

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12484 - L2 Version 2
Chandra X-Ray Center

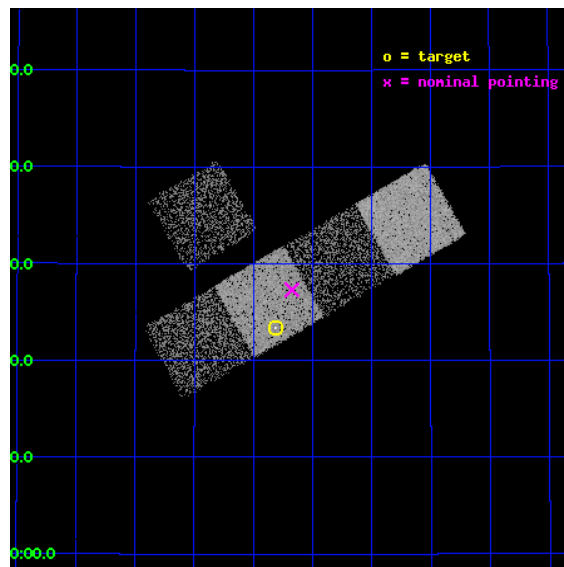
L2 Processing Date : Feb 6 2012

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1 Front

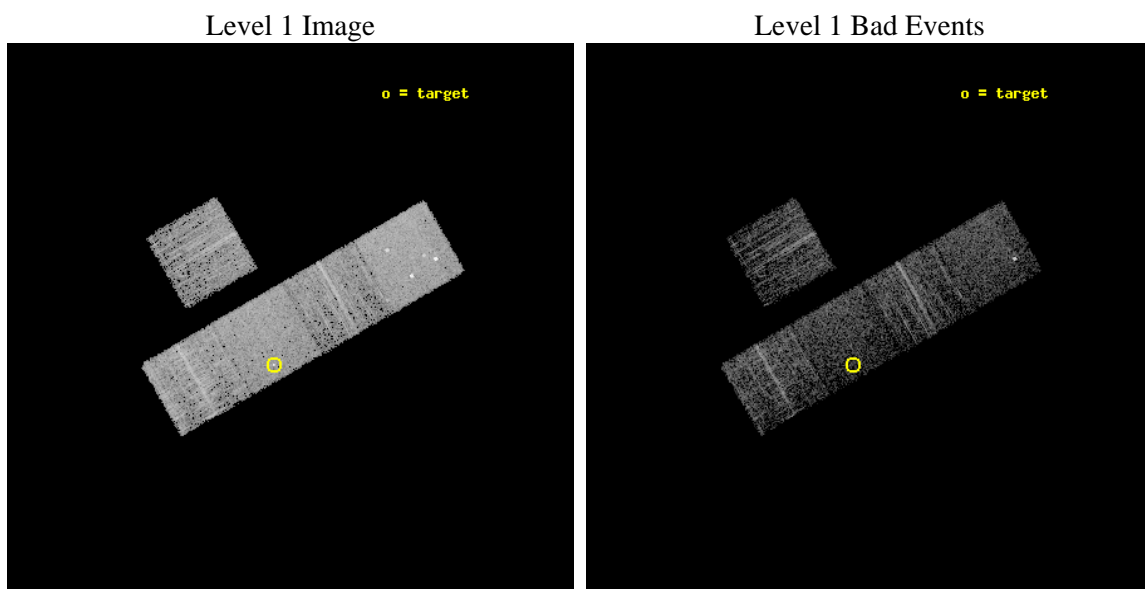
seq_num	401225	Sequence number
obs_id	12484	Observation id
title	The Nearest and Brightest Quiescent Low Mass X-ray Binaries	Propos
observer	Prof. Robert Rutledge	Principal investigator
object	1RXS J125948.7+342325	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.952917	Observer's specified target RA [deg]
dec_targ	34.390278	Observer's specified target Dec [deg]
ra_nom	194.91881921672	Nominal RA [deg]
dec_nom	34.45514532385	Nominal Dec [deg]
roll_nom	150.0818927119	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3238.4640789032	Sum of GTIs [s]
livetime	3196.1511615898	Livetime [s]
ontime3	3238.3409588933	Sum of GTIs [s]
ontime5	3238.4230388999	Sum of GTIs [s]
ontime6	3238.3819988966	Sum of GTIs [s]
ontime7	3238.4640789032	Sum of GTIs [s]
ontime8	3238.29991889	Sum of GTIs [s]
l2events	34887	Number of level 2 events



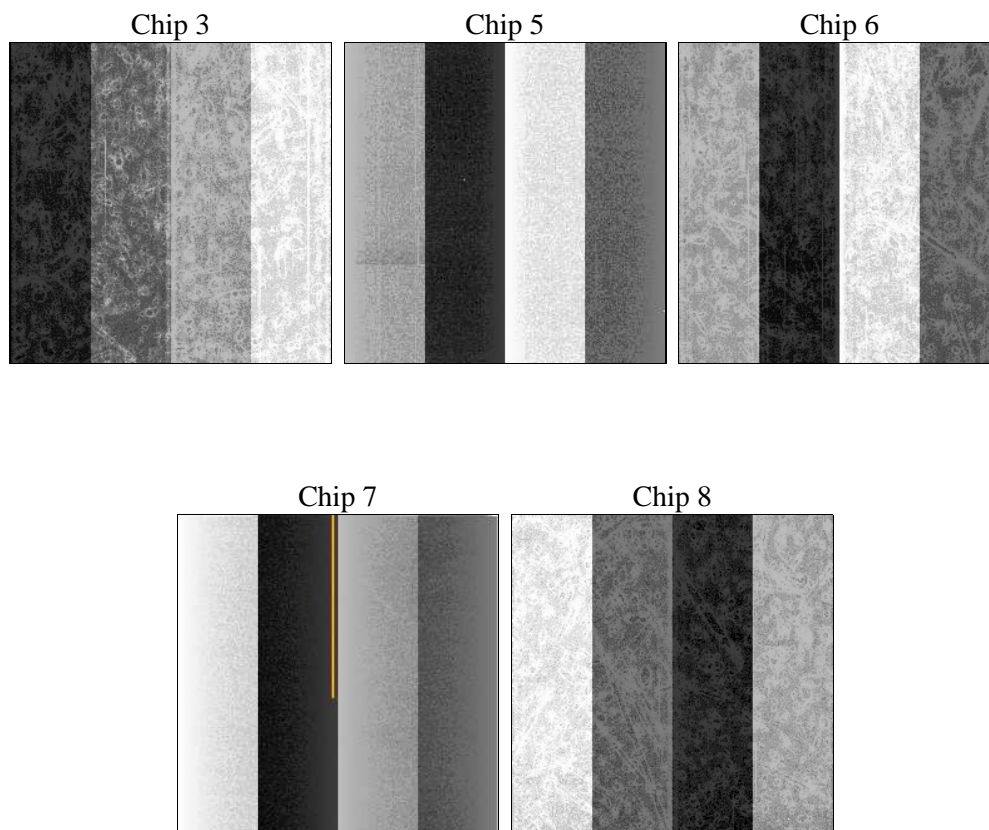
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	3238.4640789032	Sum of GTIs [s]
caldsver	4.4.7	 	ontime3	3238.3409588933	Sum of GTIs [s]
date	2012-02-06T06:37:12	Date and time of file creation	ontime5	3238.4230388999	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3238.3819988966	Sum of GTIs [s]
			ontime7	3238.4640789032	Sum of GTIs [s]
			ontime8	3238.29991889	Sum of GTIs [s]
			l1events	137263	Number of level 1 events

2.1.4 Events

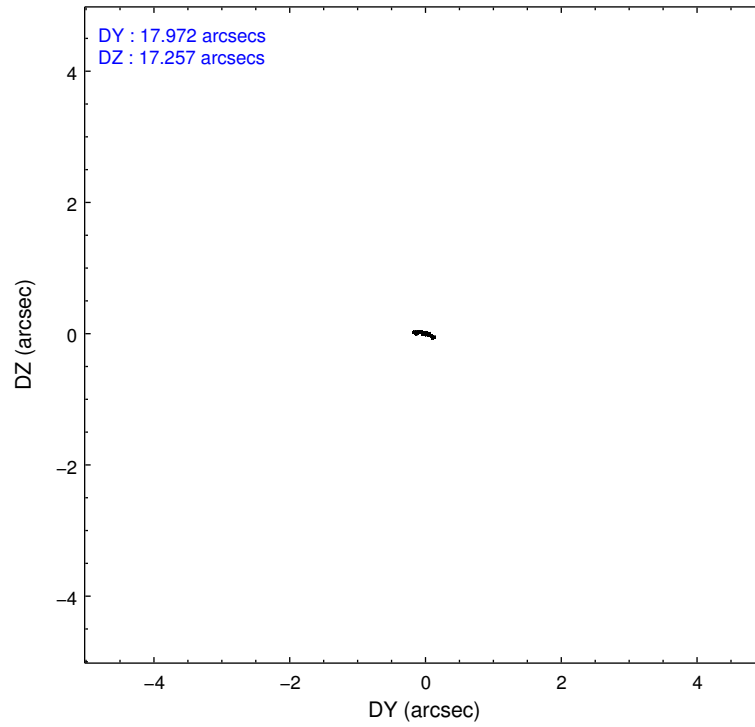
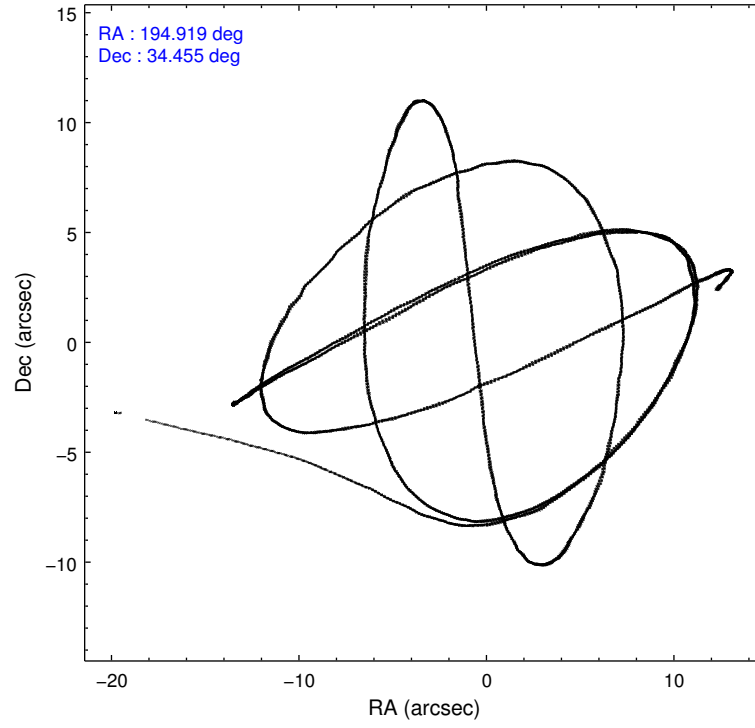
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	20980	36237	22884	28026	29136
rejected events	18790	18214	20389	15443	21340
rejected %	89%	50%	89%	55%	73%

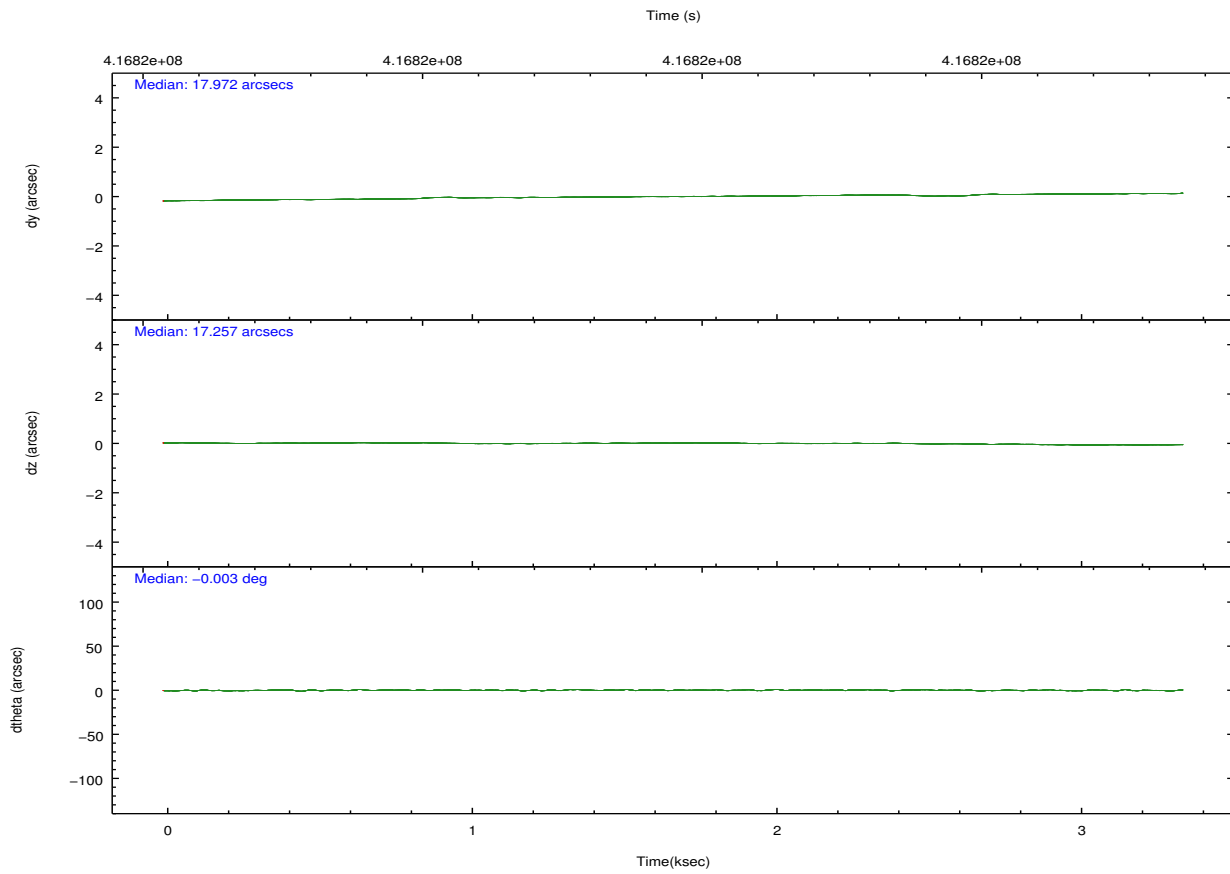
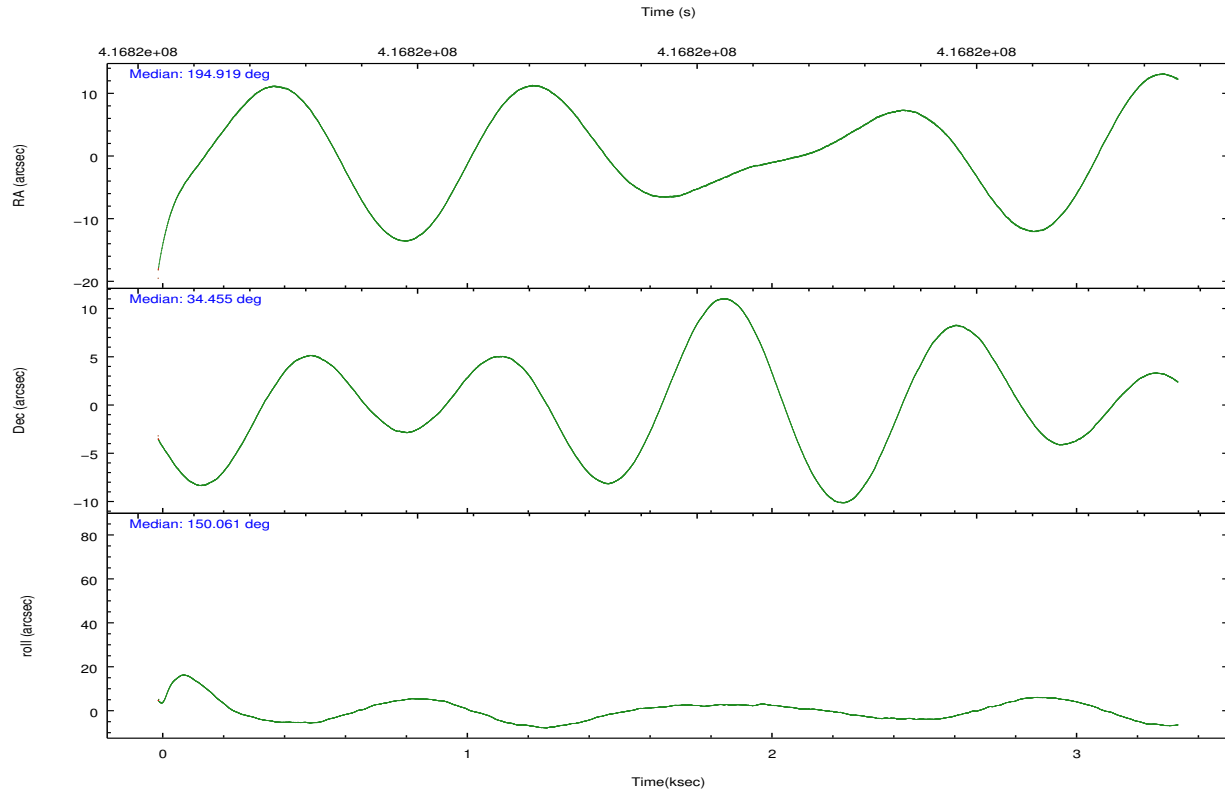
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	769	2416	912	1252	2227
	3%	6%	3%	4%	7%
grade 1 events	20	63	13	34	16
	0%	0%	0%	0%	0%
grade 2 events	511	5509	526	2523	1895
	2%	15%	2%	9%	6%
grade 3 events	222	605	262	1075	787
	1%	1%	1%	3%	2%
grade 4 events	249	602	242	1130	690
	1%	1%	1%	4%	2%
grade 5 events	1017	2836	1076	2922	1452
	4%	7%	4%	10%	4%
grade 6 events	443	8929	558	6622	2234
	2%	24%	2%	23%	7%
grade 7 events	17749	15277	19295	12468	19835
	84%	42%	84%	44%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	194.951921	194.9188192167227	CCD I2 on	N	N
[deg] Pointing Dec	34.455669	34.45514532385	CCD I3 on	O1	Y
[deg] Pointing Roll	149.906616	150.081892711898	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	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	Y	Y
[s] Observation start time (MET)	416815365.184000	416814429.48841	CCD S5 on	N	N
Observation start date	2011-03-18T06:01:39	2011-03-18T05:47:09	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	416818565.184000	416819651.35118	On-chip summing requested	N	N
Observation end date	2011-03-18T06:54:59	2011-03-18T07:14:11	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



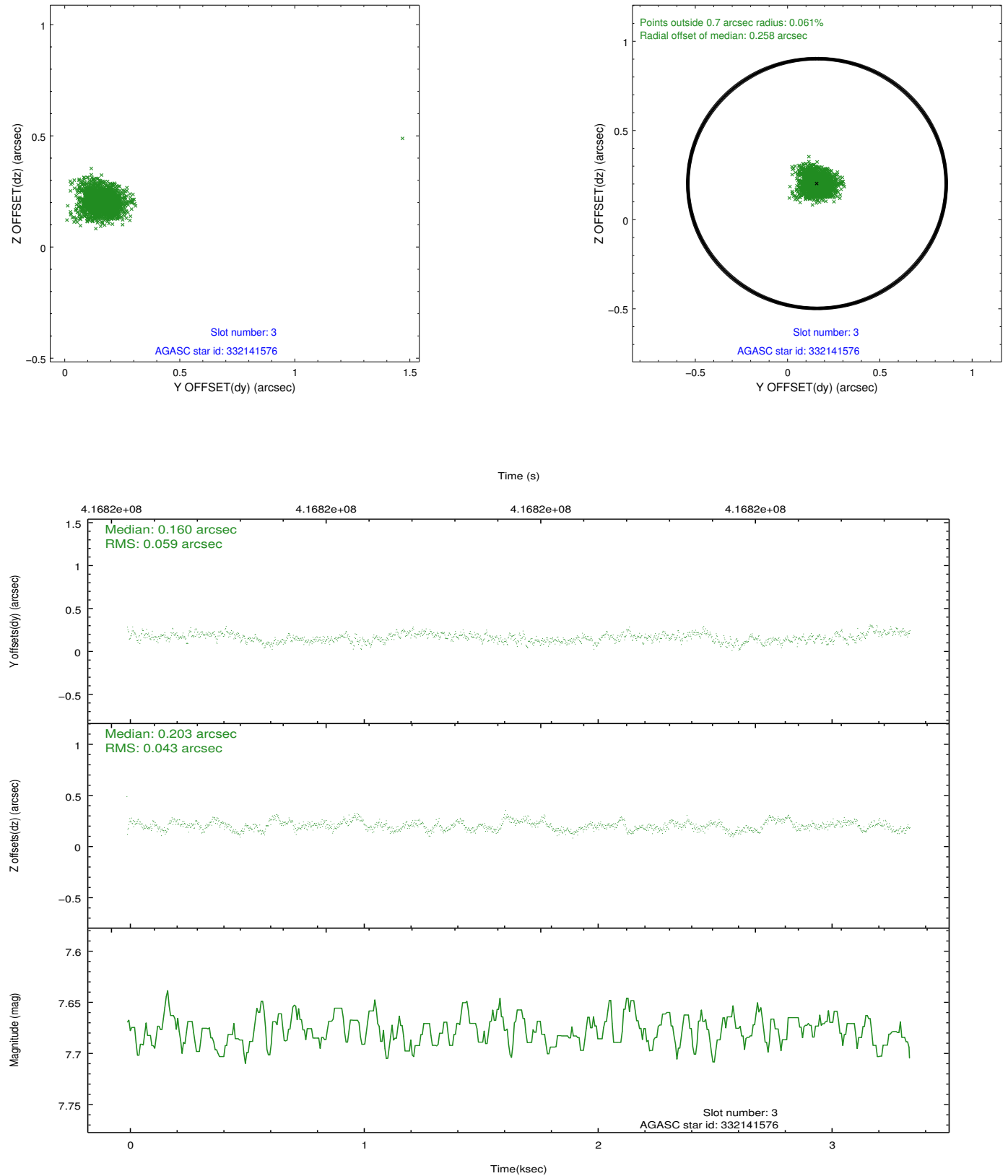


Slot Statistics

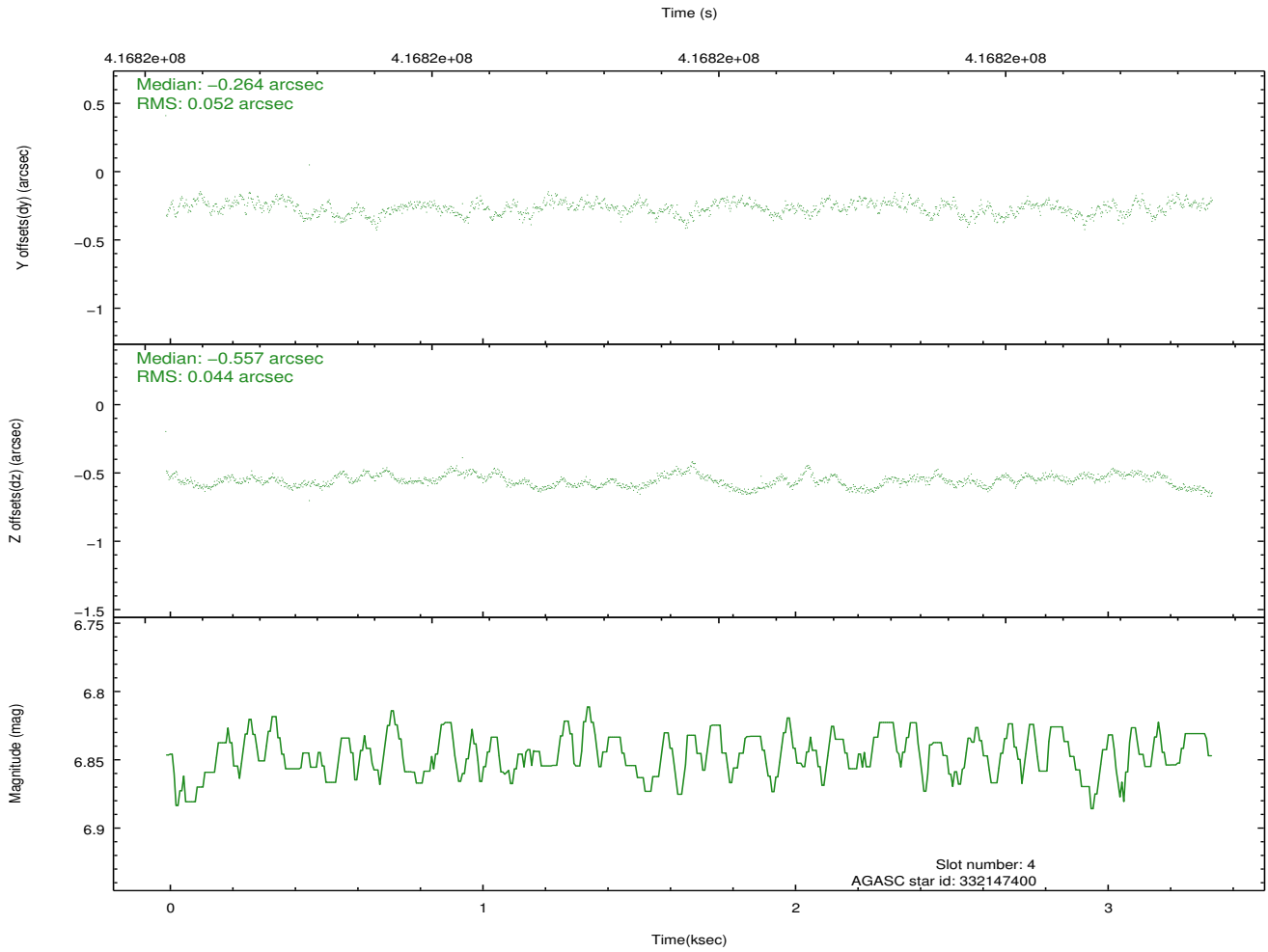
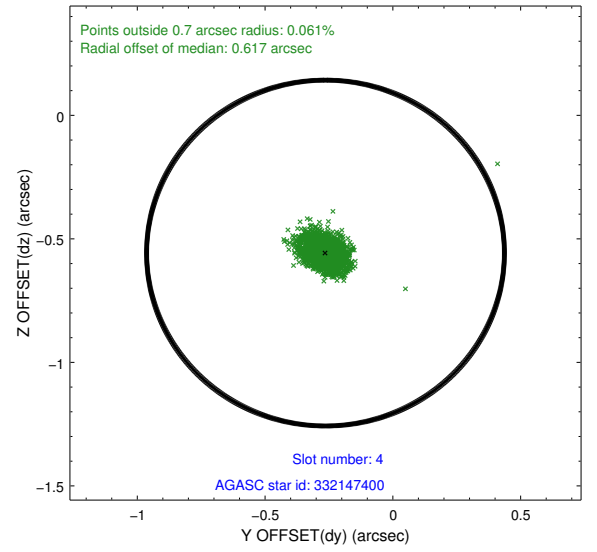
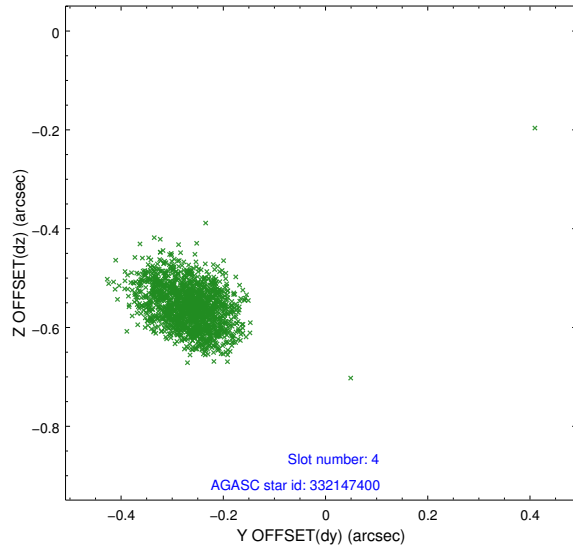
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.91	817	-0.063	-0.041	0.007	0.011	0.000000	0.000000	-771.11	-1738.66
1	FID	ACIS-S-4	6.99	817	0.220	0.042	0.008	0.014	0.000000	0.000000	2141.61	167.88
2	FID	ACIS-S-5	7.02	817	-0.188	0.008	0.007	0.012	0.000000	0.000000	-1821.62	163.75
3	GUIDE	332141576	7.68	1633	0.160	0.203	0.070	0.113	195.042870	34.998417	749.35	-1824.51
4	GUIDE	332147400	6.85	1634	-0.264	-0.557	0.069	0.111	194.745902	34.545694	692.35	24.08
5	GUIDE	332148064	8.86	1634	-0.018	-0.192	0.088	0.138	194.866742	34.047668	-515.50	1398.27
6	GUIDE	332150720	7.55	1634	0.241	0.171	0.061	0.101	195.031183	34.919346	635.89	-1560.24
7	GUIDE	332147328	9.77	1631	-0.114	0.386	0.181	0.280	195.656361	34.859115	-1066.68	-2307.16

2.4 Star Slots

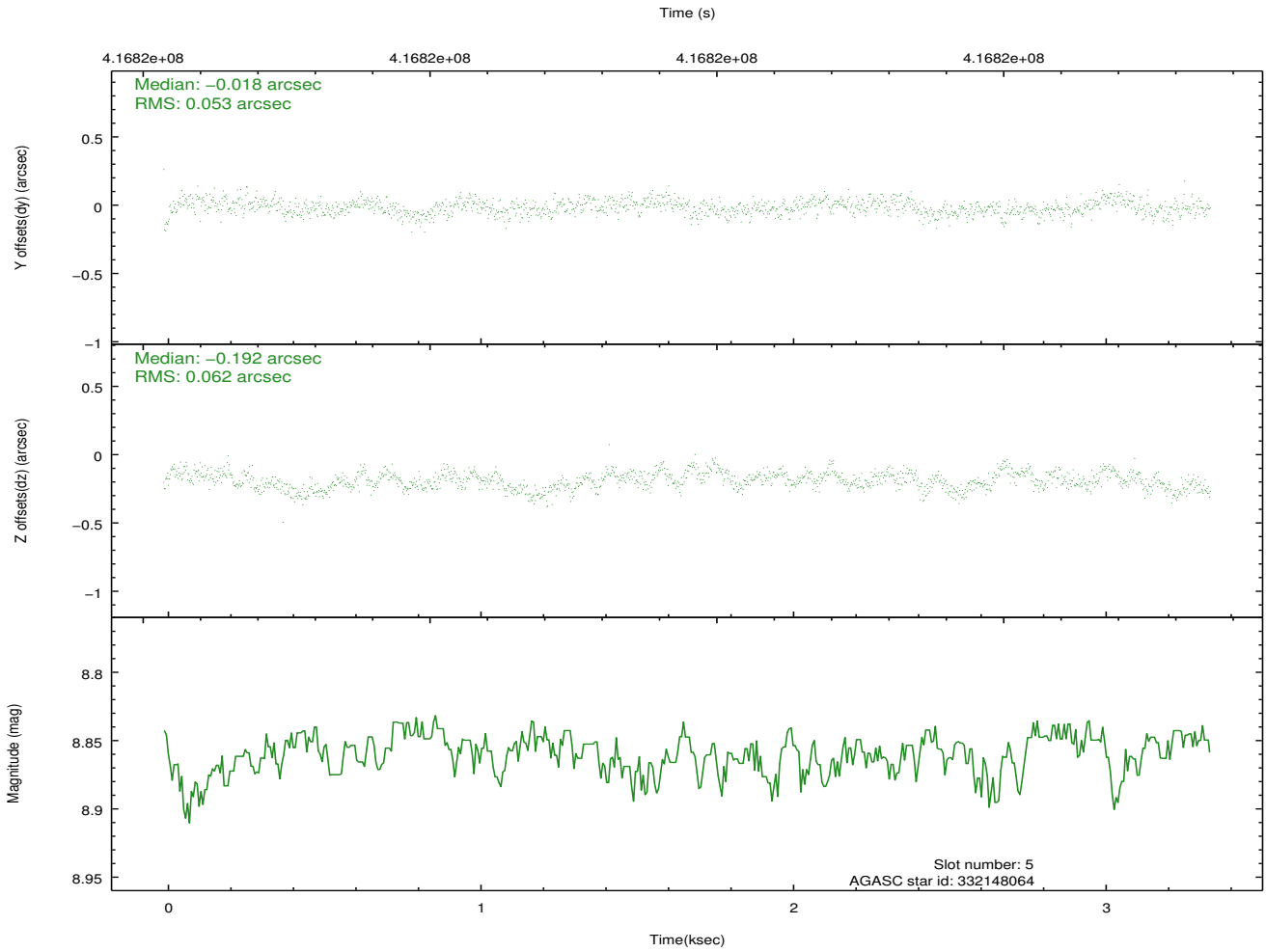
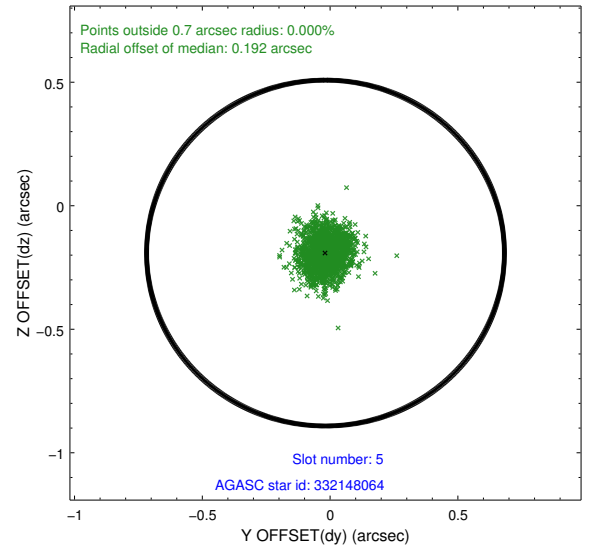
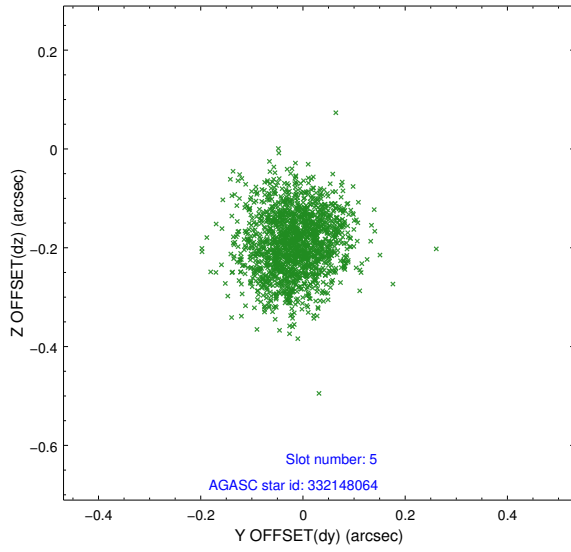
2.4.1 Slot 3



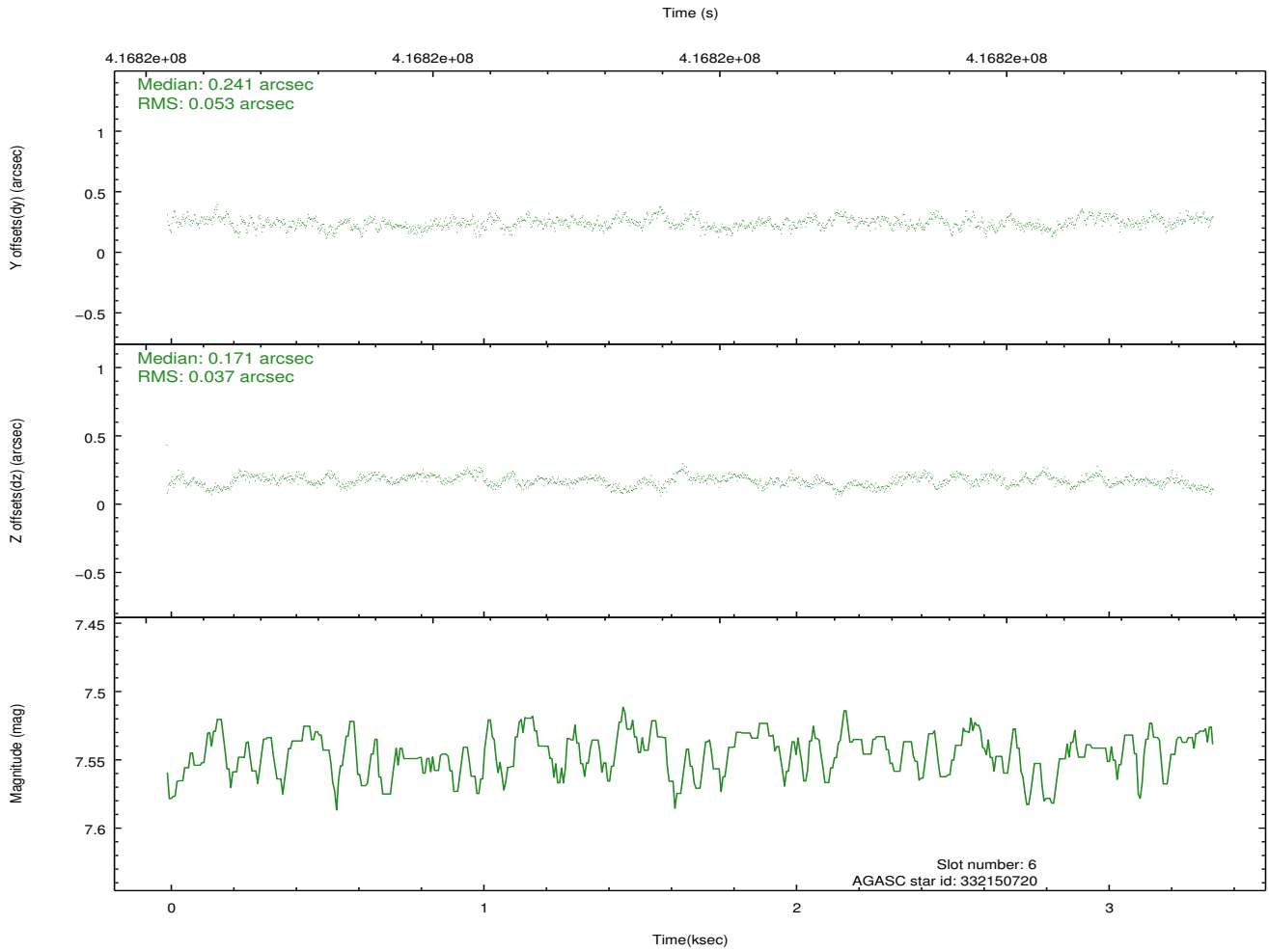
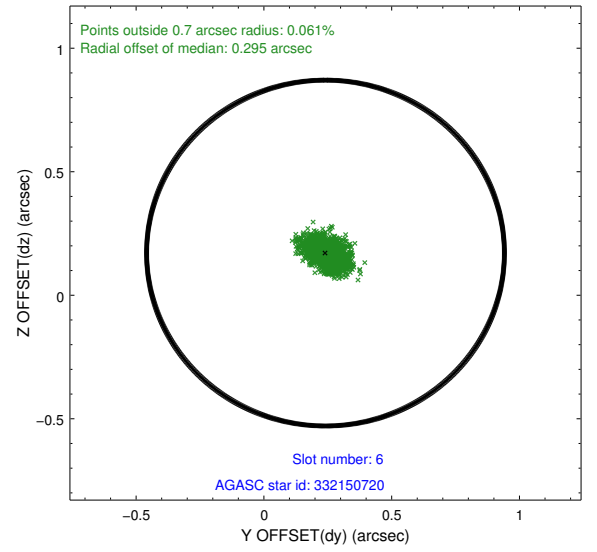
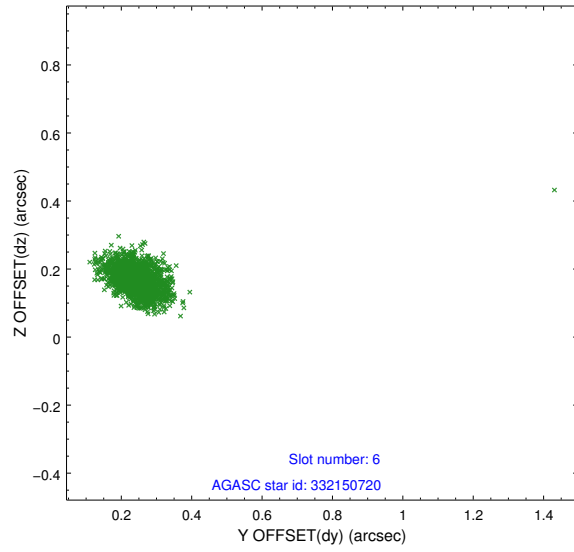
2.4.2 Slot 4



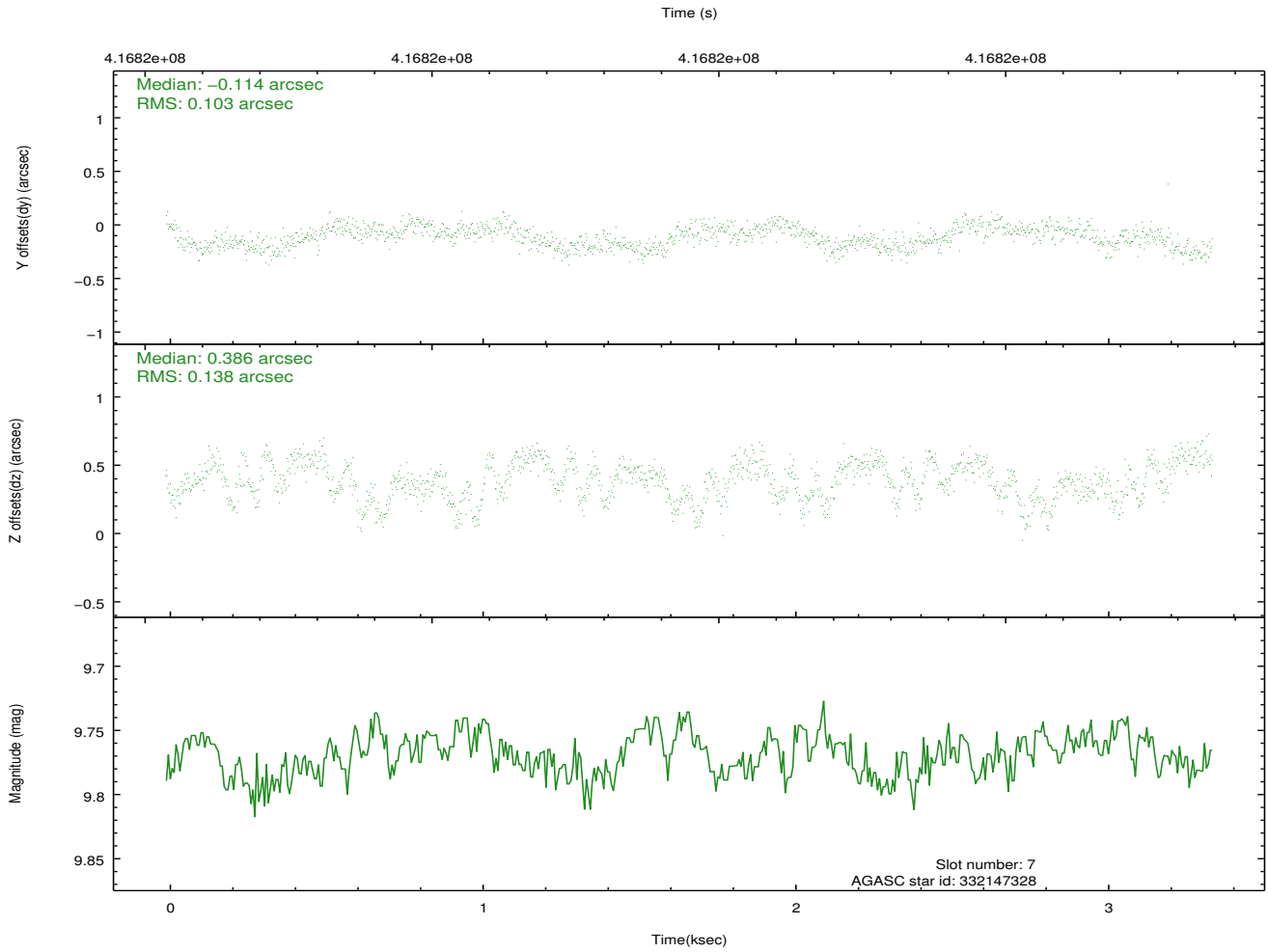
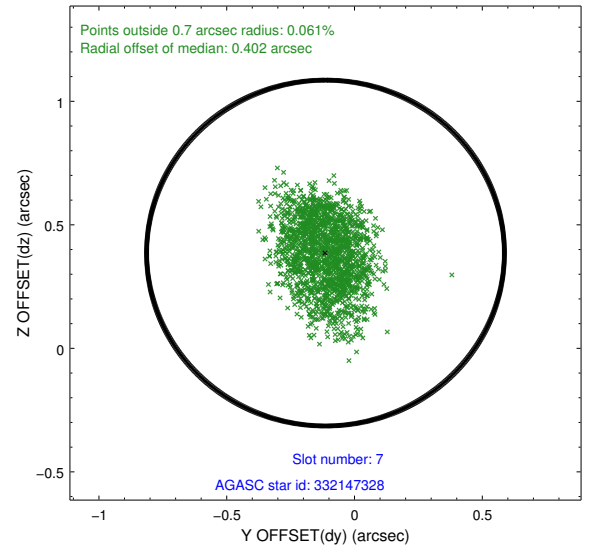
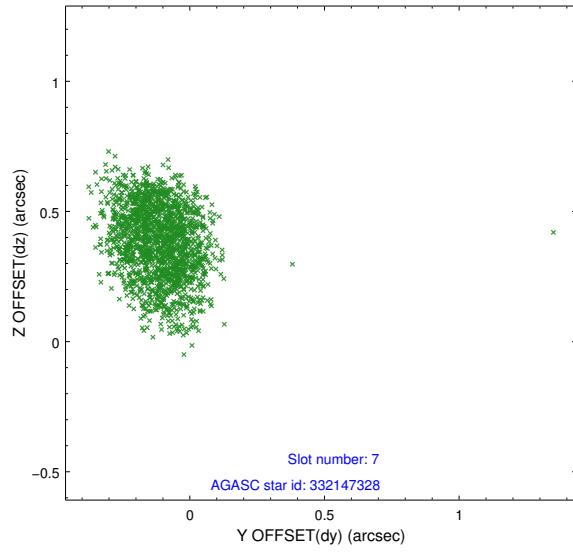
2.4.3 Slot 5



2.4.4 Slot 6

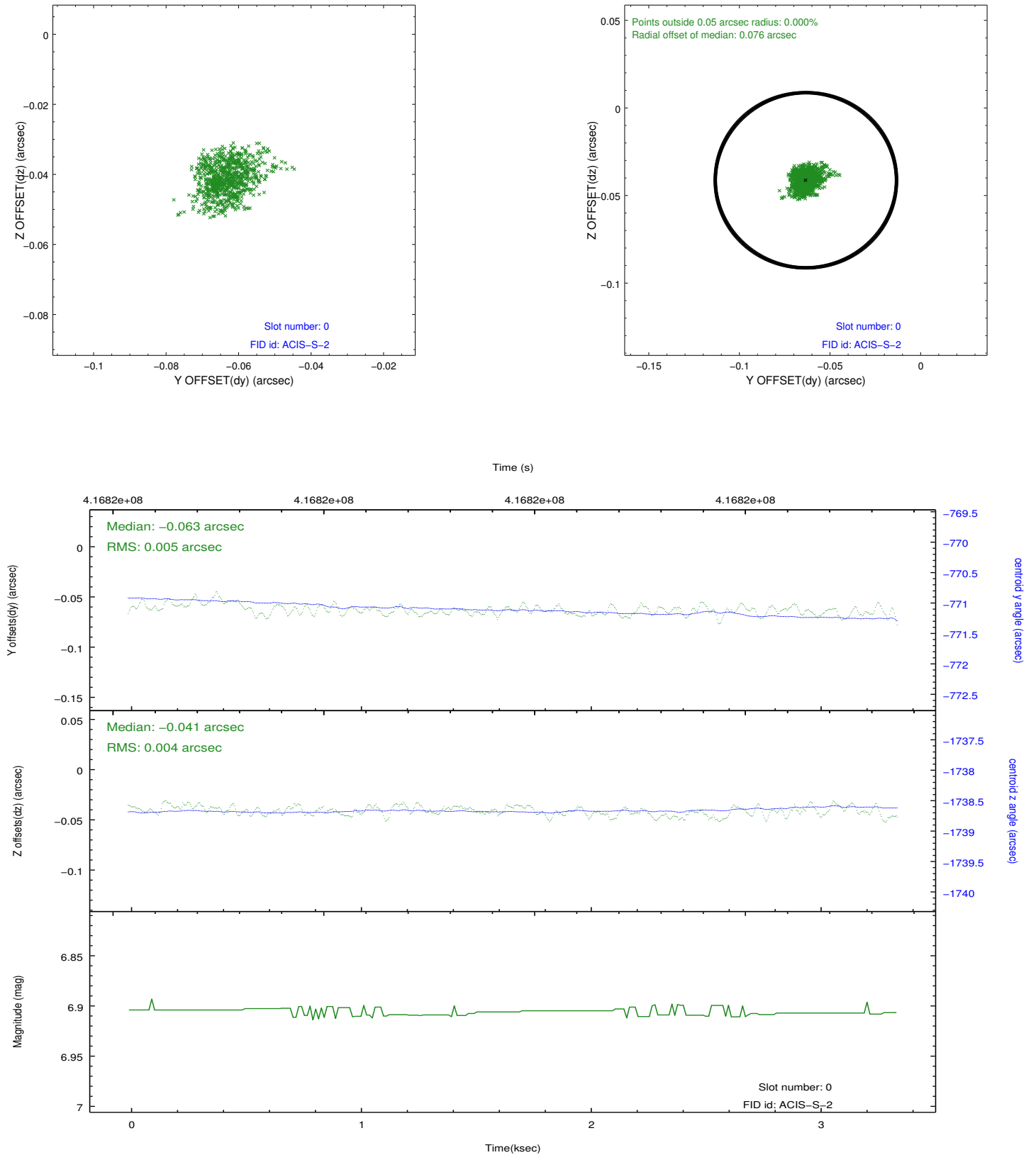


2.4.5 Slot 7

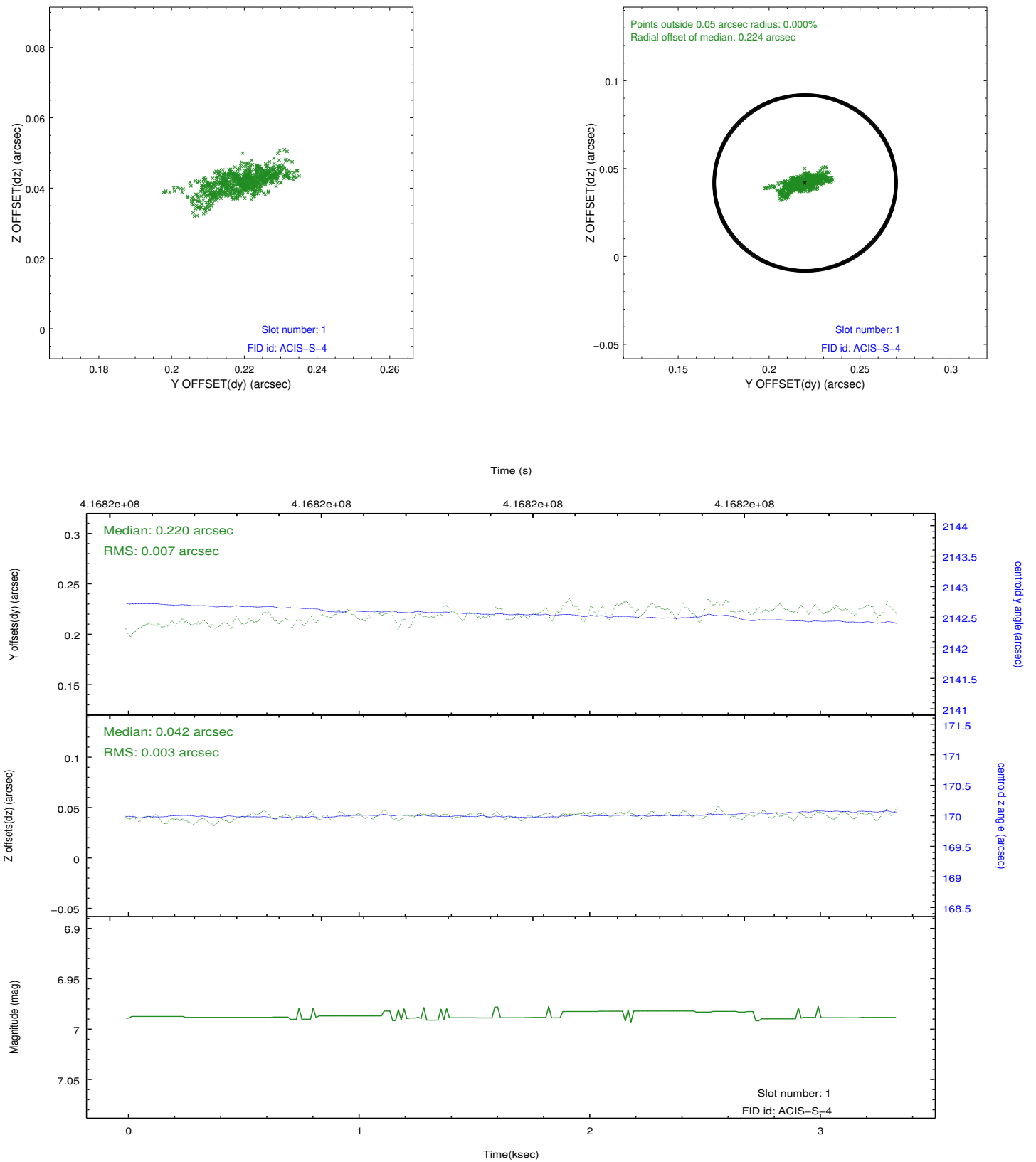


2.5 FID Slots

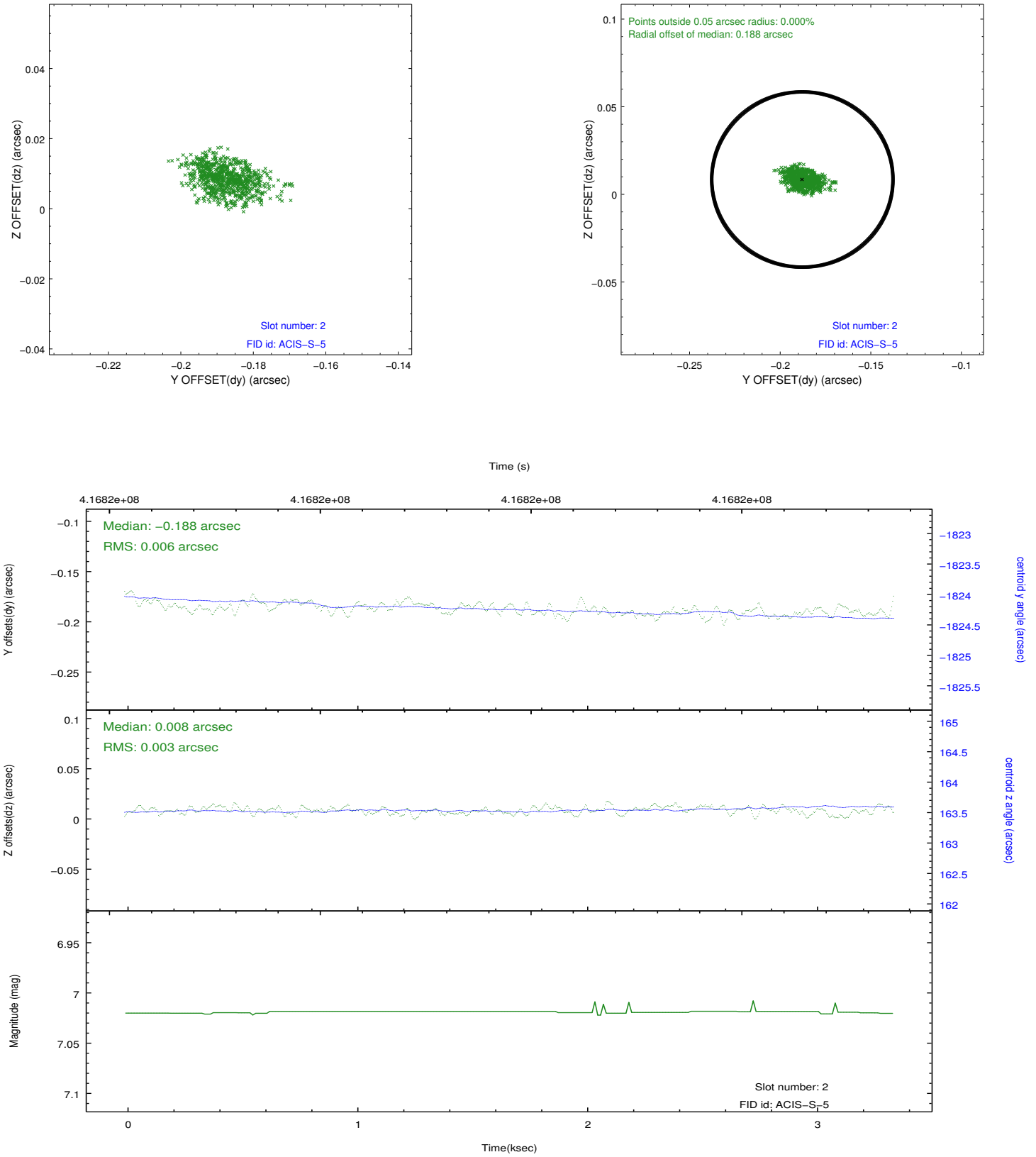
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.02.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2384640803337

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.