

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12425 - L2 Version 2
Chandra X-Ray Center

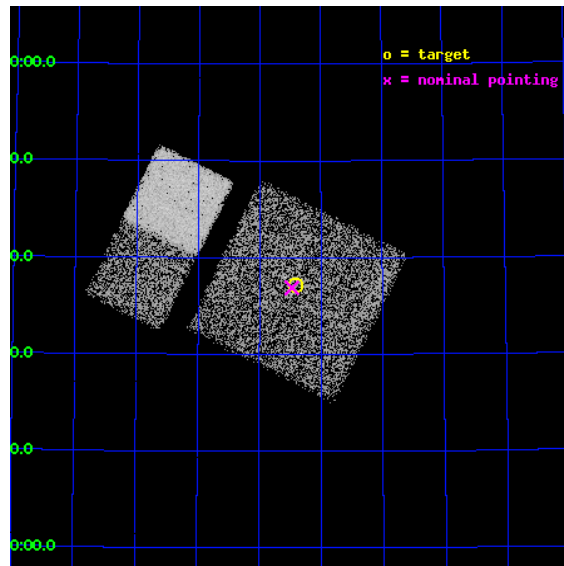
L2 Processing Date : Feb 3 2012

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1 Front

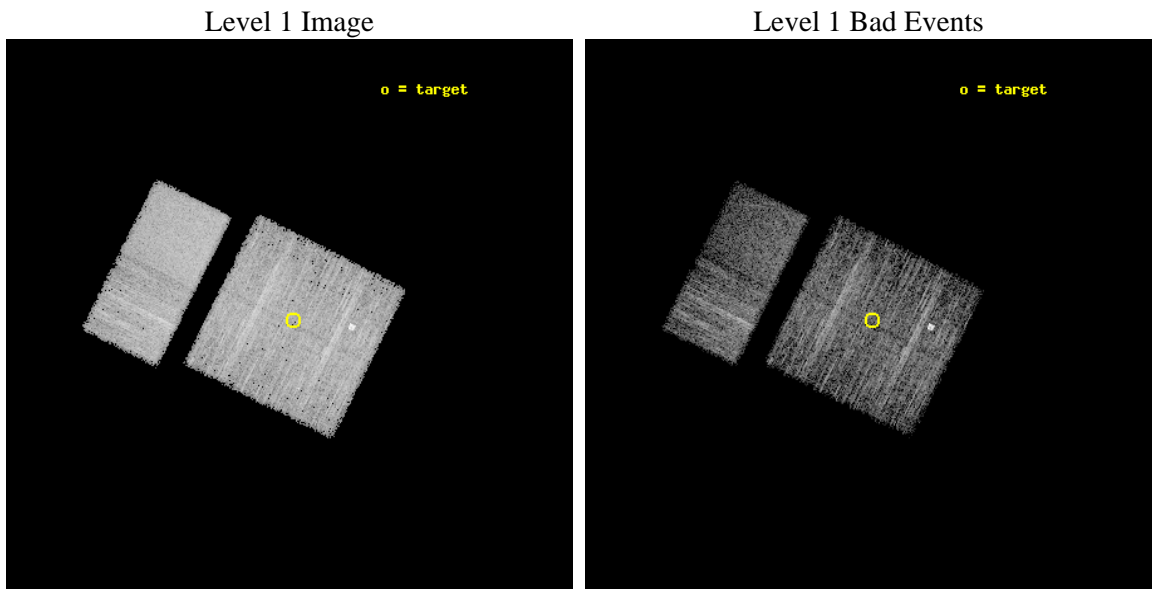
seq_num	401166	Sequence number
obs_id	12425	Observation id
title	The Nature of INTEGRAL Sources in the Galactic Plane	Proposal titl
observer	Dr. John Tomsick	Principal investigator
object	IGR J01545+6437	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	28.605	Observer's specified target RA [deg]
dec_targ	64.62	Observer's specified target Dec [deg]
ra_nom	28.618275638142	Nominal RA [deg]
dec_nom	64.614783004195	Nominal Dec [deg]
roll_nom	296.68631122479	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5051.4322153926	Sum of GTIs [s]
livetime	4987.467939074	Livetime [s]
ontime0	5051.3090953827	Sum of GTIs [s]
ontime1	5051.350135386	Sum of GTIs [s]
ontime2	5051.3911753893	Sum of GTIs [s]
ontime3	5051.4322153926	Sum of GTIs [s]
ontime6	5051.5142953992	Sum of GTIs [s]
ontime7	5051.4732553959	Sum of GTIs [s]
l2events	36388	Number of level 2 events



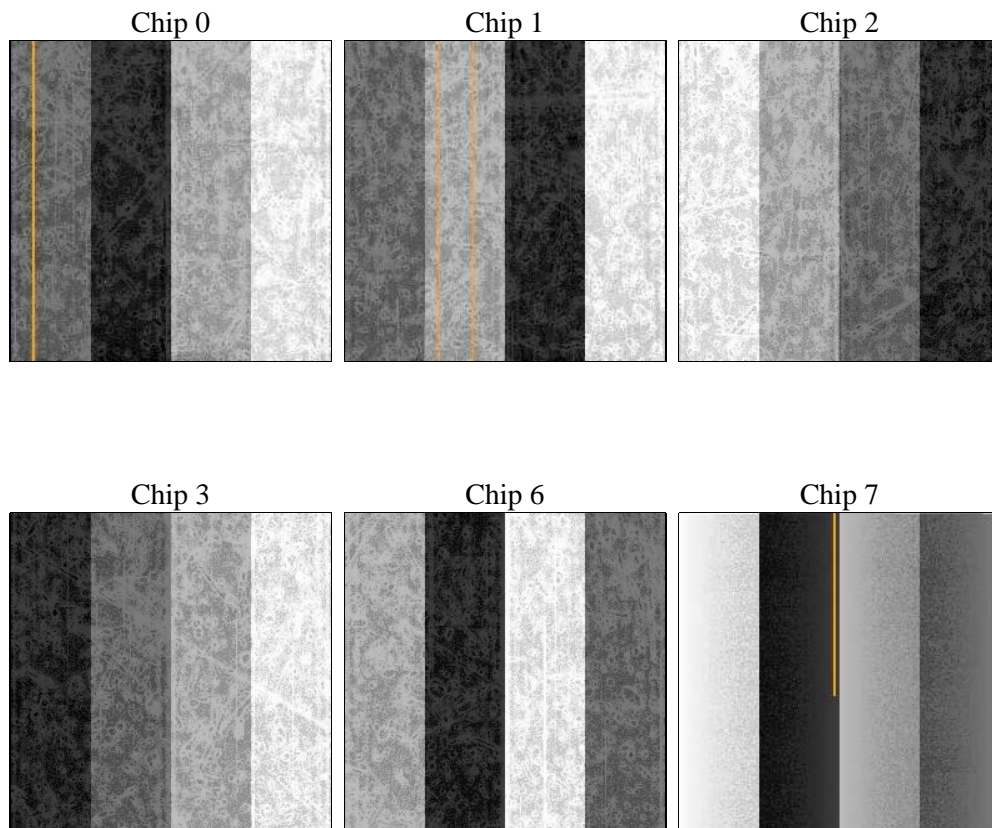
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	5051.4322153926	Sum of GTIs [s]
caldsver	4.4.7	 	ontime0	5051.3090953827	Sum of GTIs [s]
date	2012-02-03T15:11:31	Date and time of file creation	ontime1	5051.350135386	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	5051.3911753893	Sum of GTIs [s]
			ontime3	5051.4322153926	Sum of GTIs [s]
			ontime6	5051.5142953992	Sum of GTIs [s]
			ontime7	5051.4732553959	Sum of GTIs [s]
			l1events	228264	Number of level 1 events

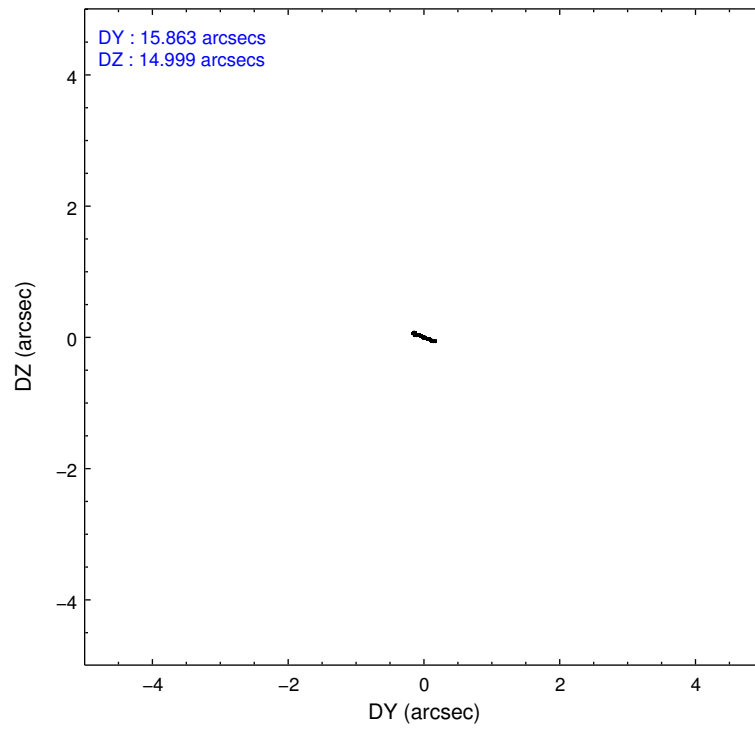
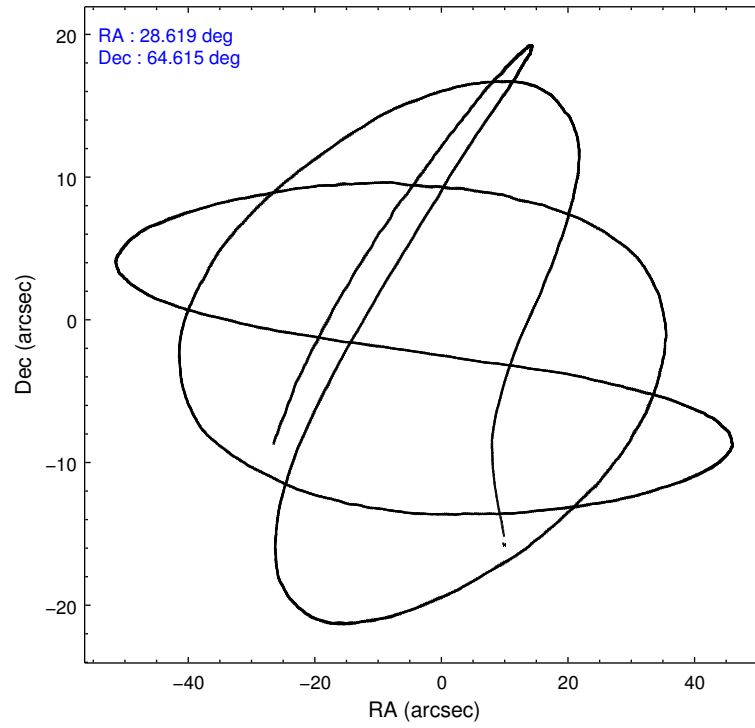
2.1.4 Events

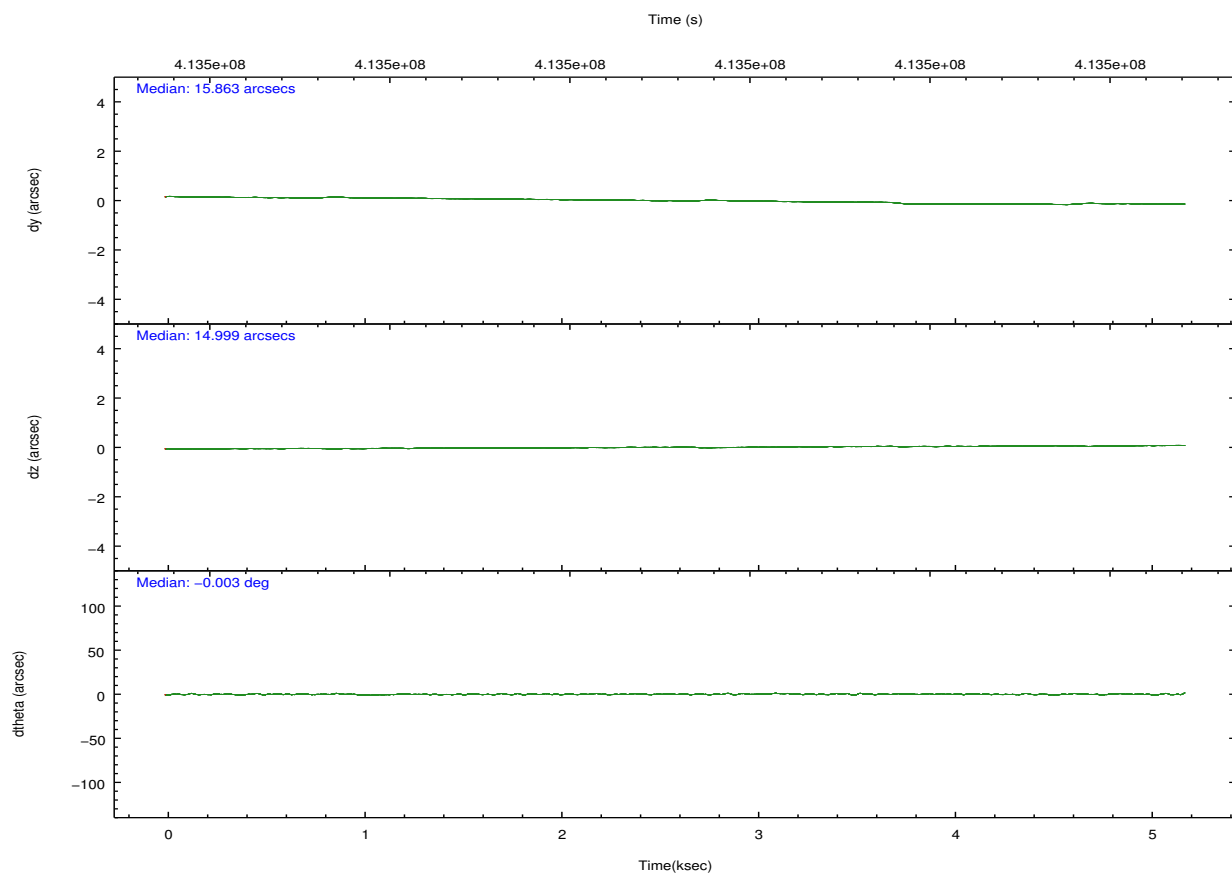
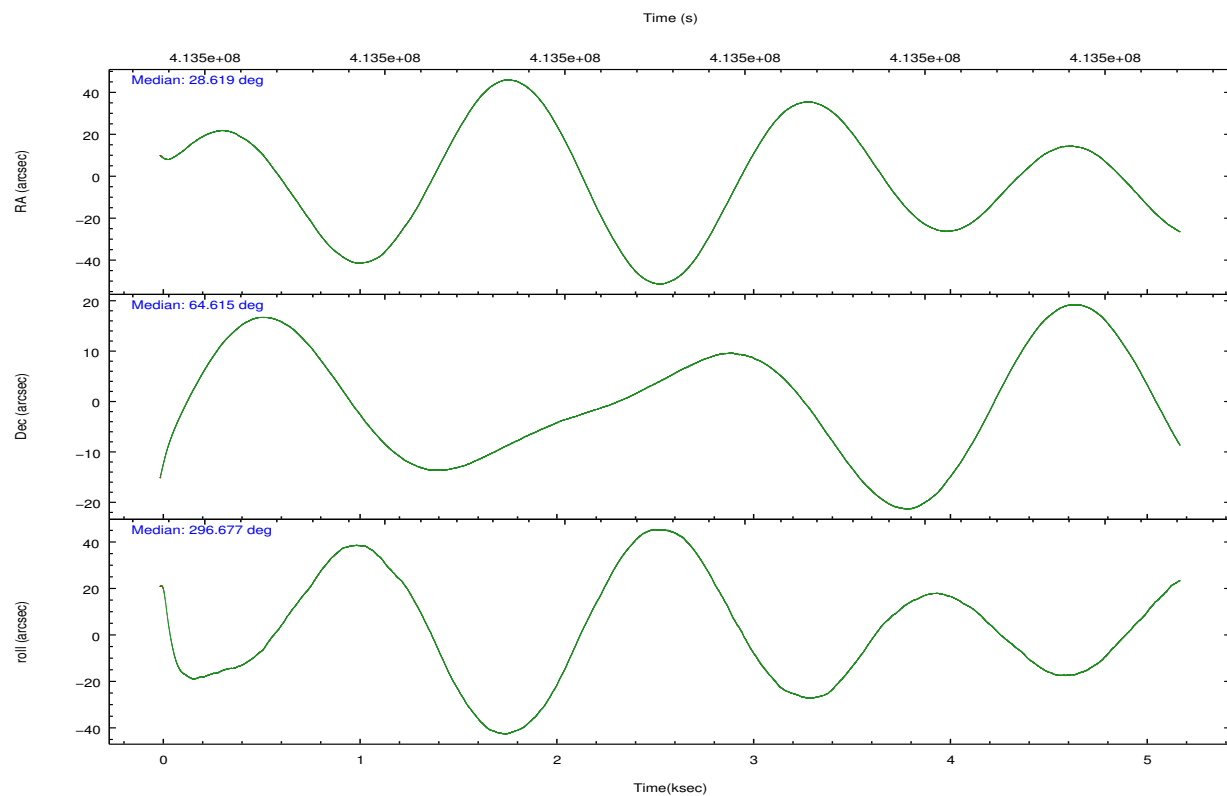
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	35580	36771	37166	34692	38973	45082	grade 0 events	1462	1534	1379	1330	1399	1703
rejected events	31530	32446	33241	30894	34863	25209		4%	4%	3%	3%	3%	3%
rejected %	88%	88%	89%	89%	89%	55%	grade 1 events	17	1481	21	23	22	61
								0%	4%	0%	0%	0%	0%
							grade 2 events	998	962	947	873	952	4131
								2%	2%	2%	2%	2%	9%
							grade 3 events	414	453	416	394	422	1687
								1%	1%	1%	1%	1%	3%
							grade 4 events	367	451	396	426	405	1714
								1%	1%	1%	1%	1%	3%
							grade 5 events	1578	1597	1417	1626	1768	4614
								4%	4%	3%	4%	4%	10%
							grade 6 events	814	927	790	776	934	10647
								2%	2%	2%	2%	2%	23%
							grade 7 events	29930	29366	31800	29244	33071	20525
								84%	79%	85%	84%	84%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	28.564326	28.61827563814234	CCD I2 on	Y	Y
[deg] Pointing Dec	64.629194	64.61478300419485	CCD I3 on	Y	Y
[deg] Pointing Roll	296.526284	296.6863112247877	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	413495175.184000	413494151.94149	CCD S5 on	N	N
Observation start date	2011-02-07T19:45:09	2011-02-07T19:29:11	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	413500175.184000	413501438.66687	On-chip summing requested	N	N
Observation end date	2011-02-07T21:08:29	2011-02-07T21:30:38	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



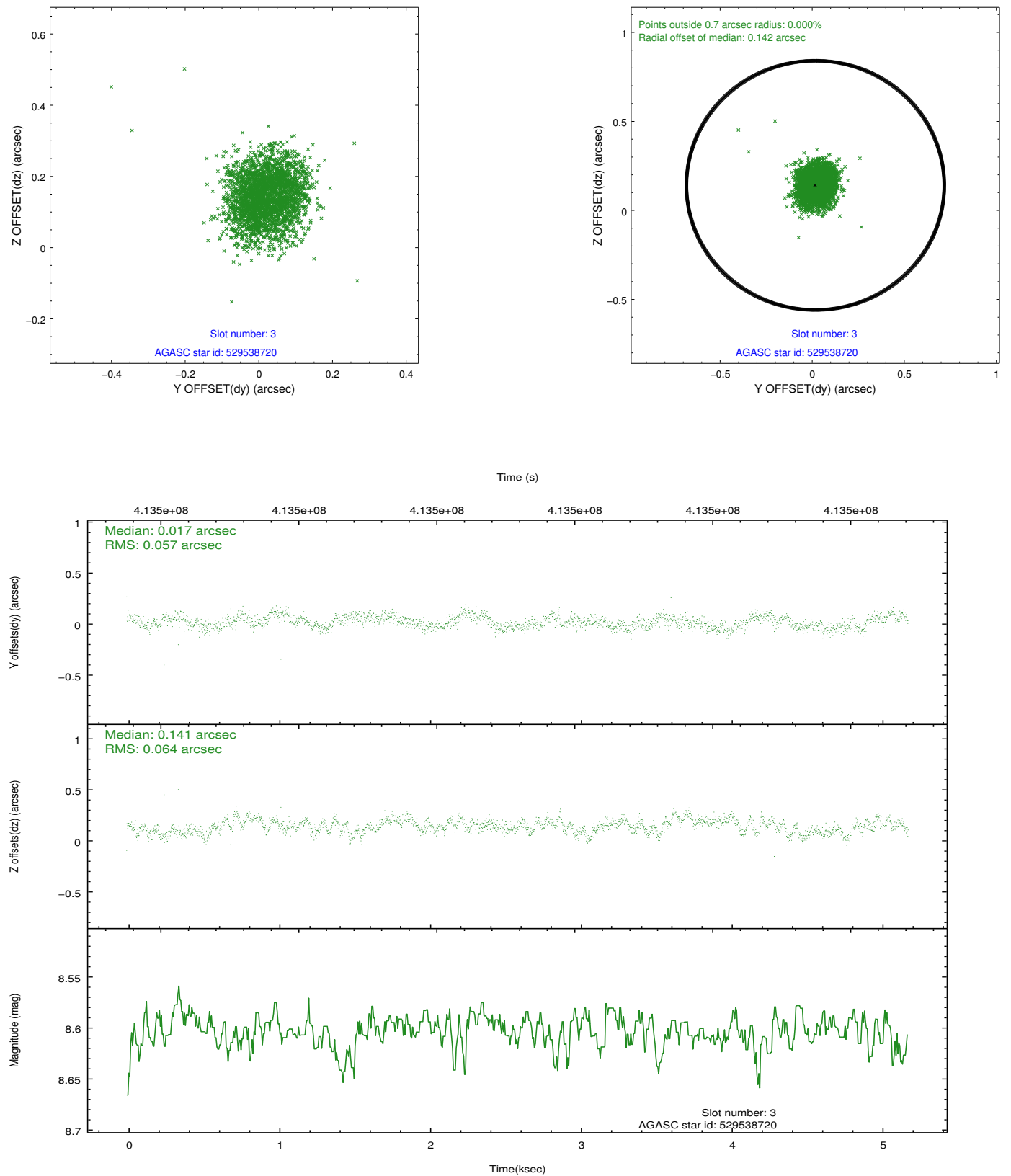


Slot Statistics

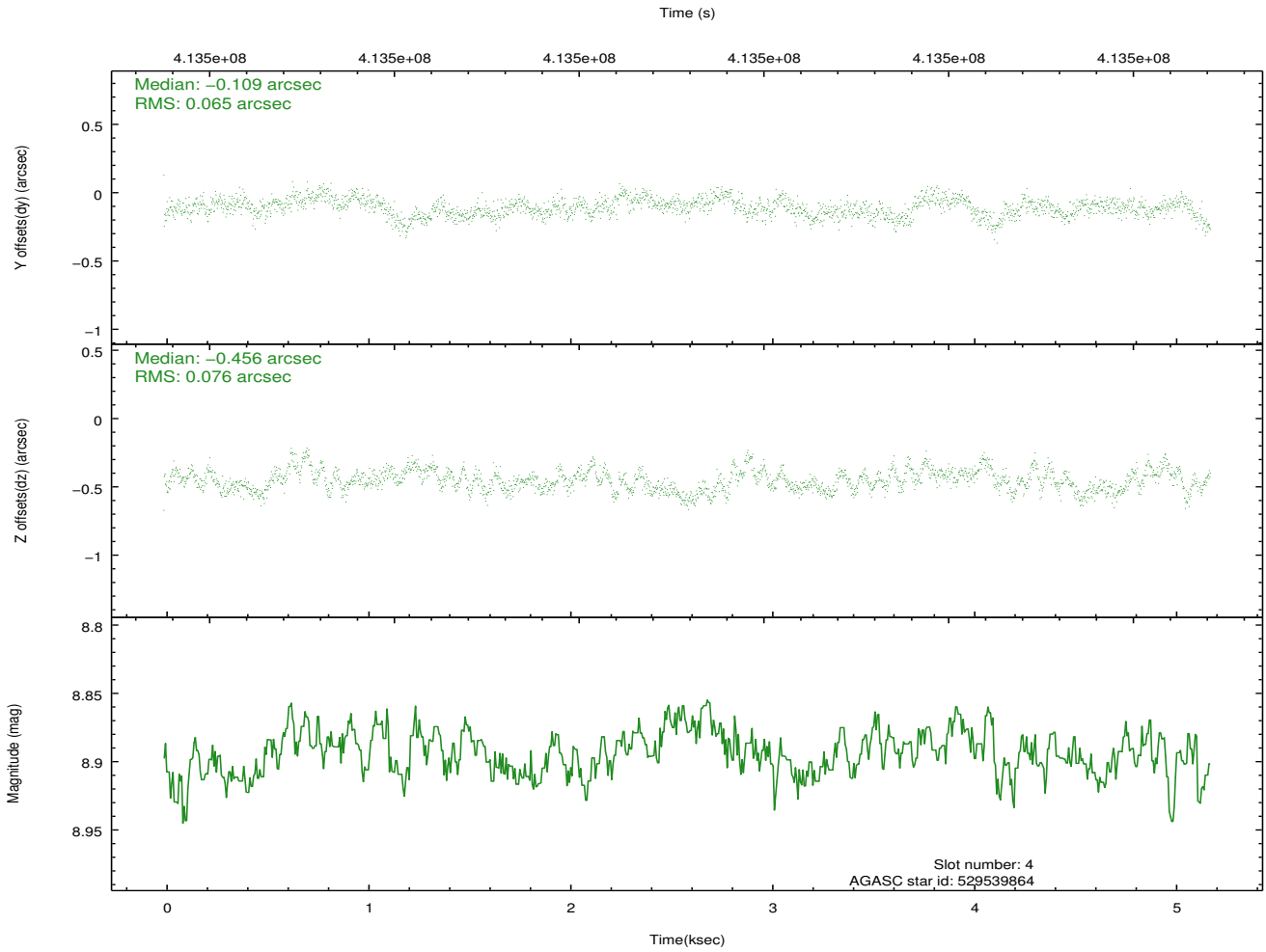
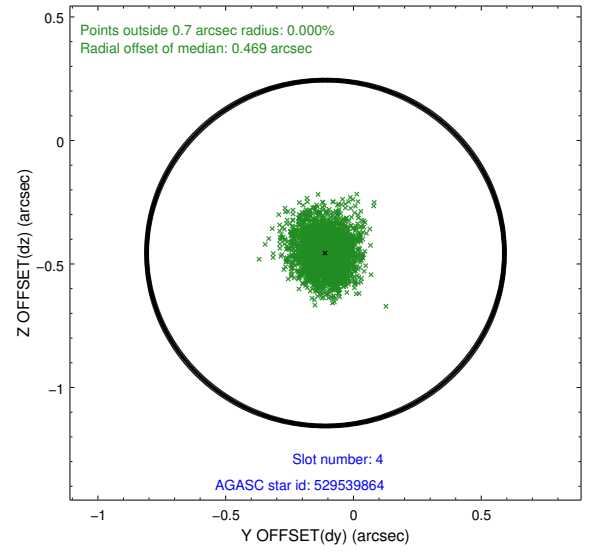
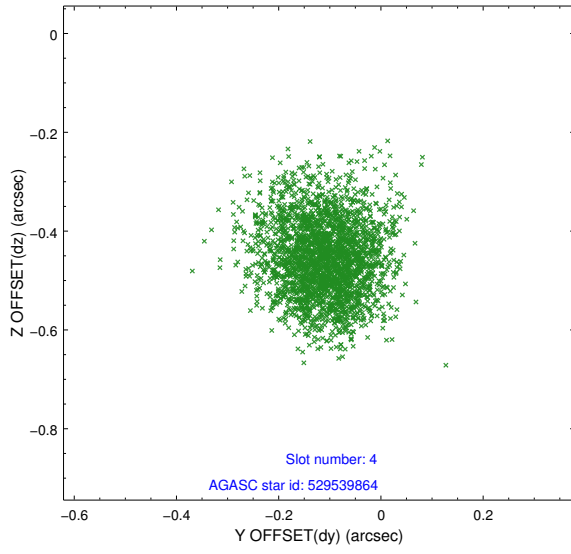
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.16	1265	0.044	-0.028	0.006	0.011	0.000000	0.000000	923.63	-838.61
1	FID	ACIS-I-5	7.15	1264	-0.235	0.038	0.006	0.010	0.000000	0.000000	-1824.13	1058.32
2	FID	ACIS-I-6	7.16	1265	0.100	0.060	0.006	0.010	0.000000	0.000000	387.93	1704.20
3	GUIDE	529538720	8.60	2528	0.017	0.141	0.090	0.143	27.319366	64.843076	-1553.50	-1353.46
4	GUIDE	529539864	8.89	2525	-0.109	-0.456	0.106	0.171	28.623305	64.793145	-486.53	342.40
5	GUIDE	529531992	8.02	2529	-0.202	0.145	0.098	0.159	29.402813	65.410087	-1960.59	2382.08
6	GUIDE	529542176	9.83	2525	0.253	0.075	0.185	0.299	29.044646	64.528495	655.36	504.78
7	GUIDE	529534872	9.37	2522	0.037	0.096	0.125	0.196	29.663784	65.143860	-925.57	2321.82

2.4 Star Slots

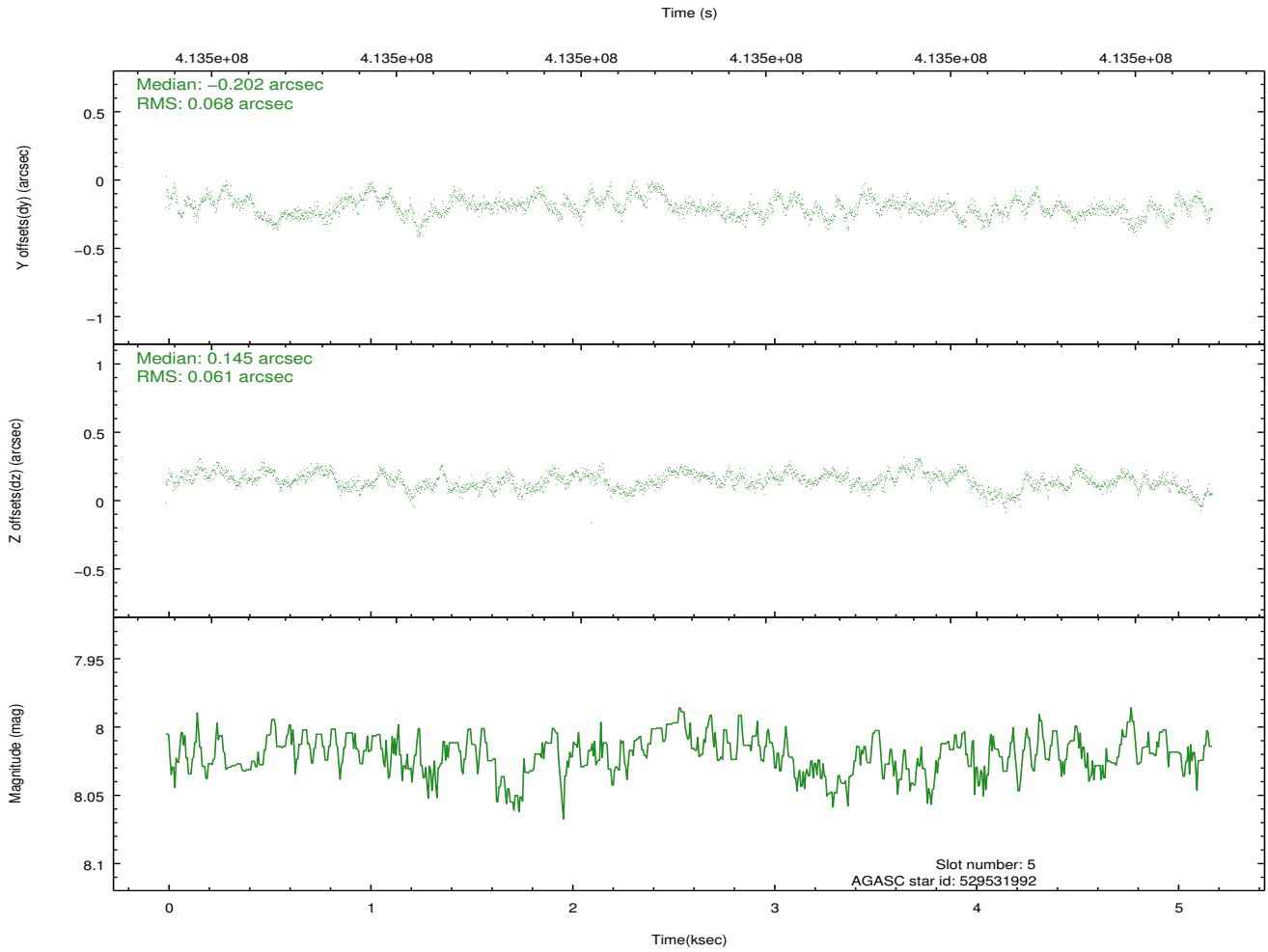
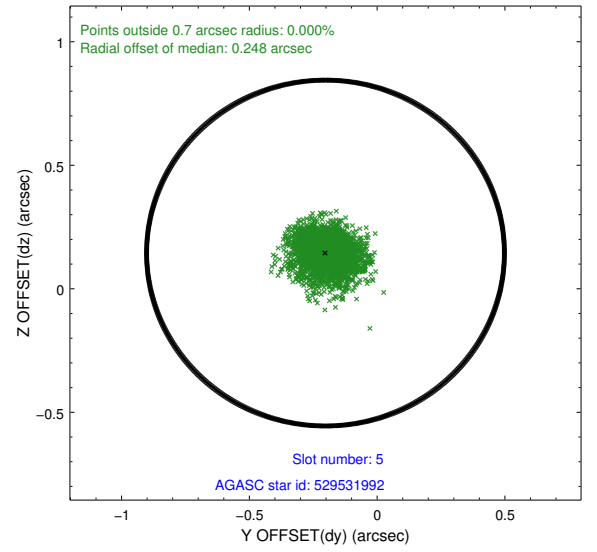
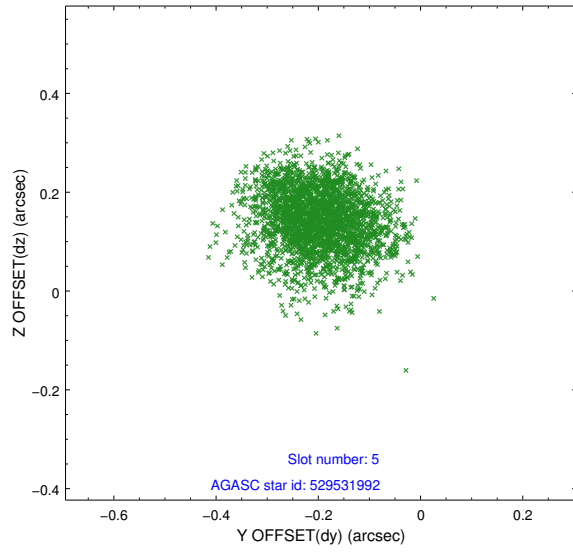
2.4.1 Slot 3



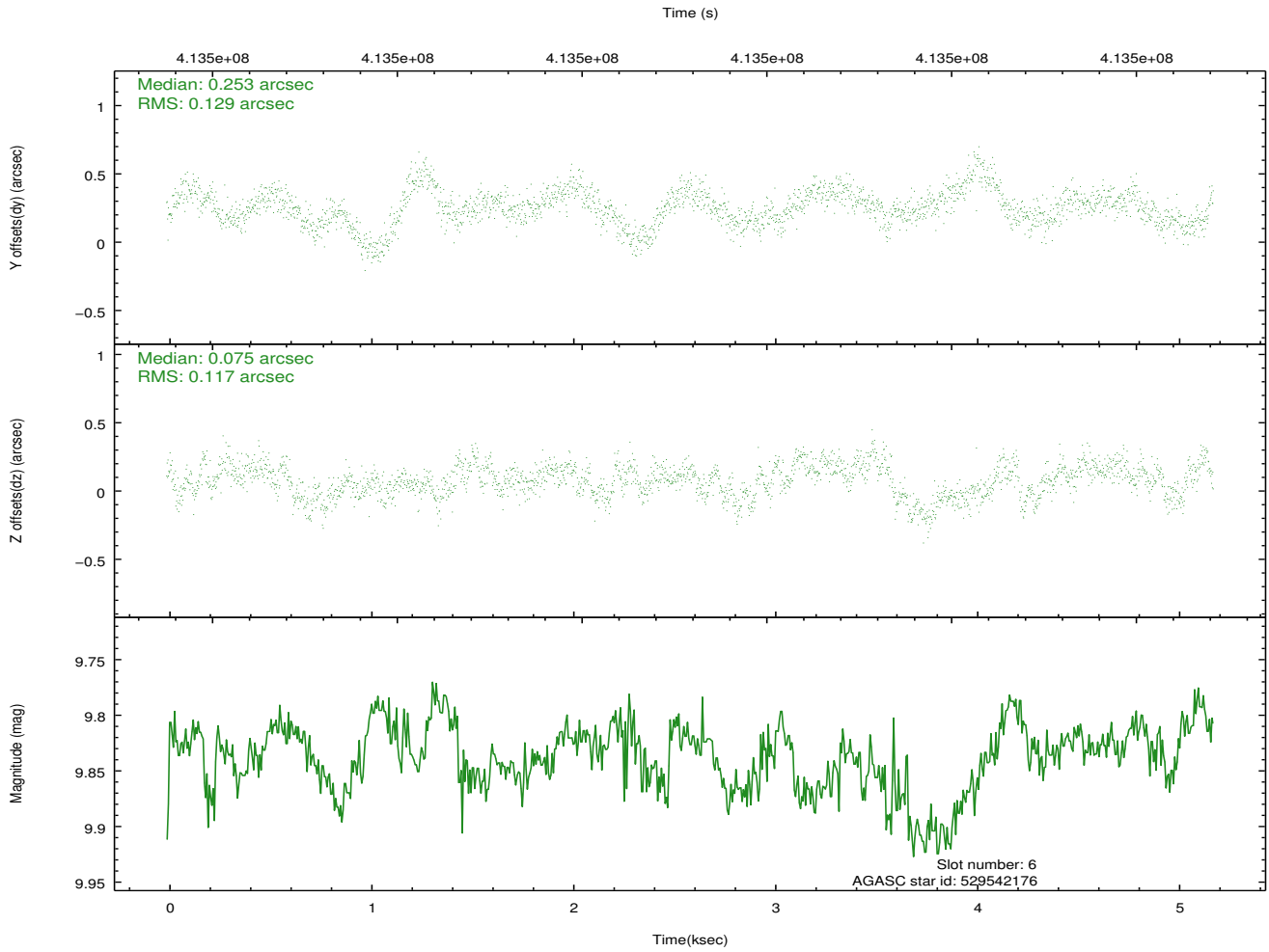
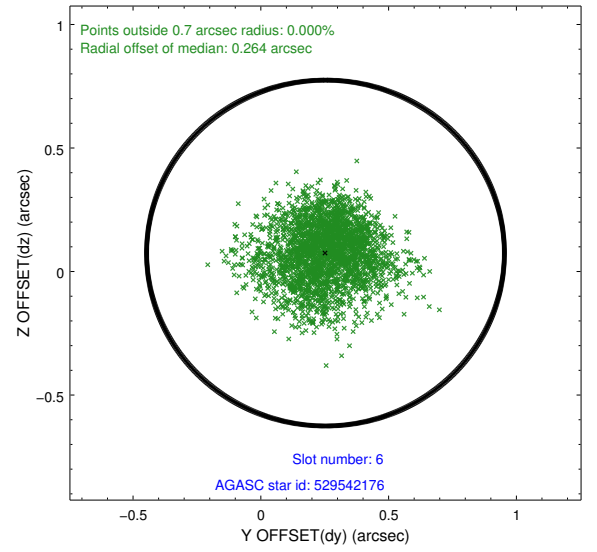
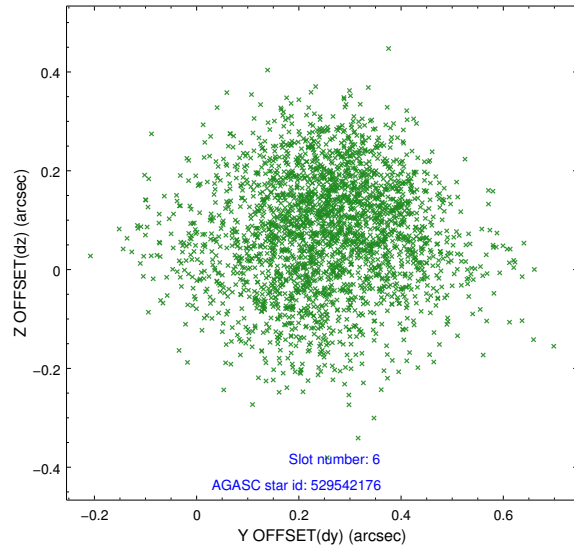
2.4.2 Slot 4



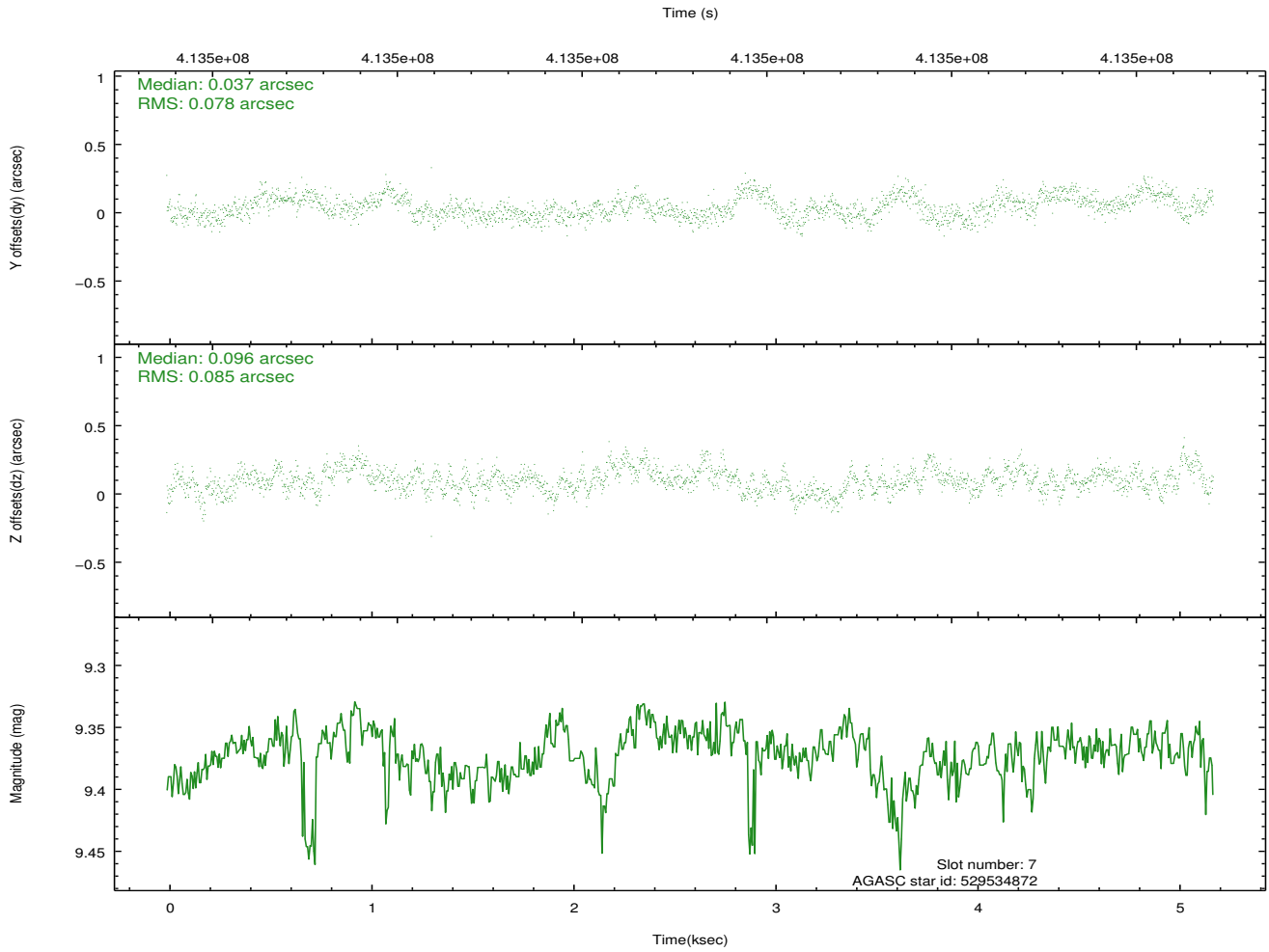
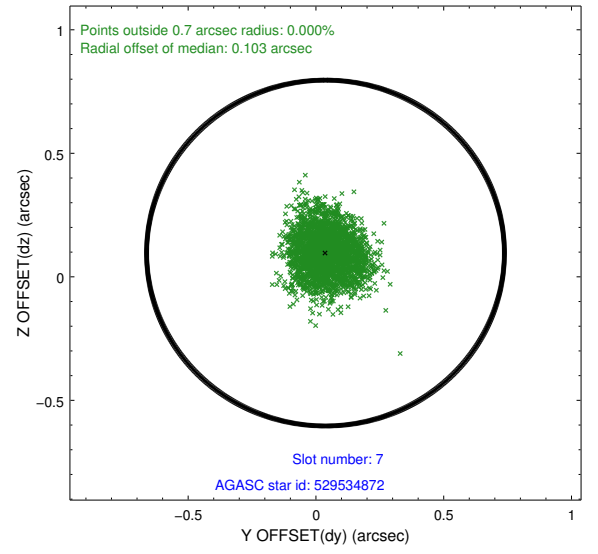
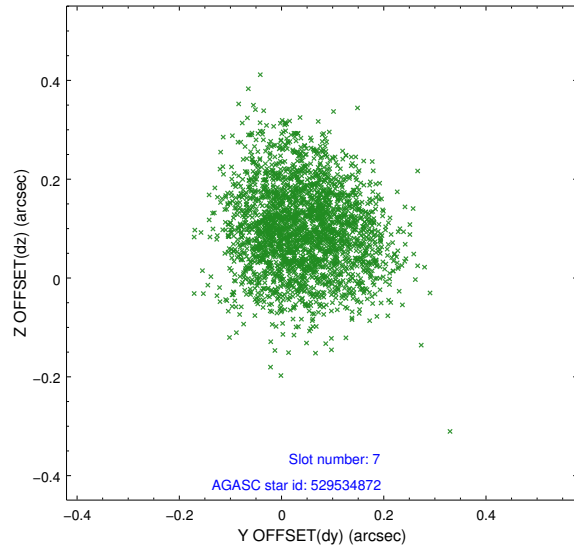
2.4.3 Slot 5



2.4.4 Slot 6

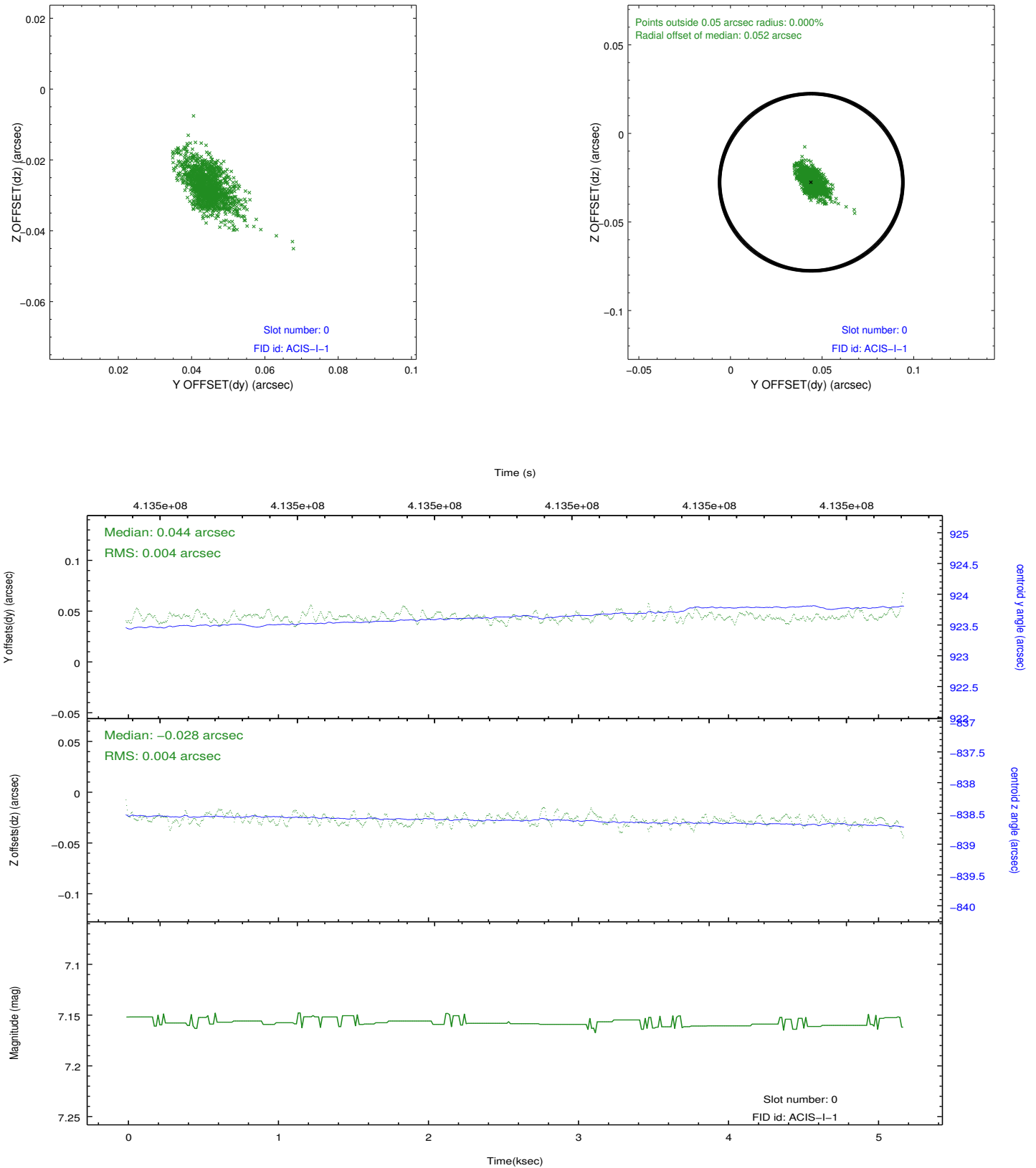


2.4.5 Slot 7

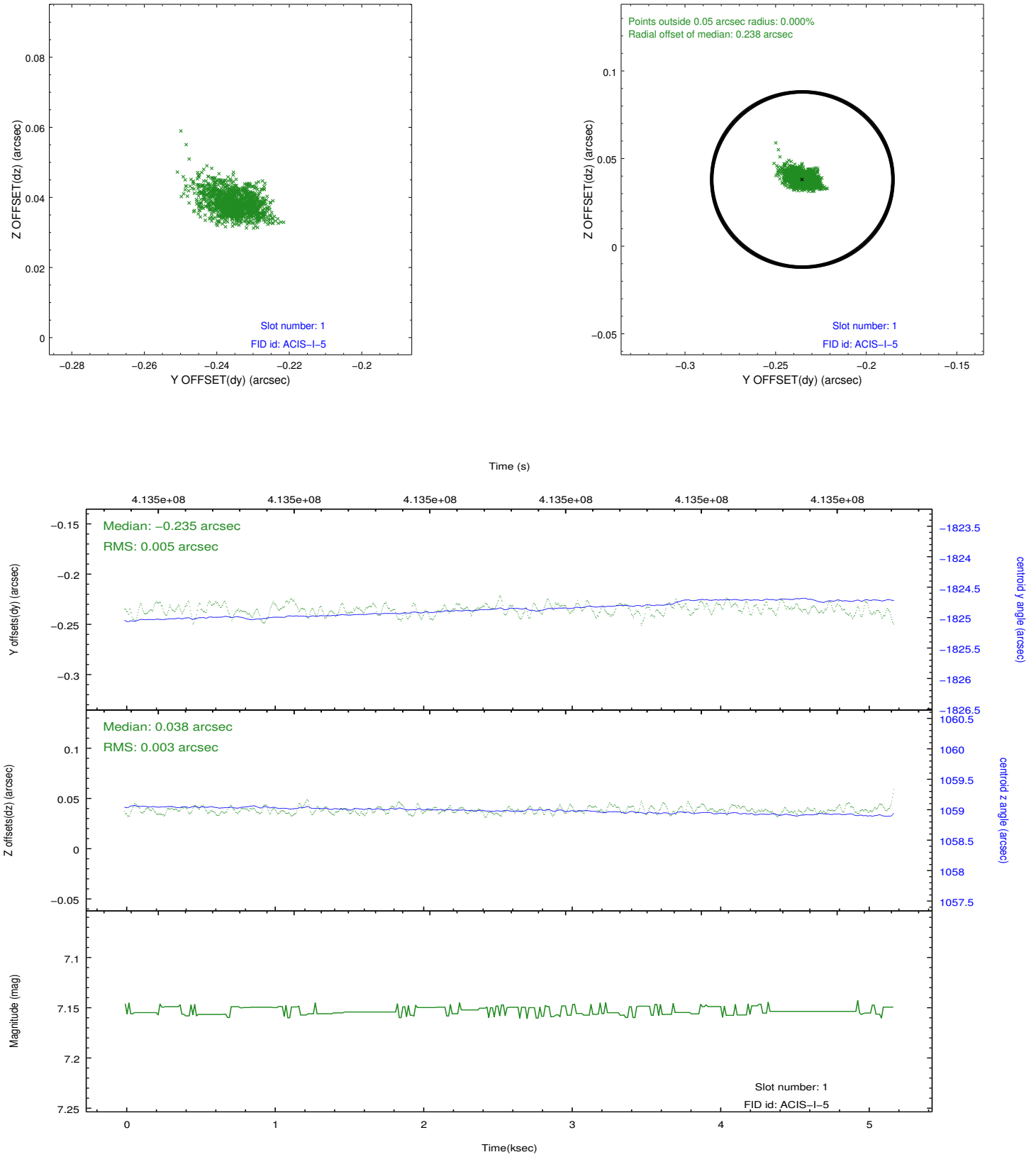


2.5 FID Slots

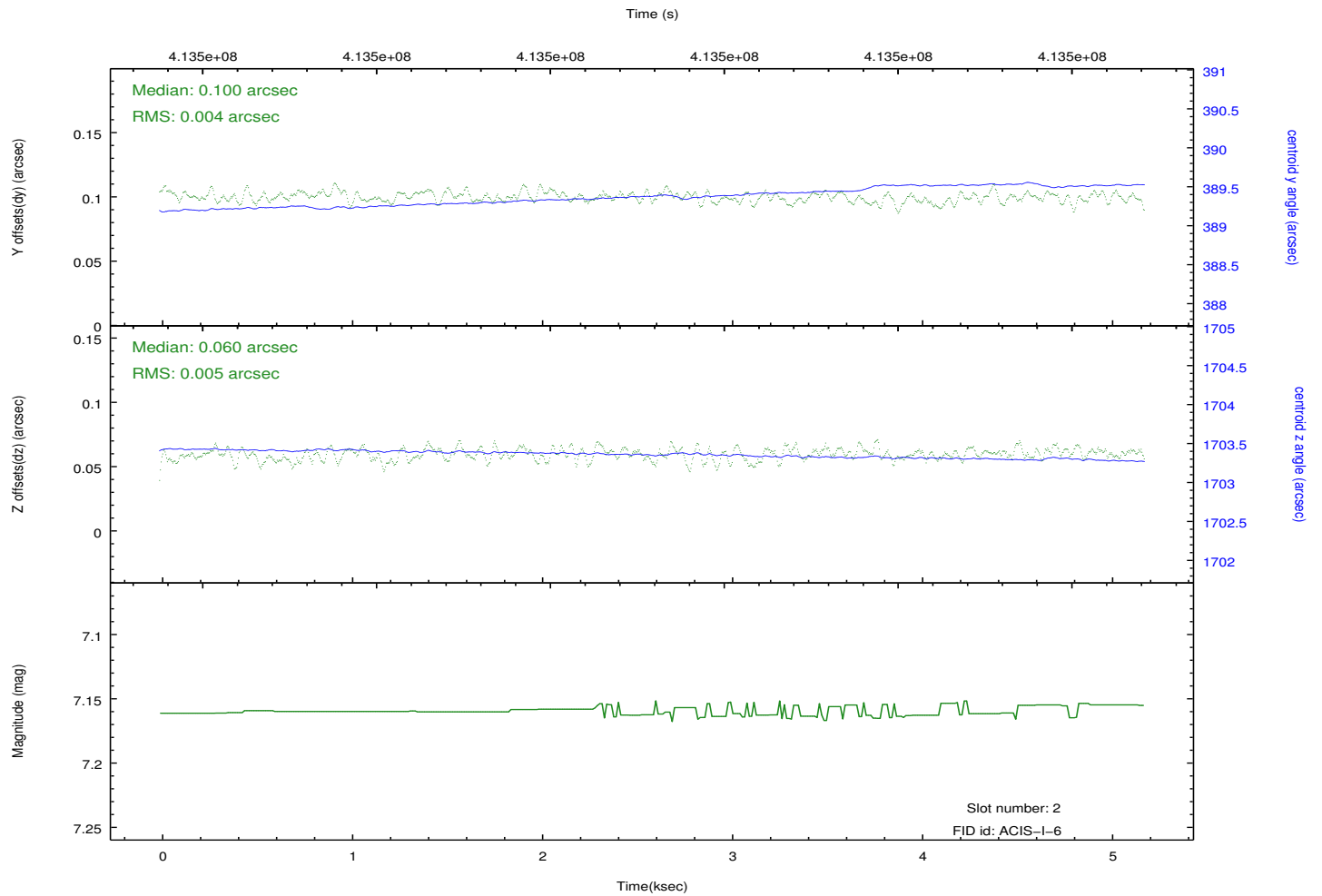
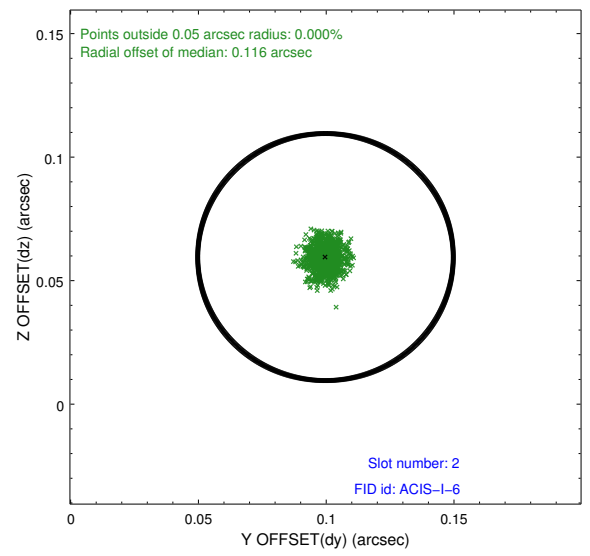
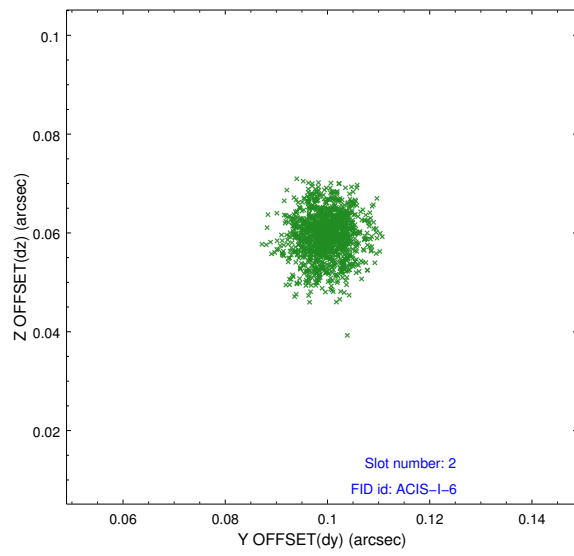
2.5.1 Slot 0



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	5.0514322178364

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.