

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 772 - L2 Version 5
Chandra X-Ray Center

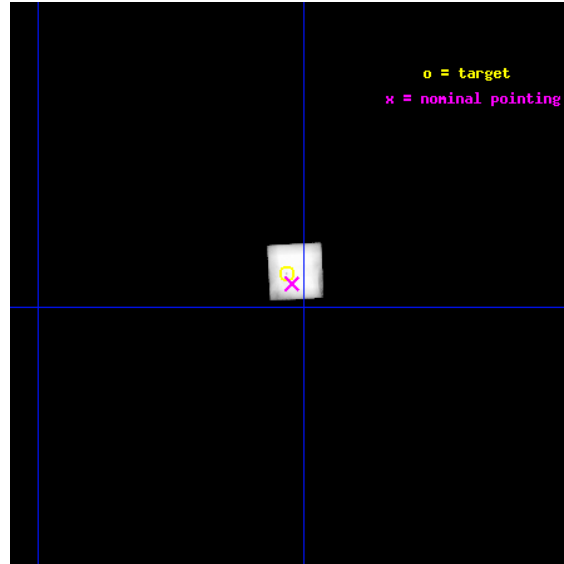
L2 Processing Date : Aug 22 2012

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1 Front

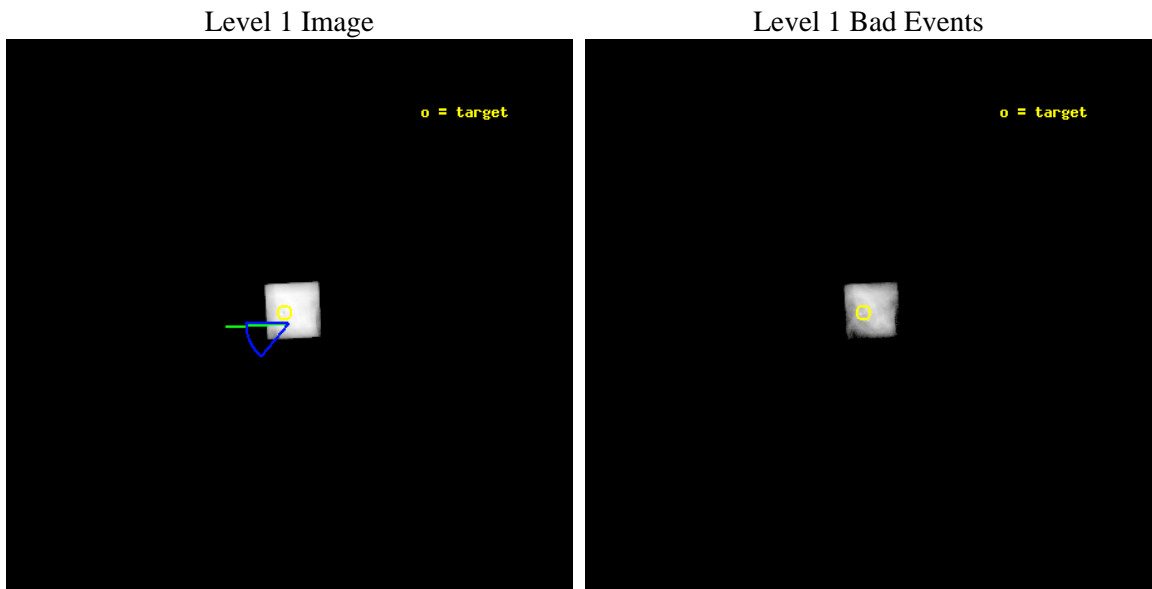
seq_num	500068	Sequence number
obs_id	772	Observation id
title	ACIS/HST OBSERVATIONS OF RELATIVISTIC WISPS IN THE CRAB NEBULA	Pro
observer	PROF. JEFF HESTER	Principal investigator
object	CRAB NEBULA	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.632917	Observer's specified target RA [deg]
dec_targ	22.014472	Observer's specified target Dec [deg]
ra_nom	83.630646525457	Nominal RA [deg]
dec_nom	22.010029333008	Nominal Dec [deg]
roll_nom	266.97821398261	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1507.3348818123	Sum of GTIs [s]
livetime	1392.9976358609	Livetime [s]
ontime7	1507.3348818123	Sum of GTIs [s]
l2events	1733439	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1507.3348818123	Sum of GTIs [s]
caldbver	4.5.1.1	 	ontime7	1507.3348818123	Sum of GTIs [s]
date	2012-08-22T19:24:23	Date and time of file creation	l1events	2465676	Number of level 1 events
revision	5	Processing version of data			

2.1.3 Events

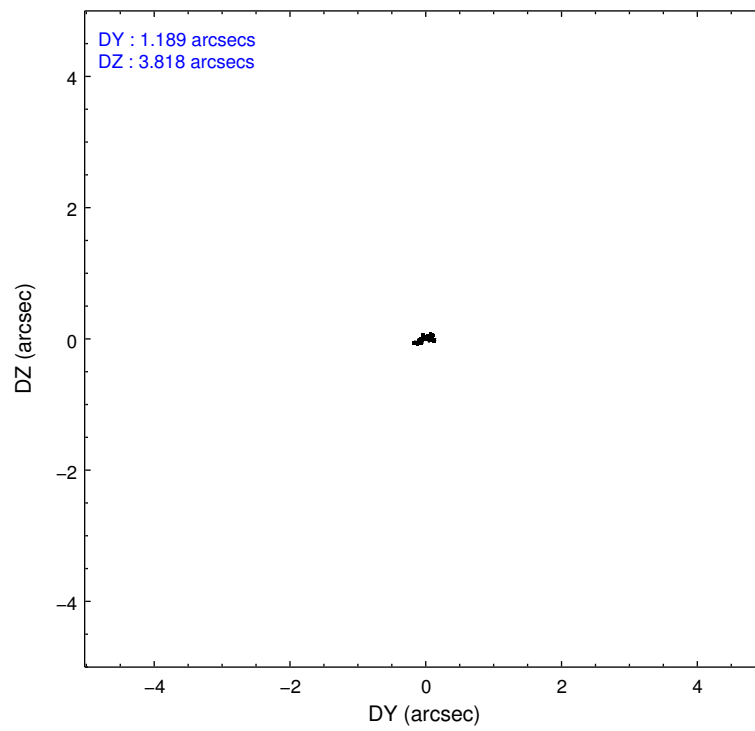
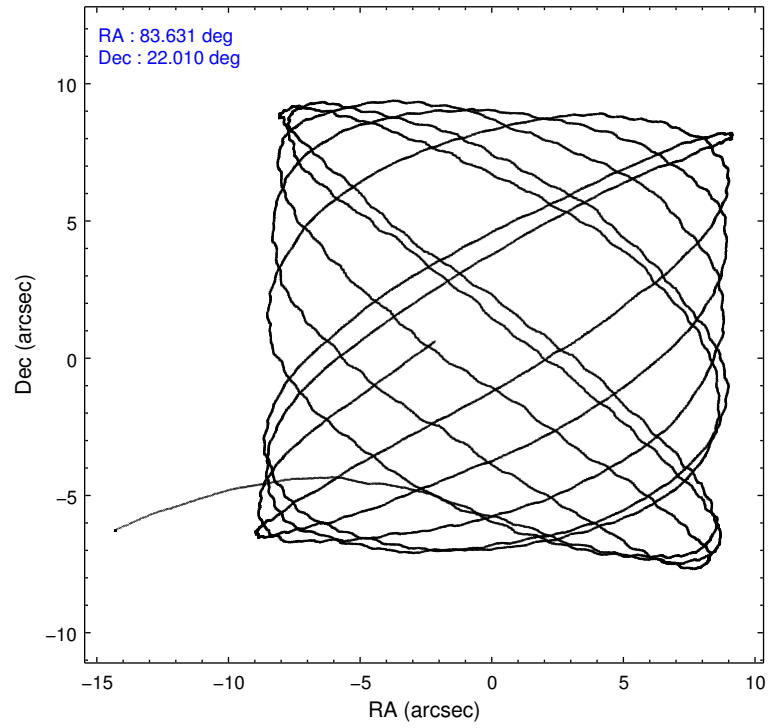
	ccd 7
level 1 events	2465676
rejected events	707214
rejected %	28%

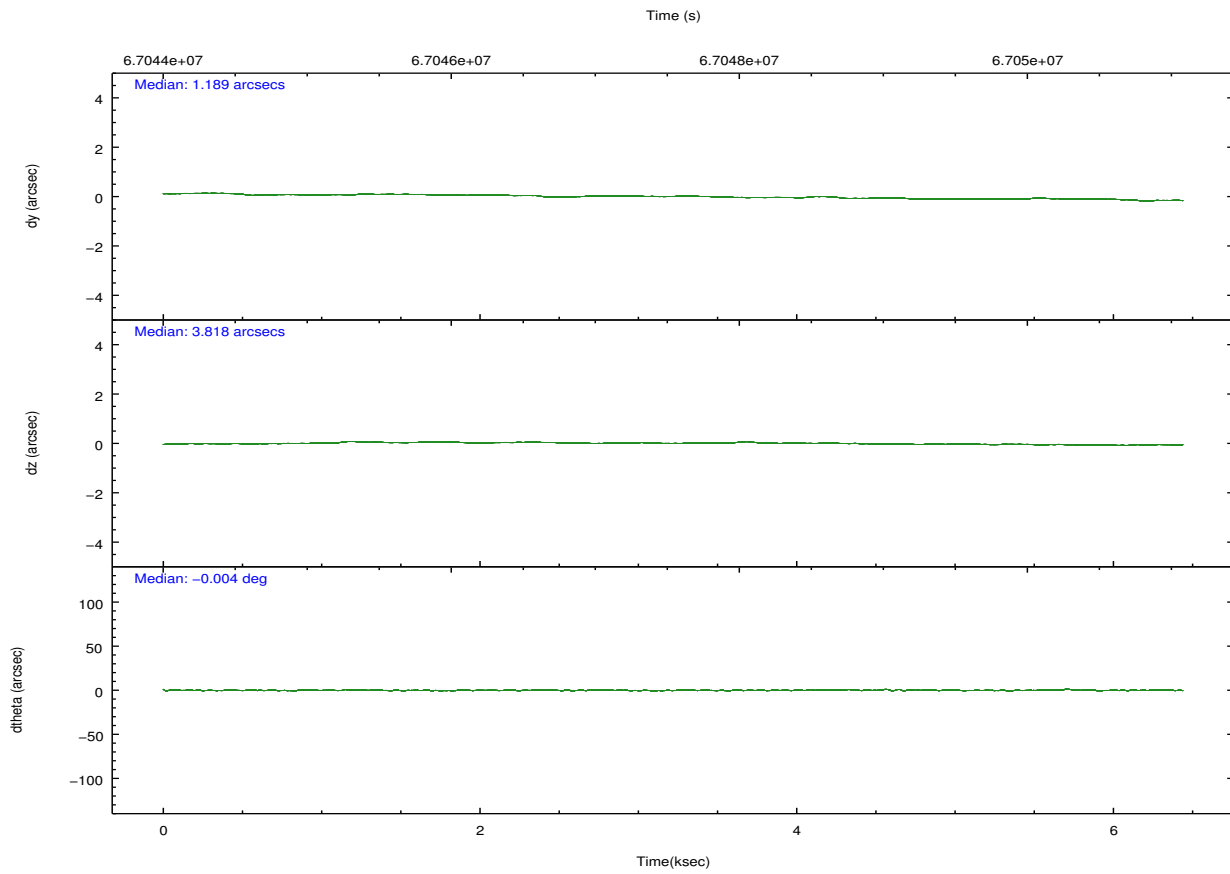
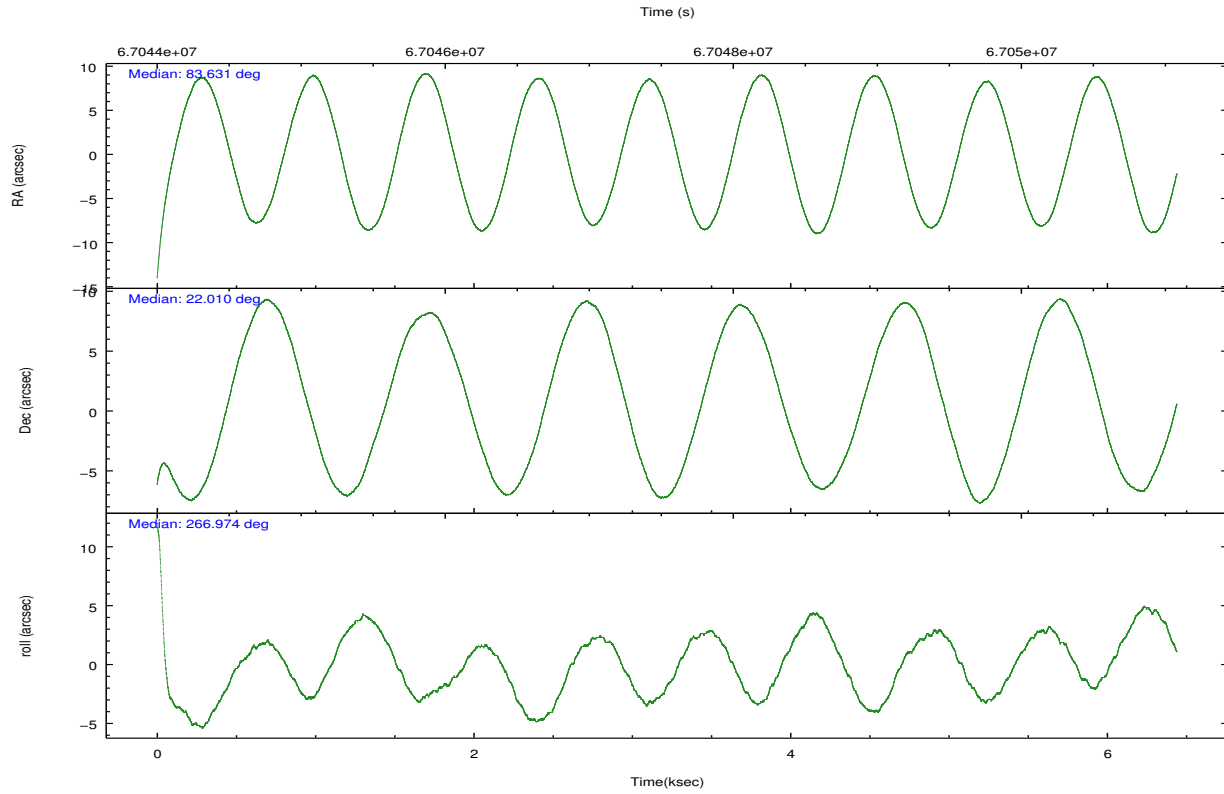
	ccd 7
grade 0 events	295962
	12%
grade 1 events	66334
	2%
grade 2 events	442845
	17%
grade 3 events	194923
	7%
grade 4 events	191730
	7%
grade 5 events	195900
	7%
grade 6 events	633911
	25%
grade 7 events	444071
	18%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	GRADED	GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	83.617196	83.63064652545719	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	22.034644	22.01002933300843	Subarray start row	11	11
[deg] Pointing Roll	266.826602	266.9782139826077	Subarray row count	140	140
[deg] Roll angle	245.000000	245.000000	Alternating exposures requested	N	N
[deg] Roll tolerance	25.000000	25.000000	[s] Primary exposure time	0.000000	0.5
Roll constraint allows 180D rotation	N	N			
[s] Window start time (MET)	66960064.184000	66960064.184000			
[s] Window stop time (MET)	67219264.184000	67219264.184000			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-179.132523	-179.1399366055469			
[mm] SIM translation stage offset	-11	-10.99258597746092			
[s] Observation start time (MET)	67044758.184000	67043431.792287			
Observation start date	2000-02-15T23:31:34	2000-02-15T23:10:31			
[s] Observation end time (MET)	67050758.184000	67051717.380089			
Observation end date	2000-02-16T01:11:34	2000-02-16T01:28:37			
Read mode	TIMED	TIMED			

2.3 Aspect



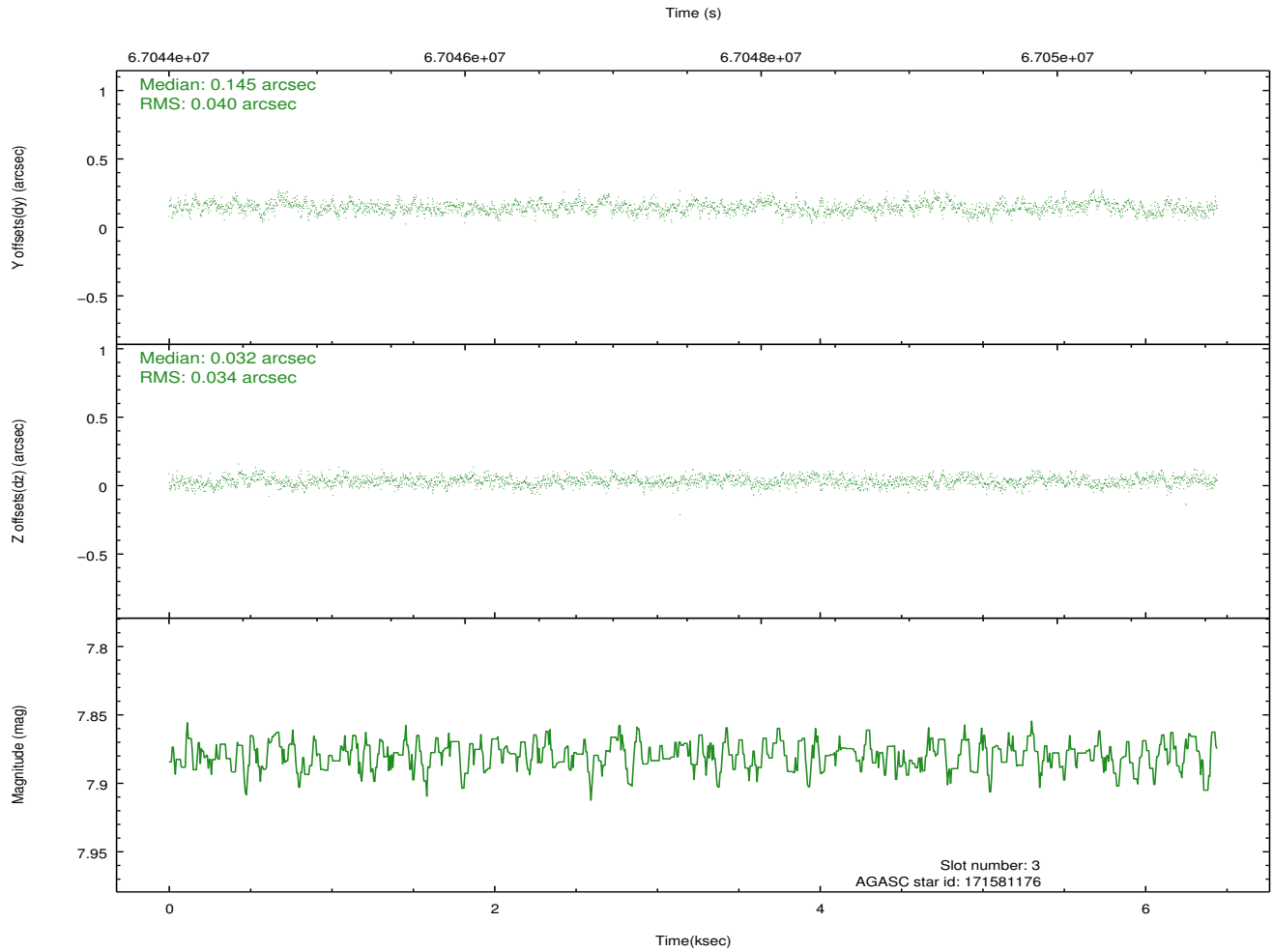
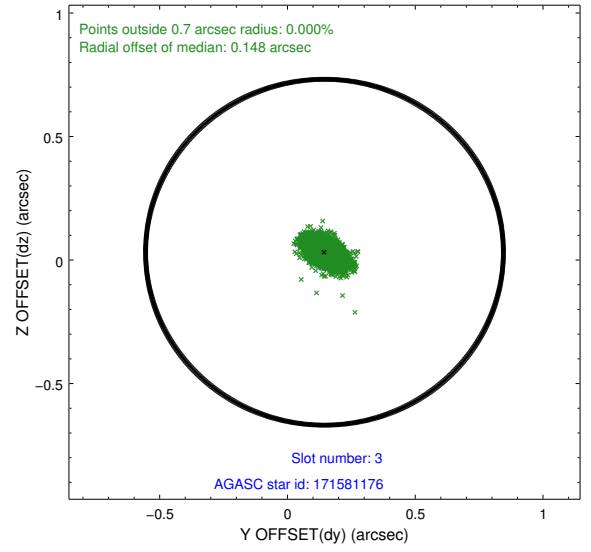
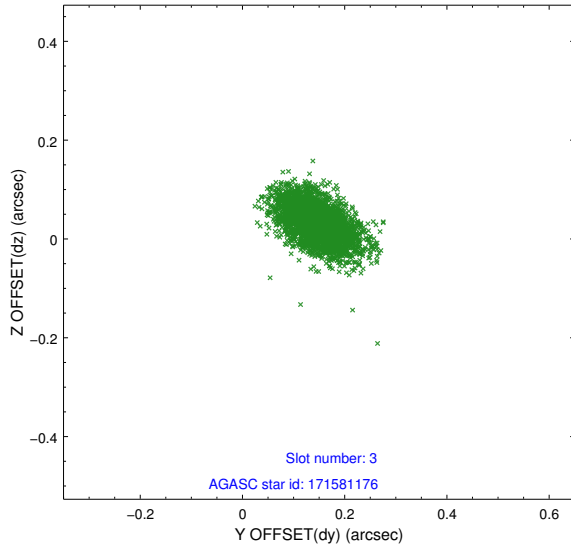


Slot Statistics

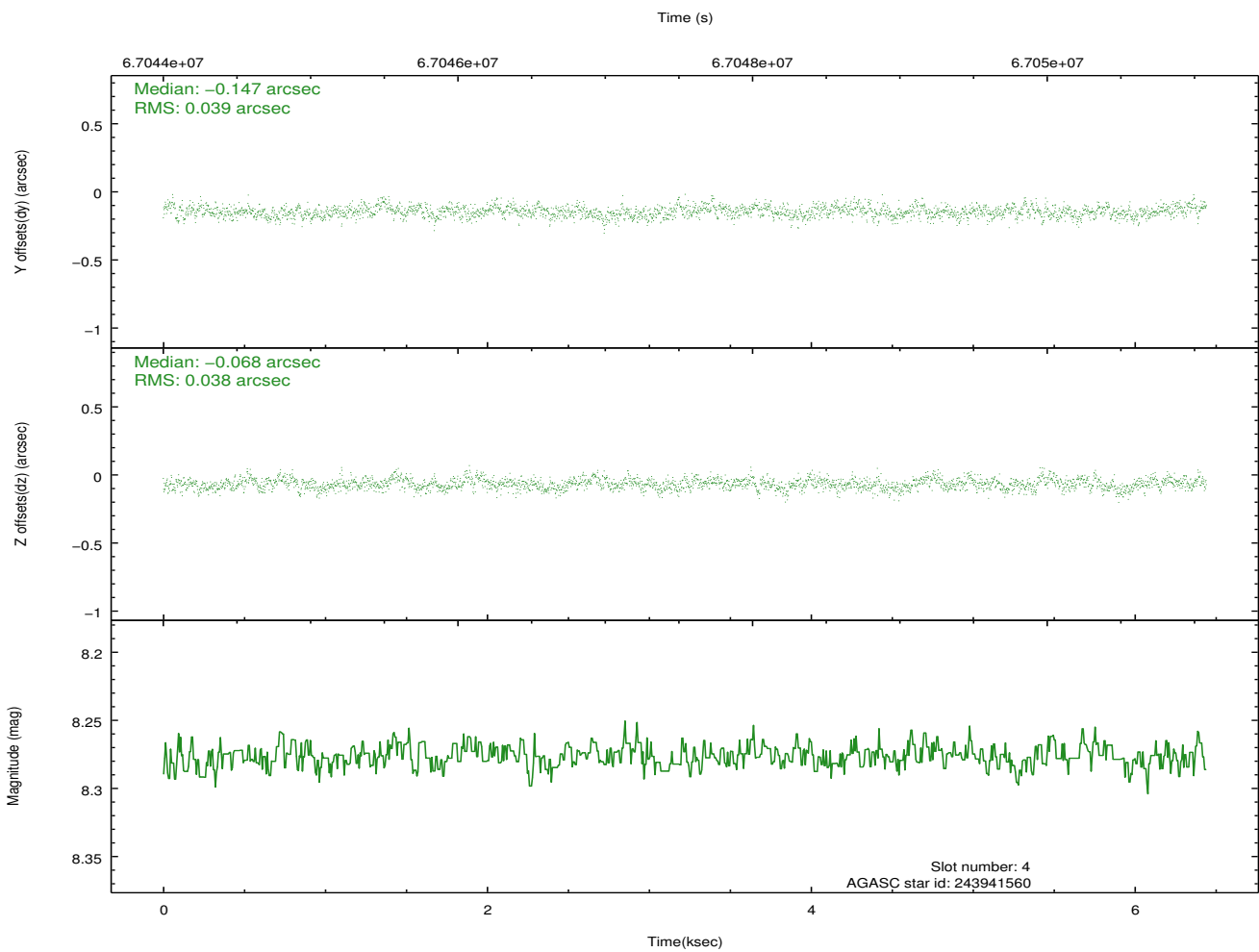
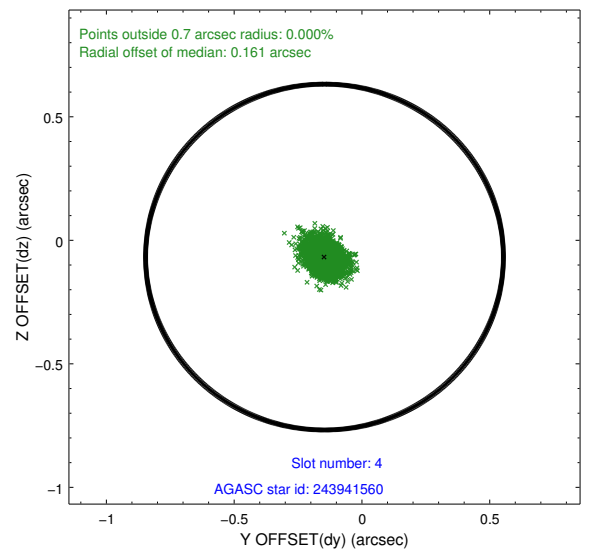
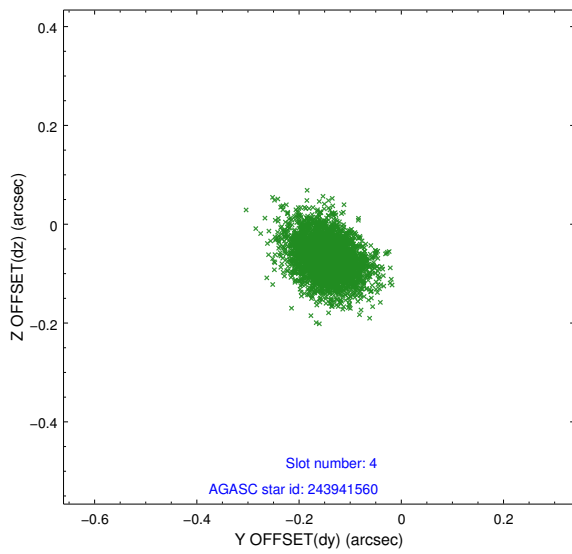
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1571	-0.086	-0.321	0.007	0.011	0.000000	0.000000	-753.04	-1951.53
1	FID	ACIS-S-4	7.17	1571	0.081	0.127	0.005	0.009	0.000000	0.000000	2159.99	-43.68
2	FID	ACIS-S-5	7.23	1571	-0.026	0.202	0.007	0.011	0.000000	0.000000	-1804.66	-48.92
3	GUIDE	171581176	7.88	3141	0.145	0.032	0.055	0.093	83.918863	21.403256	2212.38	1135.24
4	GUIDE	243941560	8.28	3142	-0.147	-0.068	0.058	0.097	83.733264	22.568598	-1940.51	278.67
5	GUIDE	171586032	8.93	3138	-0.015	0.095	0.070	0.114	83.950197	22.083225	-238.30	1099.24
6	GUIDE	171586792	9.04	3140	-0.075	0.049	0.076	0.124	83.501733	22.424168	-1379.39	-461.33
7	GUIDE	171600224	9.66	3127	0.087	-0.106	0.112	0.184	82.941815	21.636094	1552.32	-2177.97

2.4 Star Slots

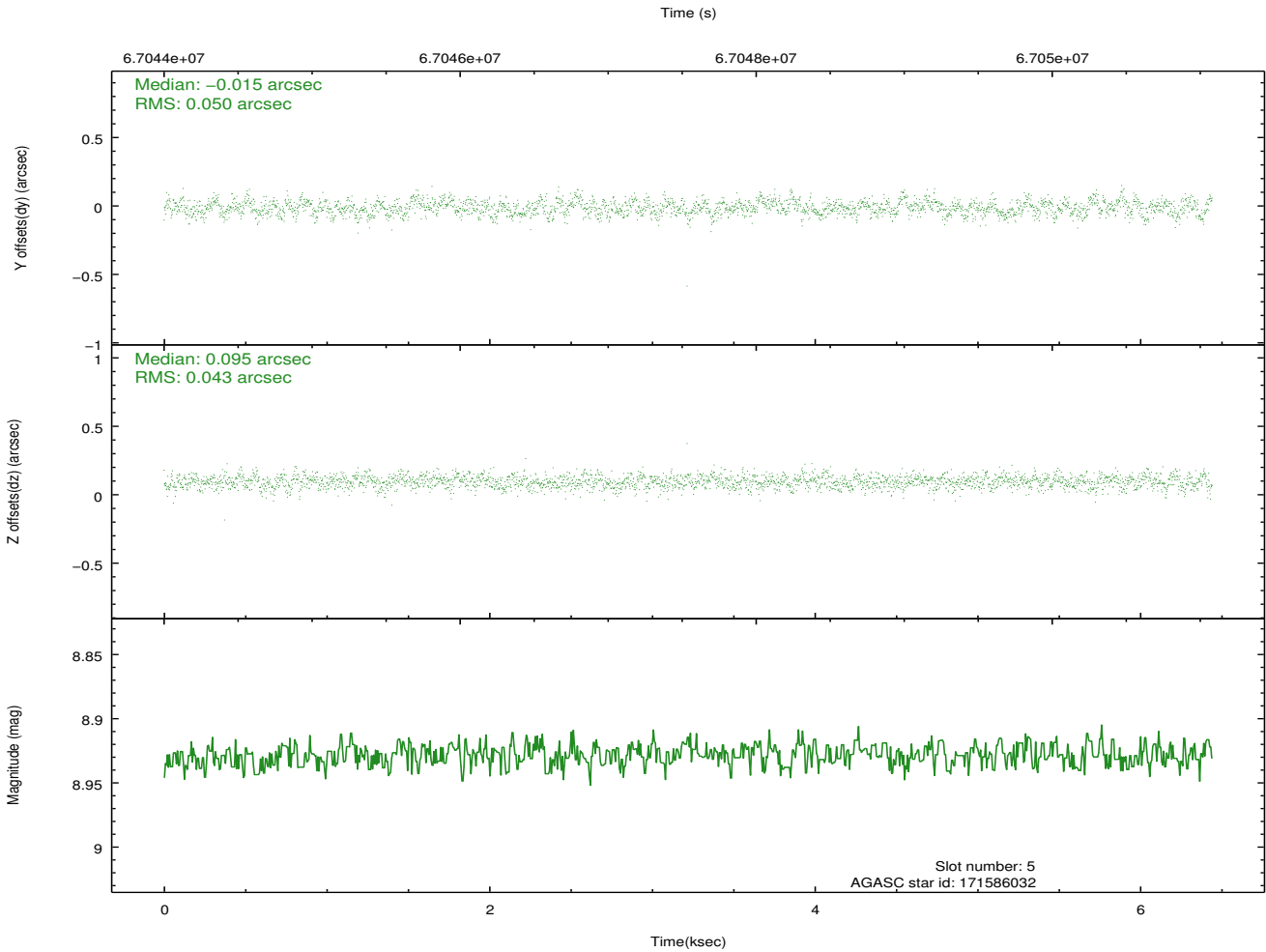
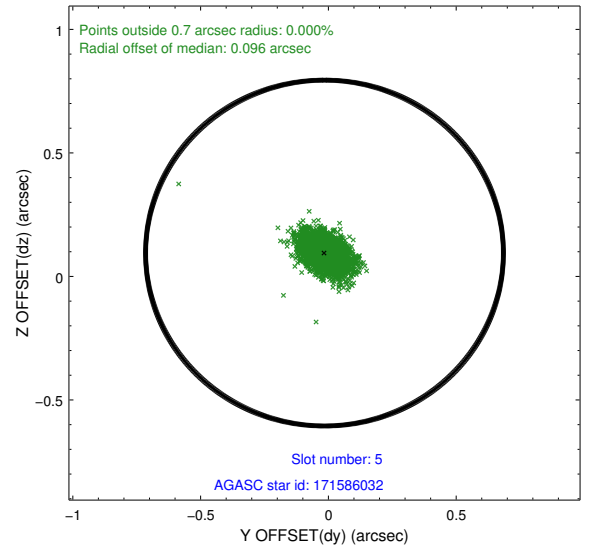
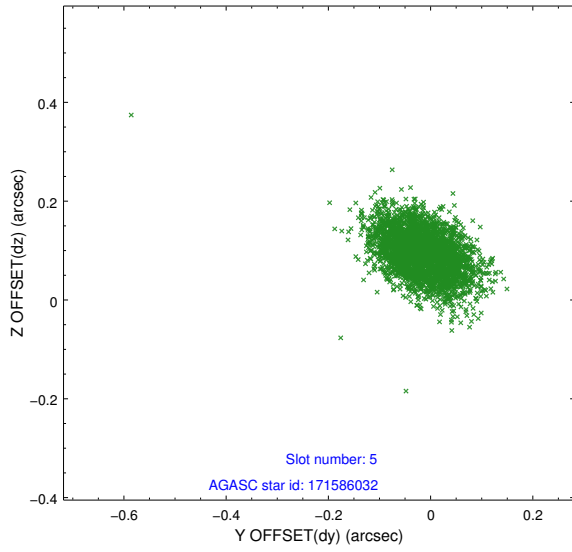
2.4.1 Slot 3



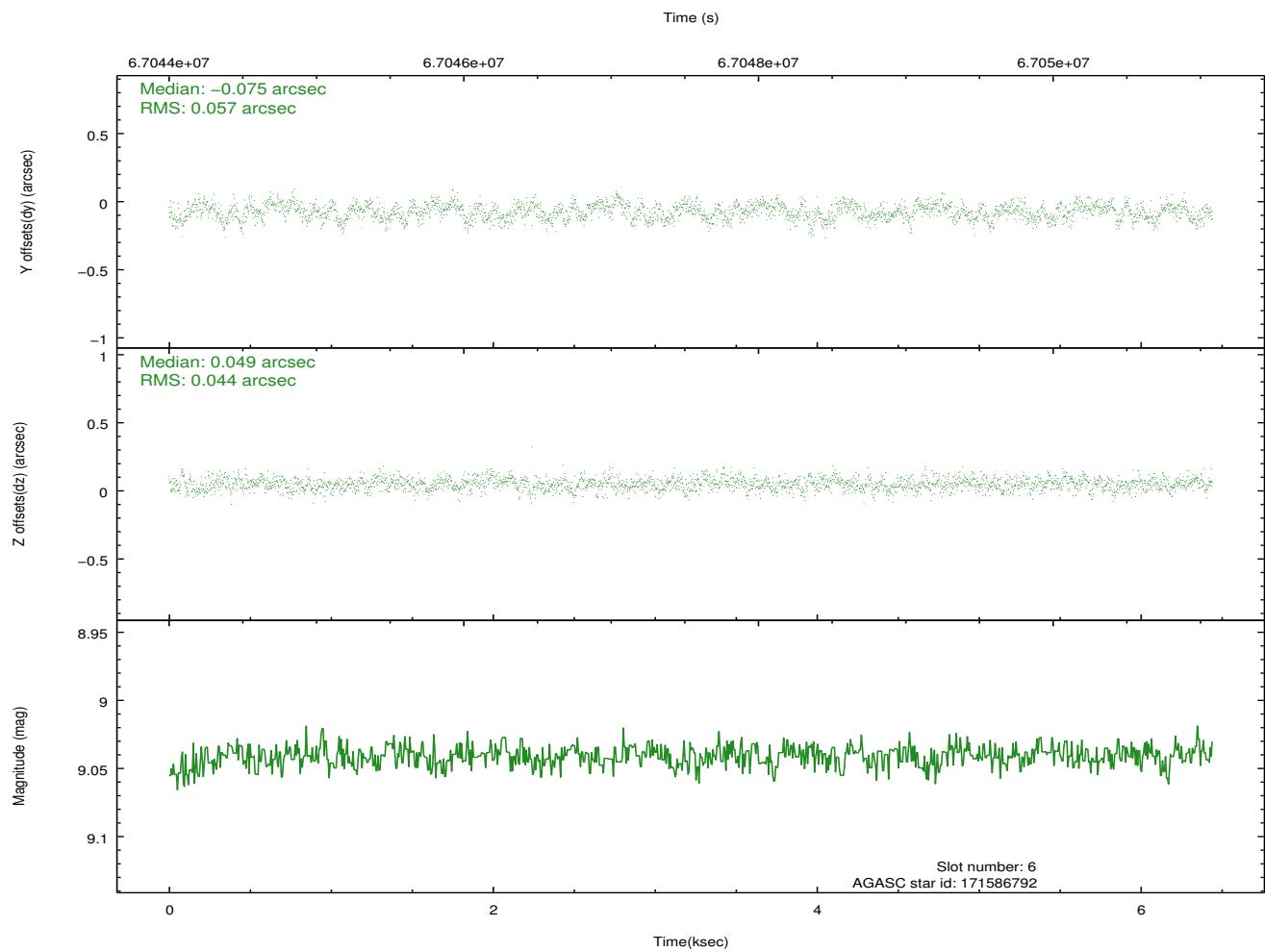
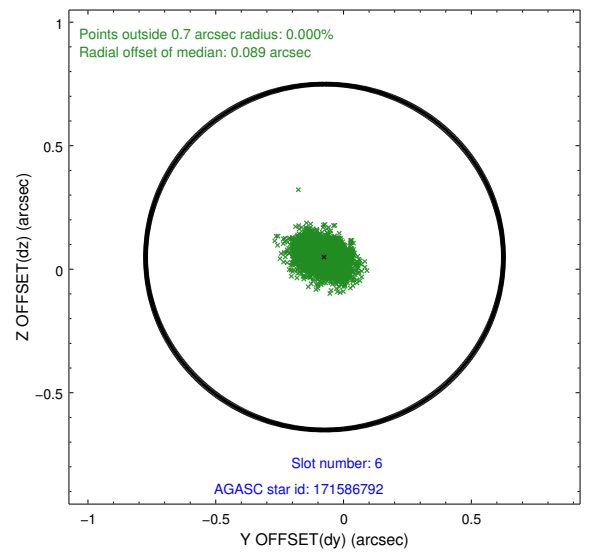
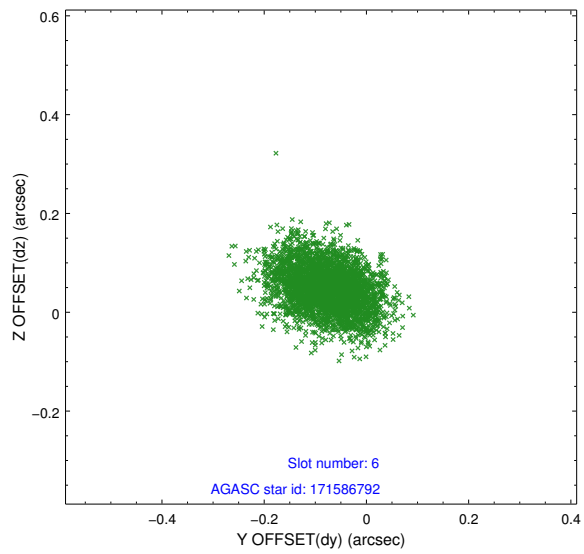
2.4.2 Slot 4



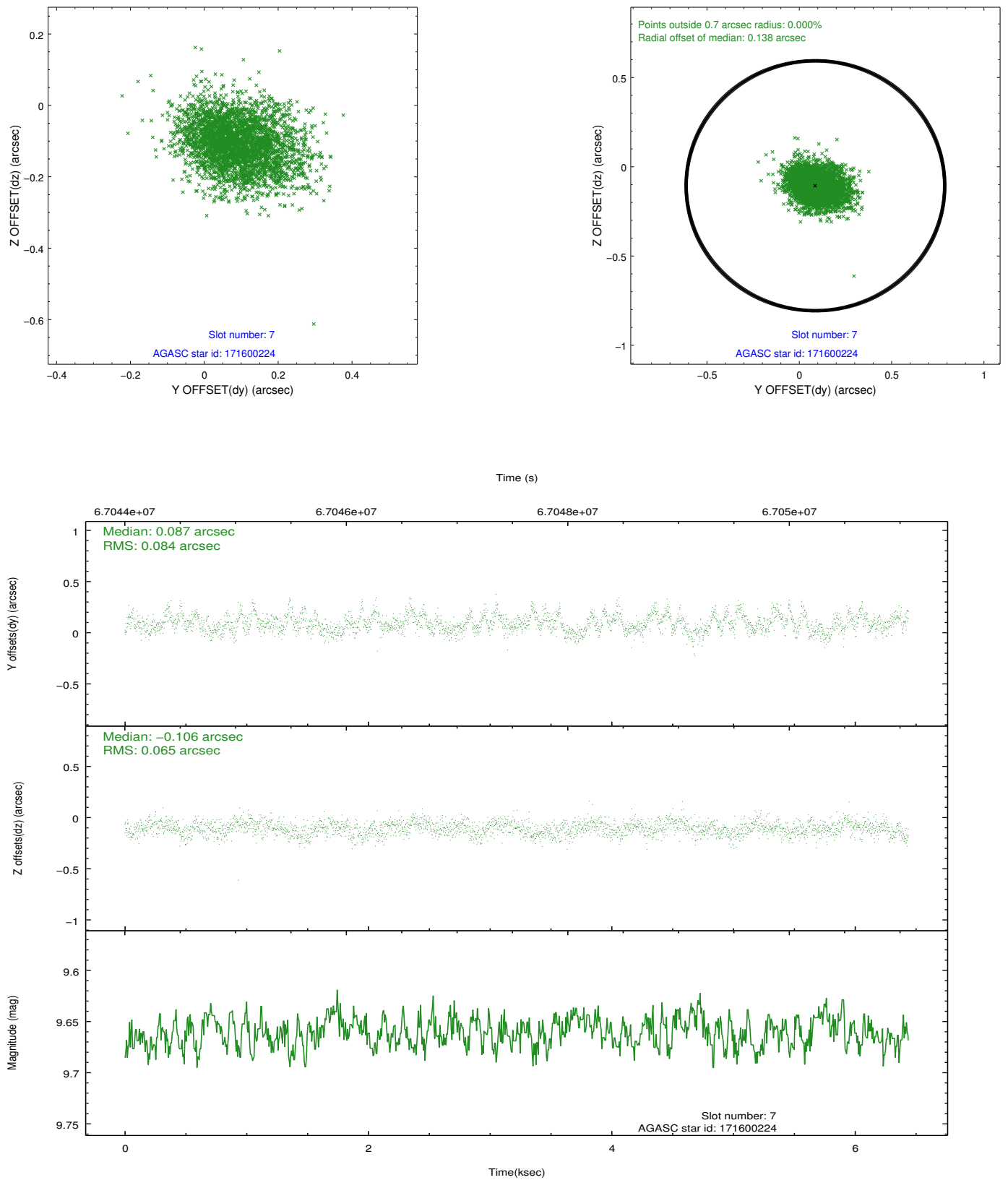
2.4.3 Slot 5



2.4.4 Slot 6

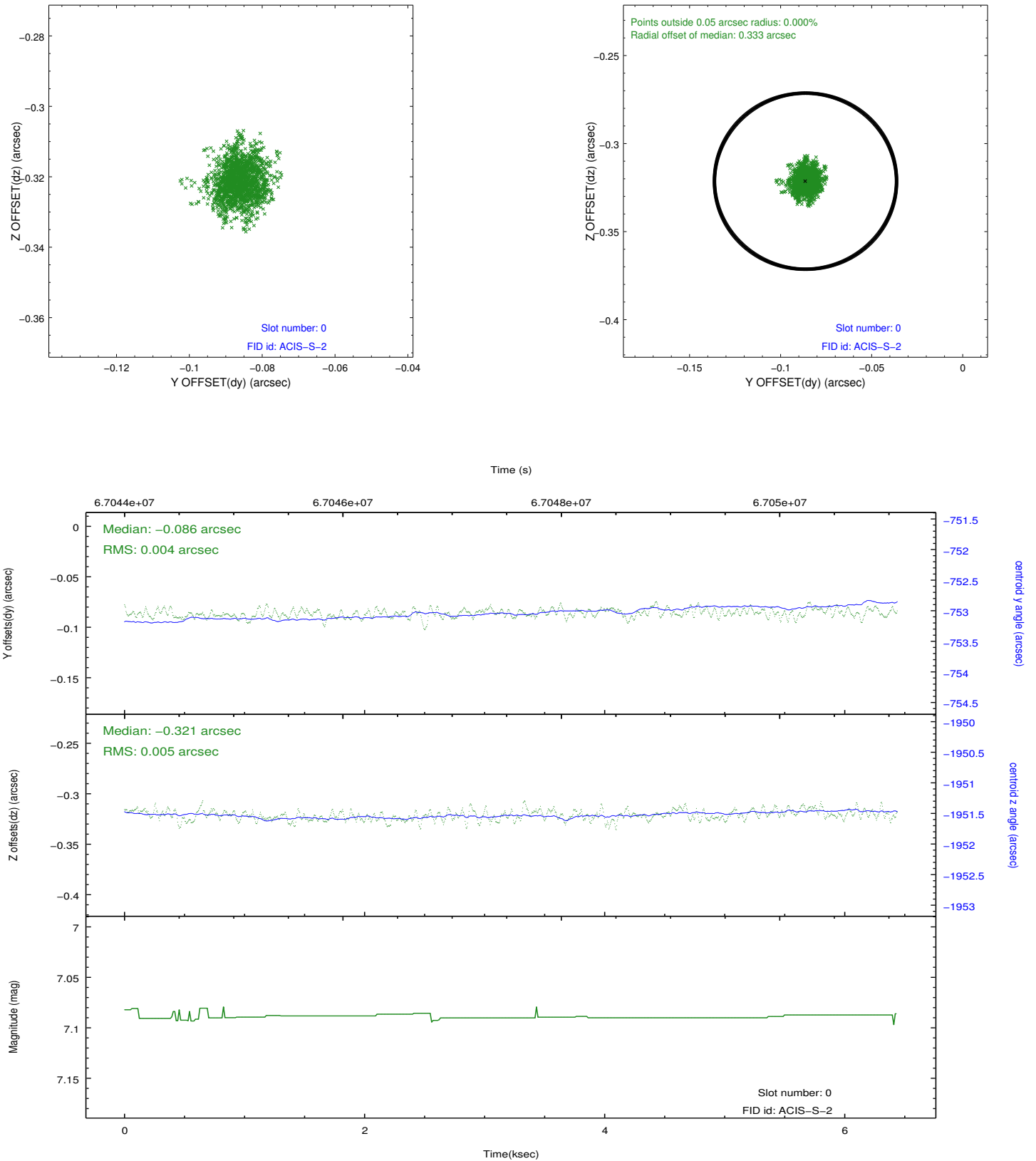


2.4.5 Slot 7

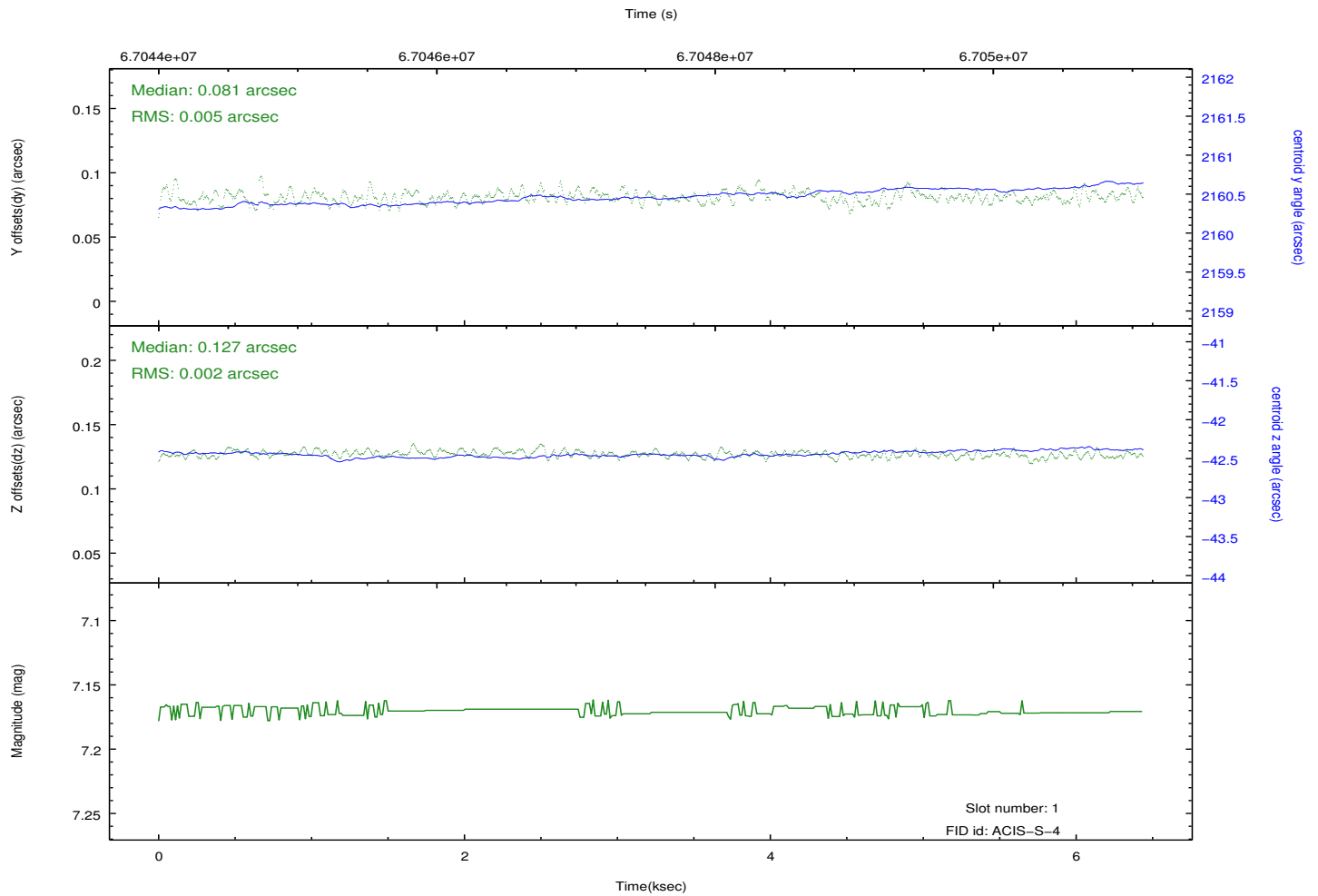
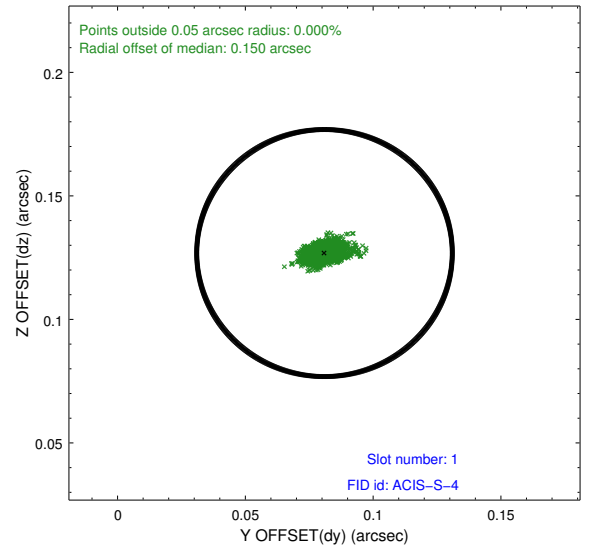
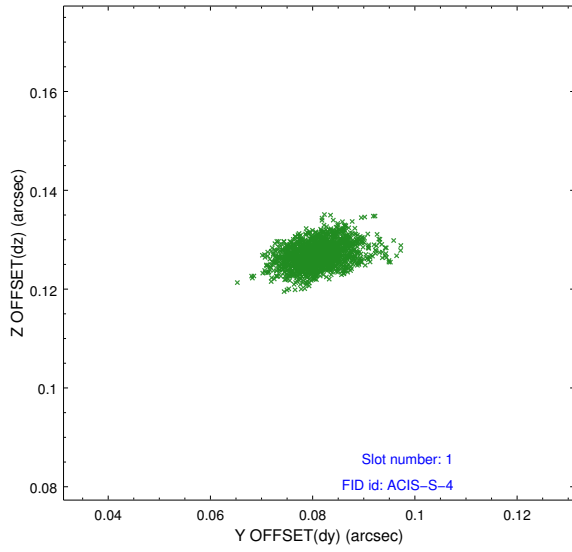


2.5 FID Slots

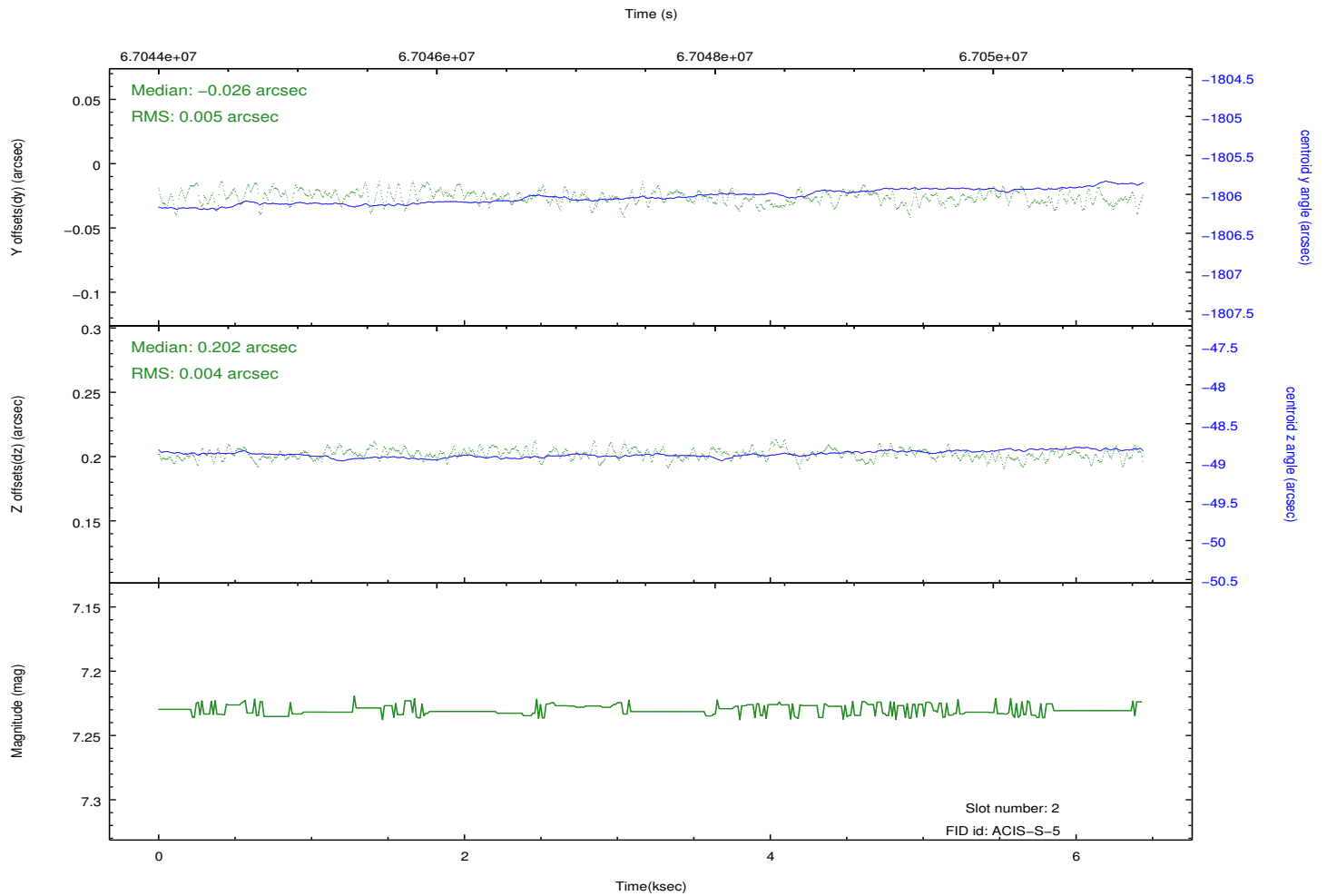
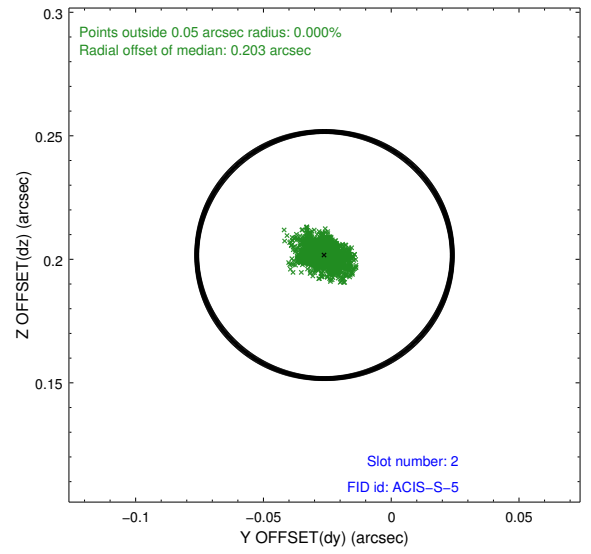
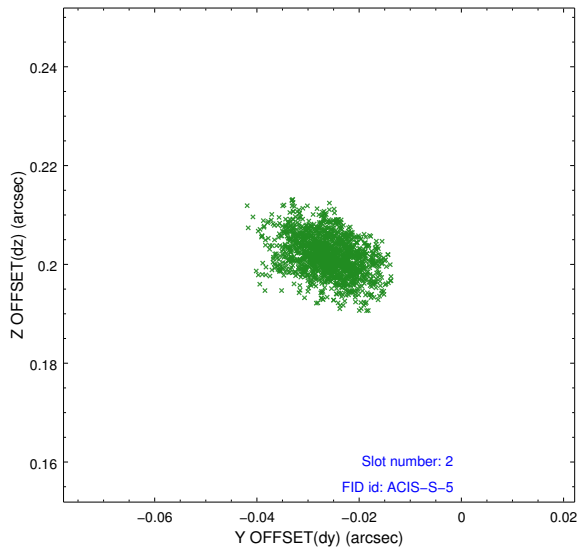
2.5.1 Slot 0



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)	2012.08.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.84

A.2 Comments

ONTIME of 1507.3348818123 seconds is less than 85% of expected scheduled time of 6000 seconds. Charge time is set to the previous value of 1.84 ksec for this observation, although the ontime is 1.507 ksec, due to telemetry saturation.

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Window constraint met. Roll constraint met. Coordinated with HST.