

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12808 - L2 Version 2
Chandra X-Ray Center

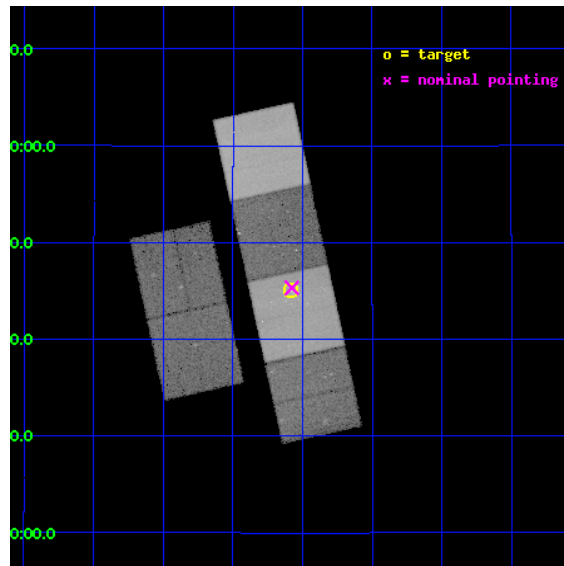
L2 Processing Date : Feb 3 2012

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1 Front

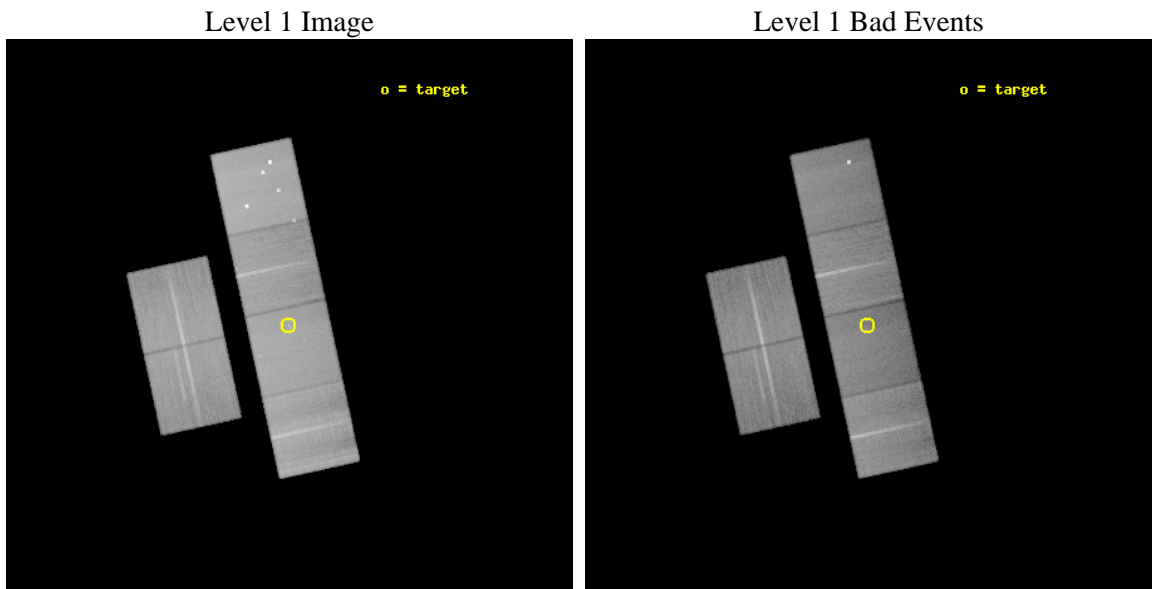
seq_num	702444	Sequence number
obs_id	12808	Observation id
title	Radio-loud feedback in Seyfert galaxies	Proposal title
observer	Dr Judith Croston	Principal investigator
object	NGC 3367	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	161.645833	Observer's specified target RA [deg]
dec_targ	13.75075	Observer's specified target Dec [deg]
ra_nom	161.6441664825	Nominal RA [deg]
dec_nom	13.755323254927	Nominal Dec [deg]
roll_nom	77.758484065976	Nominal Roll [deg]
revision	2	Processing version of data
ontime	45049.263444304	Sum of GTIs [s]
livetime	44478.822545163	Livetime [s]
ontime2	45039.581333518	Sum of GTIs [s]
ontime3	45049.140324295	Sum of GTIs [s]
ontime5	45049.222404301	Sum of GTIs [s]
ontime6	45045.940314054	Sum of GTIs [s]
ontime7	45049.263444304	Sum of GTIs [s]
ontime8	45045.858244121	Sum of GTIs [s]
l2events	532545	Number of level 2 events



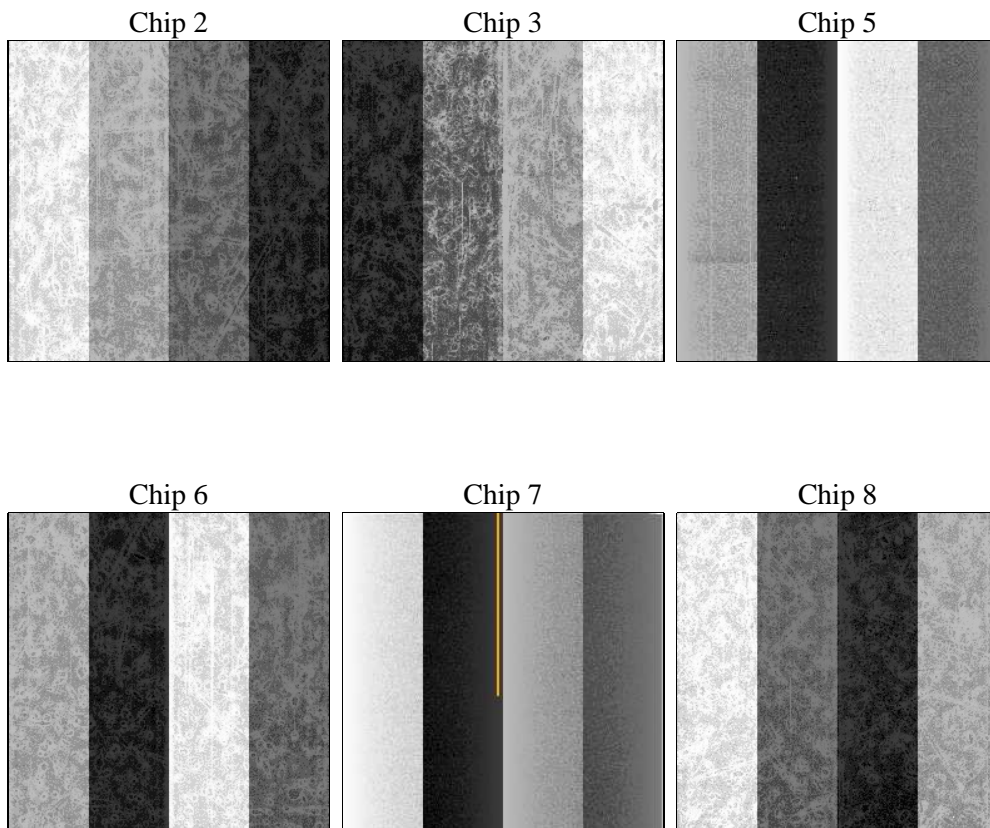
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	45000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	45049.263444304	Sum of GTIs [s]
caldbver	4.4.7	 	ontime2	45039.581333518	Sum of GTIs [s]
date	2012-02-03T01:20:55	Date and time of file creation	ontime3	45049.140324295	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	45049.222404301	Sum of GTIs [s]
			ontime6	45045.940314054	Sum of GTIs [s]
			ontime7	45049.263444304	Sum of GTIs [s]
			ontime8	45045.858244121	Sum of GTIs [s]
			l1events	2321011	Number of level 1 events

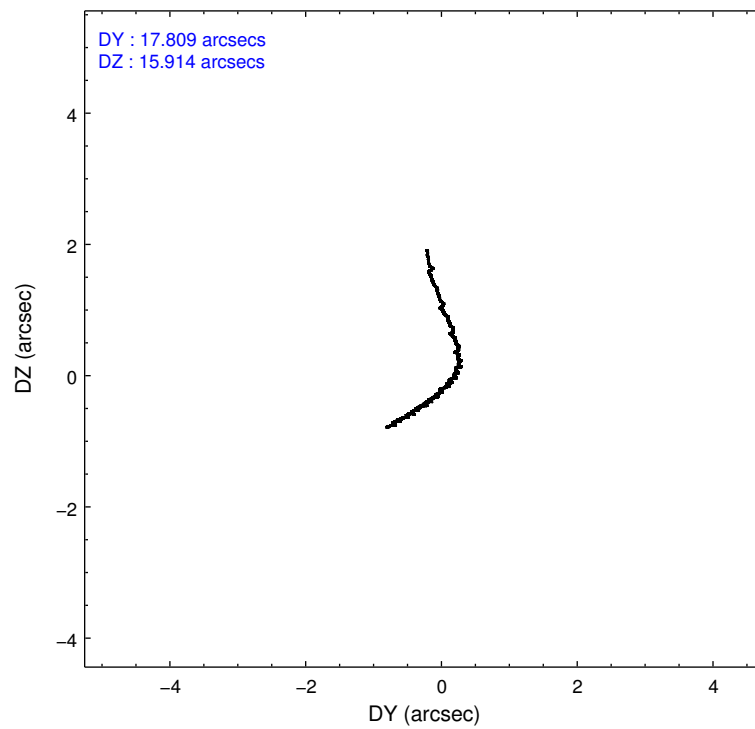
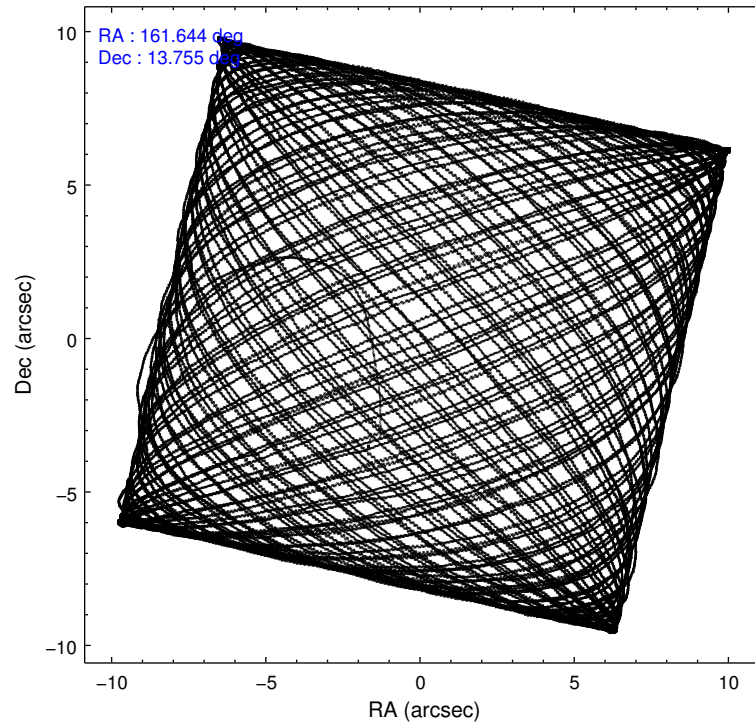
2.1.4 Events

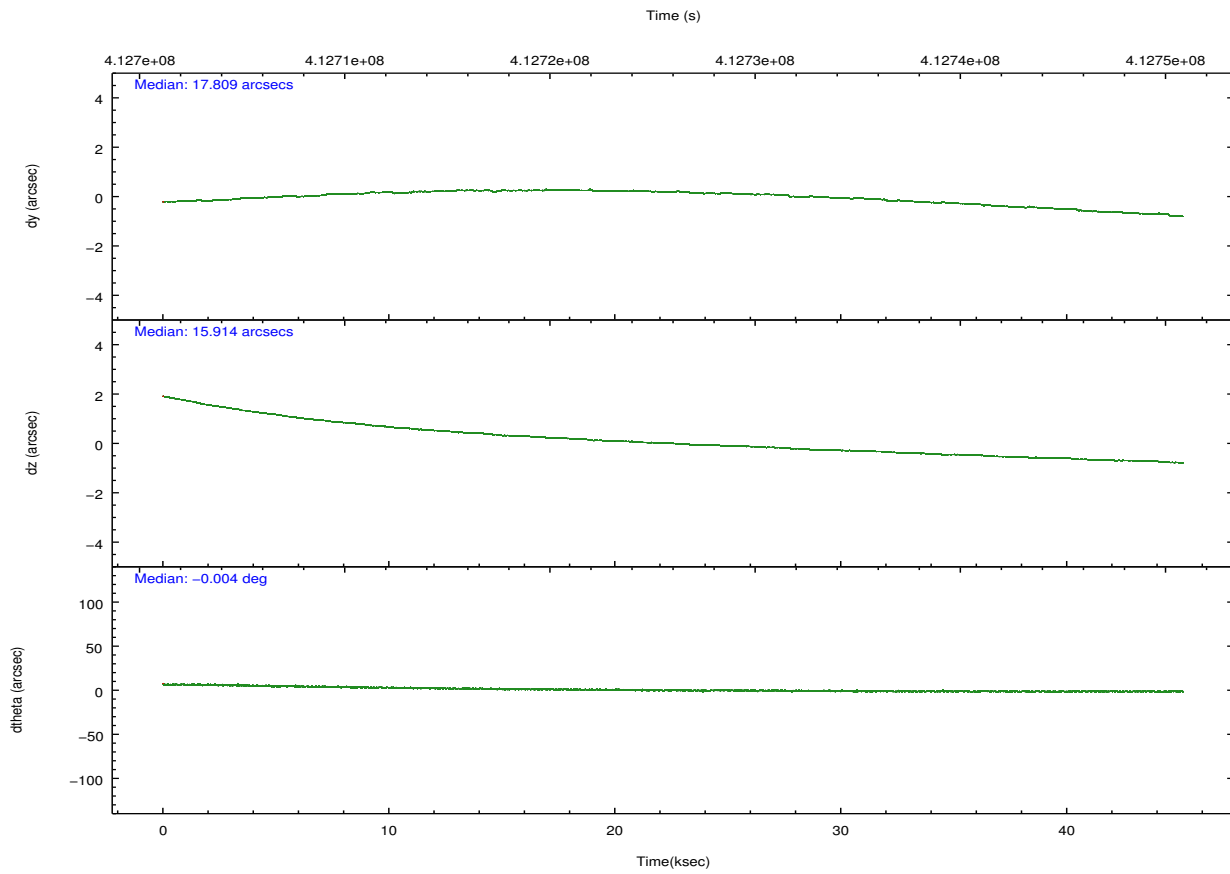
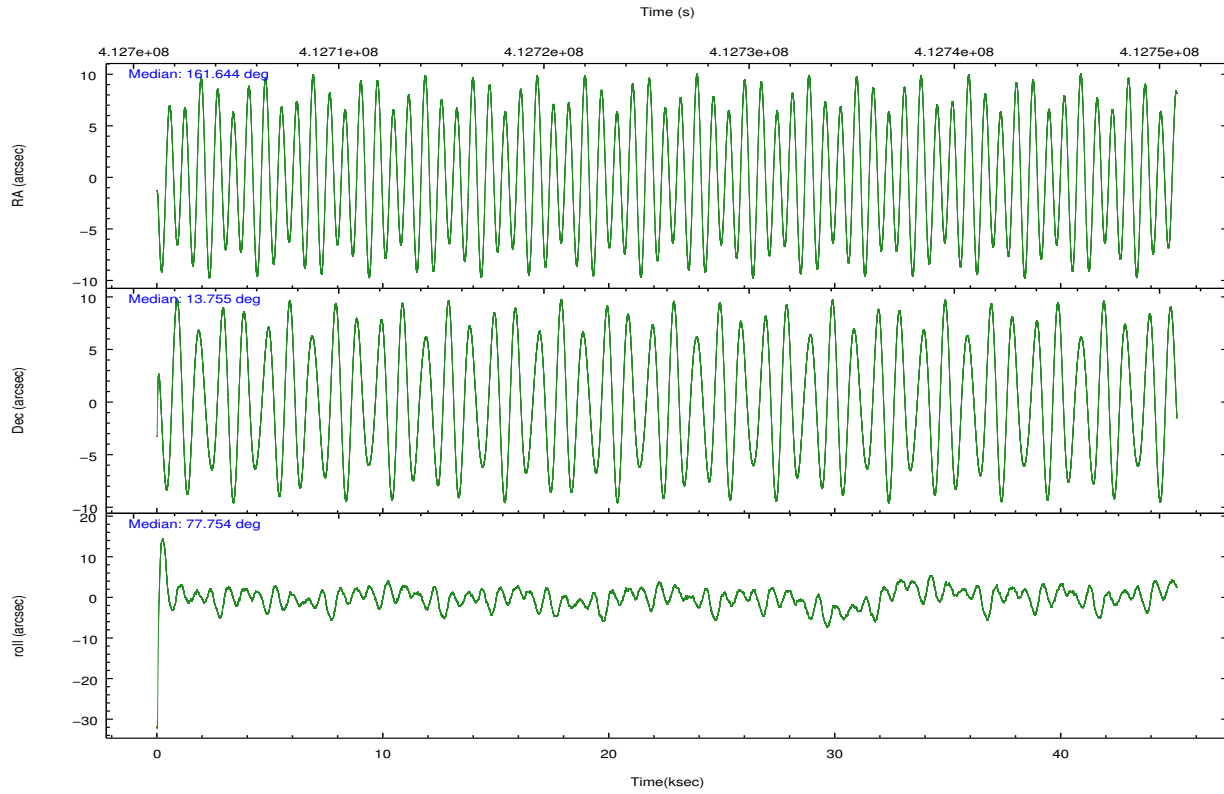
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	331481	311044	528580	329312	405397	415197	grade 0 events	12229	11460	43534	13110	17422	31067
rejected events	297142	278518	260630	292165	222706	306225		3%	3%	8%	3%	4%	7%
rejected %	89%	89%	49%	88%	54%	73%	grade 1 events	215	180	945	175	547	340
								0%	0%	0%	0%	0%	0%
							grade 2 events	8341	7248	77154	8341	37529	25962
								2%	2%	14%	2%	9%	6%
							grade 3 events	3458	3586	8933	3769	16257	11939
								1%	1%	1%	1%	4%	2%
							grade 4 events	3639	3549	8492	3798	15940	11213
								1%	1%	1%	1%	3%	2%
							grade 5 events	13059	14856	38324	15024	42230	21680
								3%	4%	7%	4%	10%	5%
							grade 6 events	6673	6688	129851	8131	95557	28793
								2%	2%	24%	2%	23%	6%
							grade 7 events	283867	263477	221347	276964	179915	284203
								85%	84%	41%	84%	44%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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	161.653124	161.644166482496	CCD I2 on	O3	Y
[deg] Pointing Dec	13.729401	13.7553232549271	CCD I3 on	O4	Y
[deg] Pointing Roll	77.599742	77.75848406597565	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	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)	412703568.184000	412702020.113	CCD S5 on	N	N
Observation start date	2011-01-29T15:51:42	2011-01-29T15:27:00	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	412748568.184000	412749334.11544	On-chip summing requested	N	N
Observation end date	2011-01-30T04:21:42	2011-01-30T04:35:34	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



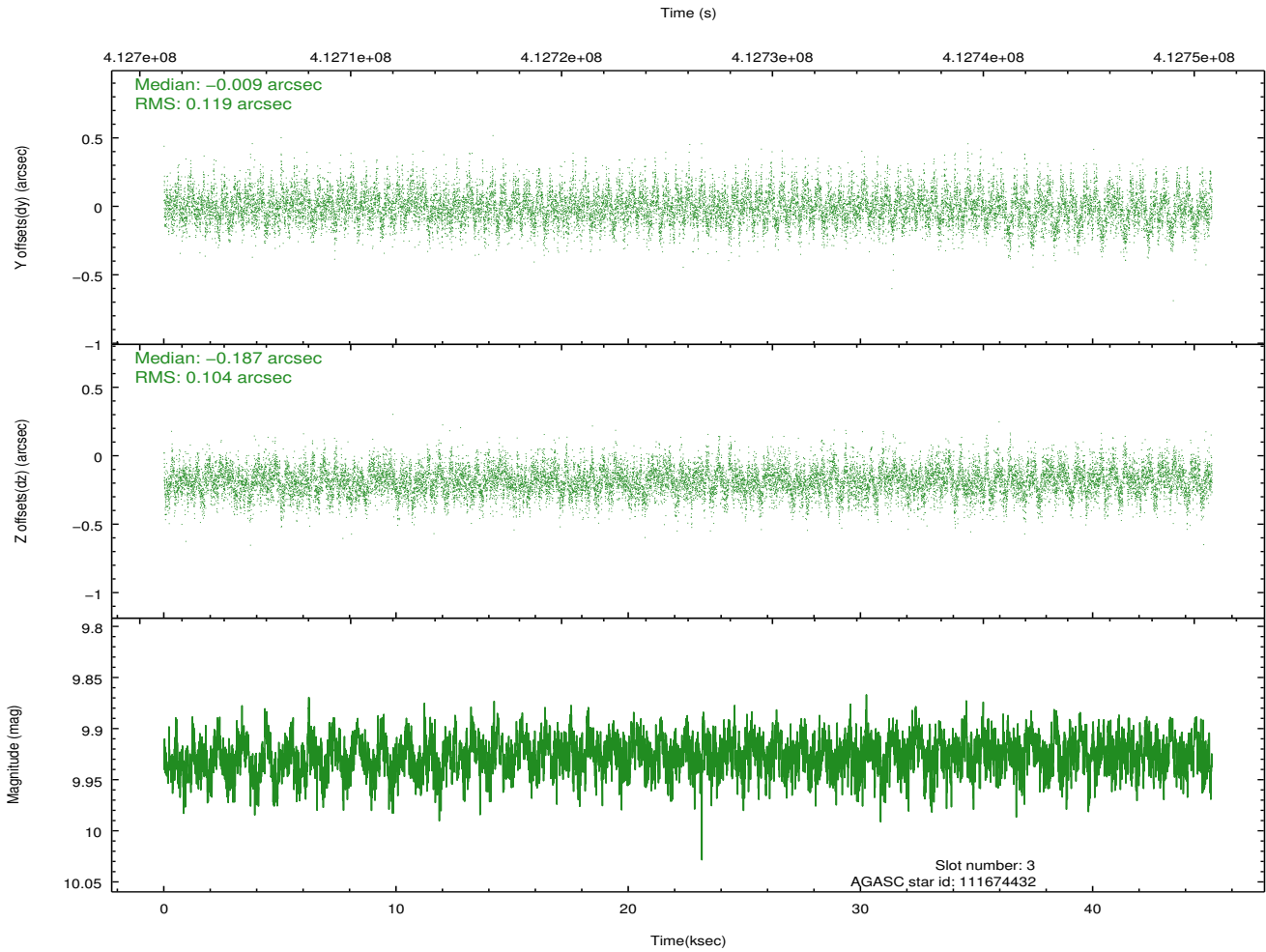
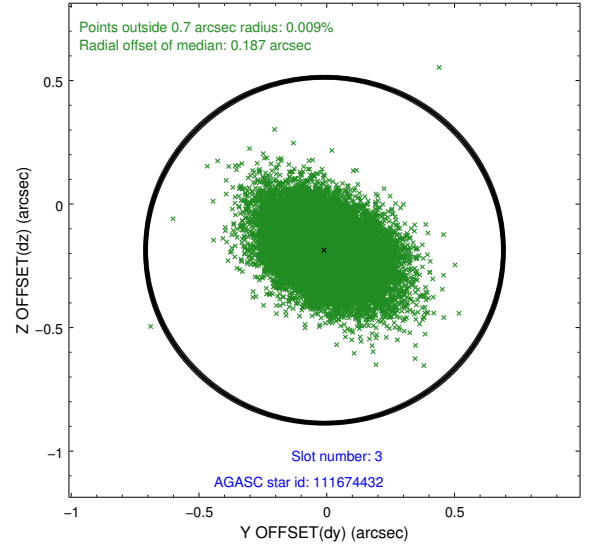
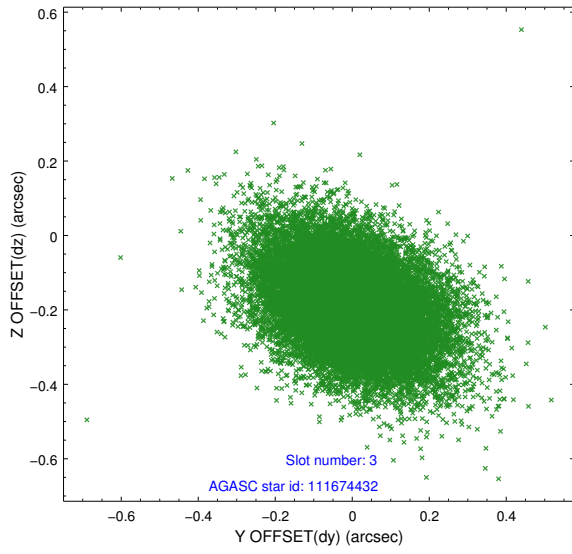


Slot Statistics

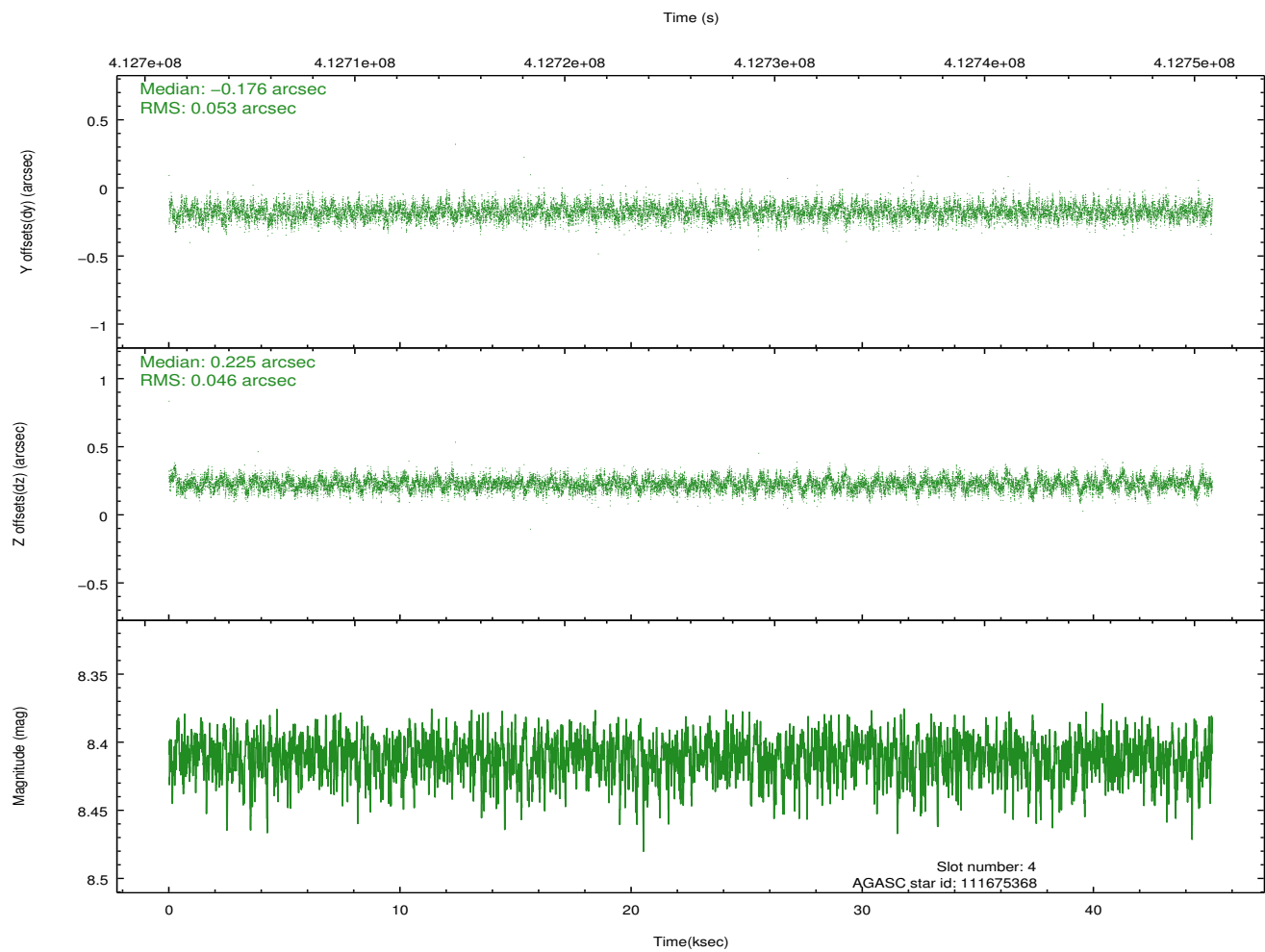
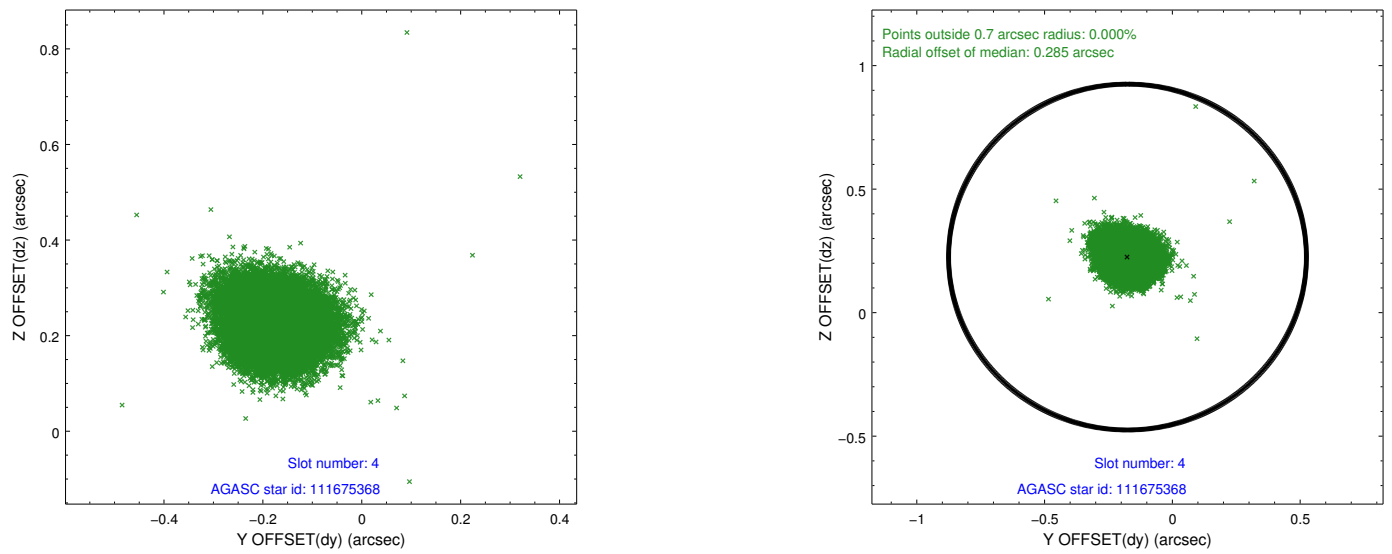
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.96	11008	-0.085	-0.018	0.011	0.031	0.000000	0.000000	-770.86	-1737.44
1	FID	ACIS-S-4	7.04	11007	0.207	0.045	0.016	0.026	0.000000	0.000000	2142.70	171.12
2	FID	ACIS-S-5	7.07	11007	-0.159	-0.020	0.020	0.037	0.000000	0.000000	-1823.79	164.71
3	GUIDE	111674432	9.93	21977	-0.009	-0.187	0.164	0.280	162.395995	14.201794	2222.29	-2165.67
4	GUIDE	111675368	8.41	22012	-0.176	0.225	0.074	0.119	162.015011	14.211720	1968.34	-859.97
5	GUIDE	111679712	8.30	22006	-0.042	0.075	0.090	0.142	161.646219	13.585301	-511.54	-87.95
6	GUIDE	111682696	8.38	22009	0.088	-0.008	0.072	0.115	161.852703	13.379057	-1080.92	-953.25
7	GUIDE	111683520	8.68	21995	0.135	-0.101	0.088	0.141	161.788539	13.663820	-128.30	-513.77

2.4 Star Slots

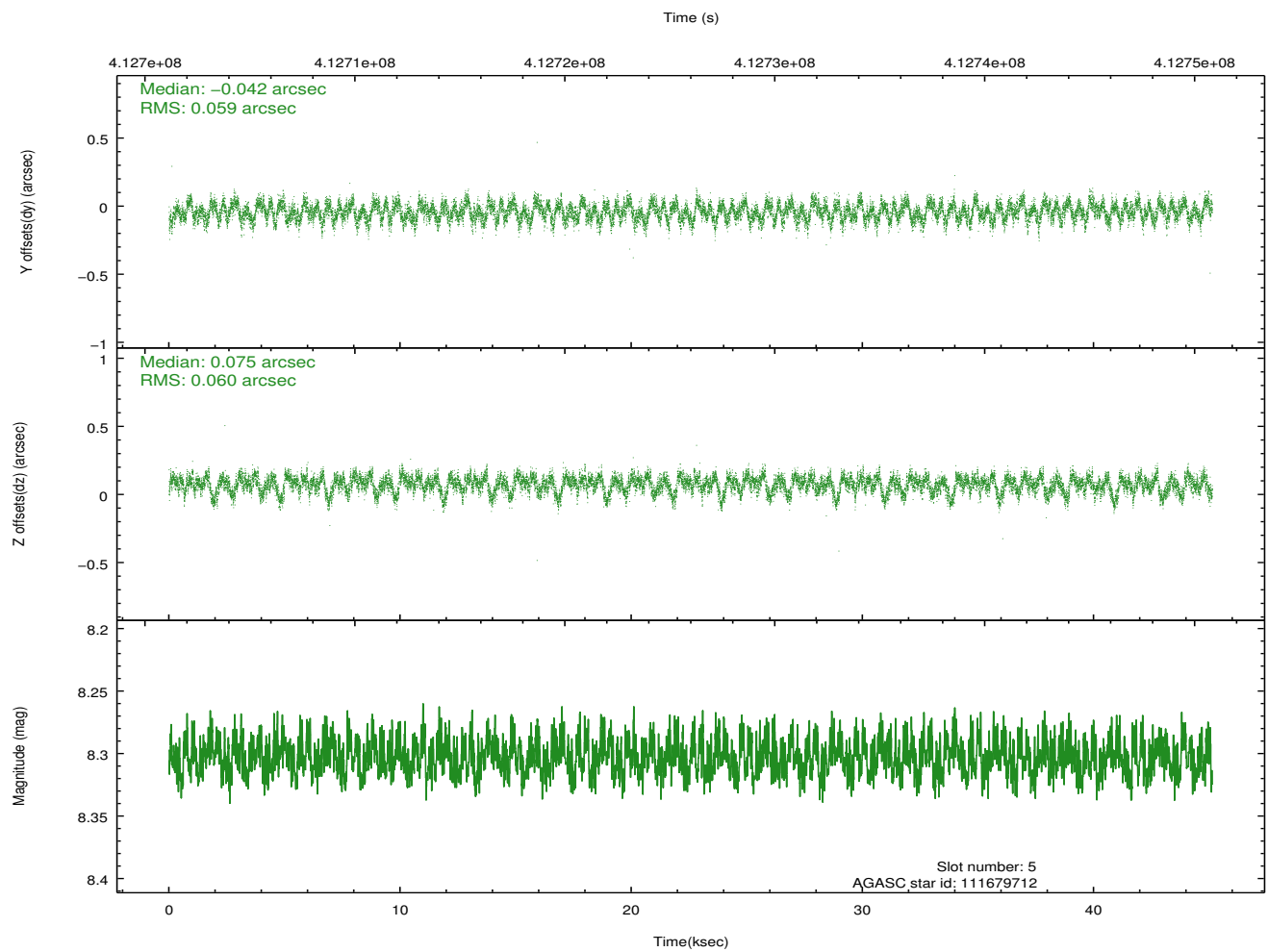
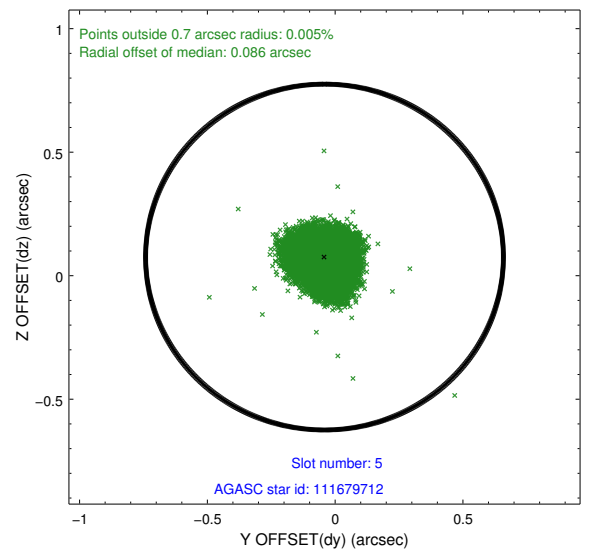
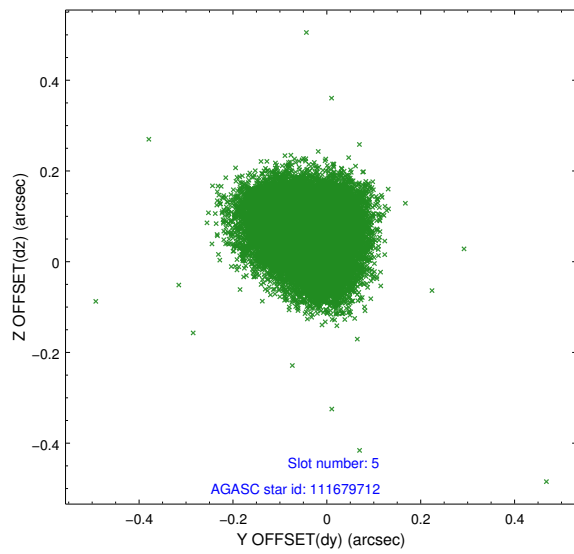
2.4.1 Slot 3



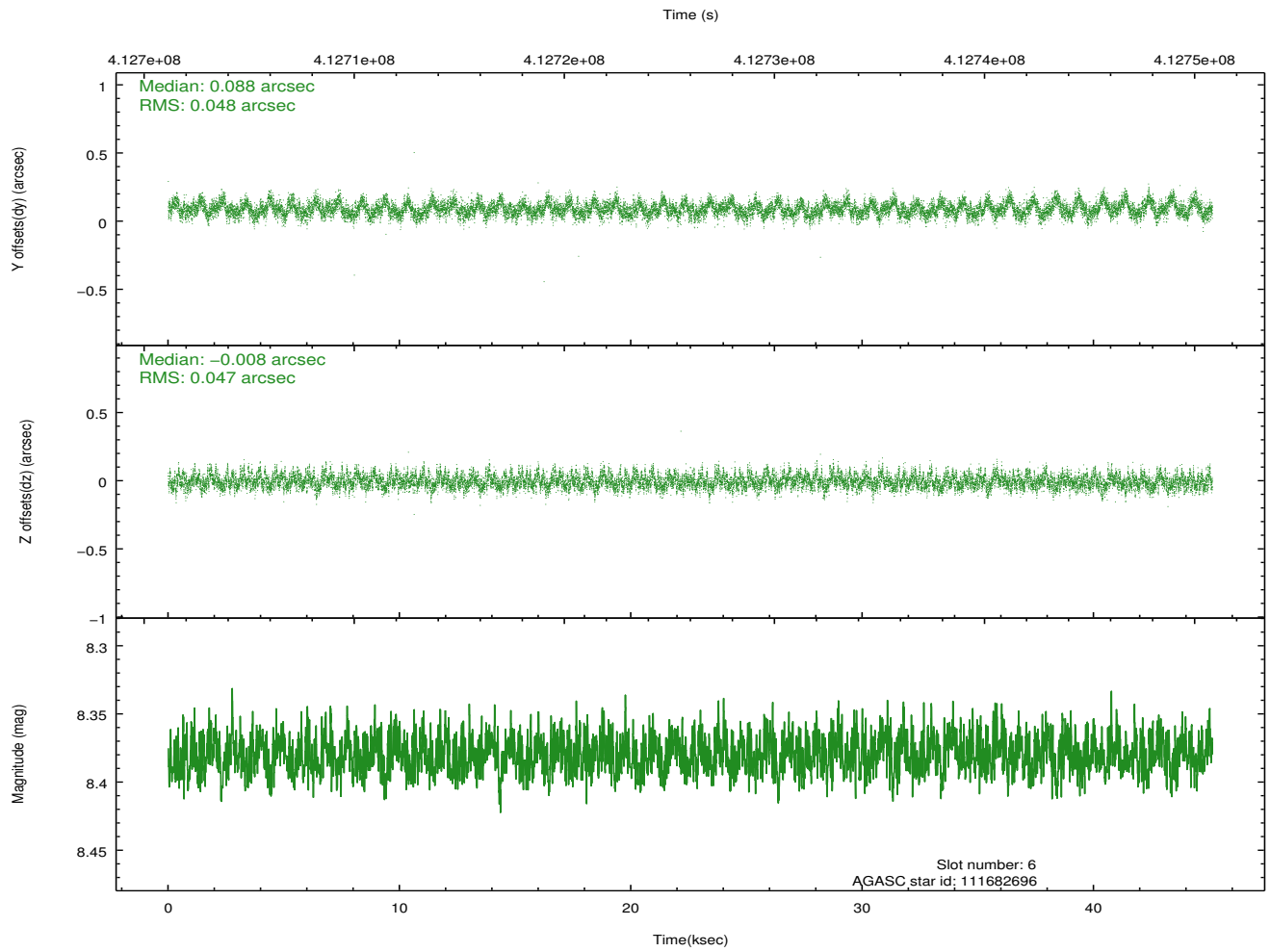
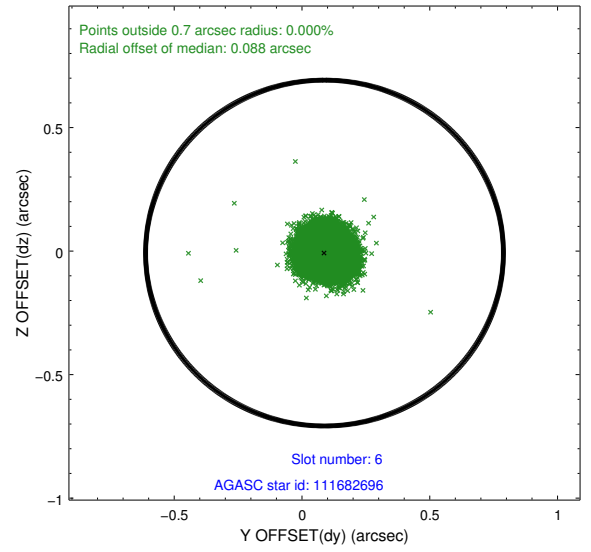
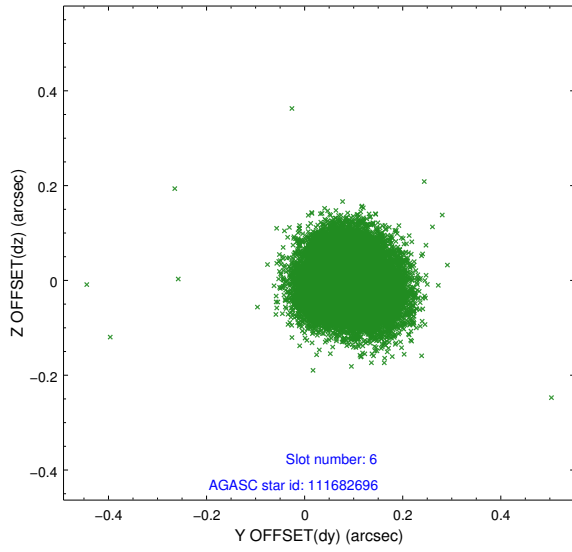
2.4.2 Slot 4



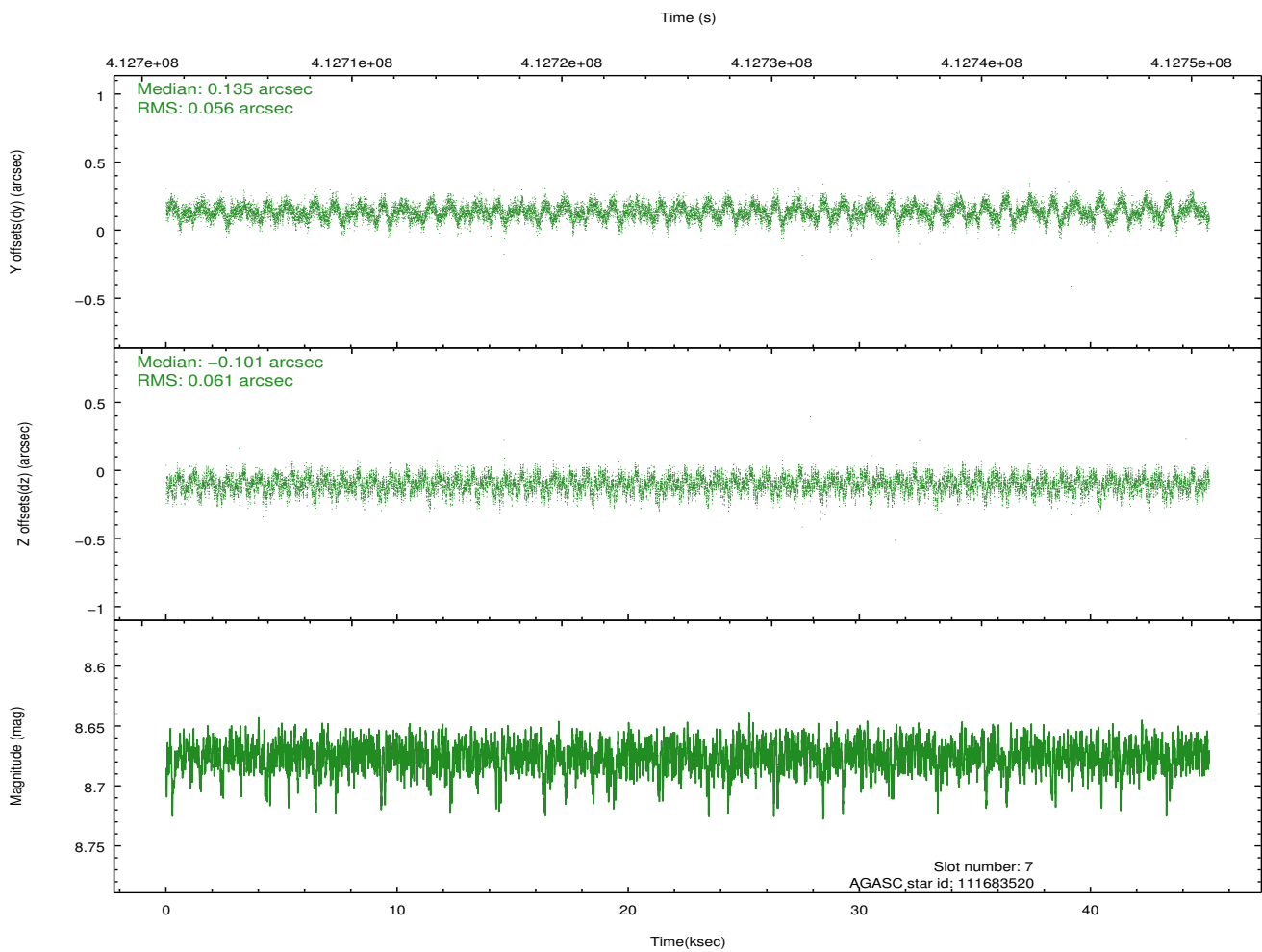
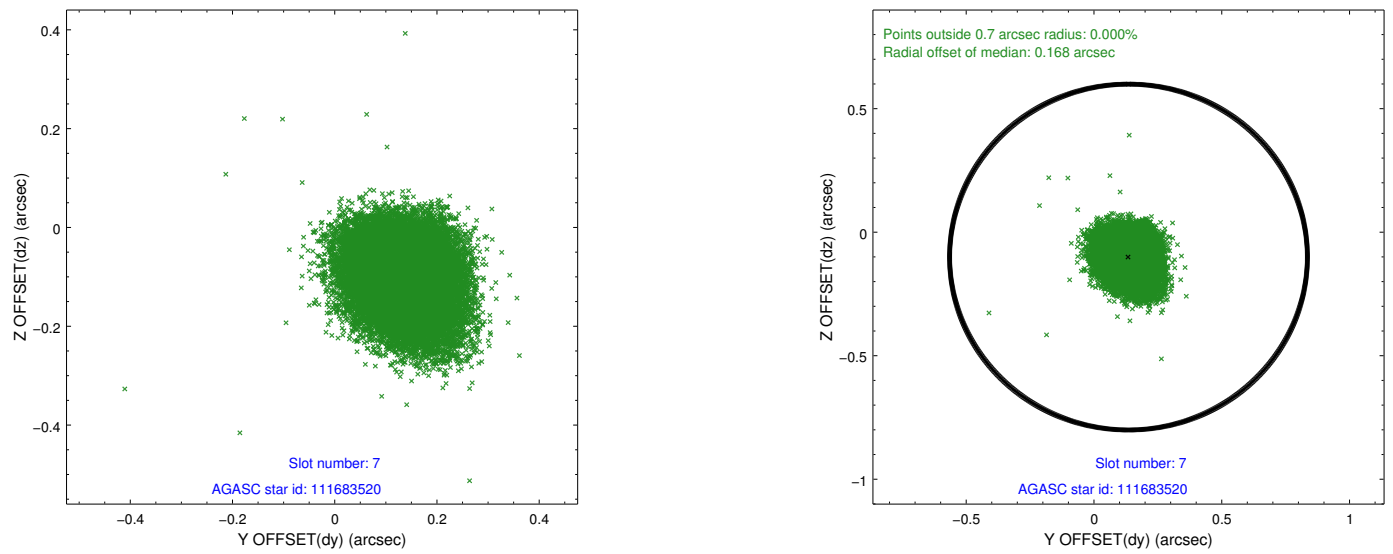
2.4.3 Slot 5



2.4.4 Slot 6

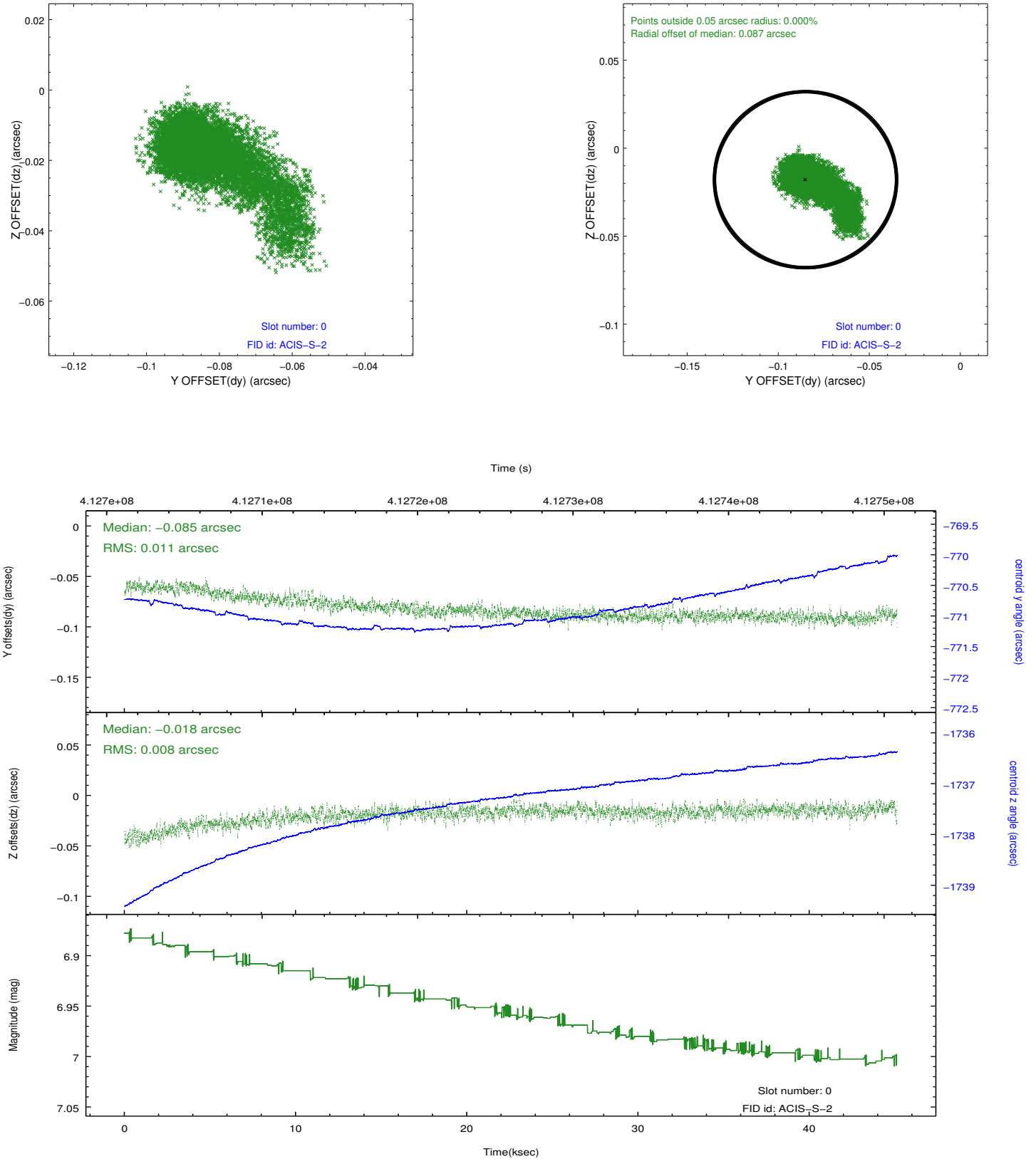


2.4.5 Slot 7

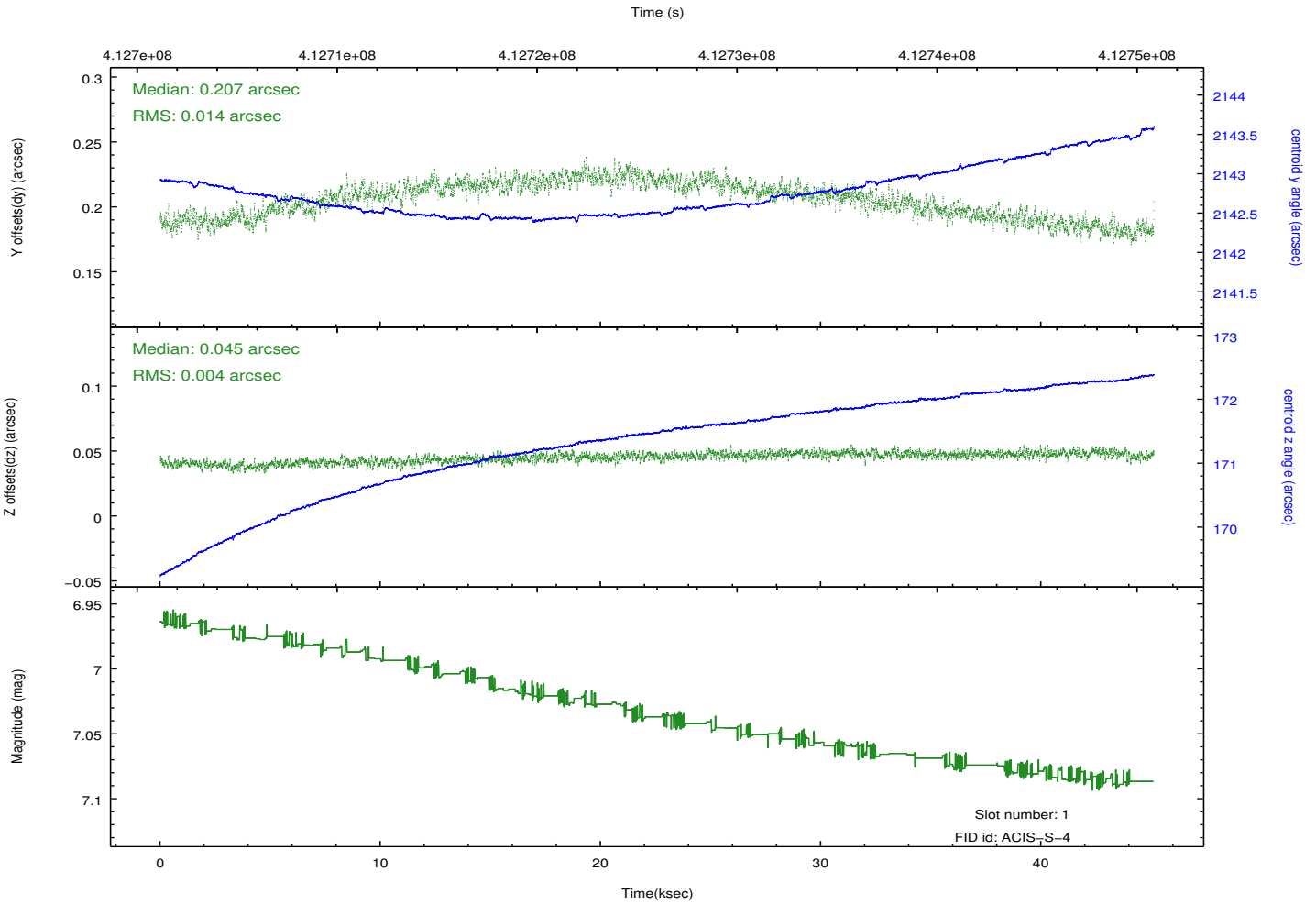
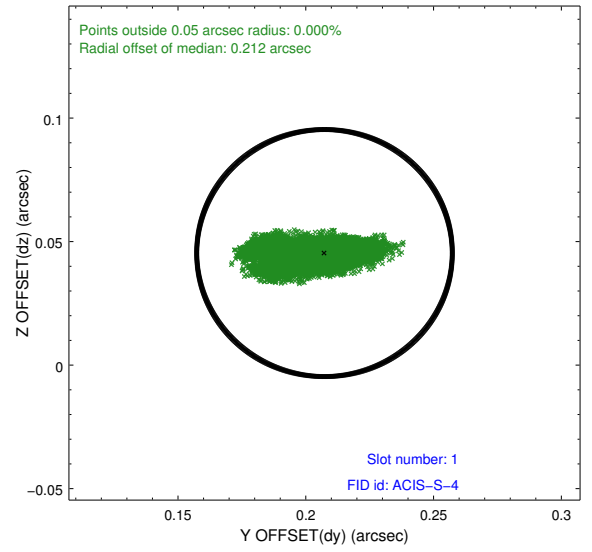
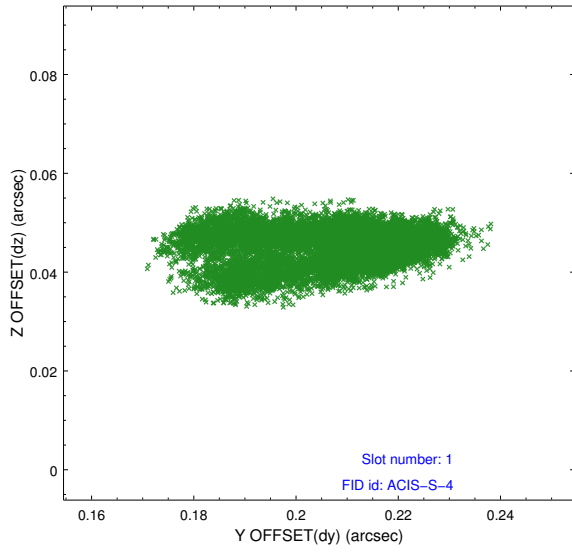


2.5 FID Slots

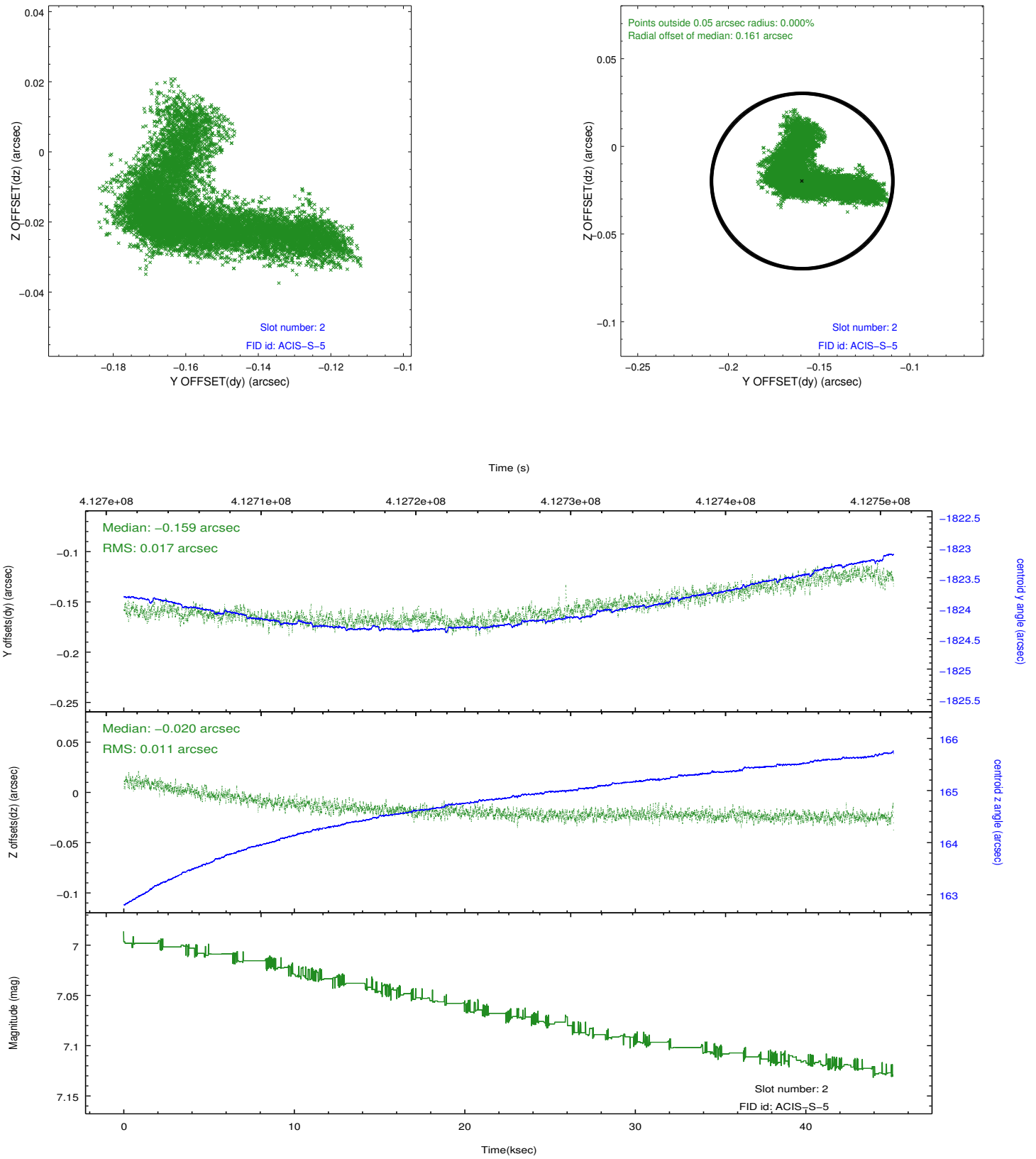
2.5.1 Slot 0



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)	2012.02.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.049263439834

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.