

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12817 - L2 Version 2
Chandra X-Ray Center

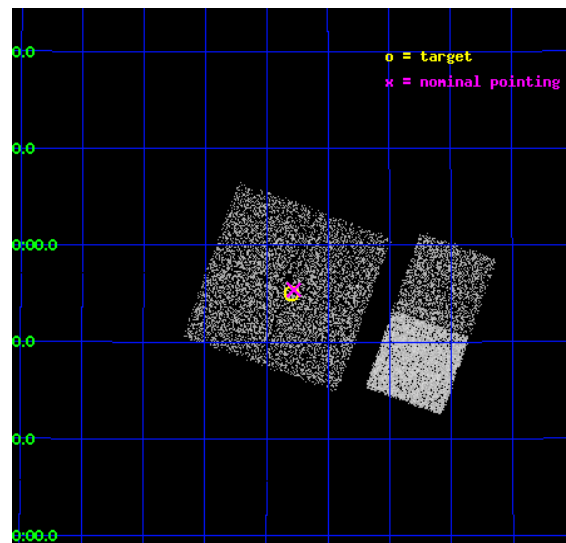
L2 Processing Date : Feb 1 2012

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1 Front

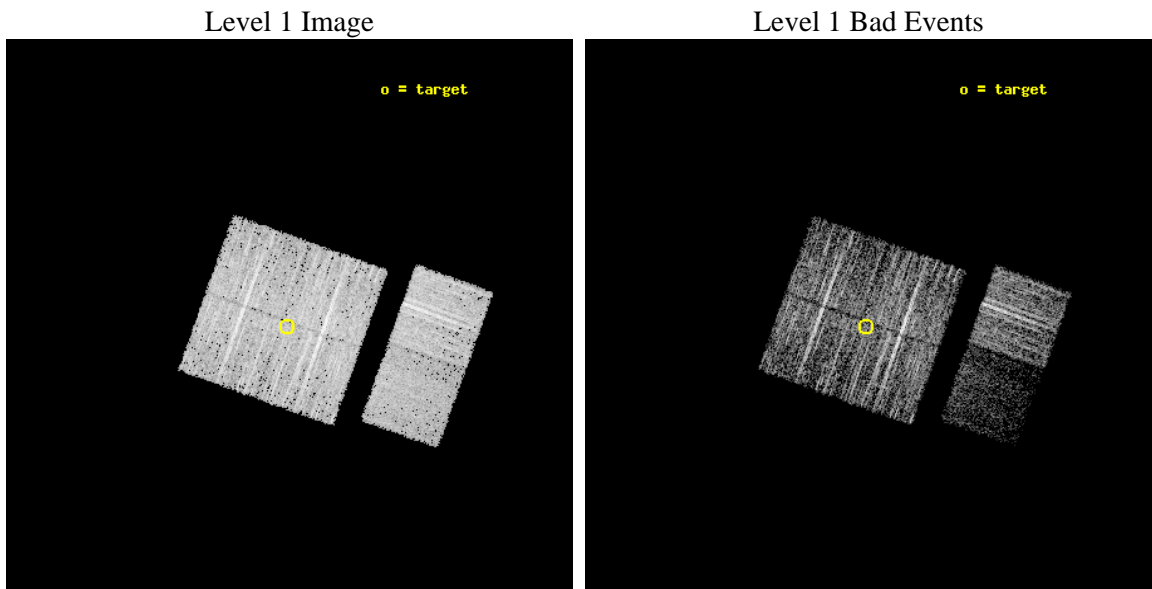
seq_num	702453	Sequence number
obs_id	12817	Observation id
title	A Systematic Chandra Survey of AGN in Major Mergers -- How many Binary AGN are out there?	Proposal title
observer	DR. Kevin Schawinski	Principal investigator
object	GZ_merger_AGN_7	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	129.575	Observer's specified target RA [deg]
dec_targ	30.916972	Observer's specified target Dec [deg]
ra_nom	129.569252787	Nominal RA [deg]
dec_nom	30.923340850395	Nominal Dec [deg]
roll_nom	109.69660632407	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4962.8491472006	Sum of GTIs [s]
livetime	4900.0065630297	Livetime [s]
ontime0	4962.7260271907	Sum of GTIs [s]
ontime1	4962.767067194	Sum of GTIs [s]
ontime2	4962.8081071973	Sum of GTIs [s]
ontime3	4962.8491472006	Sum of GTIs [s]
ontime6	4962.9312272072	Sum of GTIs [s]
ontime7	4962.8901872039	Sum of GTIs [s]
l2events	21590	Number of level 2 events



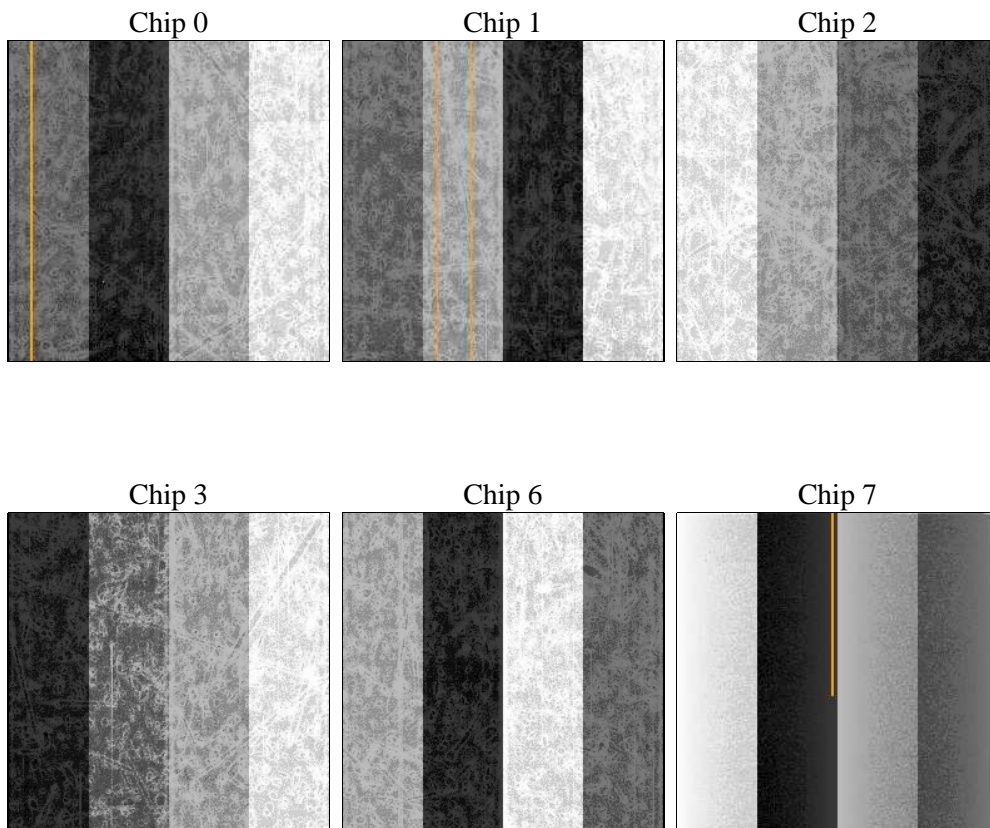
2 OBI

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	4962.8491472006	Sum of GTIs [s]
caldsver	4.4.7	 	ontime0	4962.7260271907	Sum of GTIs [s]
date	2012-02-01T08:20:57	Date and time of file creation	ontime1	4962.767067194	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4962.8081071973	Sum of GTIs [s]
			ontime3	4962.8491472006	Sum of GTIs [s]
			ontime6	4962.9312272072	Sum of GTIs [s]
			ontime7	4962.8901872039	Sum of GTIs [s]
			l1events	158121	Number of level 1 events

2.1.4 Events

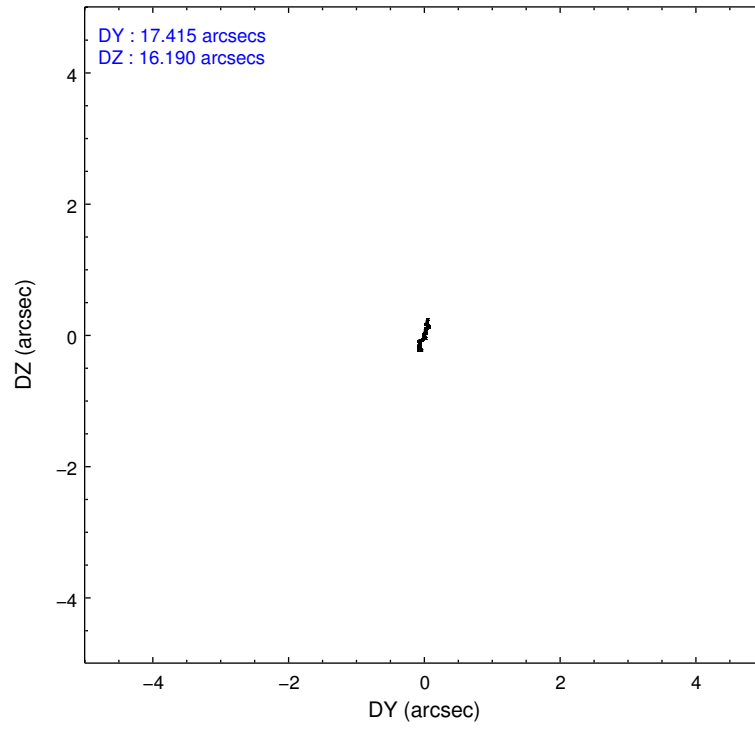
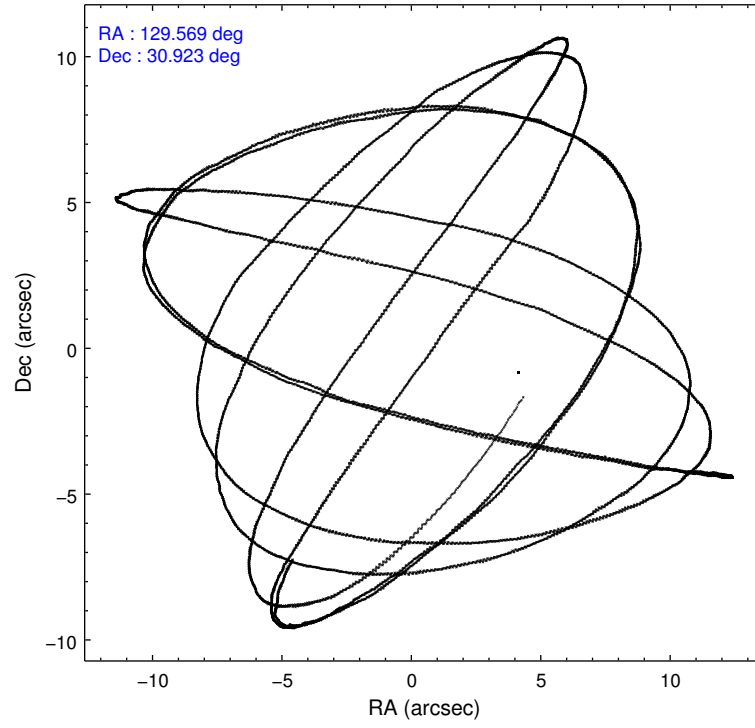
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	25766	26450	29711	27690	29499	19005
rejected events	22966	23522	26931	25164	26545	8148
rejected %	89%	88%	90%	90%	89%	42%

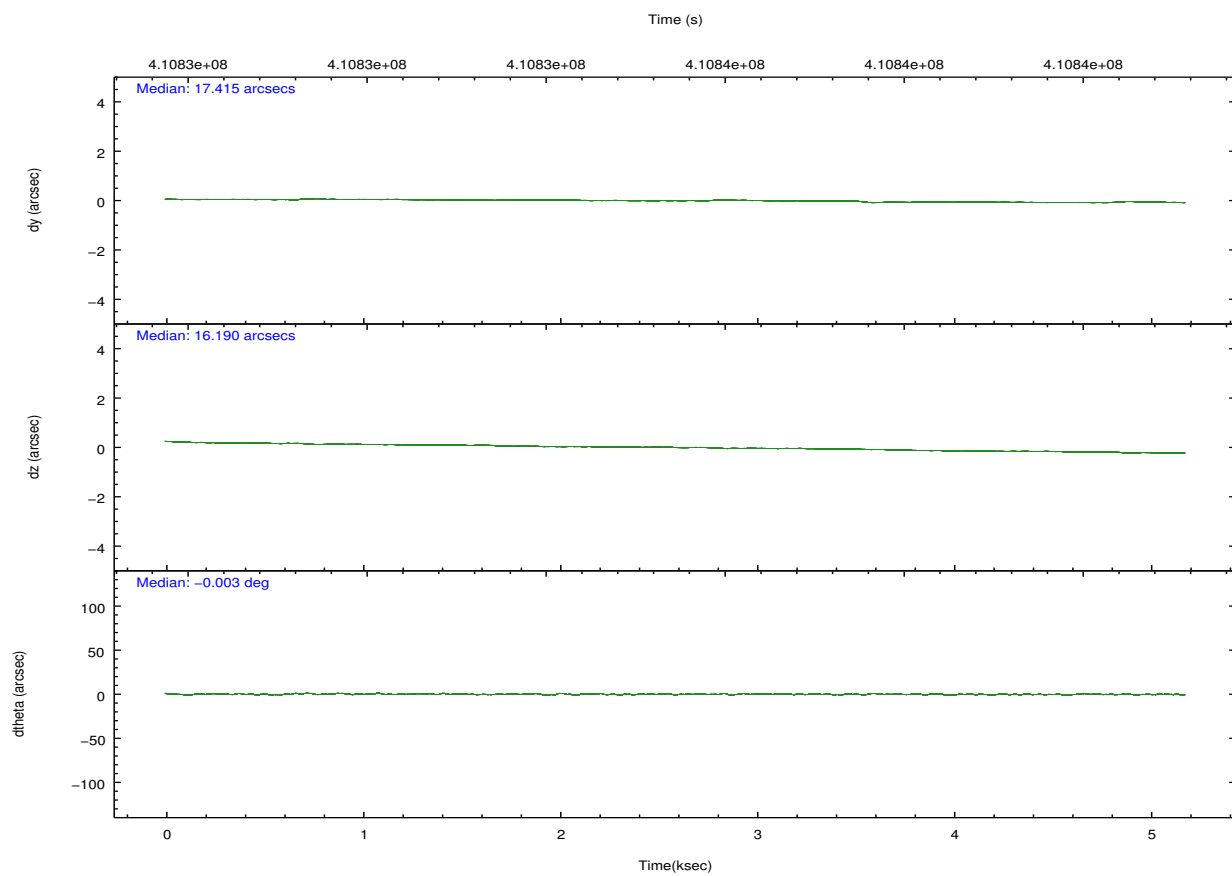
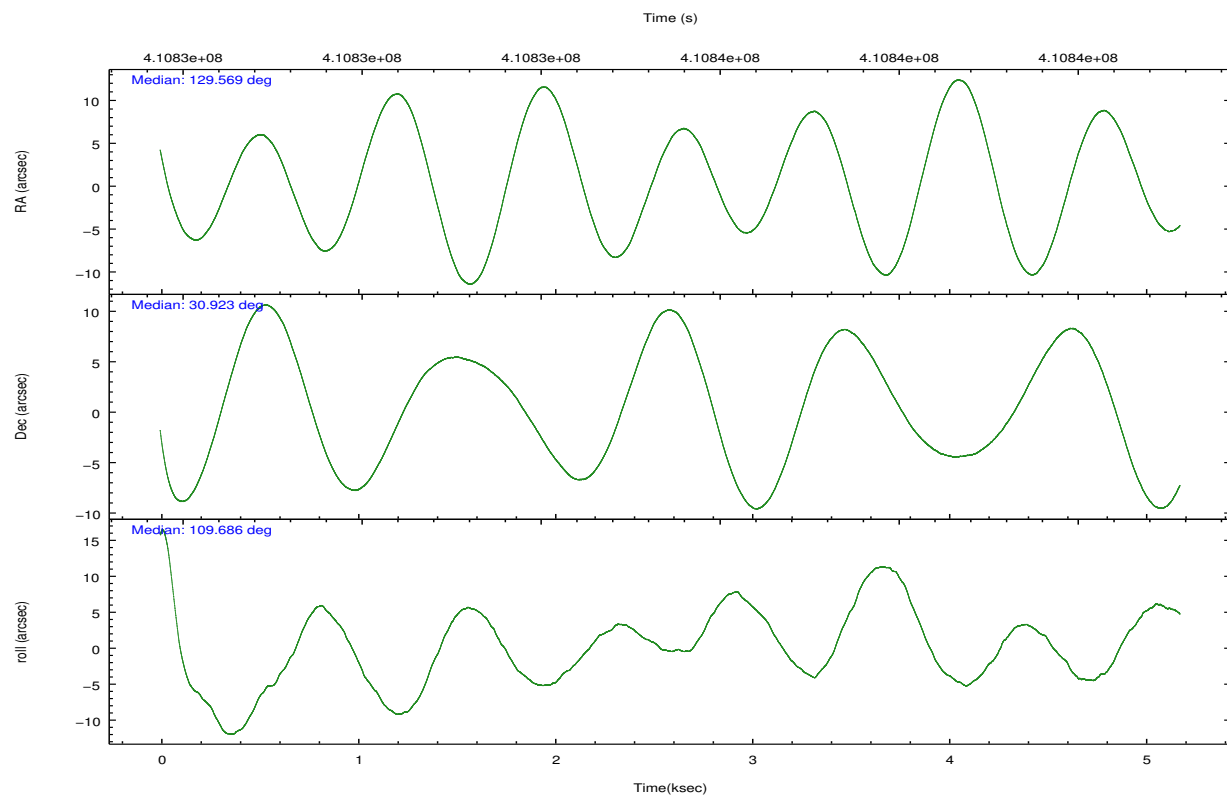
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	1064	1138	1132	992	1171	1351
	4%	4%	3%	3%	3%	7%
grade 1 events	21	21	14	13	27	49
	0%	0%	0%	0%	0%	0%
grade 2 events	754	674	705	532	677	2618
	2%	2%	2%	1%	2%	13%
grade 3 events	286	329	258	313	325	1071
	1%	1%	0%	1%	1%	5%
grade 4 events	283	313	266	262	308	1061
	1%	1%	0%	0%	1%	5%
grade 5 events	611	672	592	715	680	2040
	2%	2%	1%	2%	2%	10%
grade 6 events	415	480	428	431	478	4779
	1%	1%	1%	1%	1%	25%
grade 7 events	22332	22823	26316	24432	25833	6036
	86%	86%	88%	88%	87%	31%

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	129.593862	129.5692527870007	CCD I2 on	Y	Y
[deg] Pointing Dec	30.905722	30.92334085039468	CCD I3 on	Y	Y
[deg] Pointing Roll	109.475210	109.6966063240702	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)	410832297.184000	410831235.62878	CCD S5 on	N	N
Observation start date	2011-01-08T00:03:51	2011-01-07T23:47:15	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	410837297.184000	410838742.72917	On-chip summing requested	N	N
Observation end date	2011-01-08T01:27:11	2011-01-08T01:52:22	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



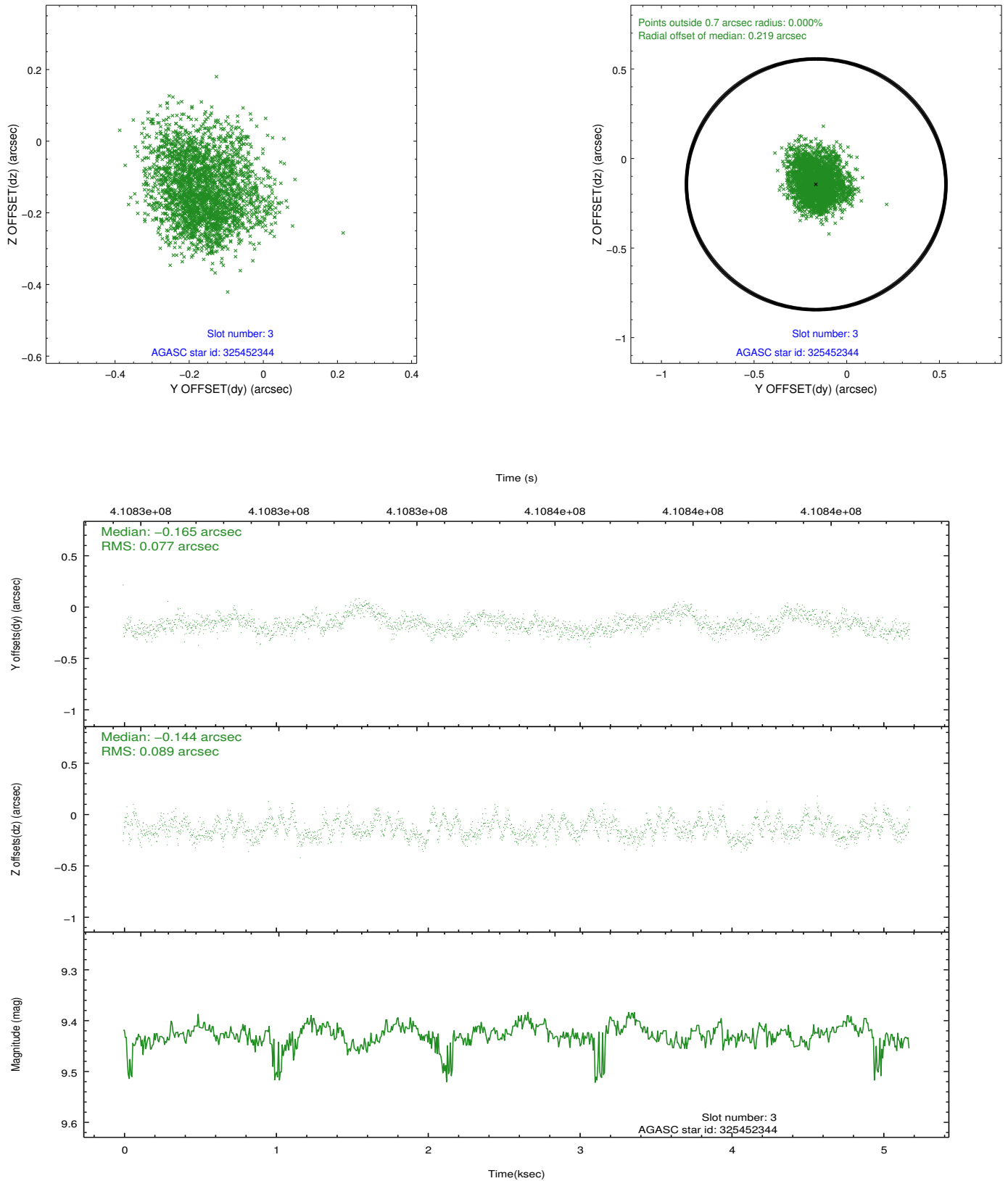


Slot Statistics

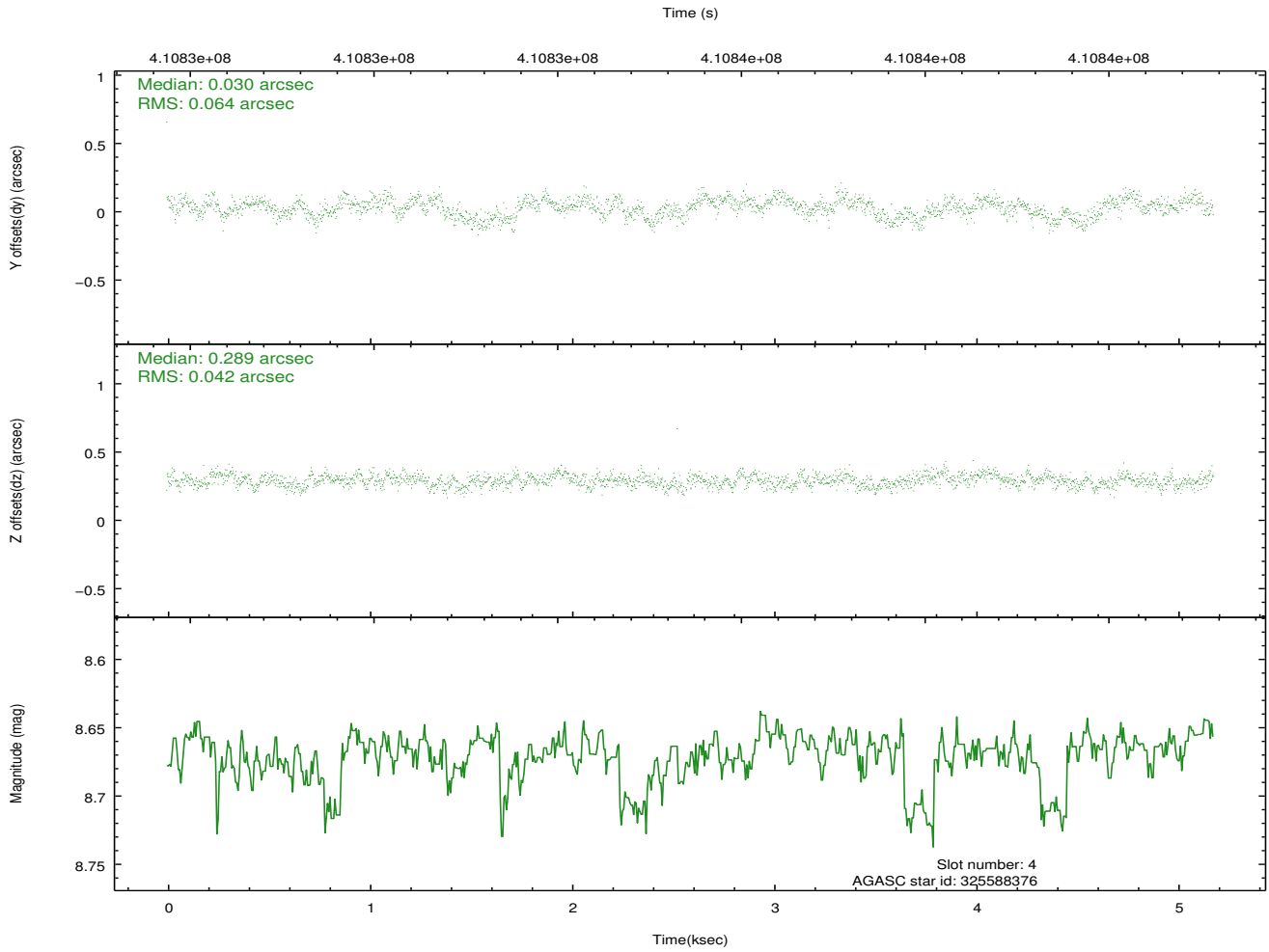
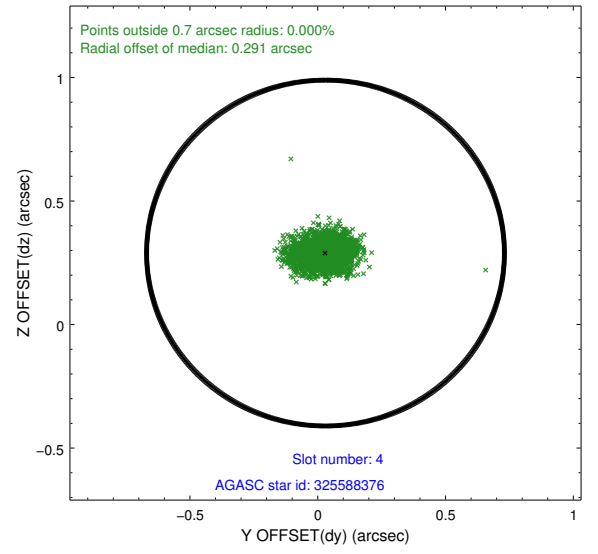
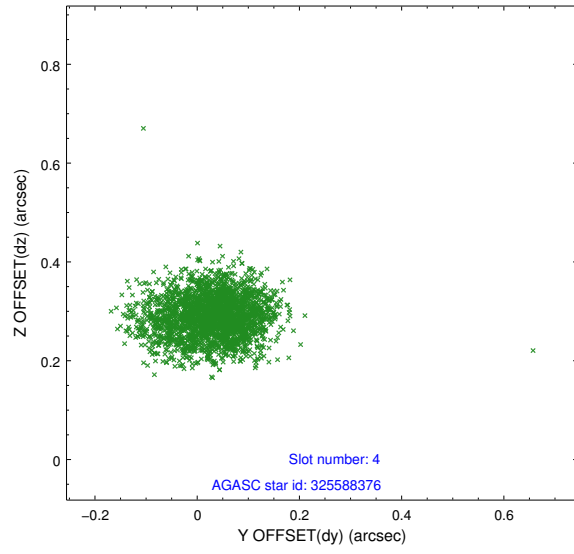
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.02	1263	-0.025	-0.079	0.010	0.017	0.000000	0.000000	921.97	-839.88
1	FID	ACIS-I-4	6.95	1262	0.215	0.090	0.008	0.013	0.000000	0.000000	2142.88	1059.52
2	FID	ACIS-I-5	6.99	1263	-0.289	0.060	0.007	0.014	0.000000	0.000000	-1824.81	1058.63
3	GUIDE	325452344	9.43	2521	-0.165	-0.144	0.127	0.200	128.996700	30.643940	-267.38	2055.98
4	GUIDE	325588376	8.67	2517	0.030	0.289	0.080	0.131	129.822047	30.497908	-1619.12	-177.43
5	GUIDE	325593792	9.67	2526	0.178	0.164	0.122	0.194	129.926885	30.717578	-981.71	-746.90
6	GUIDE	325598832	8.22	2527	-0.026	-0.061	0.075	0.117	129.664399	31.160649	792.55	-510.80
7	GUIDE	325584664	7.15	2526	-0.015	-0.256	0.061	0.097	129.658812	30.712203	-723.23	42.17

2.4 Star Slots

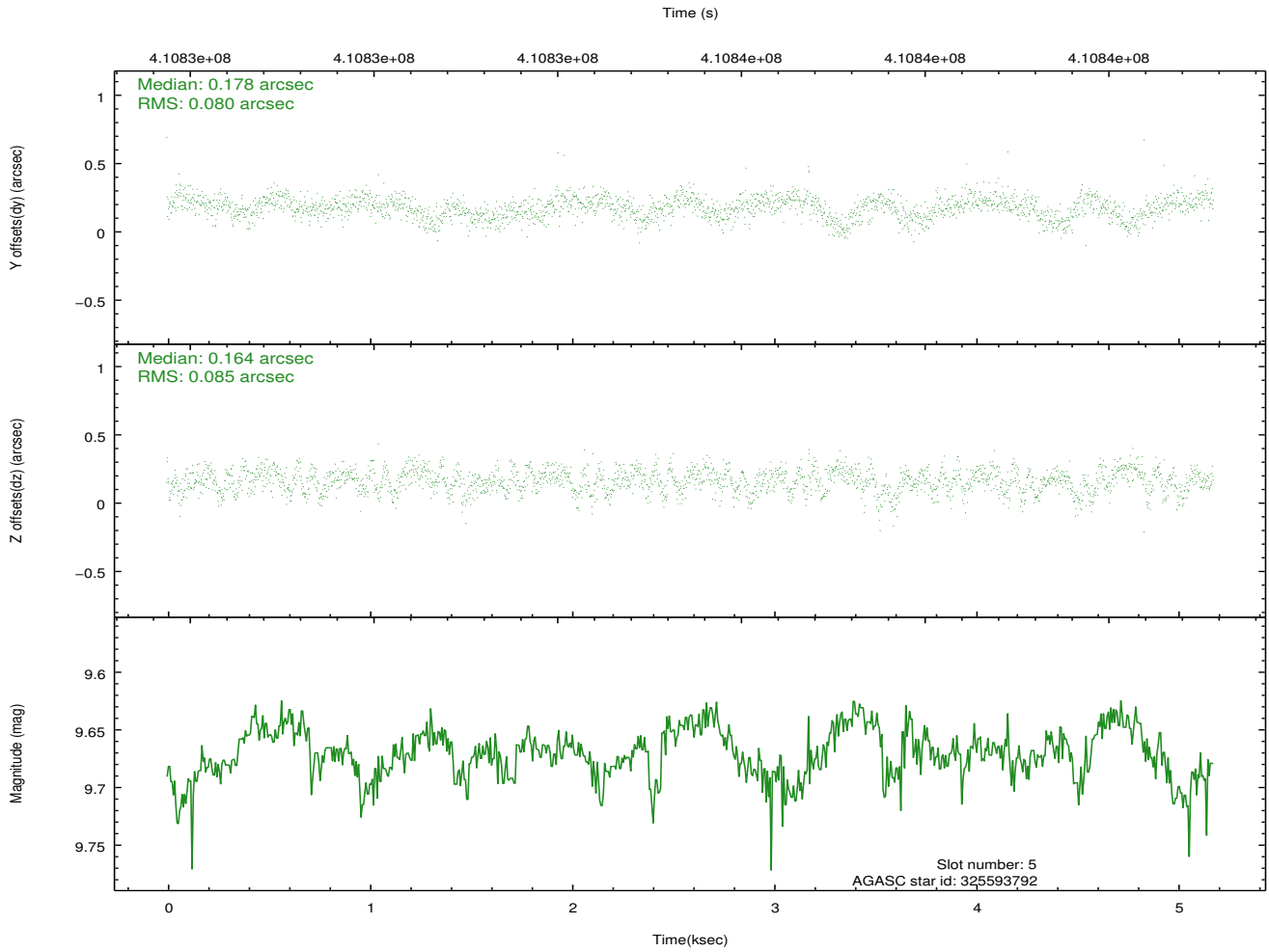
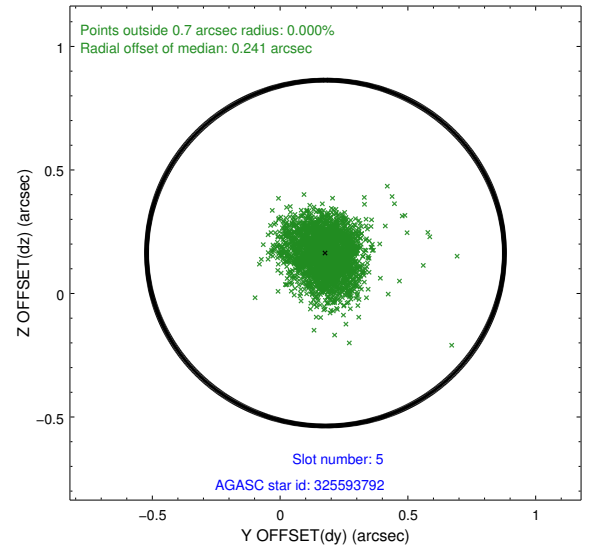
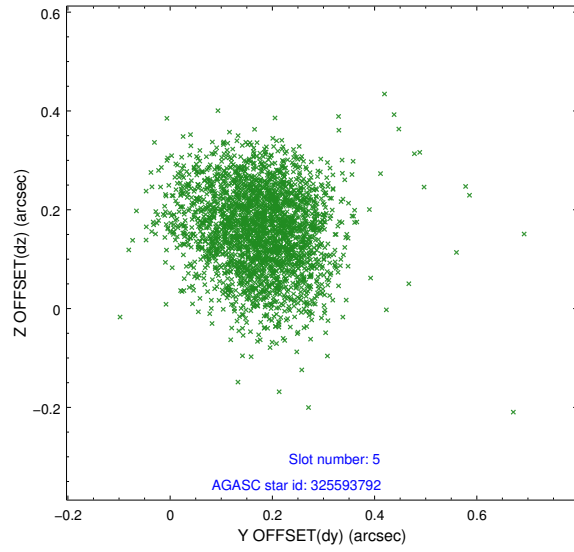
2.4.1 Slot 3



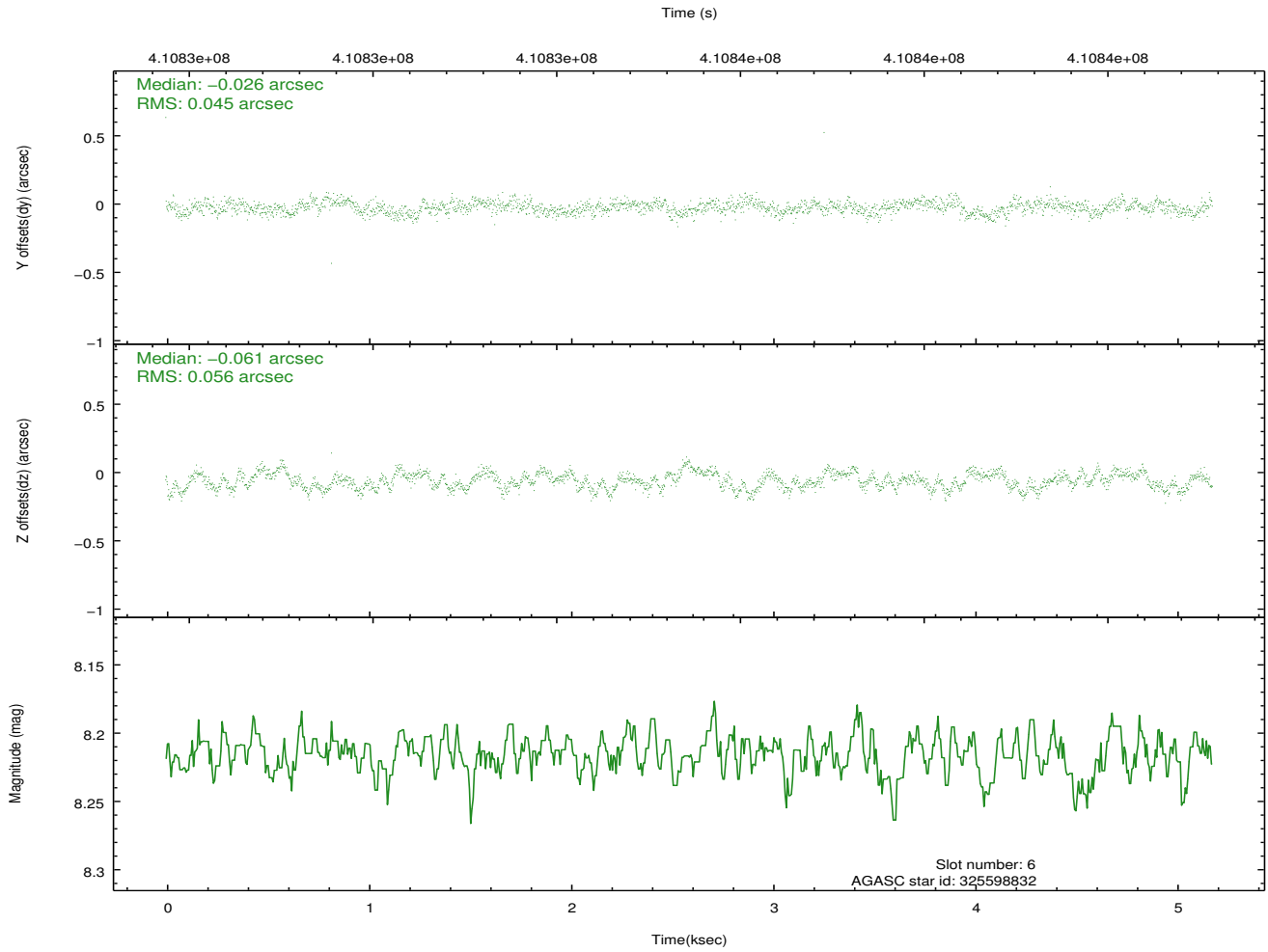
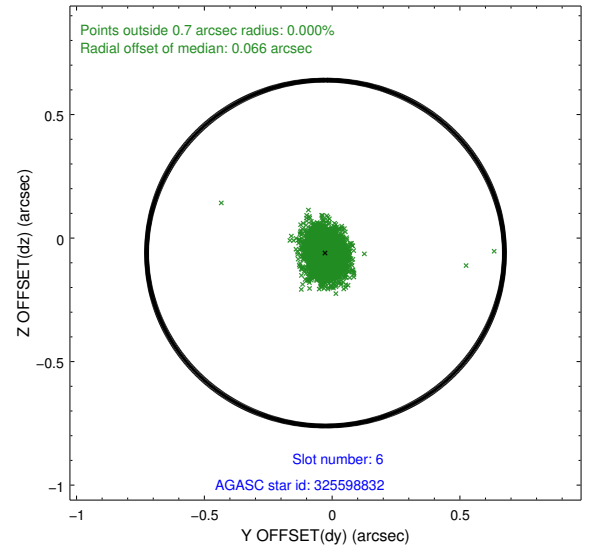
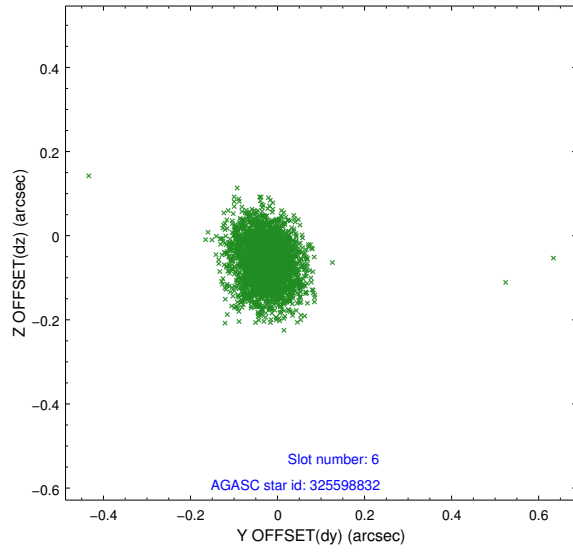
2.4.2 Slot 4



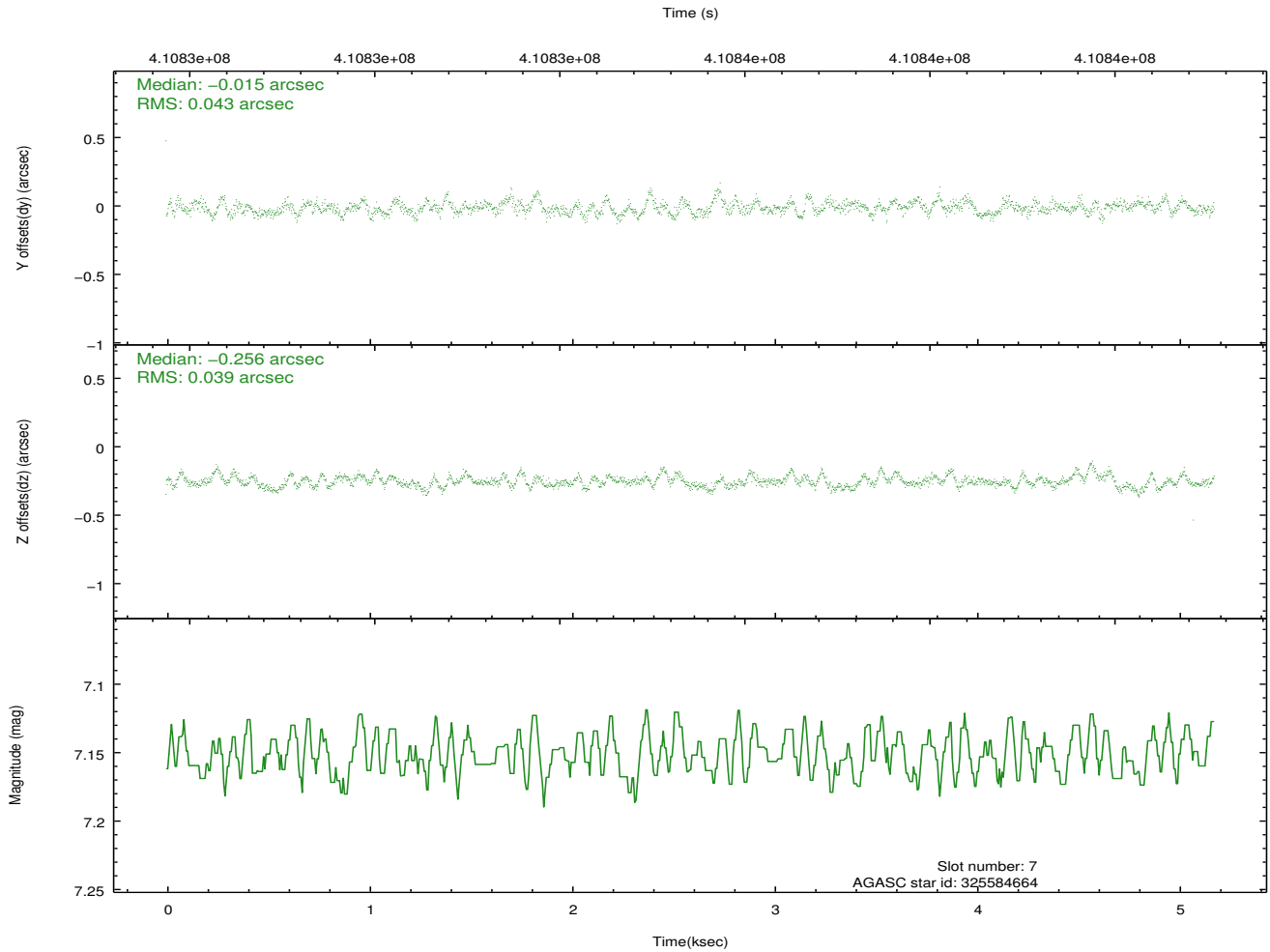
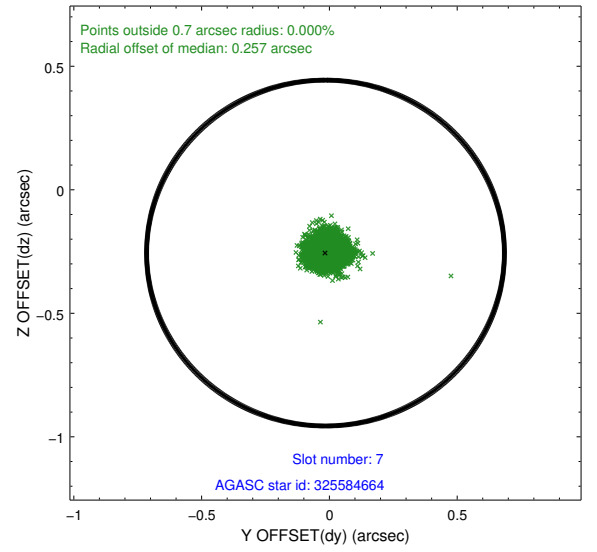
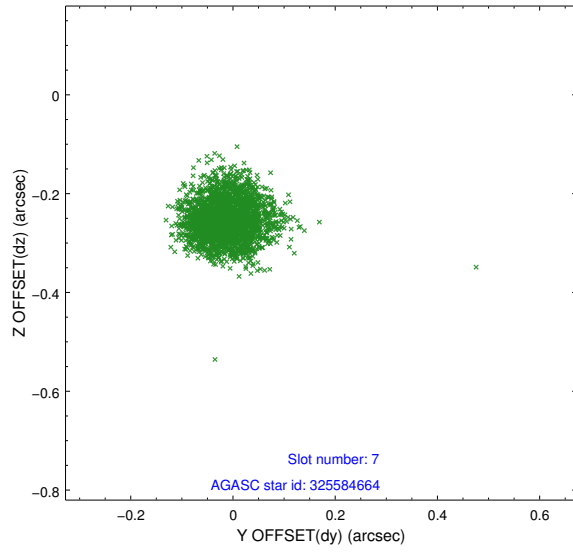
2.4.3 Slot 5



2.4.4 Slot 6

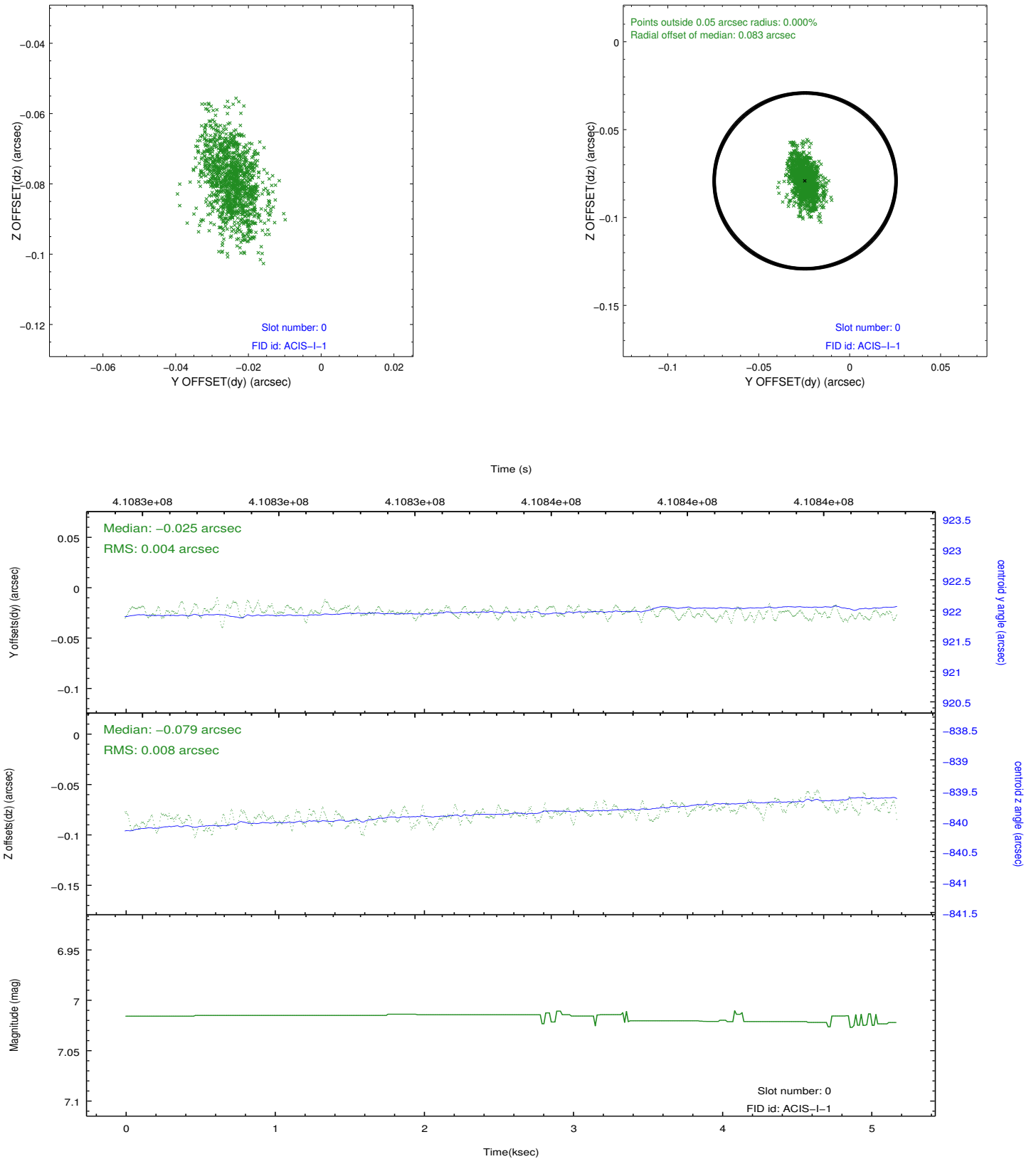


2.4.5 Slot 7

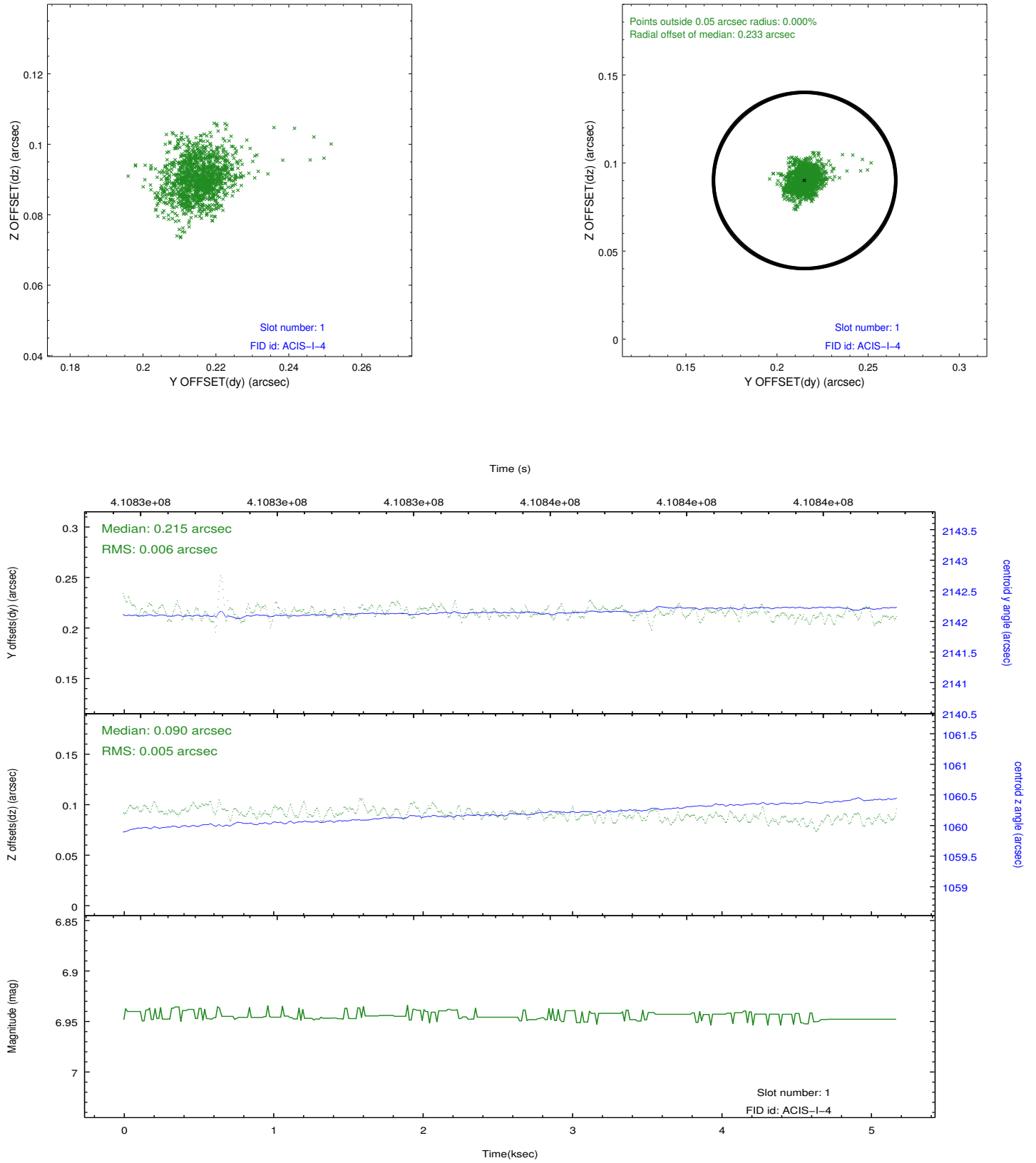


2.5 FID Slots

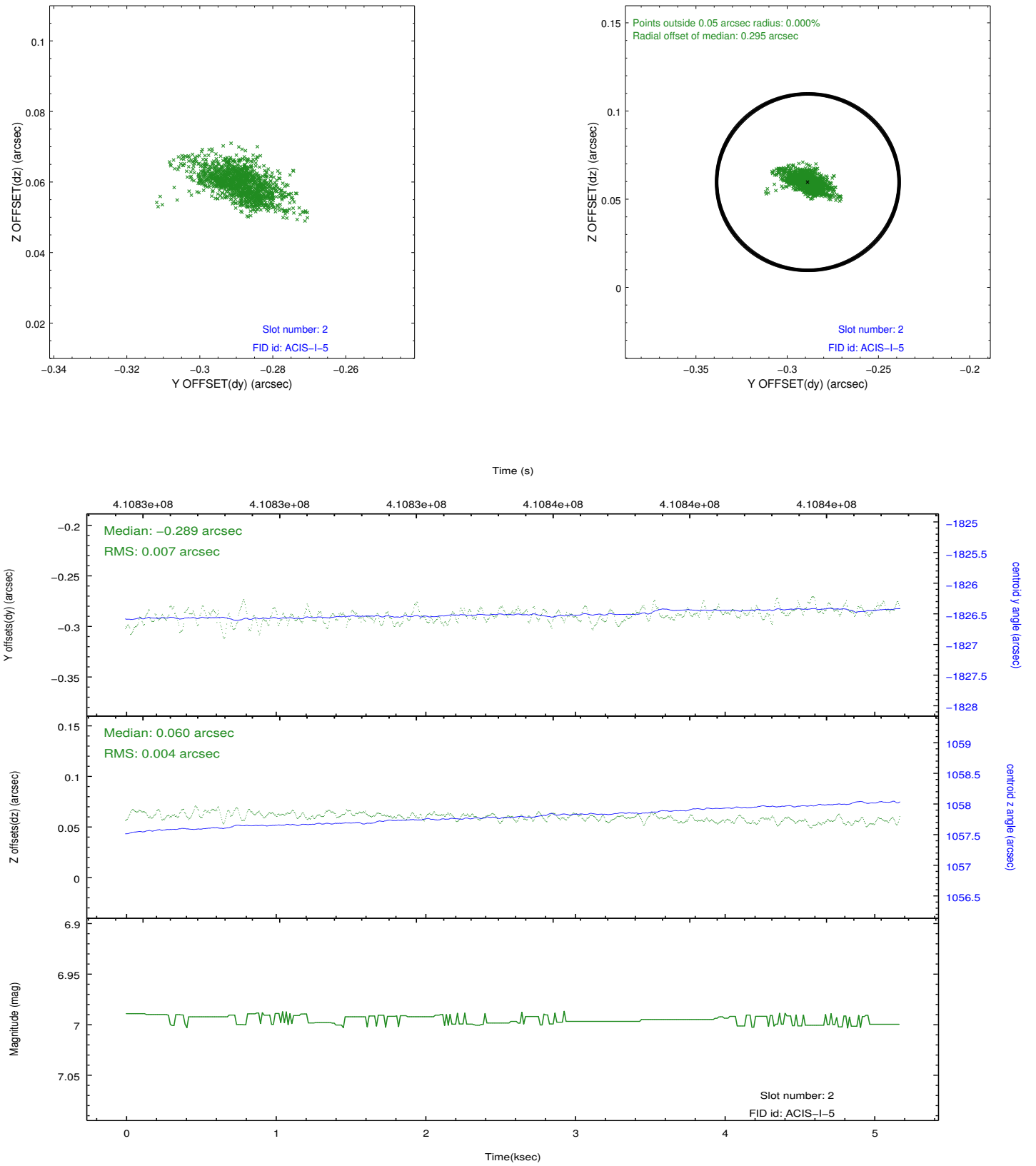
2.5.1 Slot 0



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)	2012.02.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9628491553068

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.