

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12753 - L2 Version 2
Chandra X-Ray Center

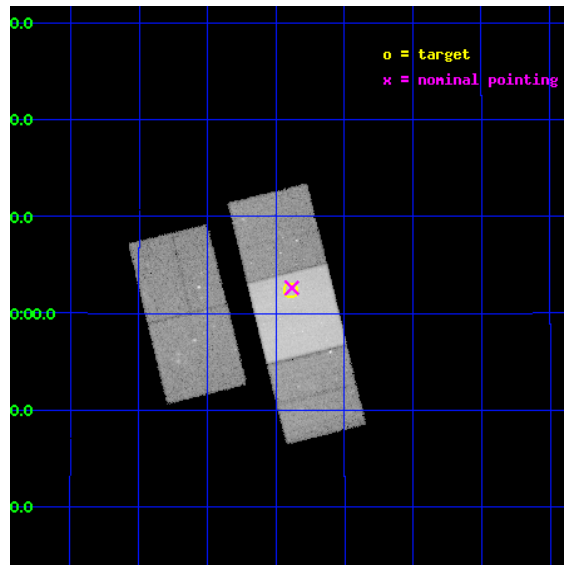
L2 Processing Date : Feb 2 2012

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1 Front

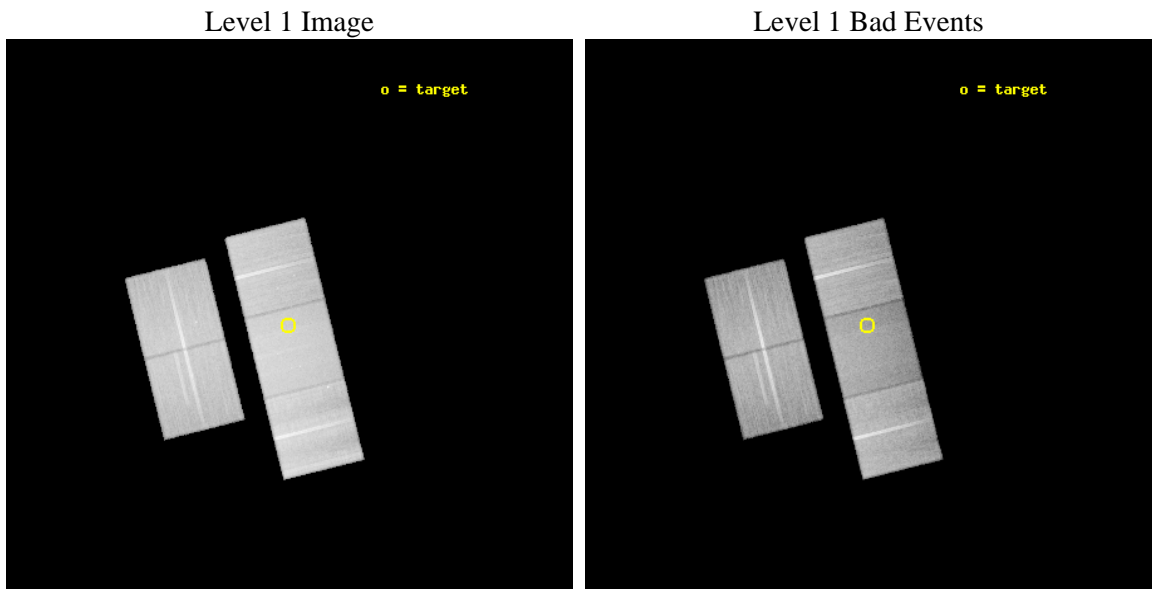
seq_num	702389	Sequence number
obs_id	12753	Observation id
title	Low luminosity AGN and low mass black holes in nearby dwarf galaxies	
observer	Dr Thomas Maccarone	Principal investigator
object	Leo T	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	143.7225	Observer's specified target RA [deg]
dec_targ	17.039444	Observer's specified target Dec [deg]
ra_nom	143.72094599123	Nominal RA [deg]
dec_nom	17.044065957155	Nominal Dec [deg]
roll_nom	76.111320304729	Nominal Roll [deg]
revision	2	Processing version of data
ontime	50039.462303102	Sum of GTIs [s]
liveltime	49385.659889596	Livetime [s]
ontime2	50023.593011856	Sum of GTIs [s]
ontime3	50023.675111711	Sum of GTIs [s]
ontime6	50036.280222714	Sum of GTIs [s]
ontime7	50039.462303102	Sum of GTIs [s]
ontime8	50033.057222366	Sum of GTIs [s]
l2events	328685	Number of level 2 events



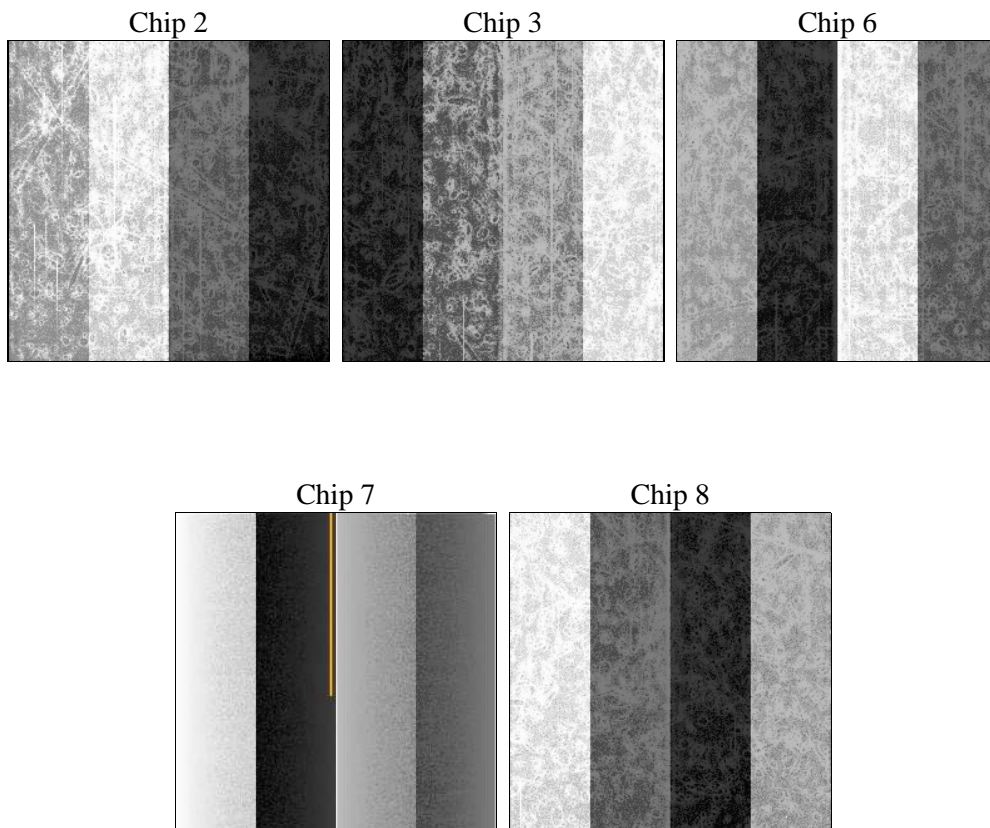
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	50000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	50039.462303102	Sum of GTIs [s]
caldbver	4.4.7	 	ontime2	50023.593011856	Sum of GTIs [s]
date	2012-02-02T06:07:30	Date and time of file creation	ontime3	50023.675111711	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	50036.280222714	Sum of GTIs [s]
			ontime7	50039.462303102	Sum of GTIs [s]
			ontime8	50033.057222366	Sum of GTIs [s]
			l1events	1968024	Number of level 1 events

2.1.4 Events

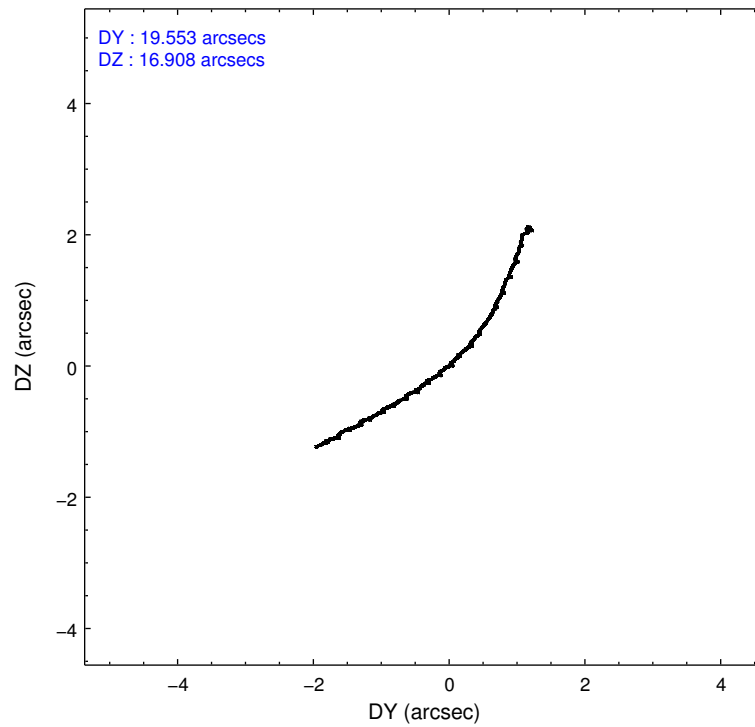
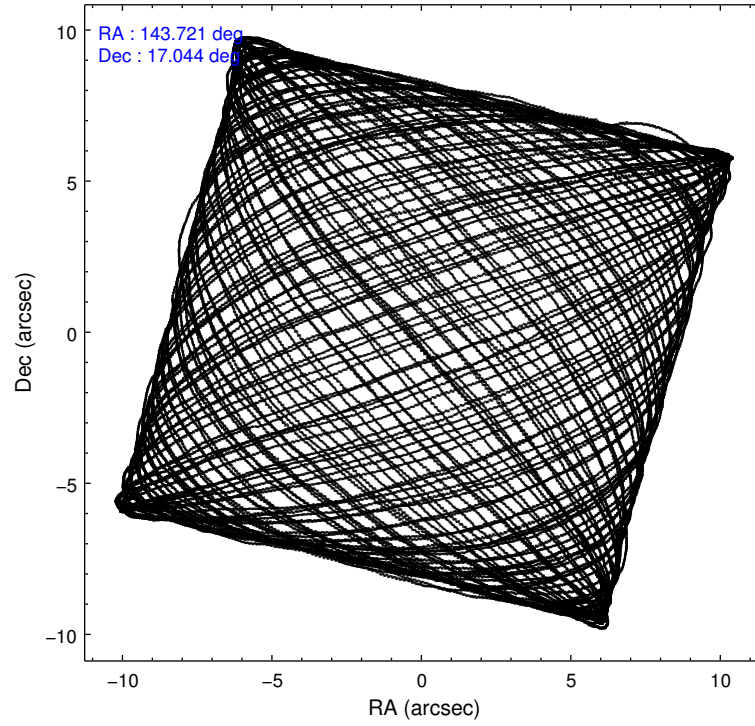
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	351187	345643	367990	441352	461852
rejected events	313424	309093	327644	245218	344254
rejected %	89%	89%	89%	55%	74%

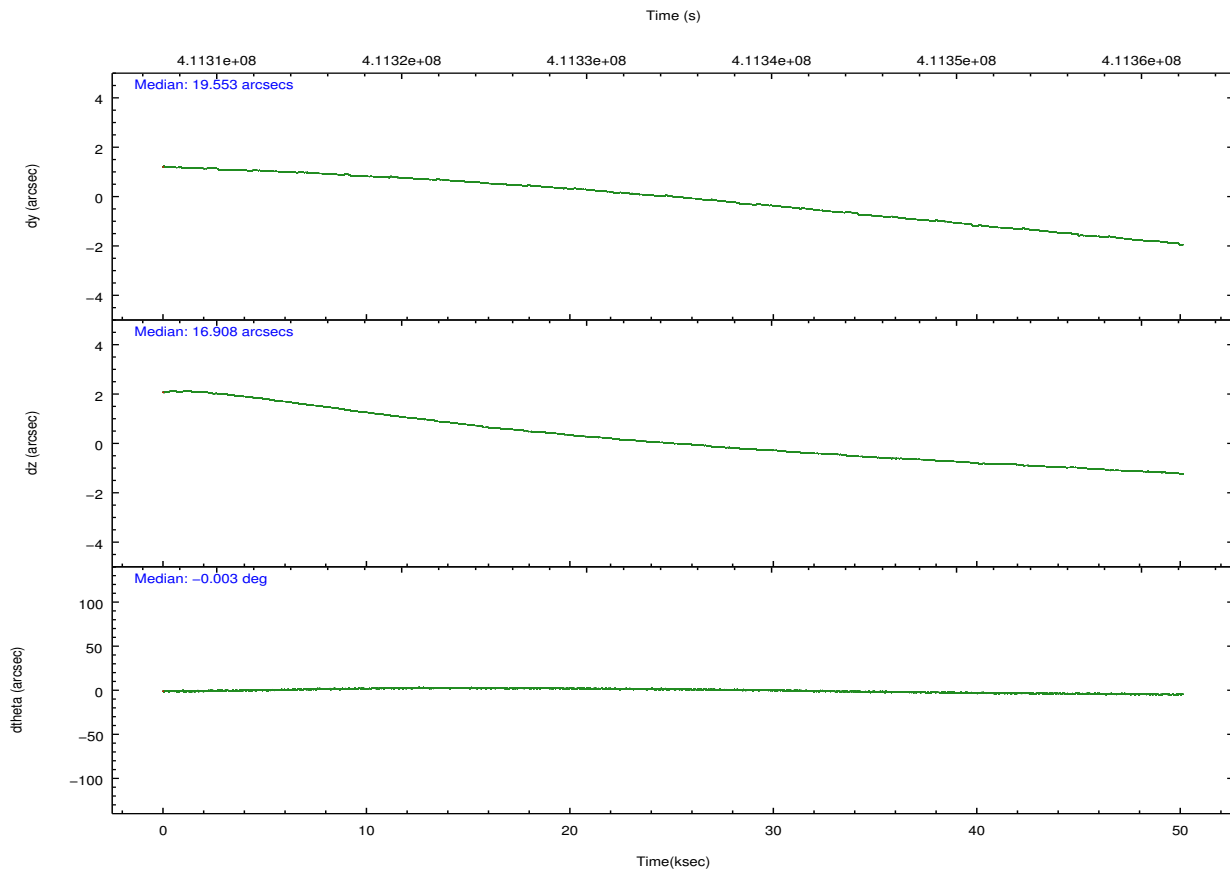
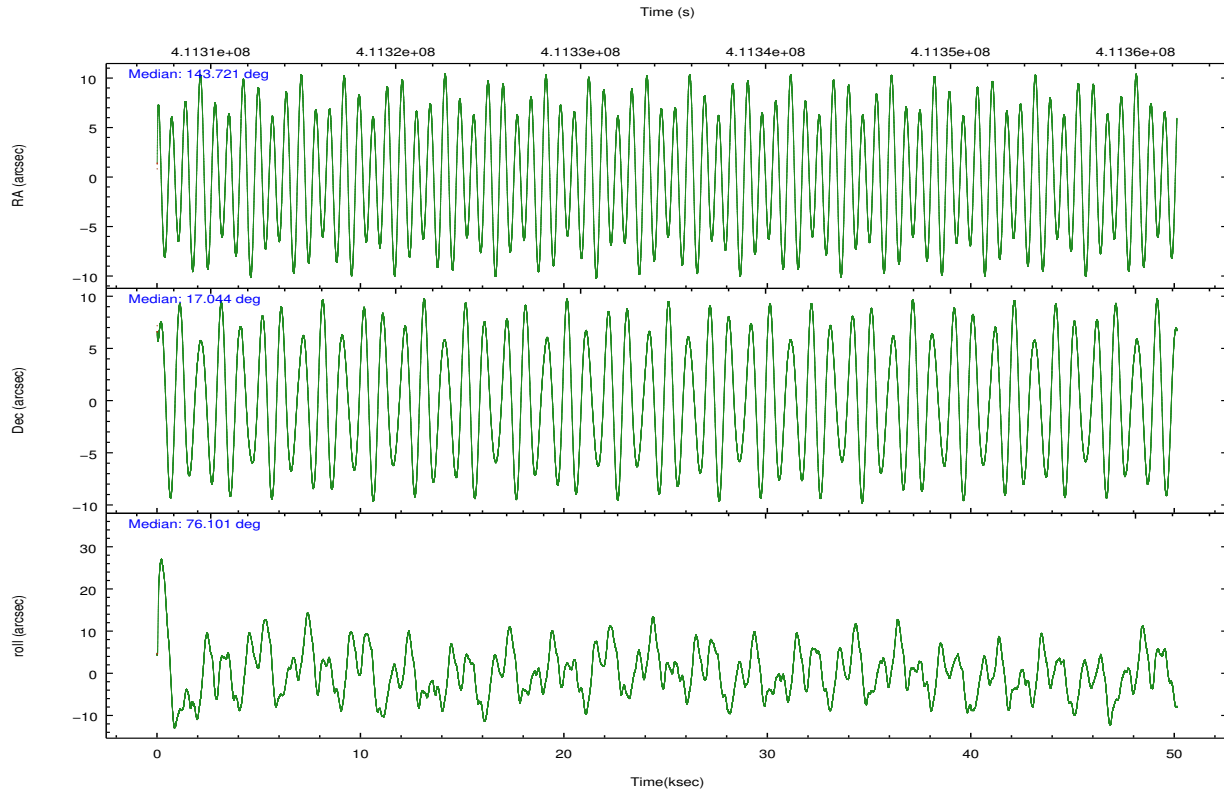
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	13575	13046	13775	17487	34361
	3%	3%	3%	3%	7%
grade 1 events	168	204	185	516	393
	0%	0%	0%	0%	0%
grade 2 events	9229	8071	9242	39849	28052
	2%	2%	2%	9%	6%
grade 3 events	3908	3952	4236	17082	12363
	1%	1%	1%	3%	2%
grade 4 events	3910	3991	4238	16813	11544
	1%	1%	1%	3%	2%
grade 5 events	13744	16577	16883	46077	23559
	3%	4%	4%	10%	5%
grade 6 events	7141	7491	8858	104912	31279
	2%	2%	2%	23%	6%
grade 7 events	299512	292311	310573	198616	320301
	85%	84%	84%	45%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	143.729258	143.7209459912269	CCD I2 on	O4	Y
[deg] Pointing Dec	17.017900	17.04406595715503	CCD I3 on	O3	Y
[deg] Pointing Roll	75.952258	76.11132030472866	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O1	Y
[s] Observation start time (MET)	411309733.184000	411308464.89095	CCD S5 on	N	N
Observation start date	2011-01-13T12:41:07	2011-01-13T12:21:04	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	411359733.184000	411360270.44363	On-chip summing requested	N	N
Observation end date	2011-01-14T02:34:27	2011-01-14T02:44:30	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



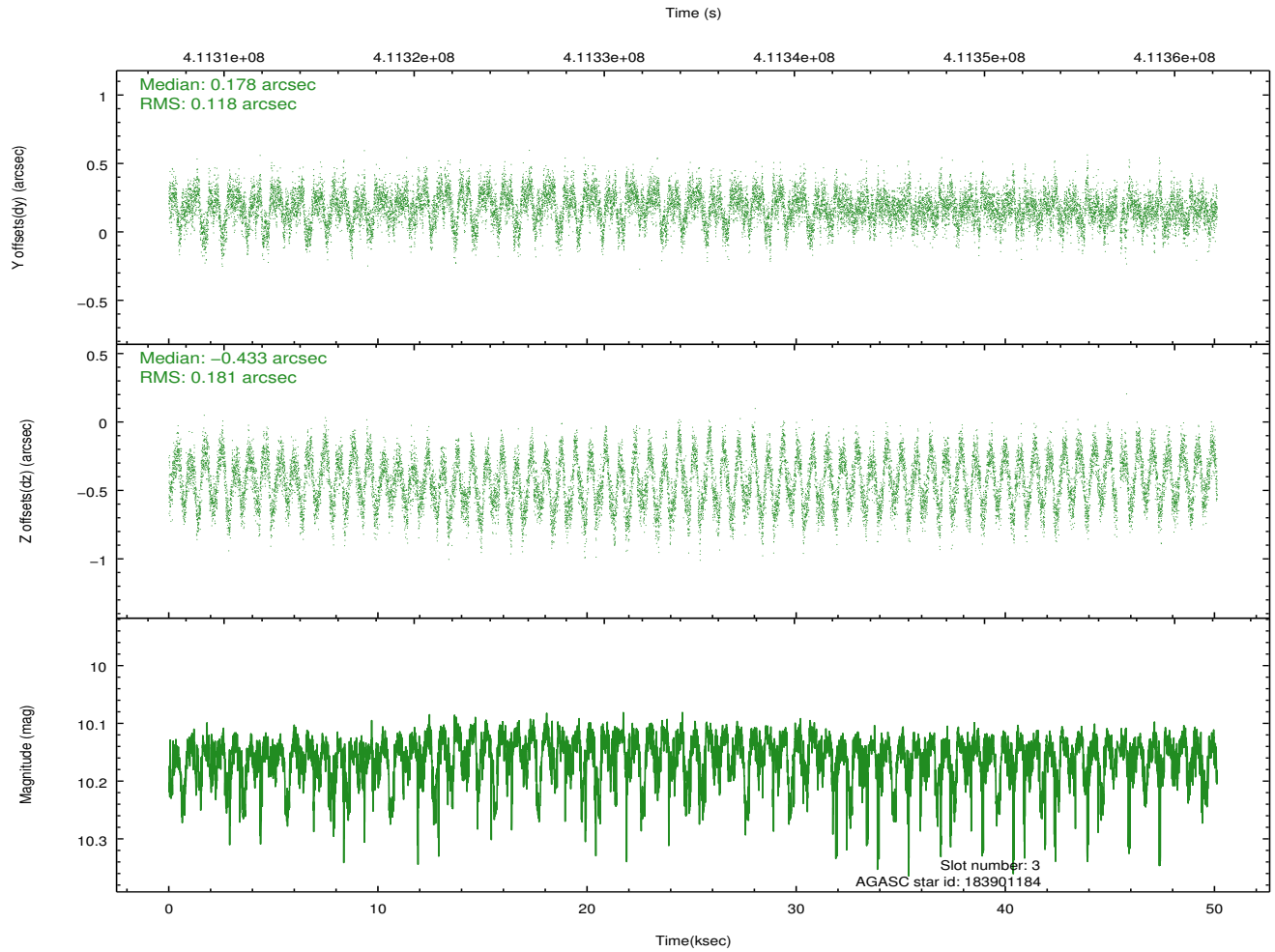
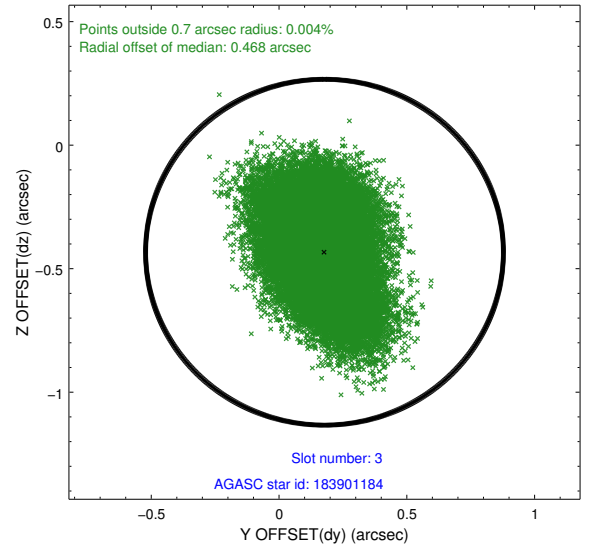
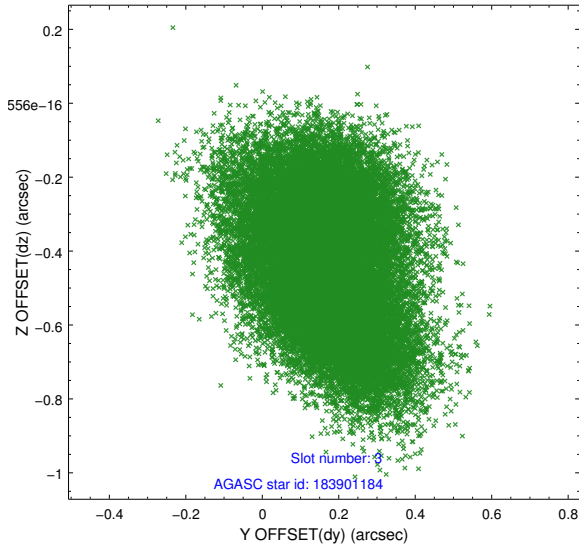


Slot Statistics

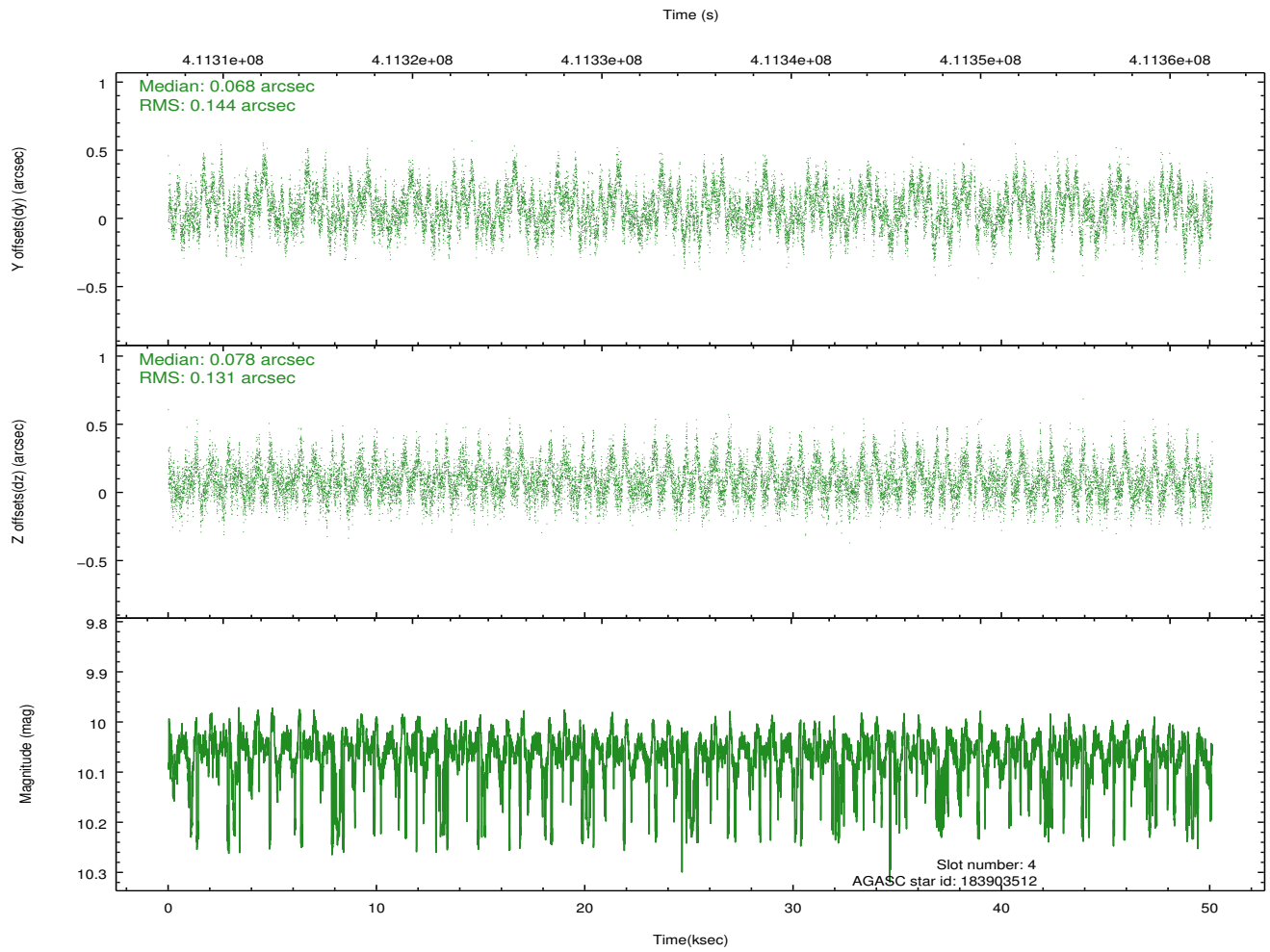
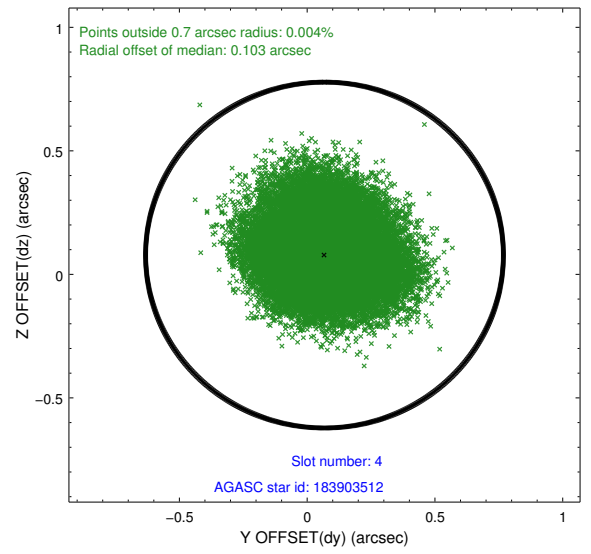
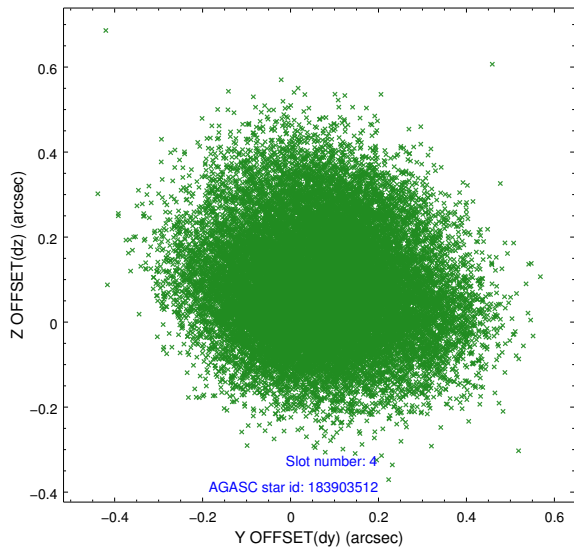
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.95	12226	-0.093	-0.030	0.018	0.029	0.000000	0.000000	-772.61	-1738.51
1	FID	ACIS-S-4	7.02	12224	0.222	0.053	0.015	0.026	0.000000	0.000000	2141.01	170.05
2	FID	ACIS-S-5	7.06	12224	-0.161	-0.015	0.020	0.026	0.000000	0.000000	-1825.53	163.67
3	GUIDE	183901184	10.15	24274	0.178	-0.433	0.234	0.361	143.053017	16.782222	-1384.82	2055.88
4	GUIDE	183903512	10.06	24234	0.068	0.078	0.211	0.329	143.969108	17.024459	223.65	-794.49
5	GUIDE	184813248	8.37	24442	-0.028	-0.070	0.094	0.154	144.082626	17.229922	1036.75	-992.78
6	GUIDE	184813256	9.23	24383	-0.099	0.302	0.121	0.199	144.324263	16.923872	172.67	-2068.96
7	GUIDE	184811680	7.55	24438	-0.124	0.105	0.081	0.133	144.519073	17.355385	1842.80	-2336.20

2.4 Star Slots

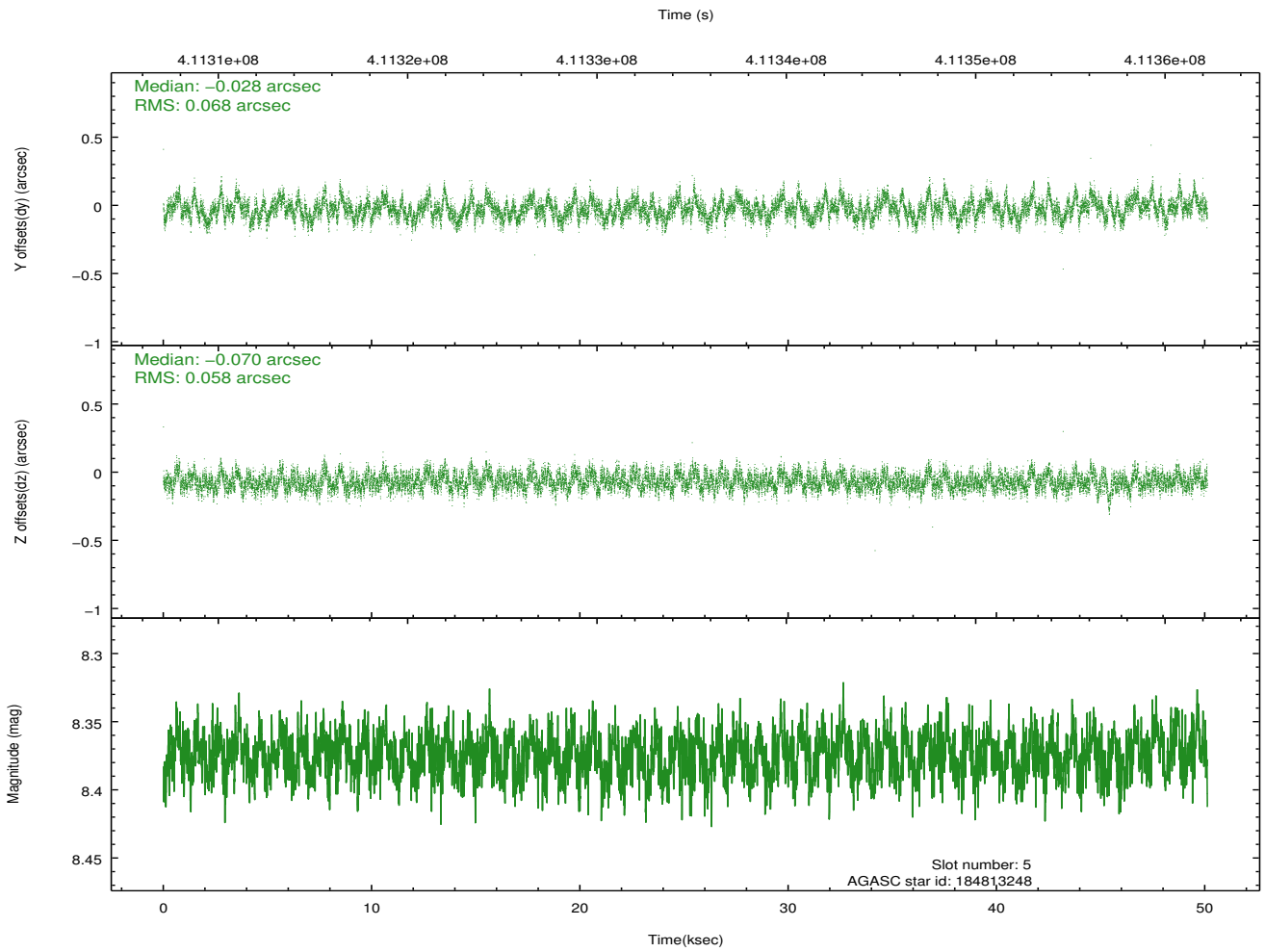
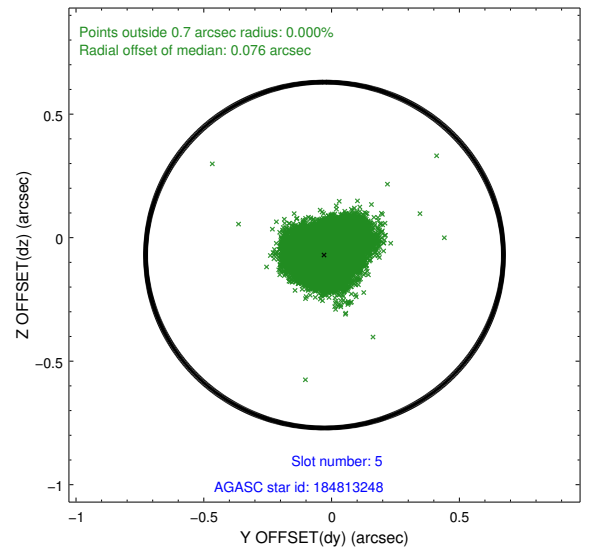
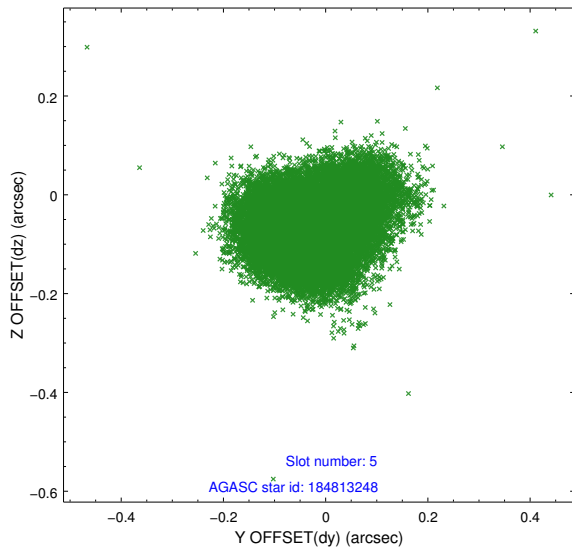
2.4.1 Slot 3



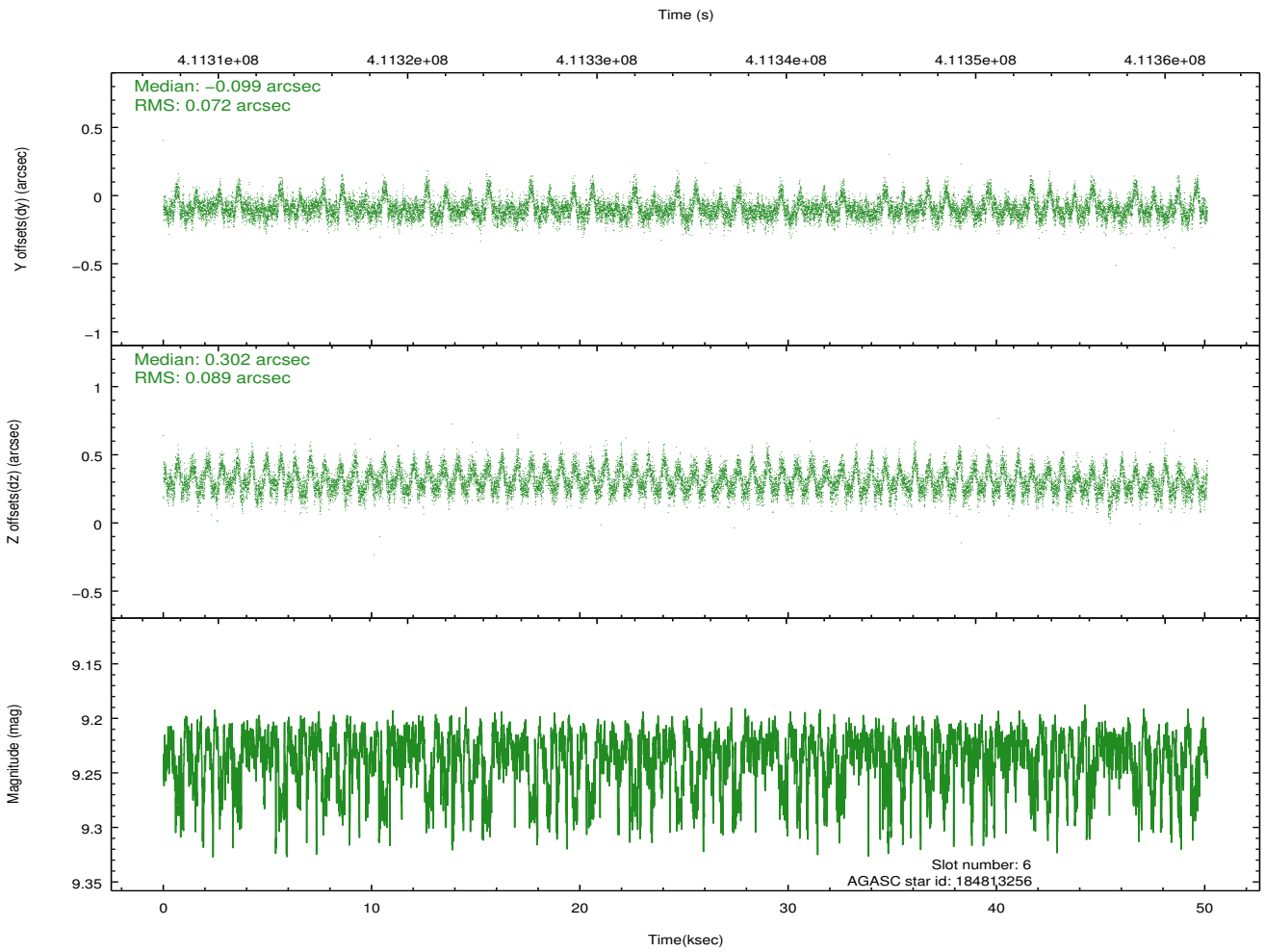
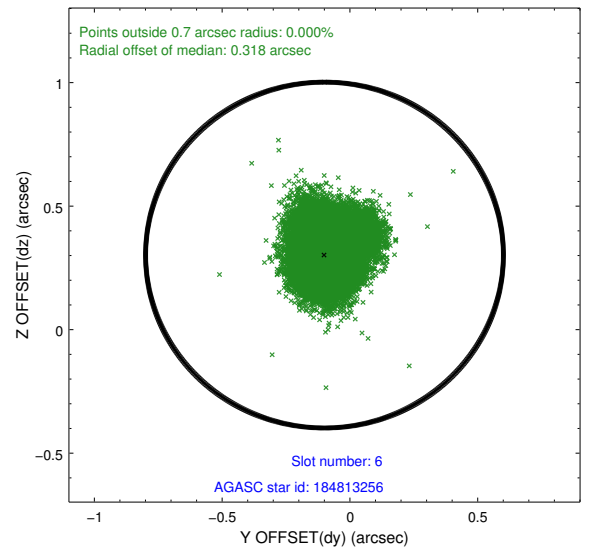
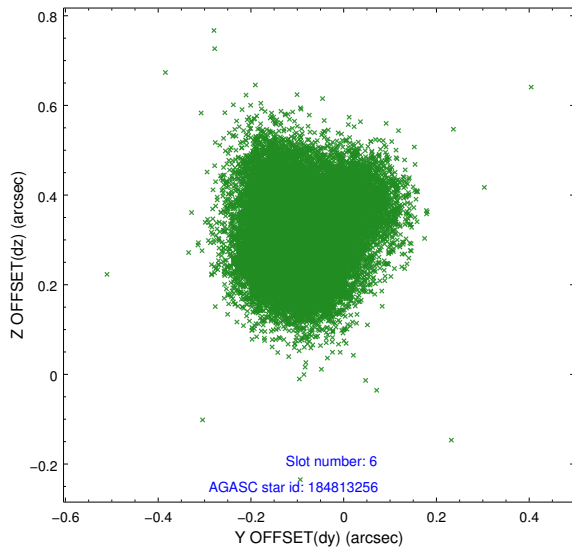
2.4.2 Slot 4



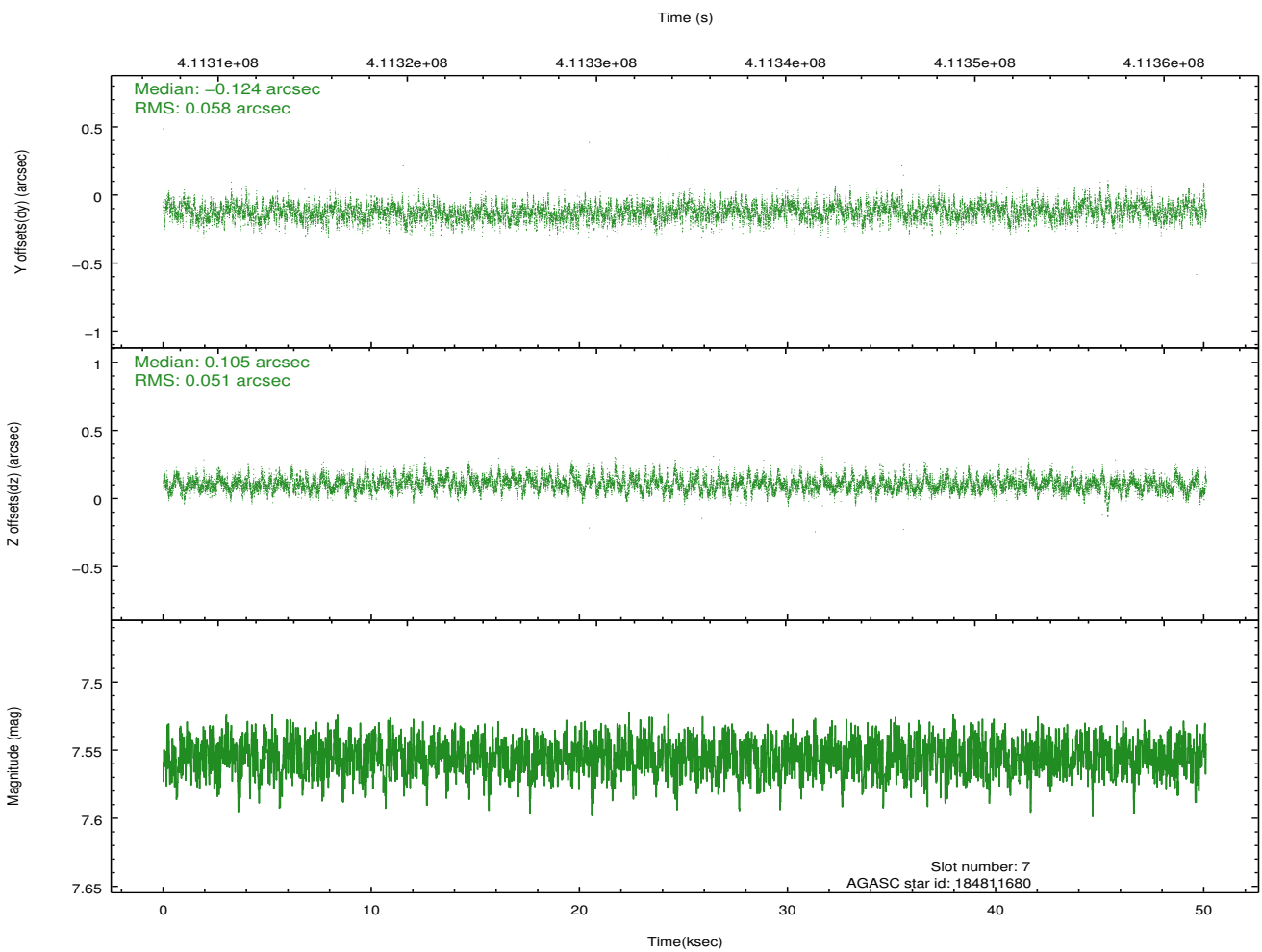
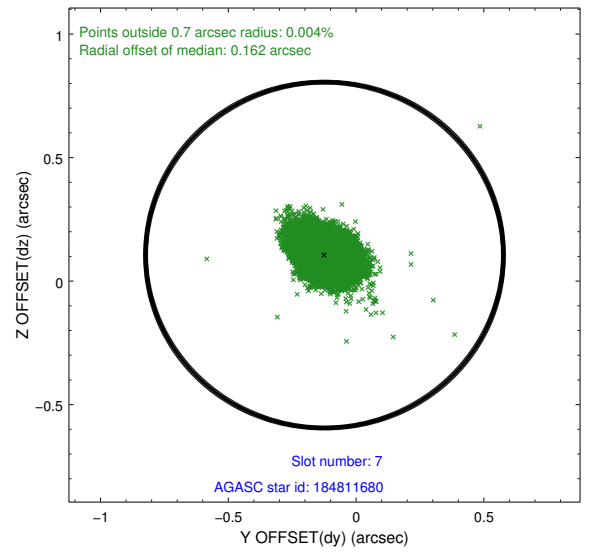
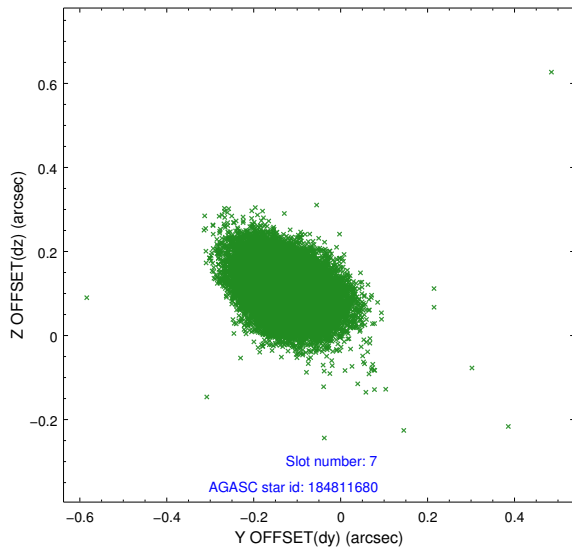
2.4.3 Slot 5



2.4.4 Slot 6

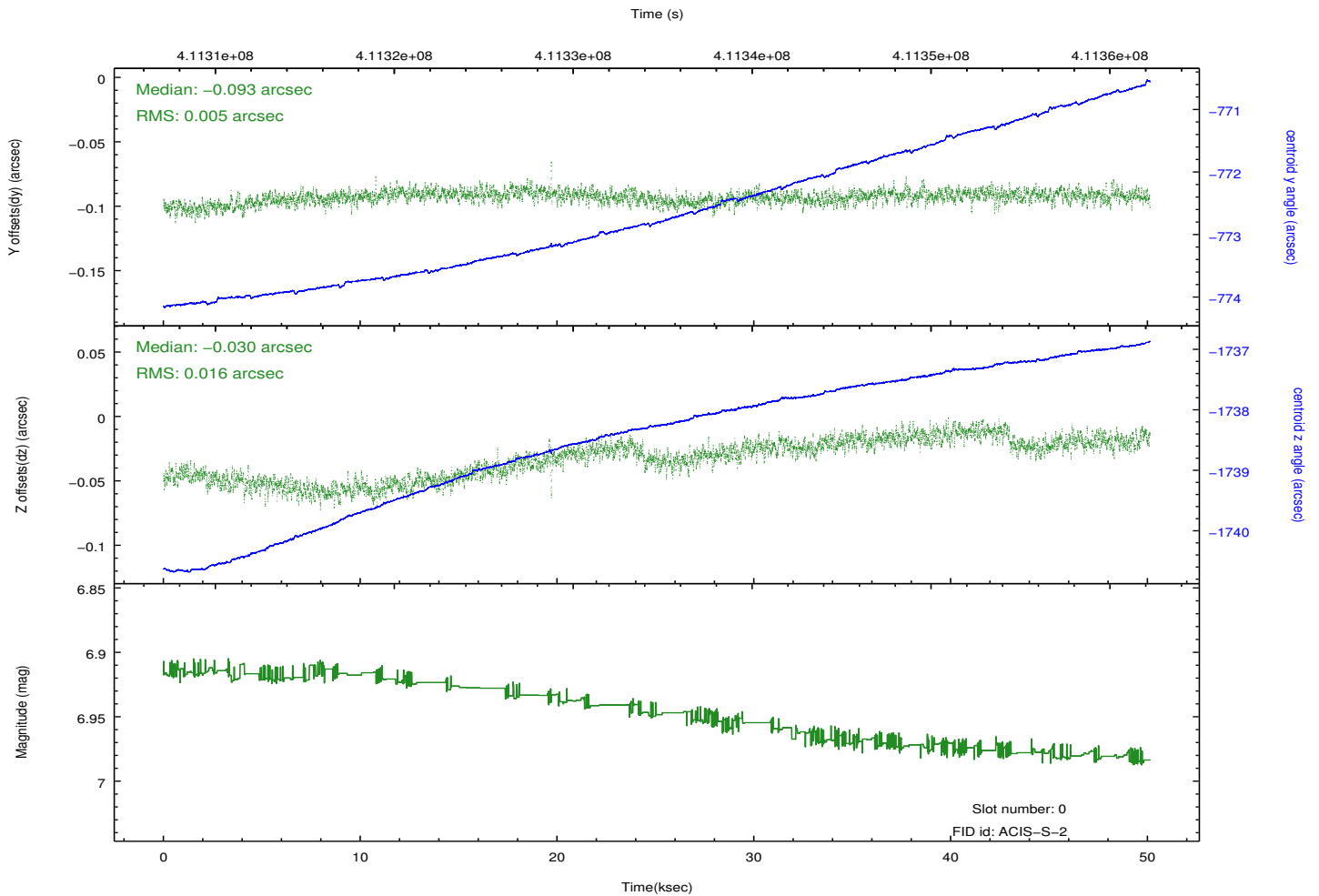
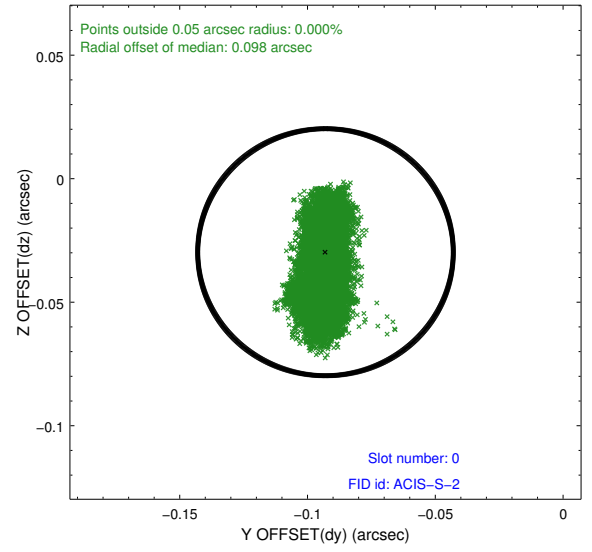
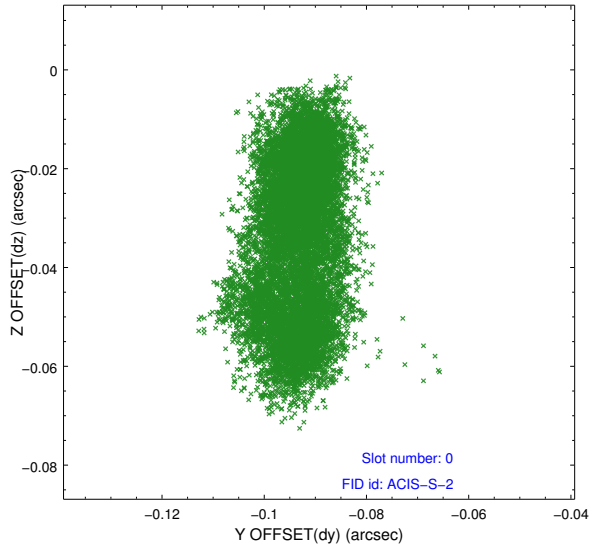


2.4.5 Slot 7

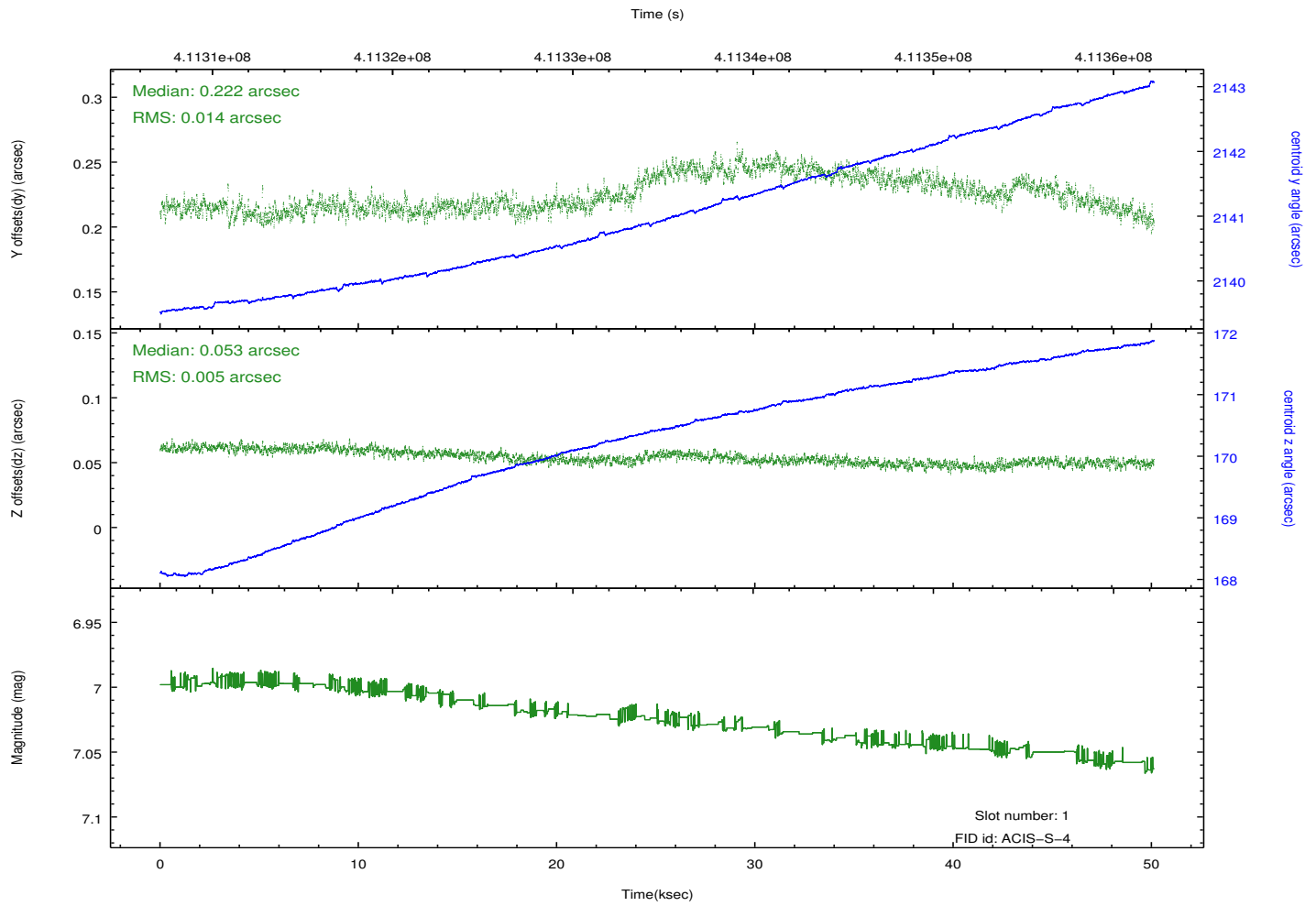
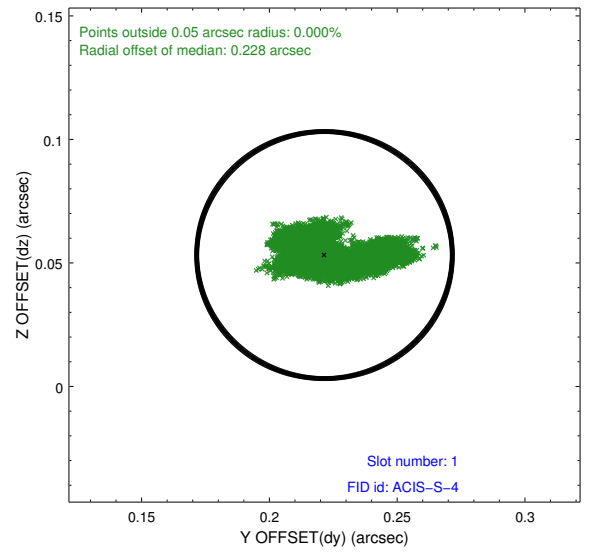
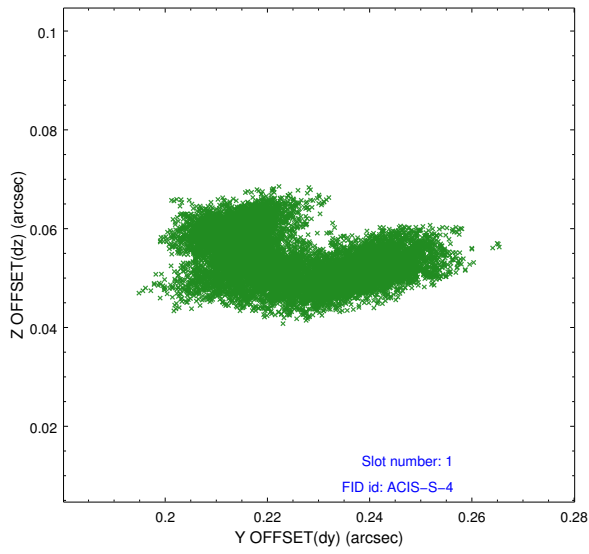


2.5 FID Slots

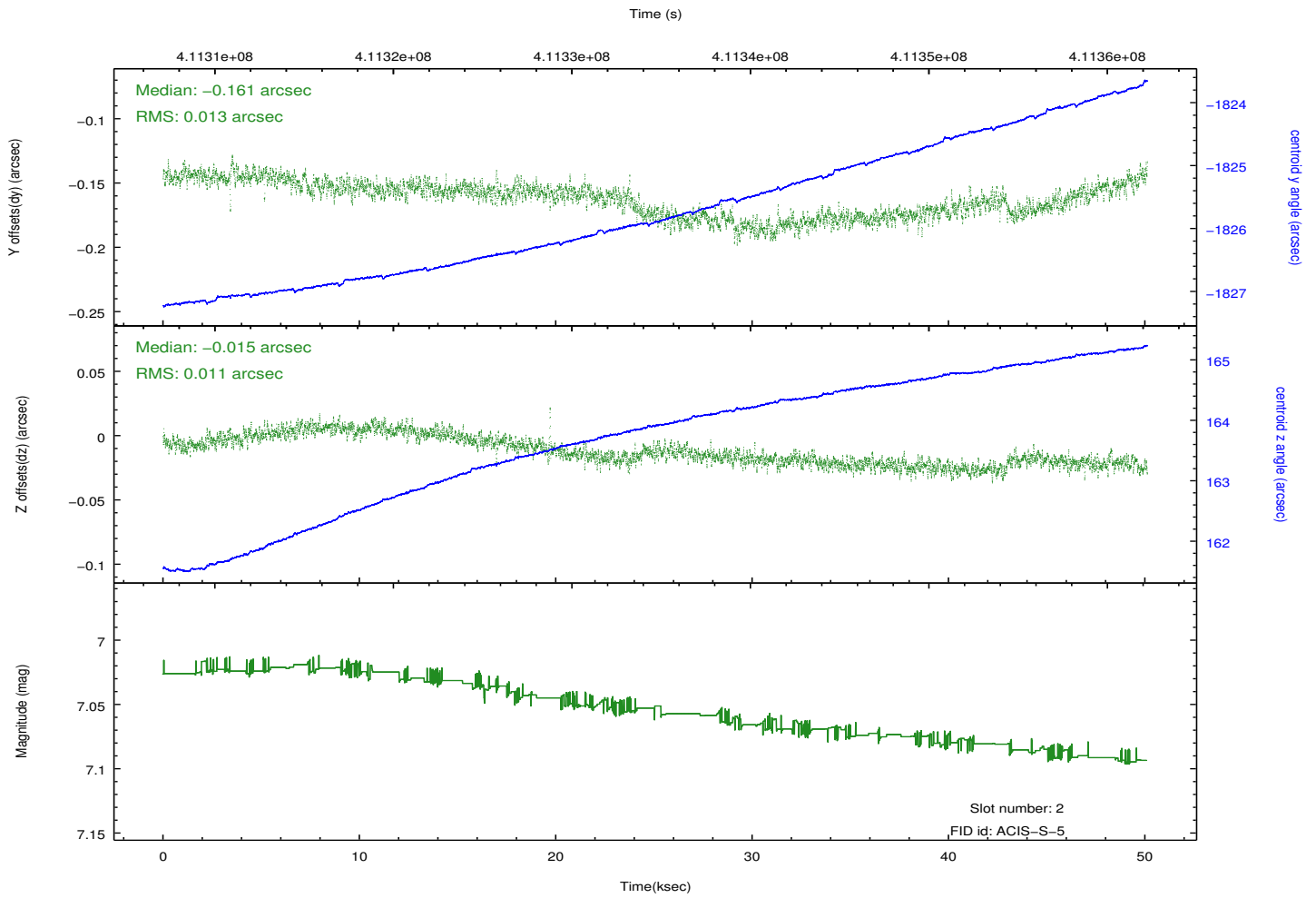
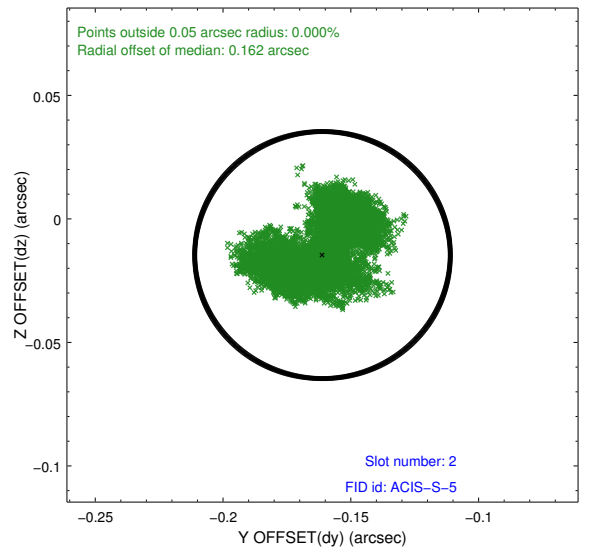
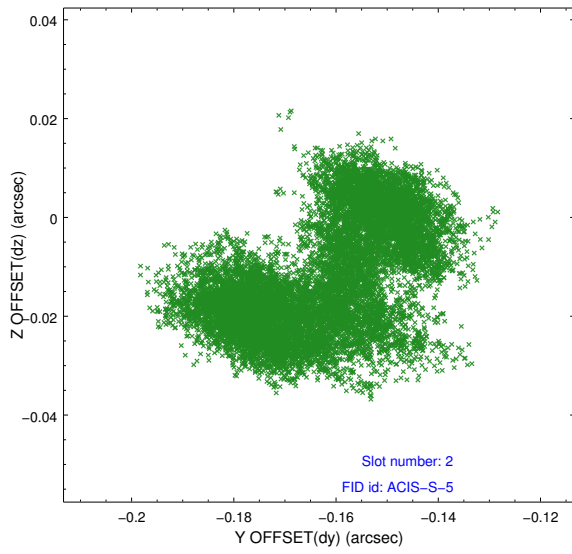
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.02.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	50.039462304711

A.2 Comments

The data for this observation have been processed using the 'EDSER' sub-pixel event-repositioning algorithm of Li et al. (2004, ApJ, 610, 1204). Small-scale features should become sharper for sources near the aim point. The improvement will be less noticeable for off-axis sources where the size of the point-spread function is comparable to or larger than the size of an ACIS pixel. To take full advantage of the improvement, images should be binned on spatial scales smaller than the size of an ACIS pixel. Note that, at present, the point-spread function has not been calibrated for data to which the EDSER algorithm has been applied. If dither was disabled for the observation, then the algorithm can introduce artificial aliasing effects on spatial scales smaller than a pixel. If you would prefer to use no sub-pixel adjustment or to apply a coordinate randomization, then use `acis_process_events` to reprocess the data with the parameter `pix_adj=NONE` or `RANDOMIZE`, respectively.