

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13107 - L2 Version 2
Chandra X-Ray Center

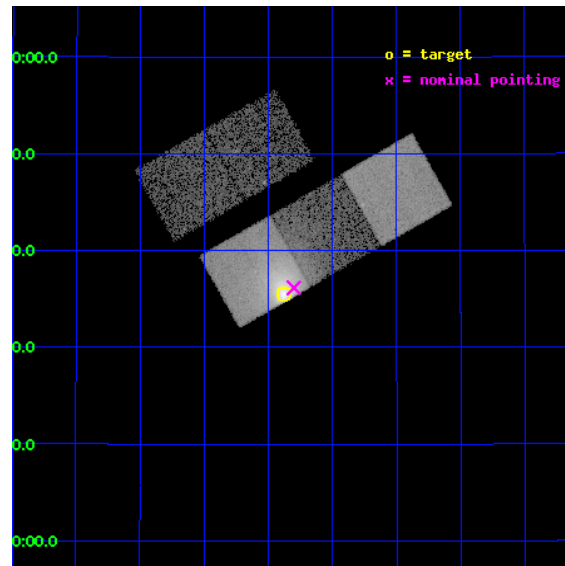
L2 Processing Date : Feb 7 2012

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1 Front

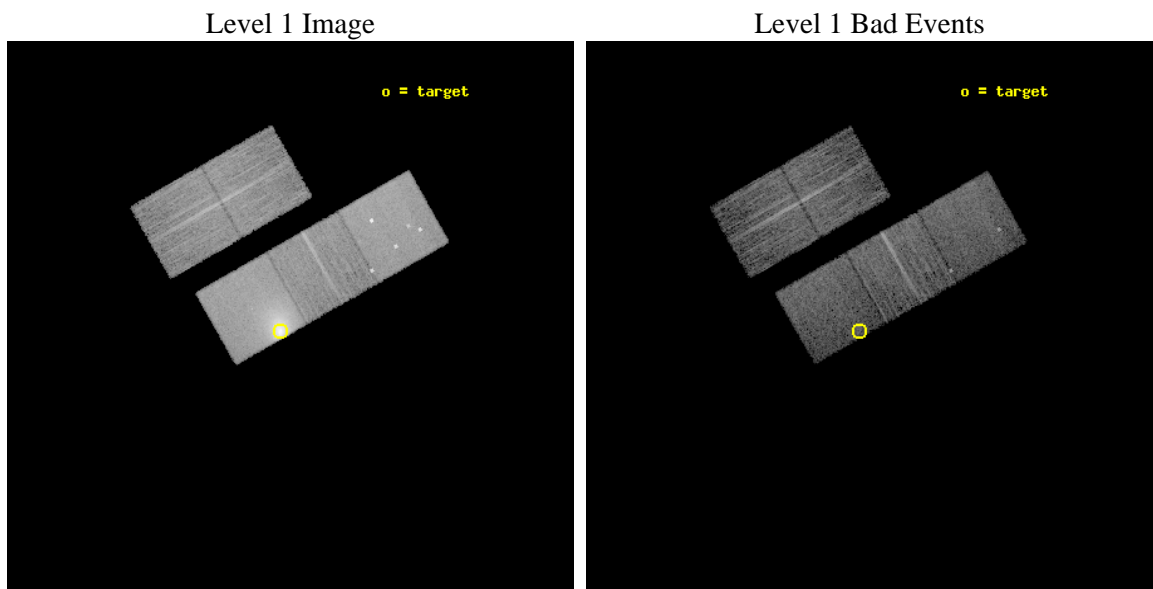
seq_num	890047	Sequence number
obs_id	13107	Observation id
title	AO-12 Calibration Observations of A1795	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.20029123063	Nominal RA [deg]
dec_nom	26.602594482772	Nominal Dec [deg]
roll_nom	150.29253988684	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9771.2000751495	Sum of GTIs [s]
livetime	9643.5321527149	Livetime [s]
ontime2	9771.2000751495	Sum of GTIs [s]
ontime3	9771.2000751495	Sum of GTIs [s]
ontime5	9771.2000751495	Sum of GTIs [s]
ontime6	9771.2000751495	Sum of GTIs [s]
ontime7	9771.2000751495	Sum of GTIs [s]
l2events	180849	Number of level 2 events



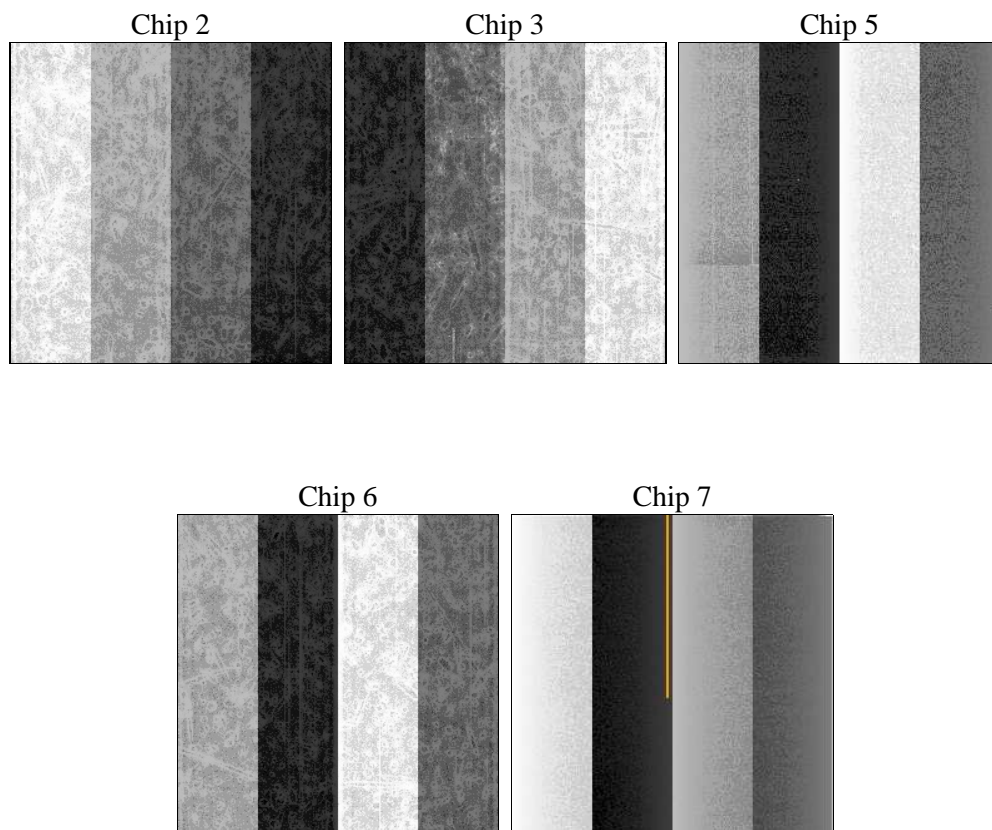
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	9771.2000751495	Sum of GTIs [s]
caldsver	4.4.7	 	ontime2	9771.2000751495	Sum of GTIs [s]
date	2012-02-07T13:25:30	Date and time of file creation	ontime3	9771.2000751495	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	9771.2000751495	Sum of GTIs [s]
			ontime6	9771.2000751495	Sum of GTIs [s]
			ontime7	9771.2000751495	Sum of GTIs [s]
			l1events	460910	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	64448	61474	106138	71138	157712
rejected events	57013	54571	51991	58632	45718
rejected %	88%	88%	48%	82%	28%

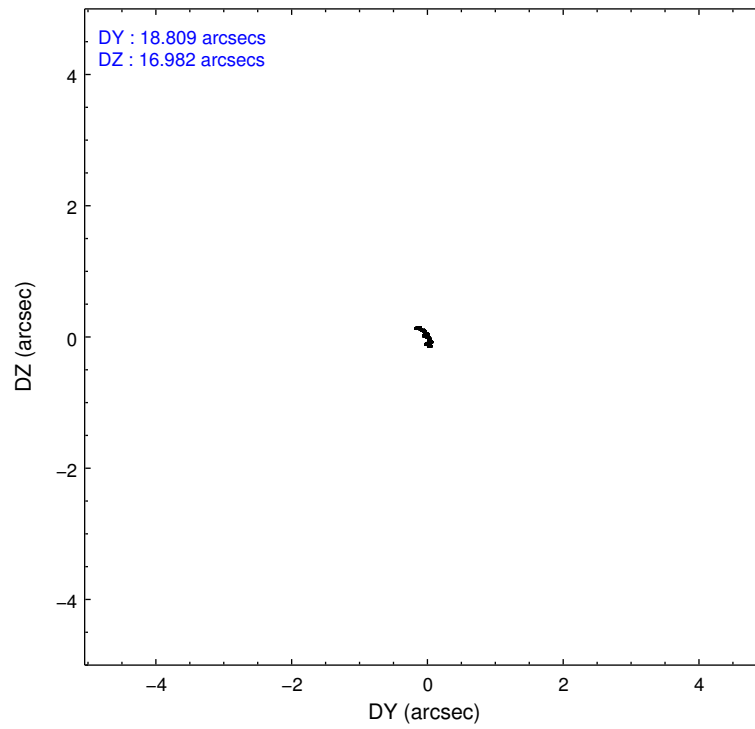
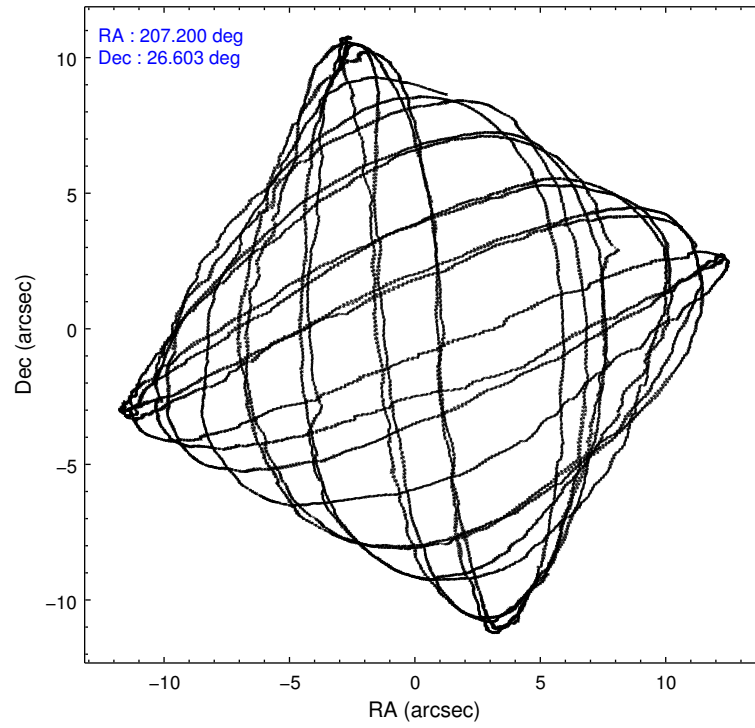
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	2832	2470	8405	6565	24455
	4%	4%	7%	9%	15%
grade 1 events	35	32	351	42	128
	0%	0%	0%	0%	0%
grade 2 events	1786	1593	15489	2229	26930
	2%	2%	14%	3%	17%
grade 3 events	700	724	2033	920	12167
	1%	1%	1%	1%	7%
grade 4 events	729	740	1964	964	11875
	1%	1%	1%	1%	7%
grade 5 events	2572	2987	7862	3050	8927
	3%	4%	7%	4%	5%
grade 6 events	1395	1379	26285	1840	36654
	2%	2%	24%	2%	23%
grade 7 events	54399	51549	43749	55528	36576
	84%	83%	41%	78%	23%

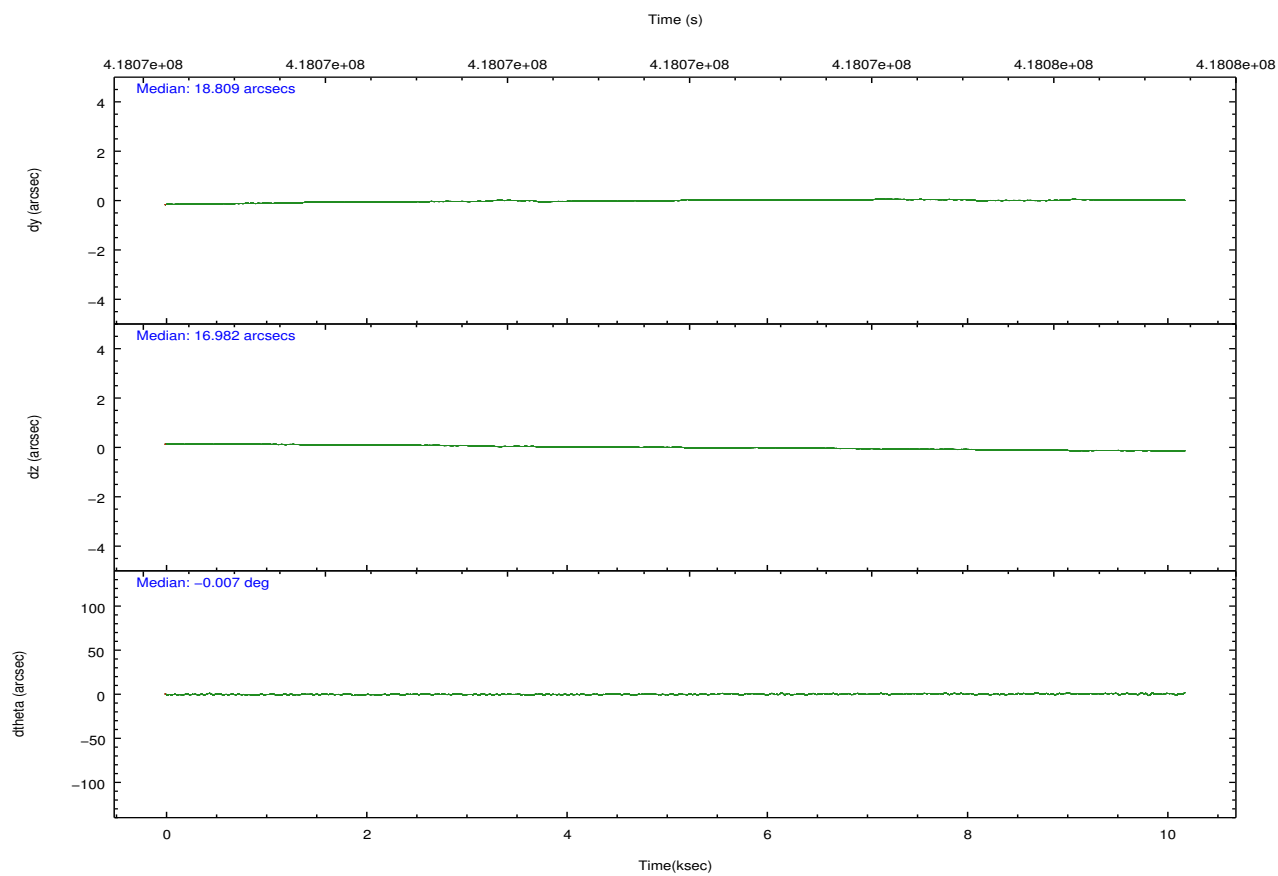
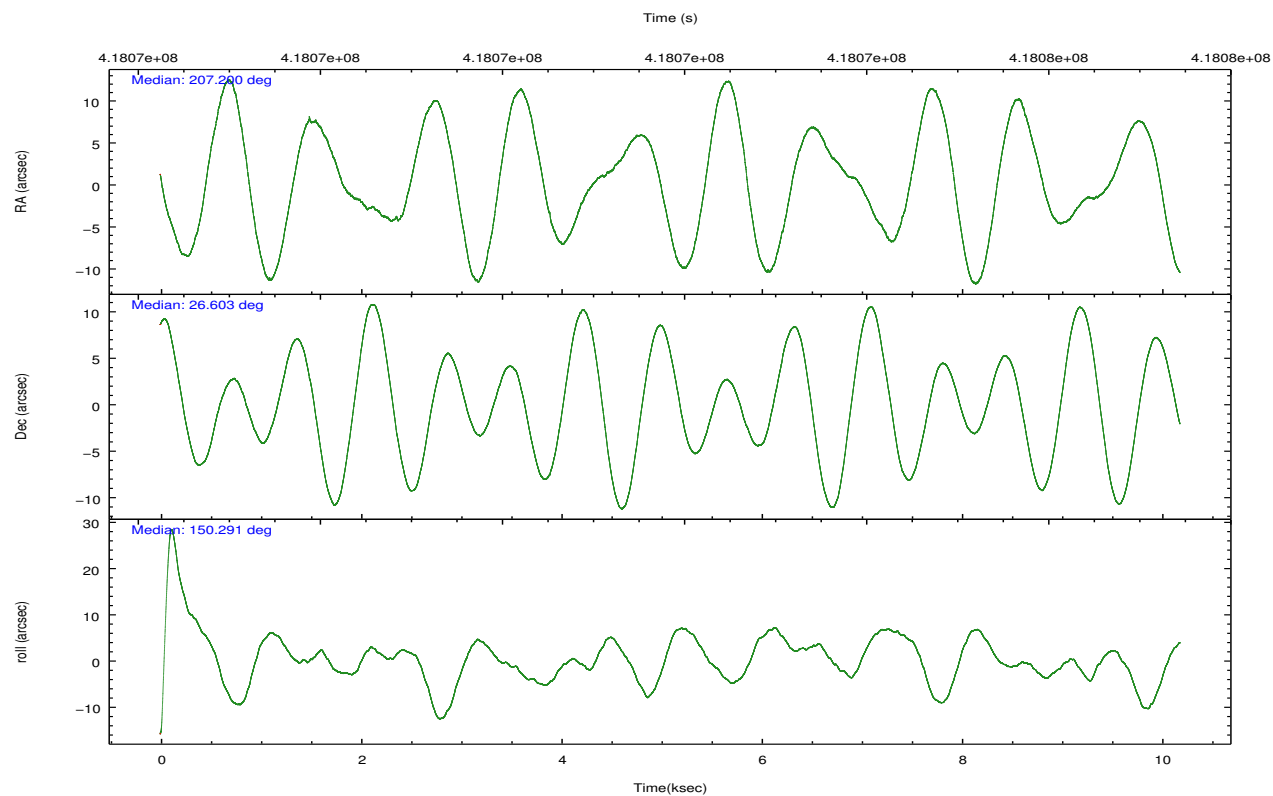
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23567	ACIS-23567
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	207.230894	207.2002912306265
[deg] Pointing Dec	26.603090	26.60259448277177
[deg] Pointing Roll	150.122267	150.2925398868423
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-180.332523	-180.3266934278832
[mm] SIM translation stage offset	-9.800000000000001	-9.805829155124599
[s] Observation start time (MET)	418066923.184000	418066547.00327
Observation start date	2011-04-01T17:40:57	2011-04-01T17:35:47
[s] Observation end time (MET)	418076923.184000	418078448.27889
Observation end date	2011-04-01T20:27:37	2011-04-01T20:54:08
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



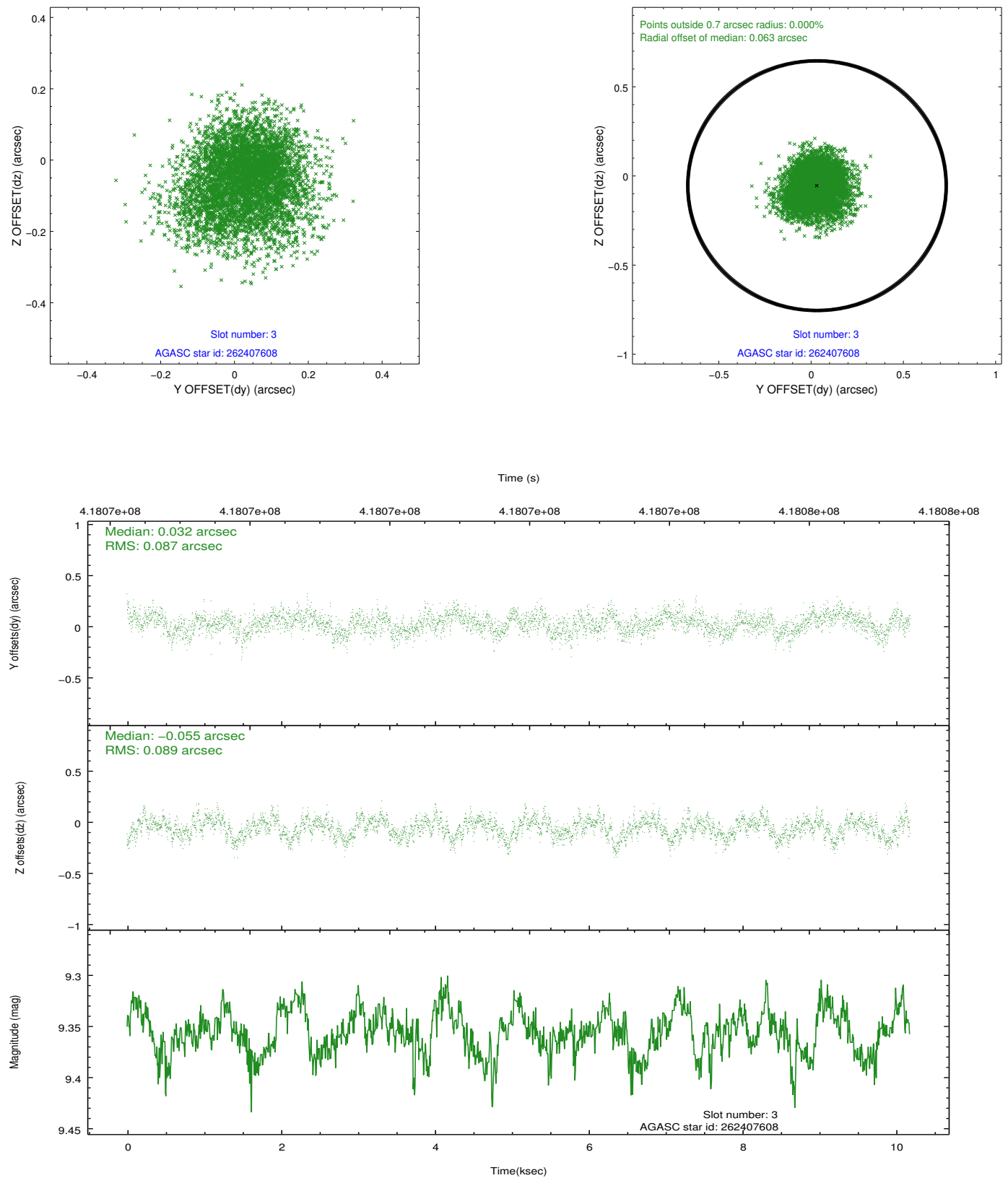


Slot Statistics

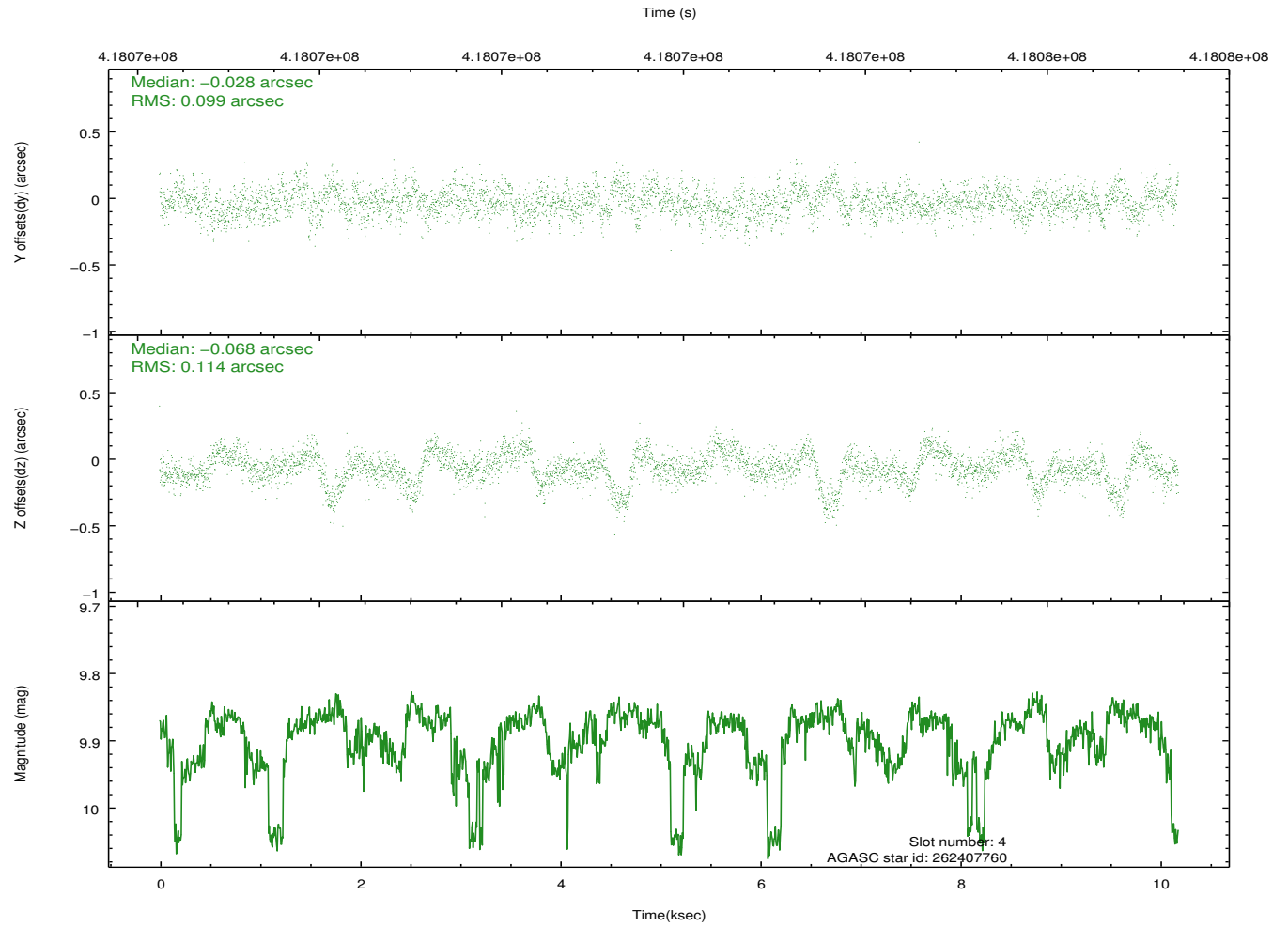
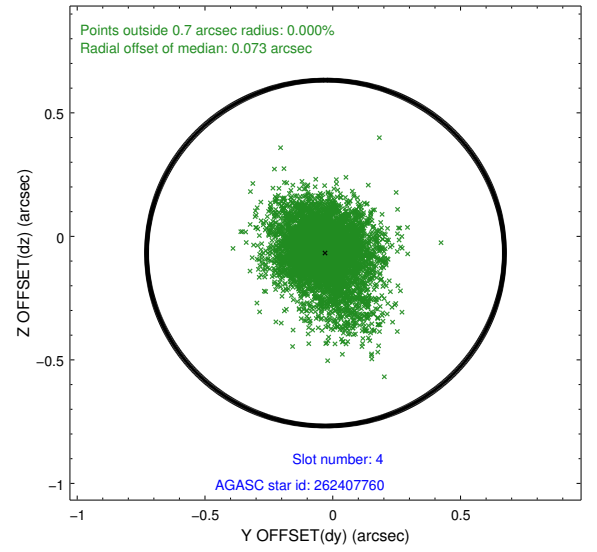
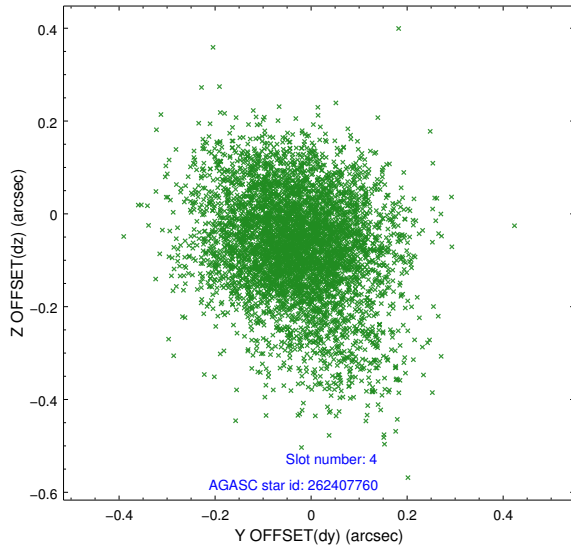
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.00	2485	0.104	0.155	0.007	0.012	0.000000	0.000000	925.05	-1935.79
1	FID	ACIS-S-2	6.91	2485	-0.192	-0.095	0.007	0.012	0.000000	0.000000	-770.86	-1941.25
2	FID	ACIS-S-6	7.21	2485	0.068	-0.057	0.006	0.011	0.000000	0.000000	390.36	604.69
3	GUIDE	262407608	9.36	4967	0.032	-0.055	0.133	0.216	207.378401	26.435507	-712.67	286.12
4	GUIDE	262407760	9.89	4950	-0.028	-0.068	0.156	0.272	206.566773	26.577263	1810.78	1141.30
5	GUIDE	262407800	10.08	4955	-0.168	0.268	0.213	0.335	207.321181	27.251762	914.87	-2166.79
6	GUIDE	262408936	9.64	4950	0.077	0.057	0.134	0.216	207.154731	26.726554	433.98	-263.61
7	GUIDE	262411960	9.68	4937	0.061	-0.207	0.222	0.340	207.327895	25.881727	-1565.77	2095.09

2.4 Star Slots

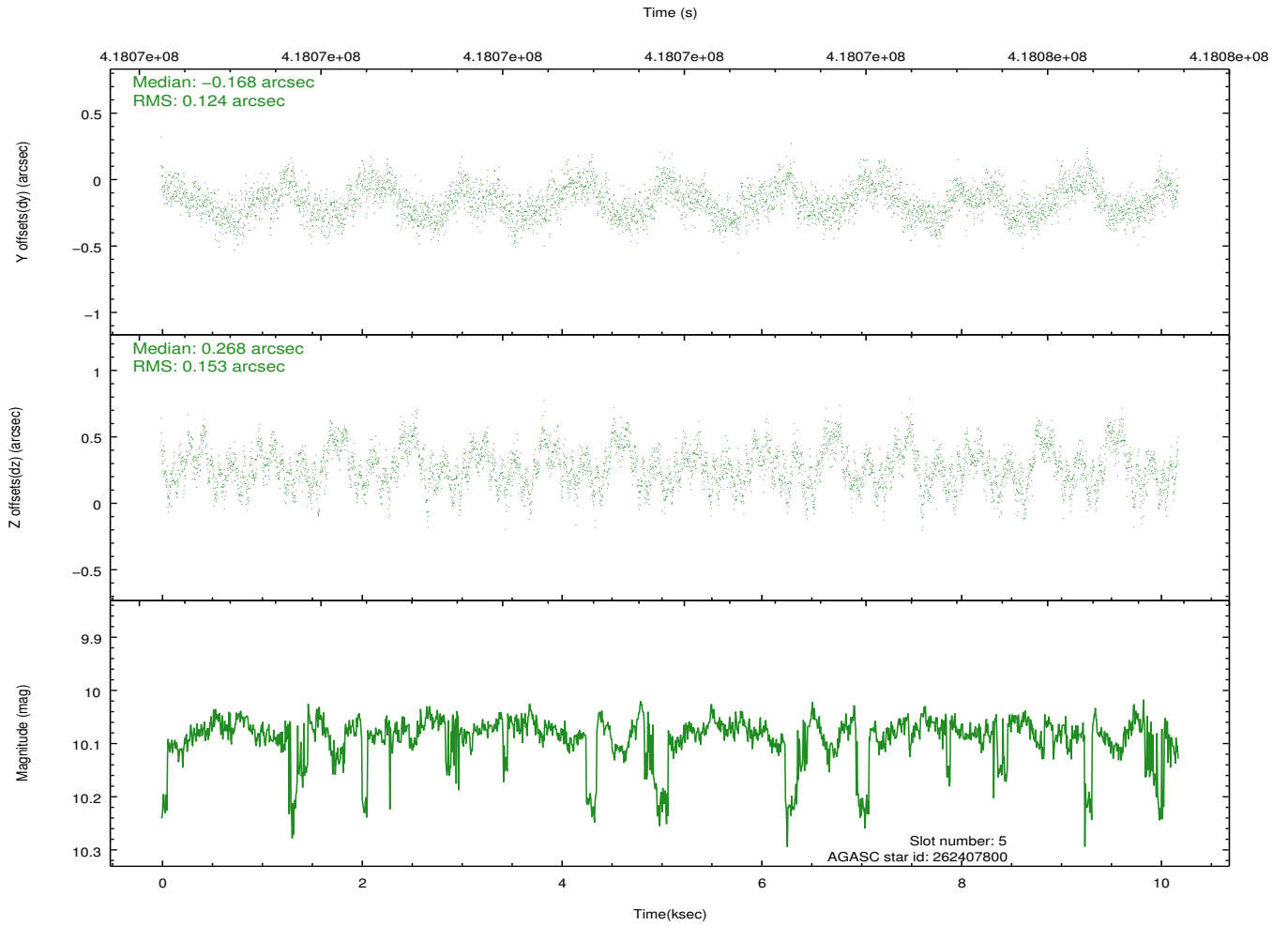
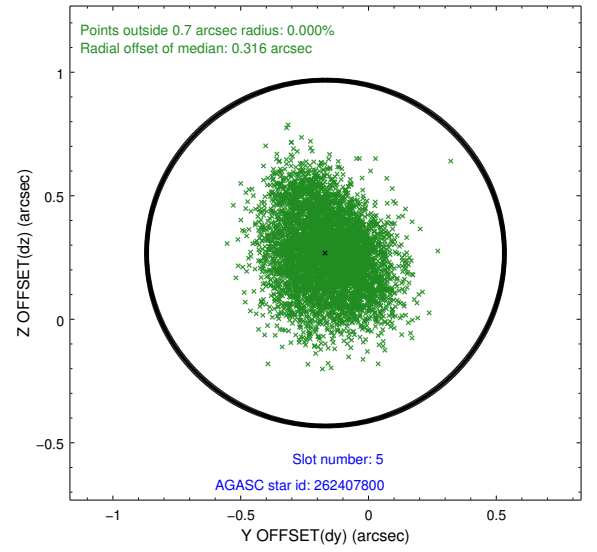
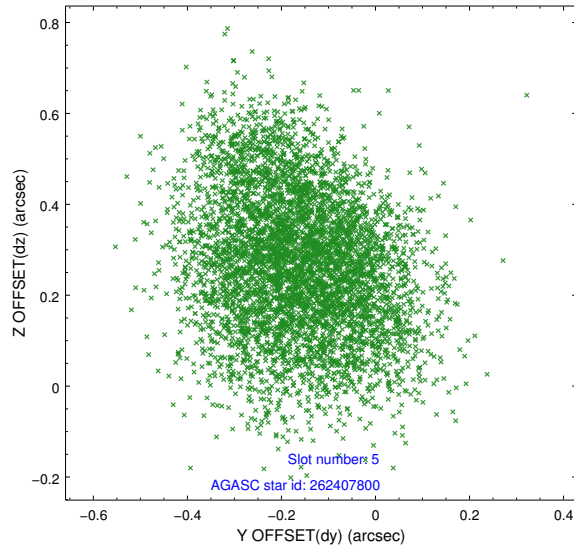
2.4.1 Slot 3



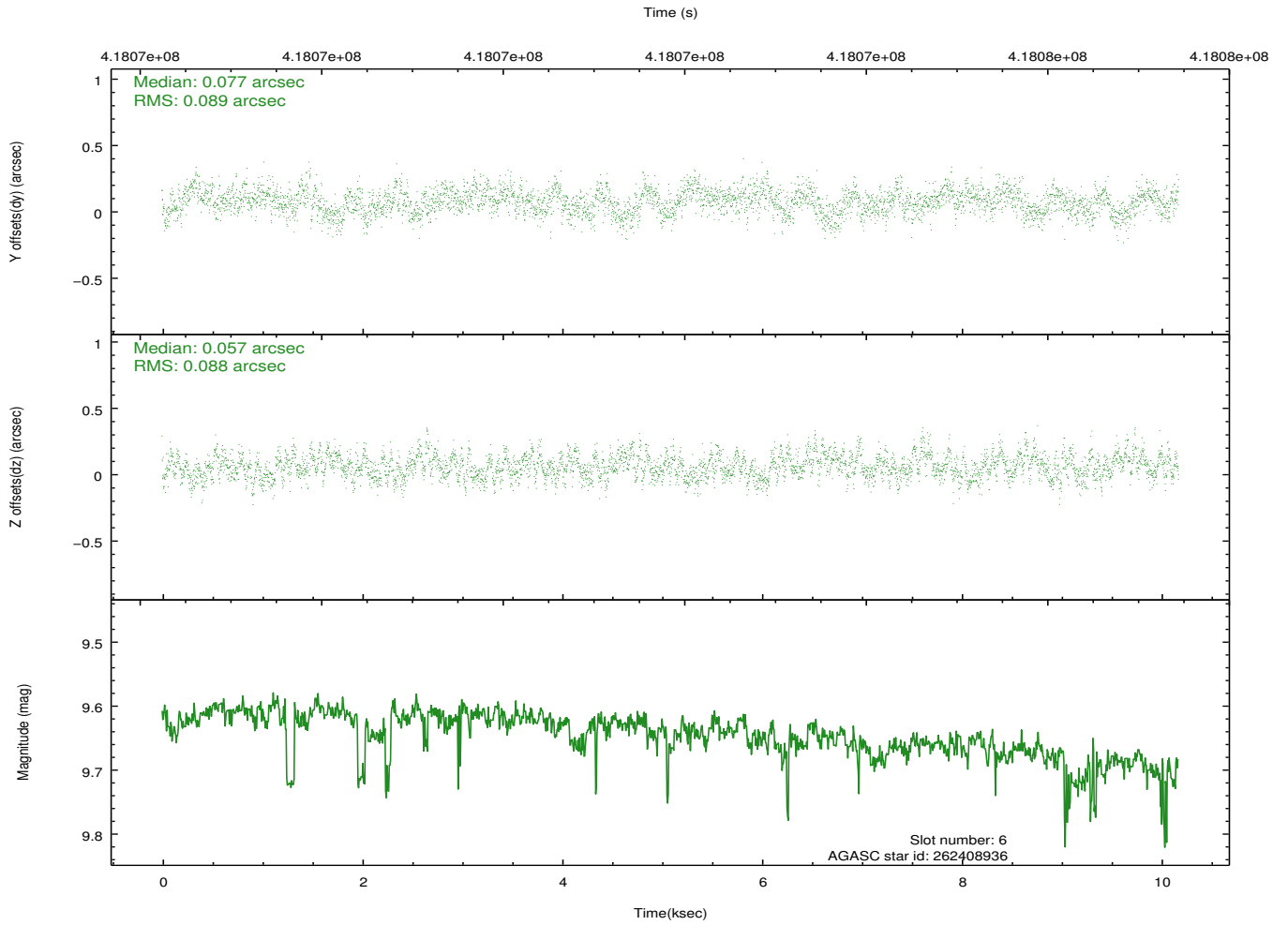
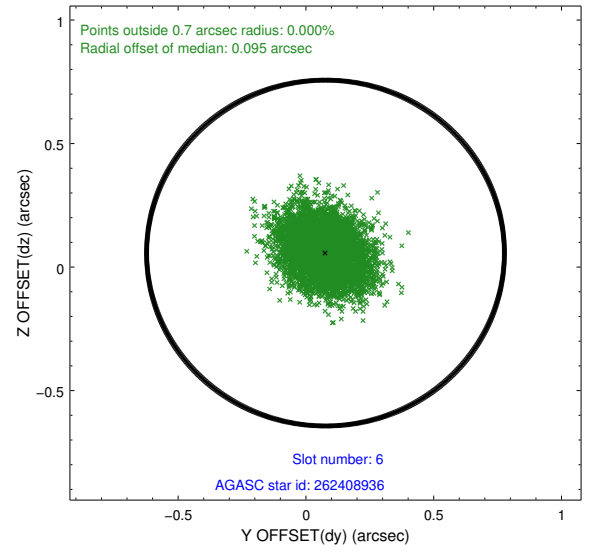
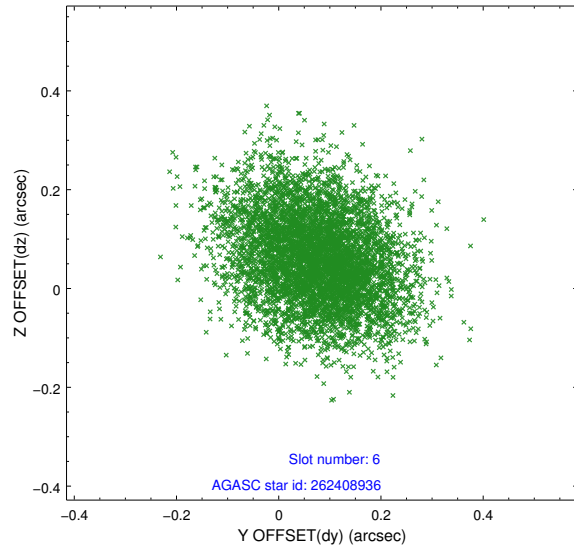
2.4.2 Slot 4



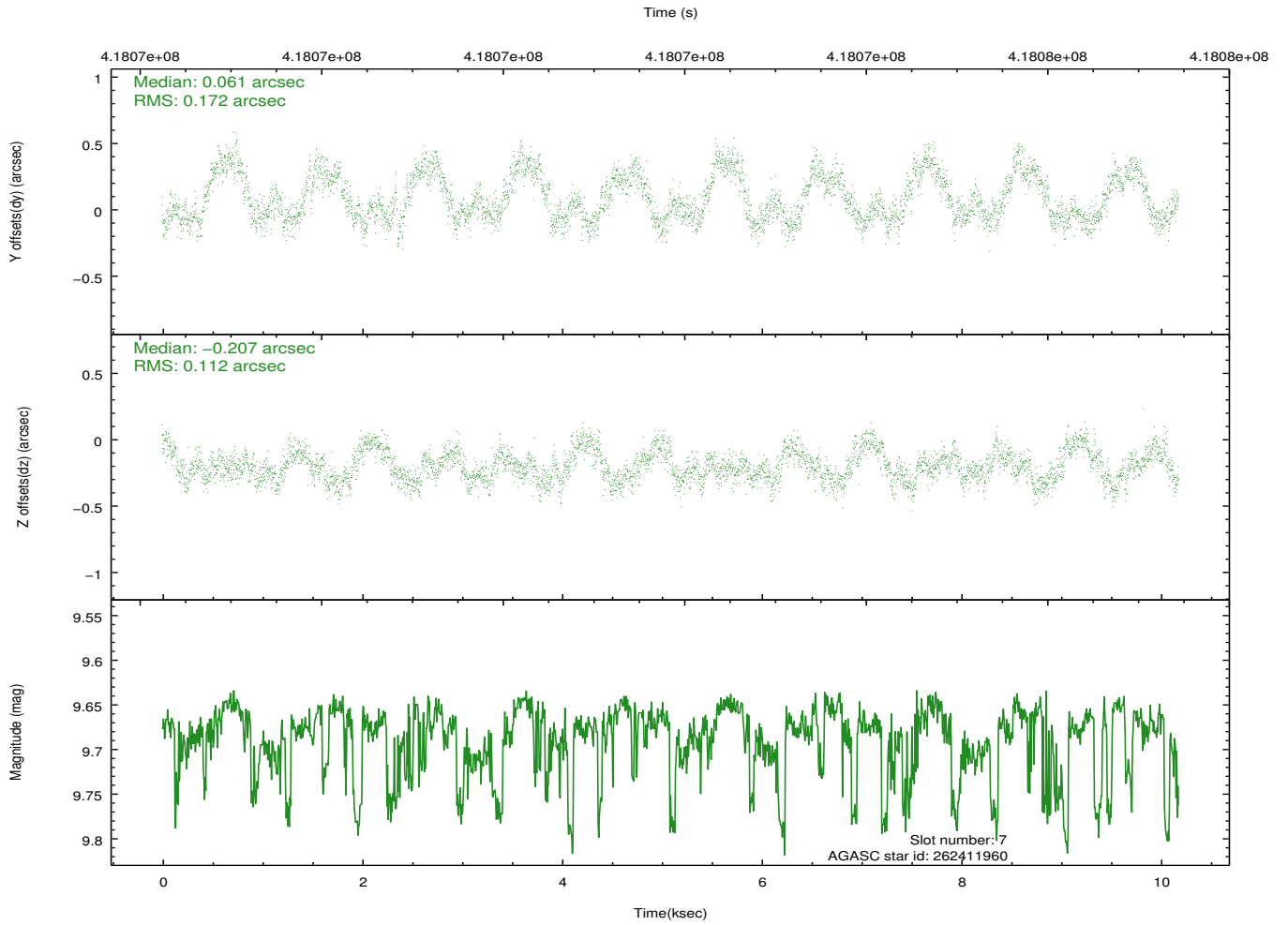
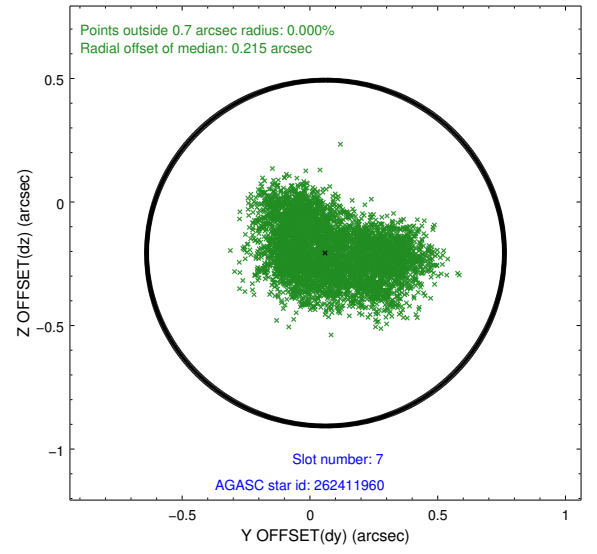
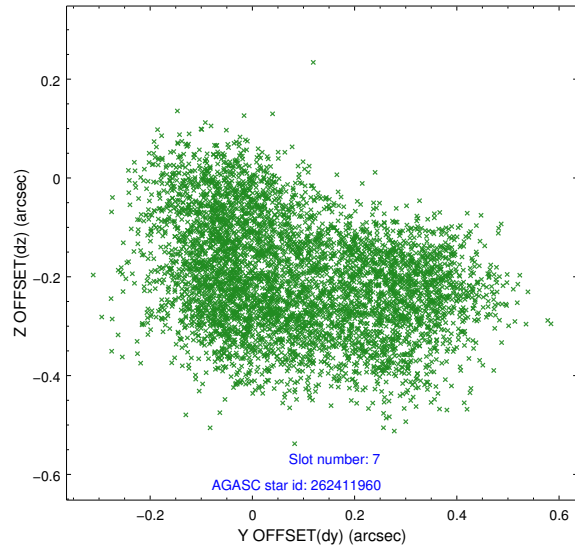
2.4.3 Slot 5



2.4.4 Slot 6

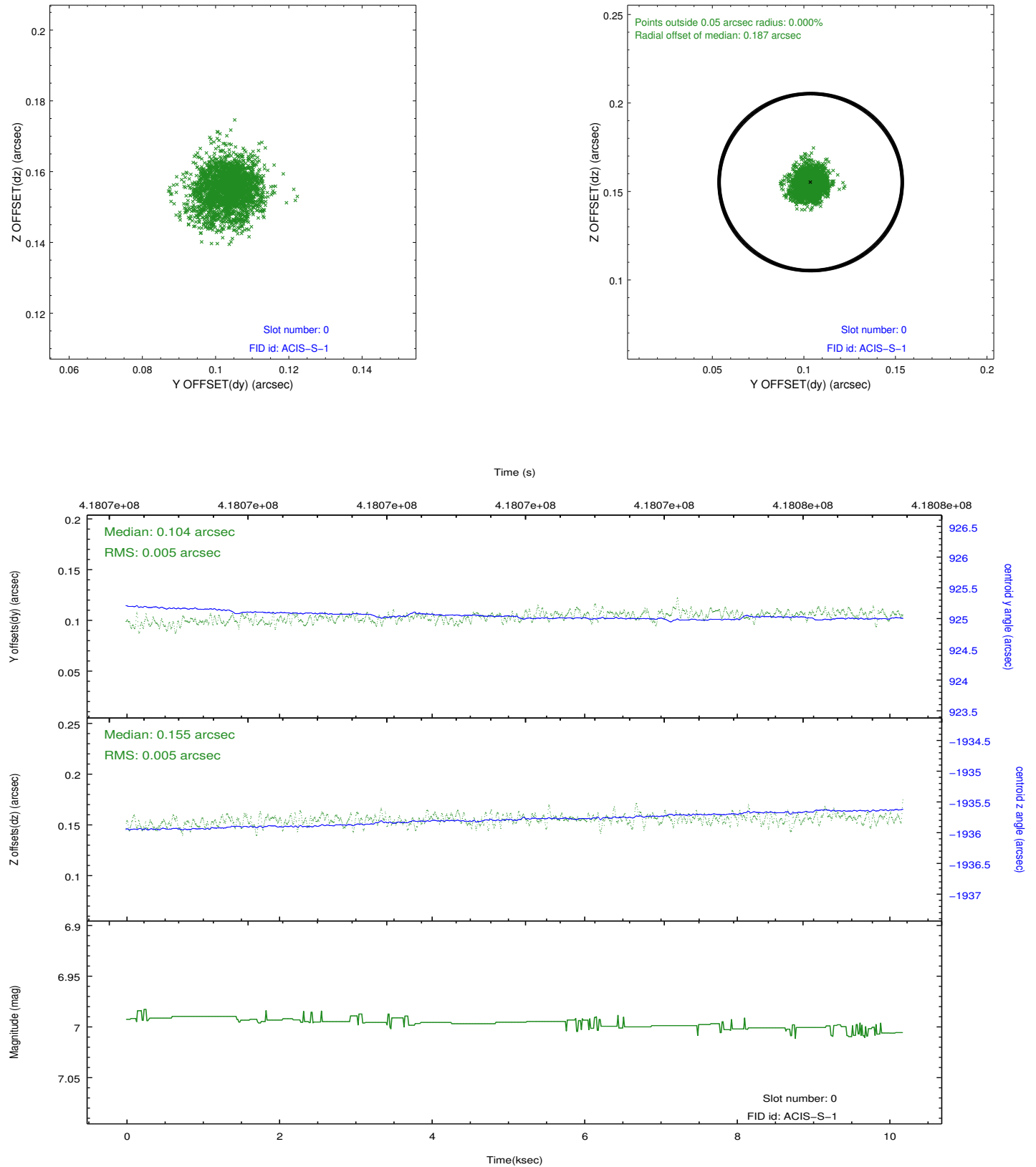


2.4.5 Slot 7

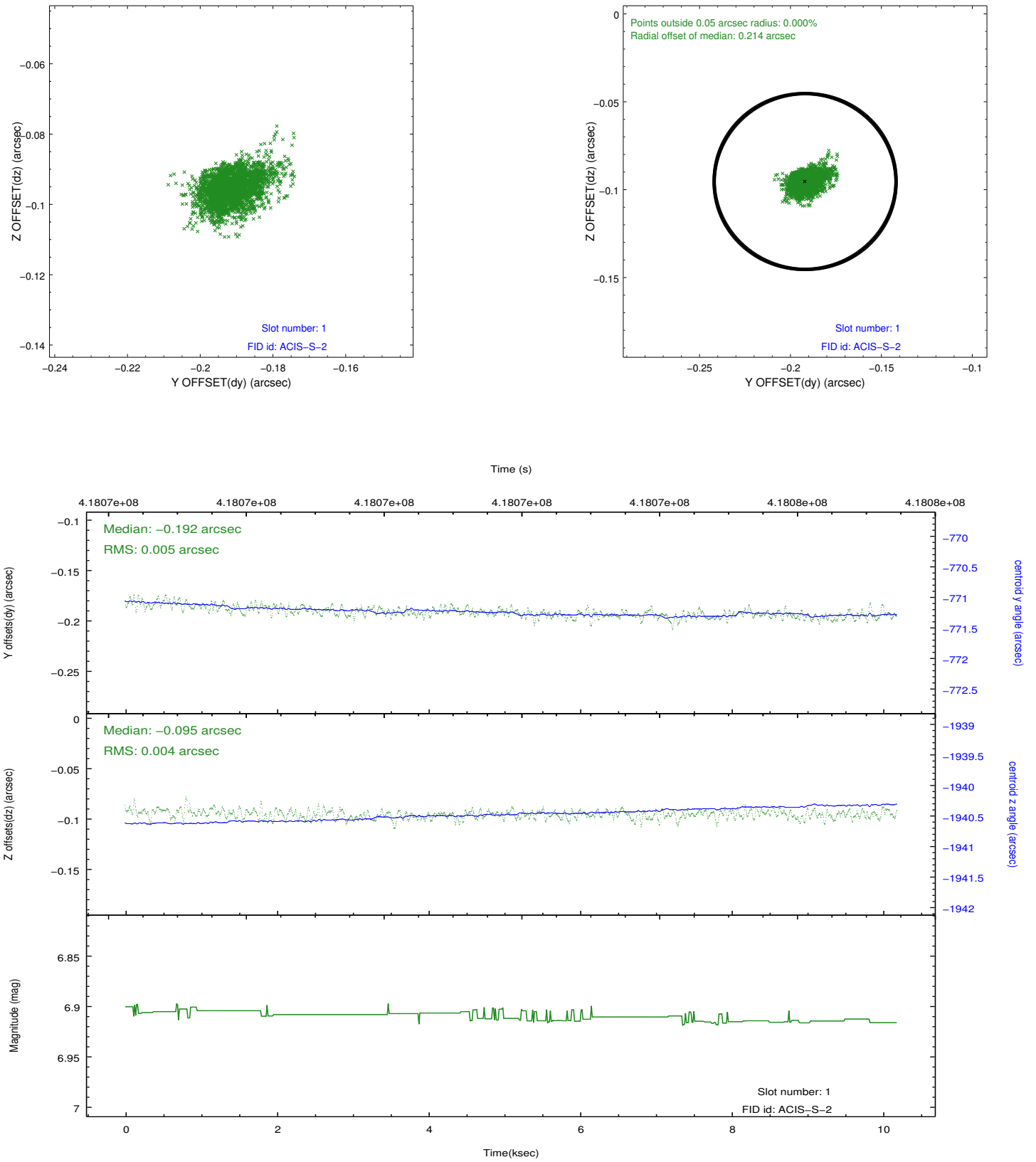


2.5 FID Slots

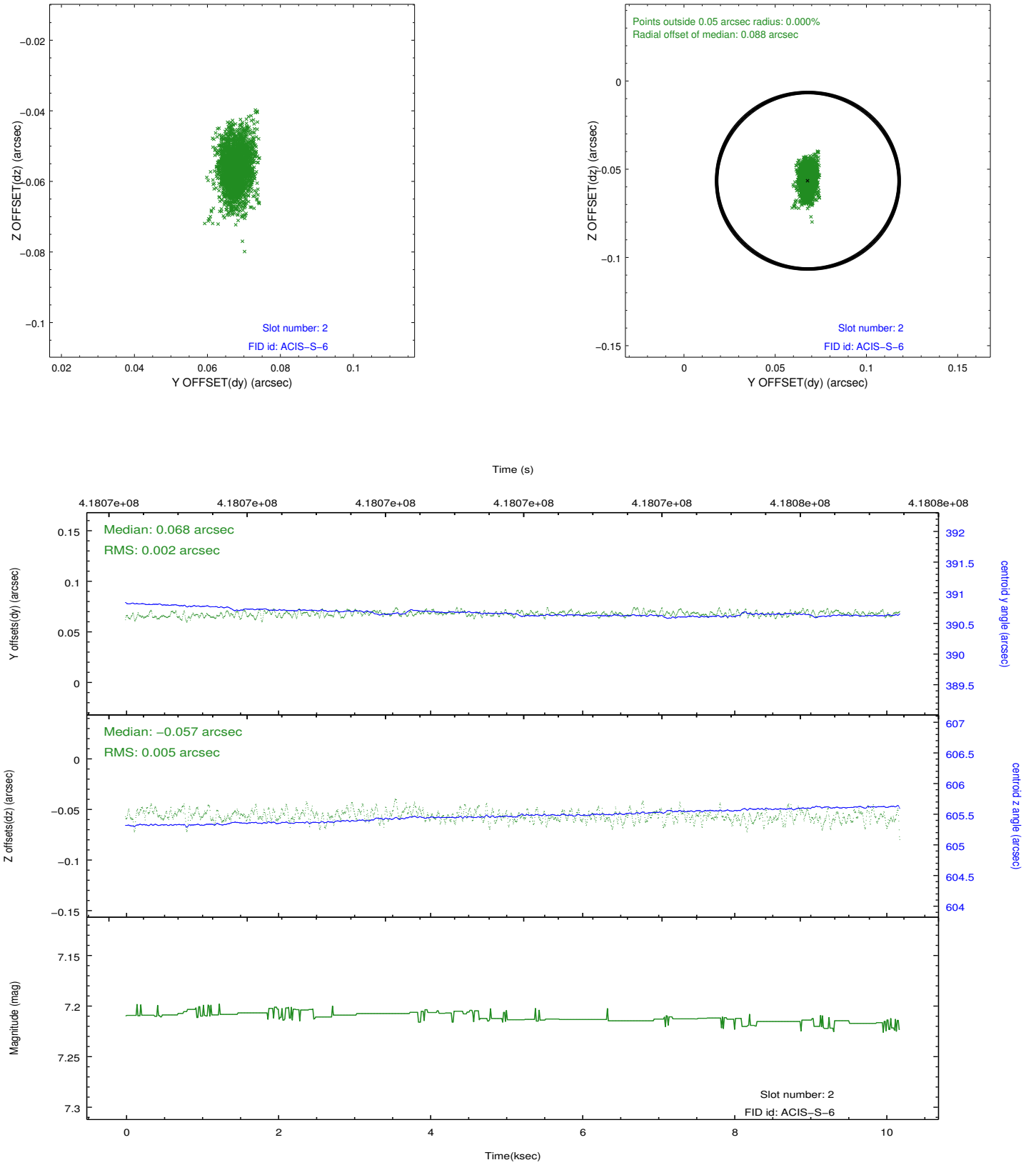
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.02.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.7712000751495

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.