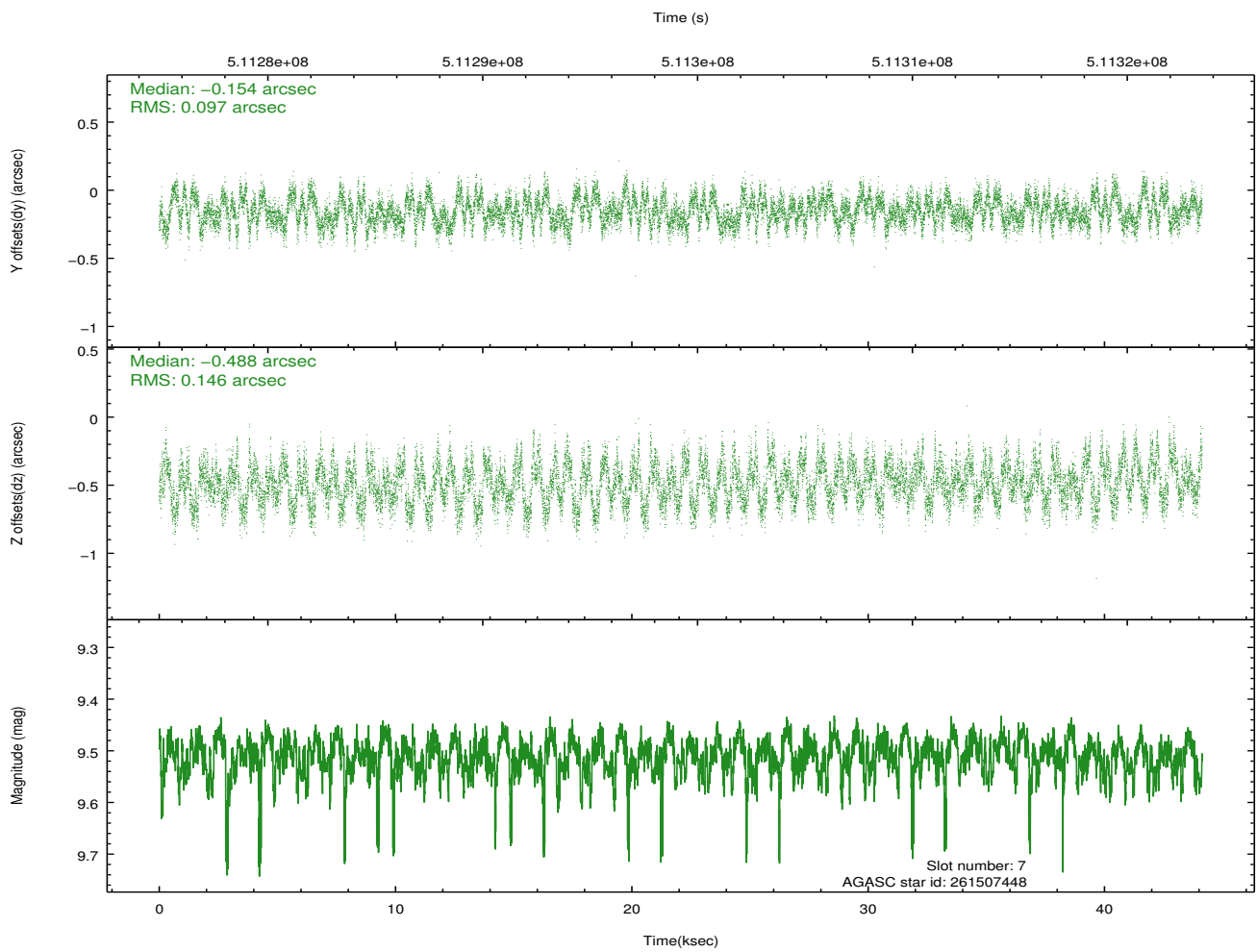
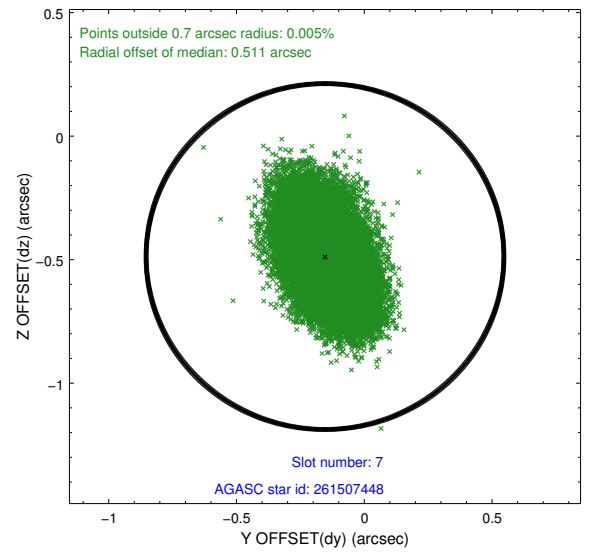
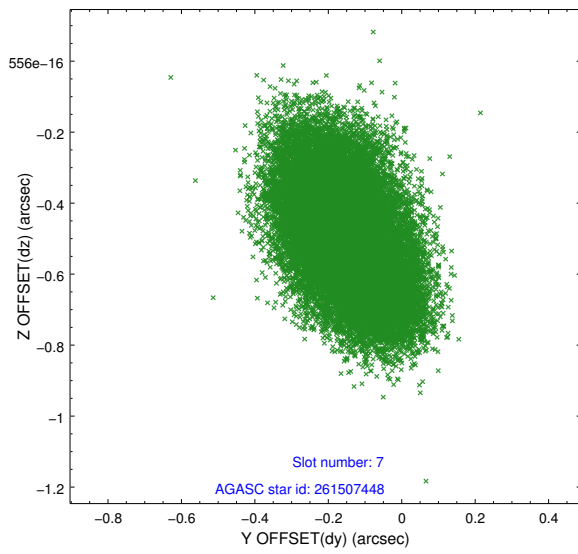
2.4.3 Slot 5



2.4.4 Slot 6

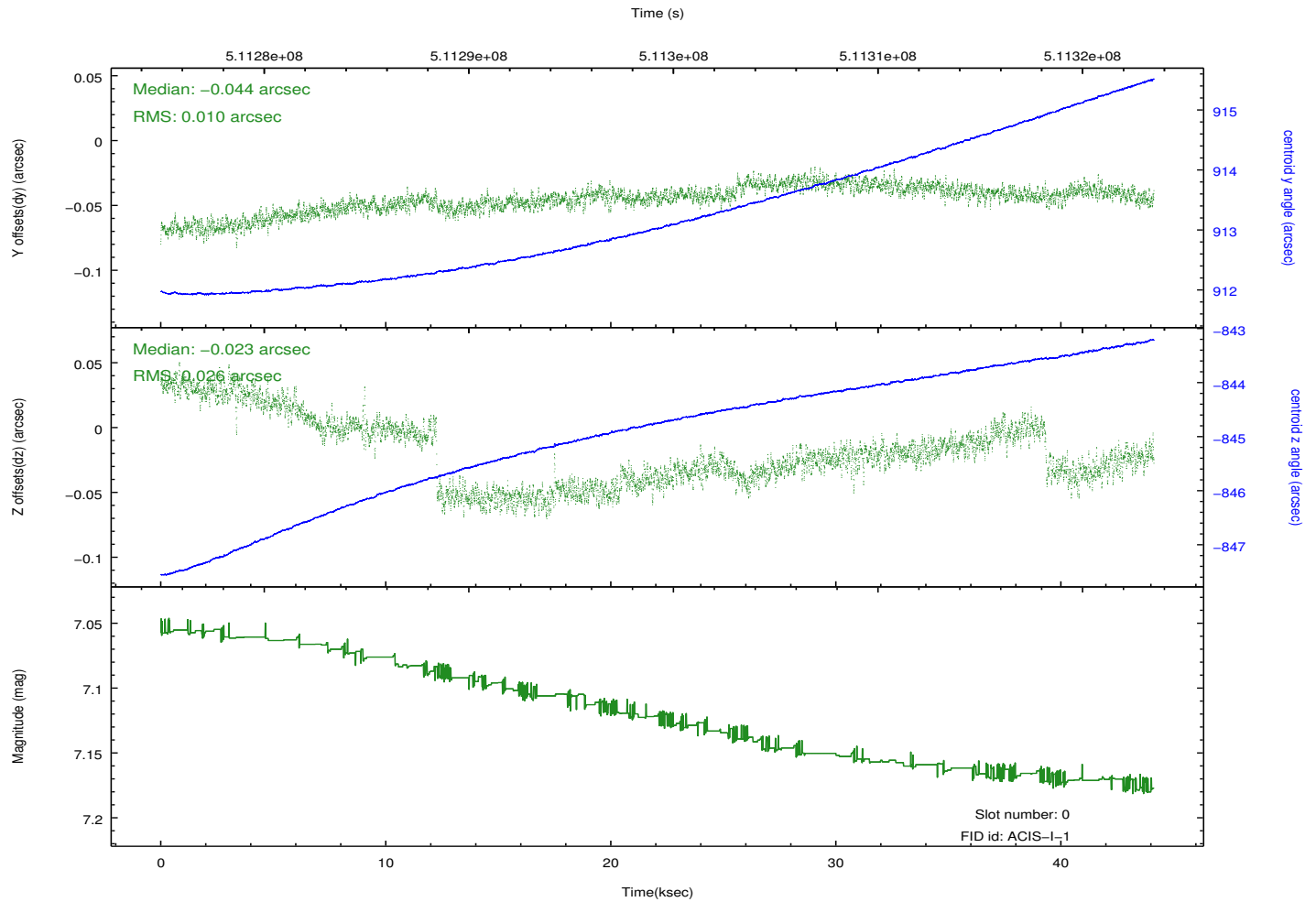
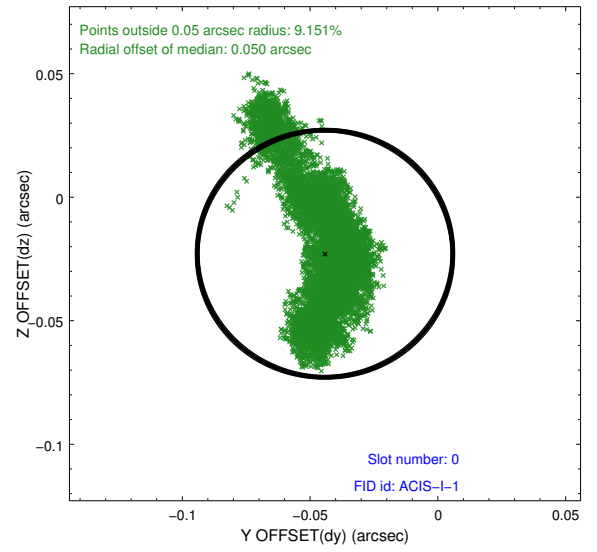
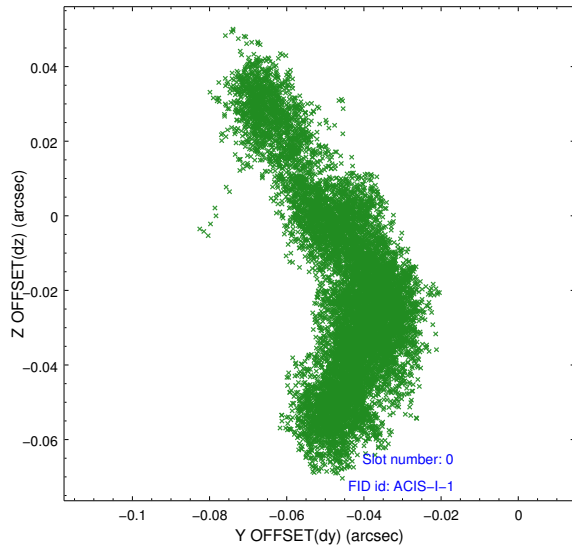


2.4.5 Slot 7

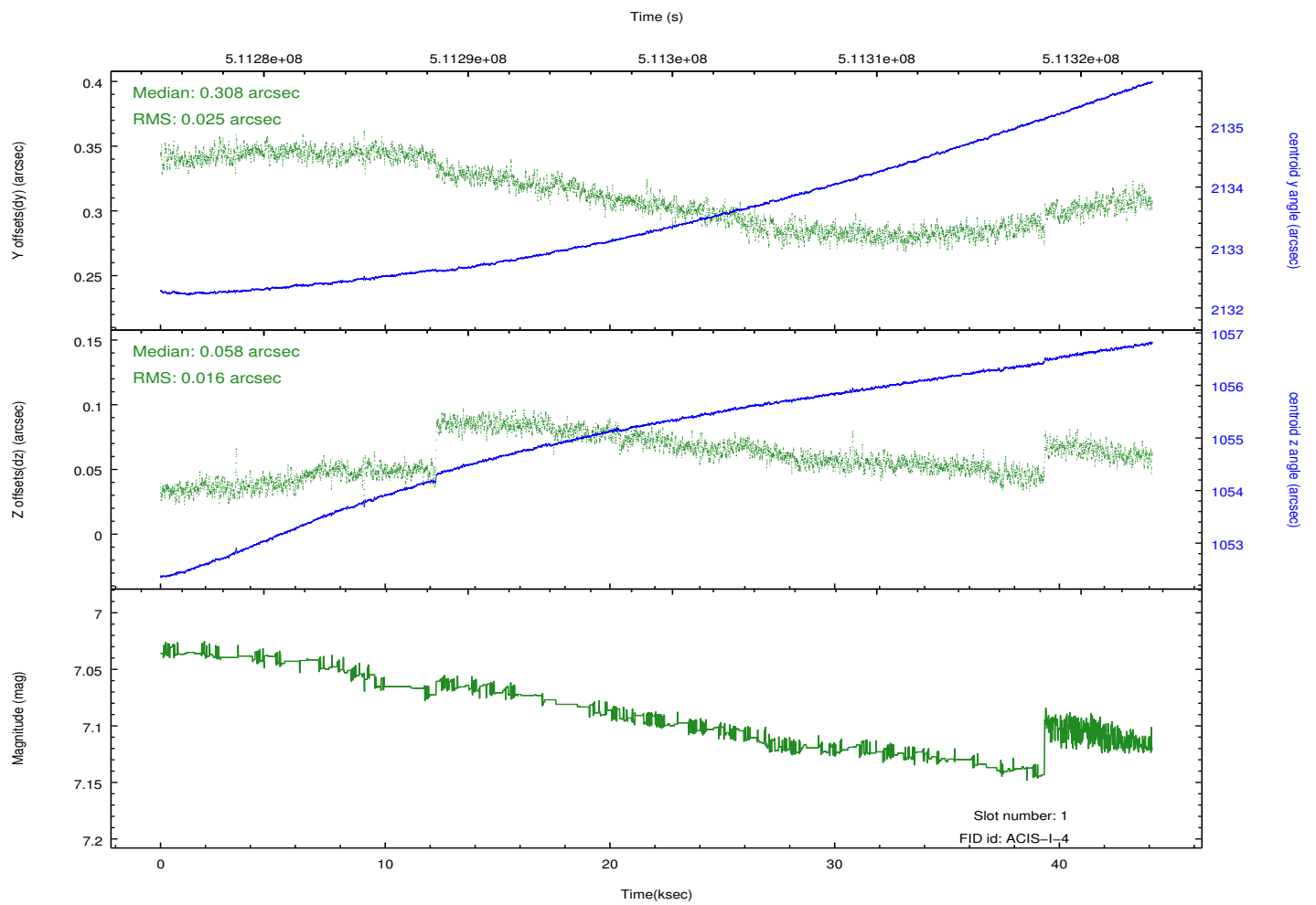
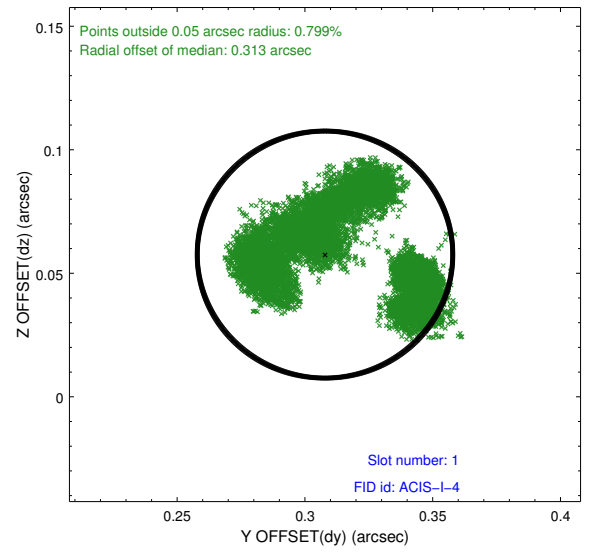
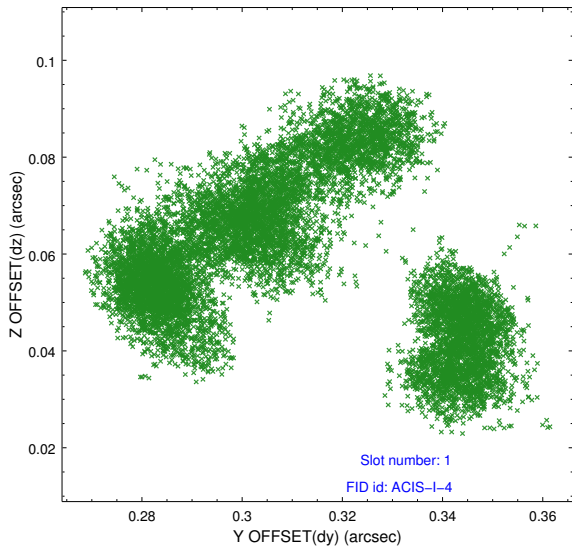


2.5 FID Slots

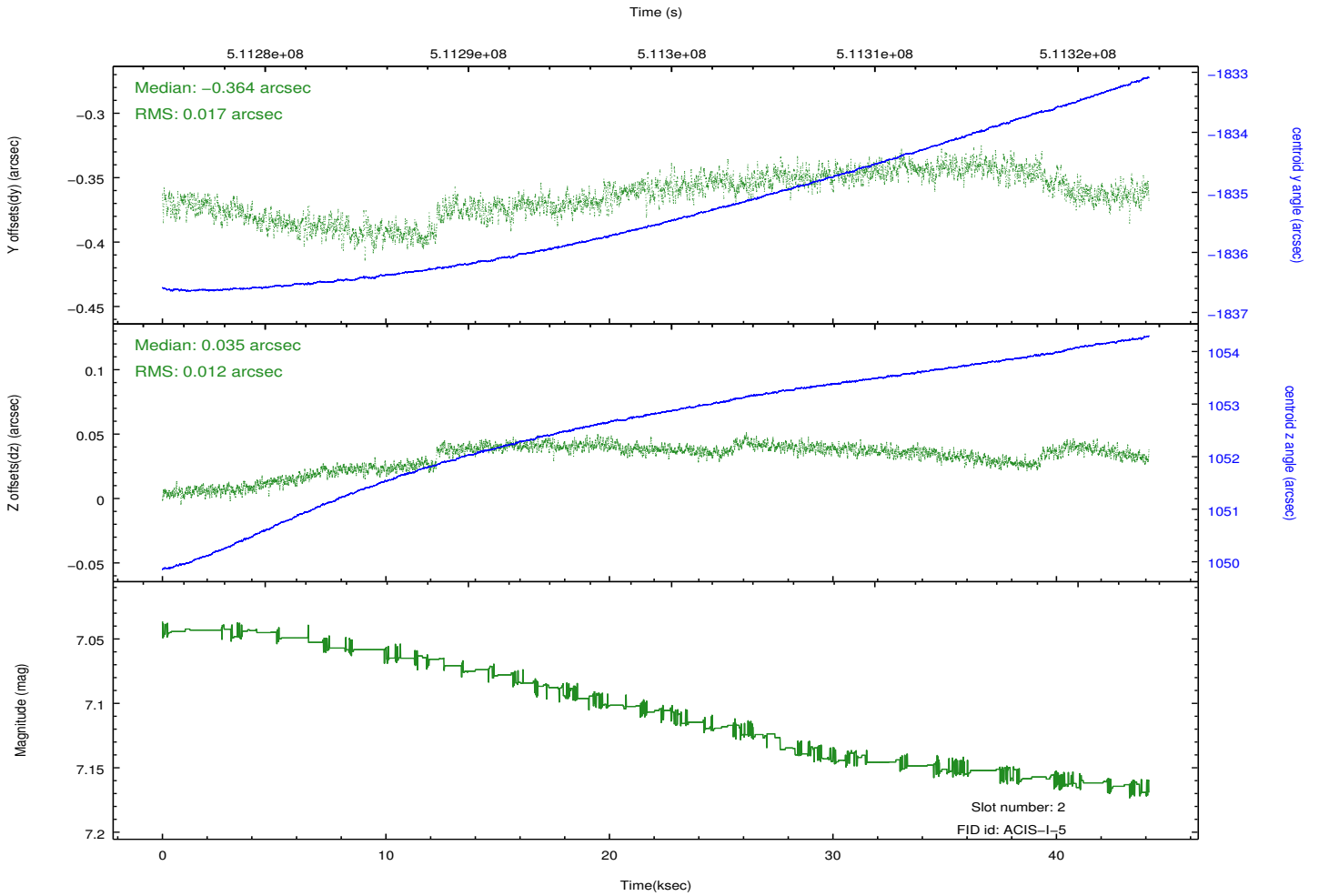
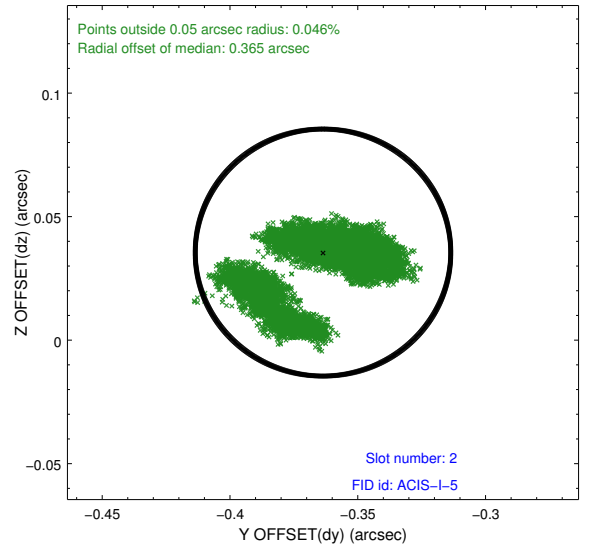
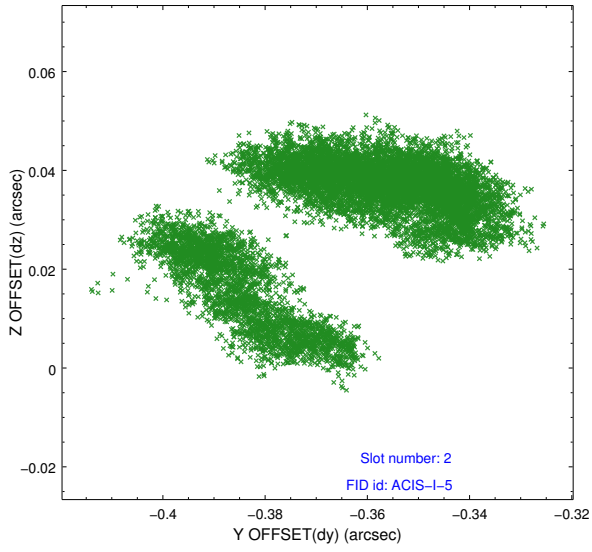
2.5.1 Slot 0



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	44.084634396791

A.2 Comments

Joint Proposal: NRAO+NOAO

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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.