

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10947 - L2 Version 2
Chandra X-Ray Center

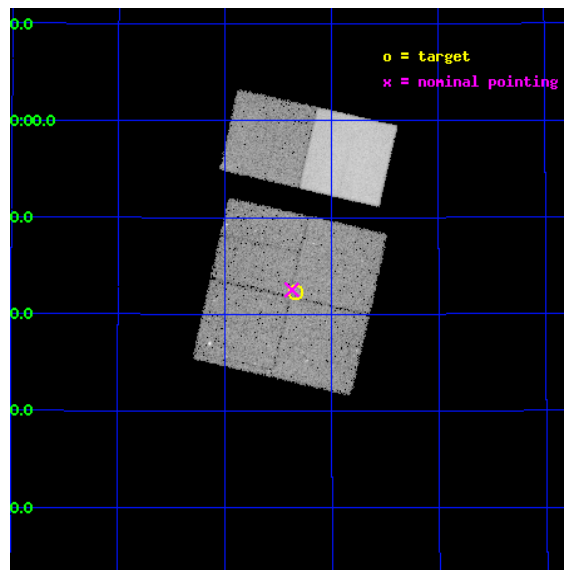
L2 Processing Date : Jun 21 2012

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1 Front

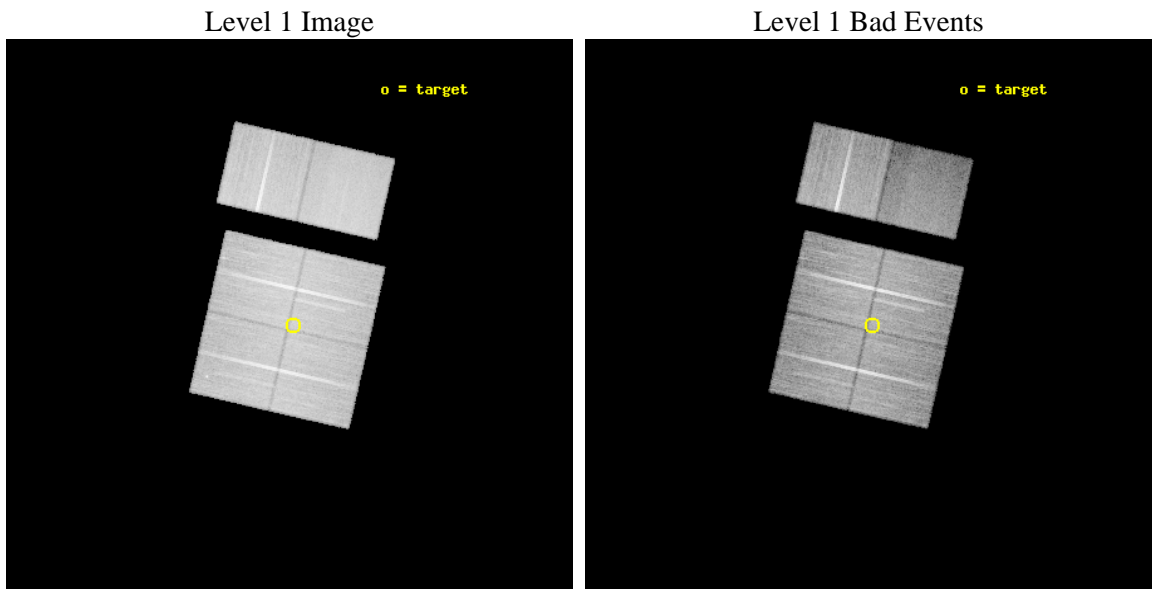
seq_num	200579	Sequence number
obs_id	10947	Observation id
title	The Chandra Cygnus OB2 Survey	Proposal title
observer	Dr. Jeremy Drake	Principal investigator
object	Cygnus OB2	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	308.333975	Observer's specified target RA [deg]
dec_targ	41.704892	Observer's specified target Dec [deg]
ra_nom	308.3433603499	Nominal RA [deg]
dec_nom	41.708957720992	Nominal Dec [deg]
roll_nom	12.902440288669	Nominal Roll [deg]
revision	2	Processing version of data
ontime	27545.395185232	Sum of GTIs [s]
livetime	27196.598805551	Livetime [s]
ontime0	27551.876966357	Sum of GTIs [s]
ontime1	27548.636135578	Sum of GTIs [s]
ontime2	27555.117916882	Sum of GTIs [s]
ontime3	27545.395185232	Sum of GTIs [s]
ontime6	27561.599897385	Sum of GTIs [s]
ontime7	27561.599897385	Sum of GTIs [s]
l2events	199788	Number of level 2 events



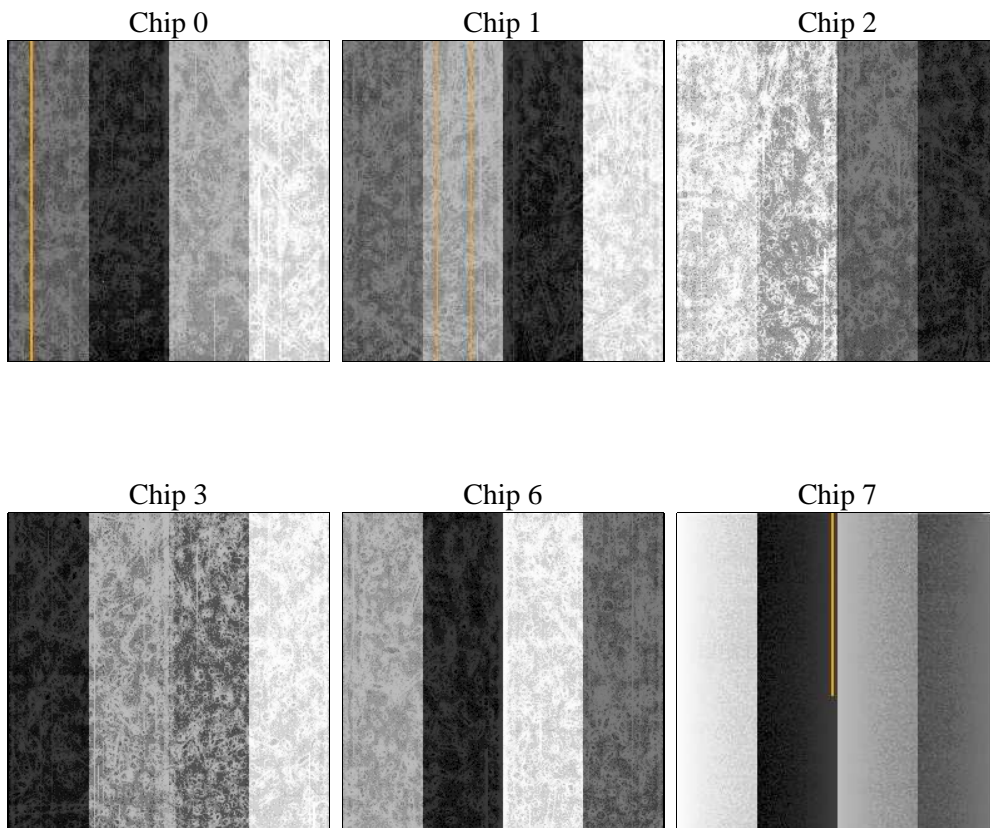
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	27387.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	27545.395185232	Sum of GTIs [s]
caldbver	4.4.10	 	ontime0	27551.876966357	Sum of GTIs [s]
date	2012-06-21T00:48:08	Date and time of file creation	ontime1	27548.636135578	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	27555.117916882	Sum of GTIs [s]
			ontime3	27545.395185232	Sum of GTIs [s]
			ontime6	27561.599897385	Sum of GTIs [s]
			ontime7	27561.599897385	Sum of GTIs [s]
			l1events	1265007	Number of level 1 events

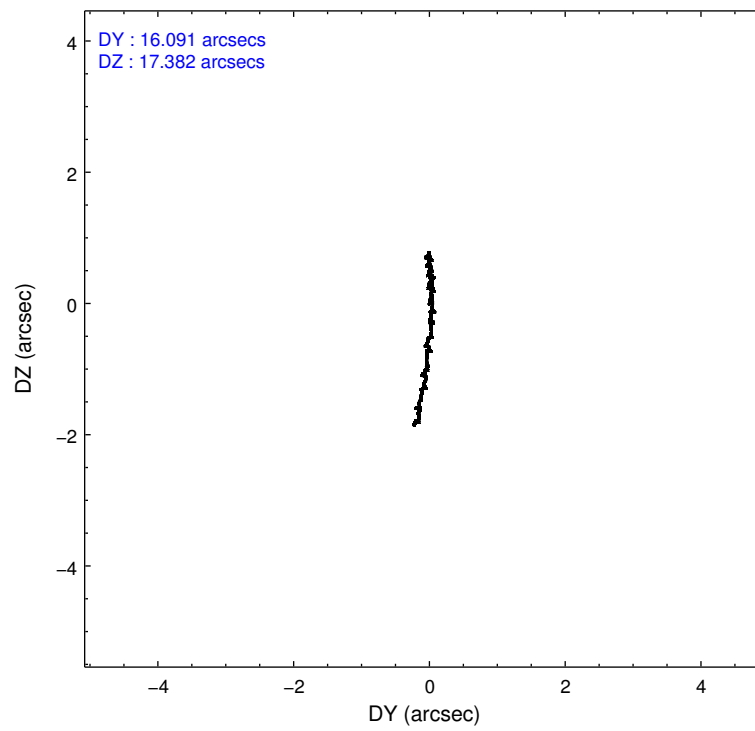
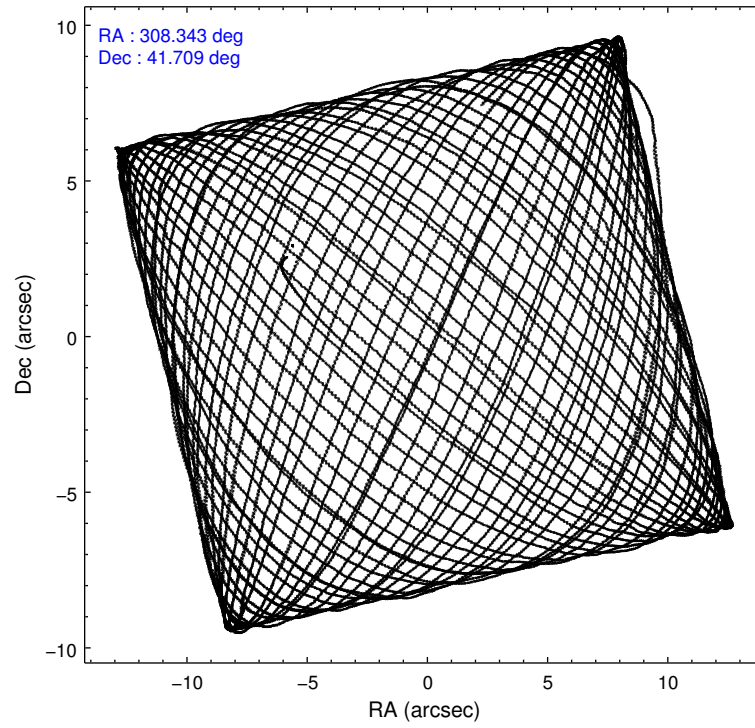
2.1.4 Events

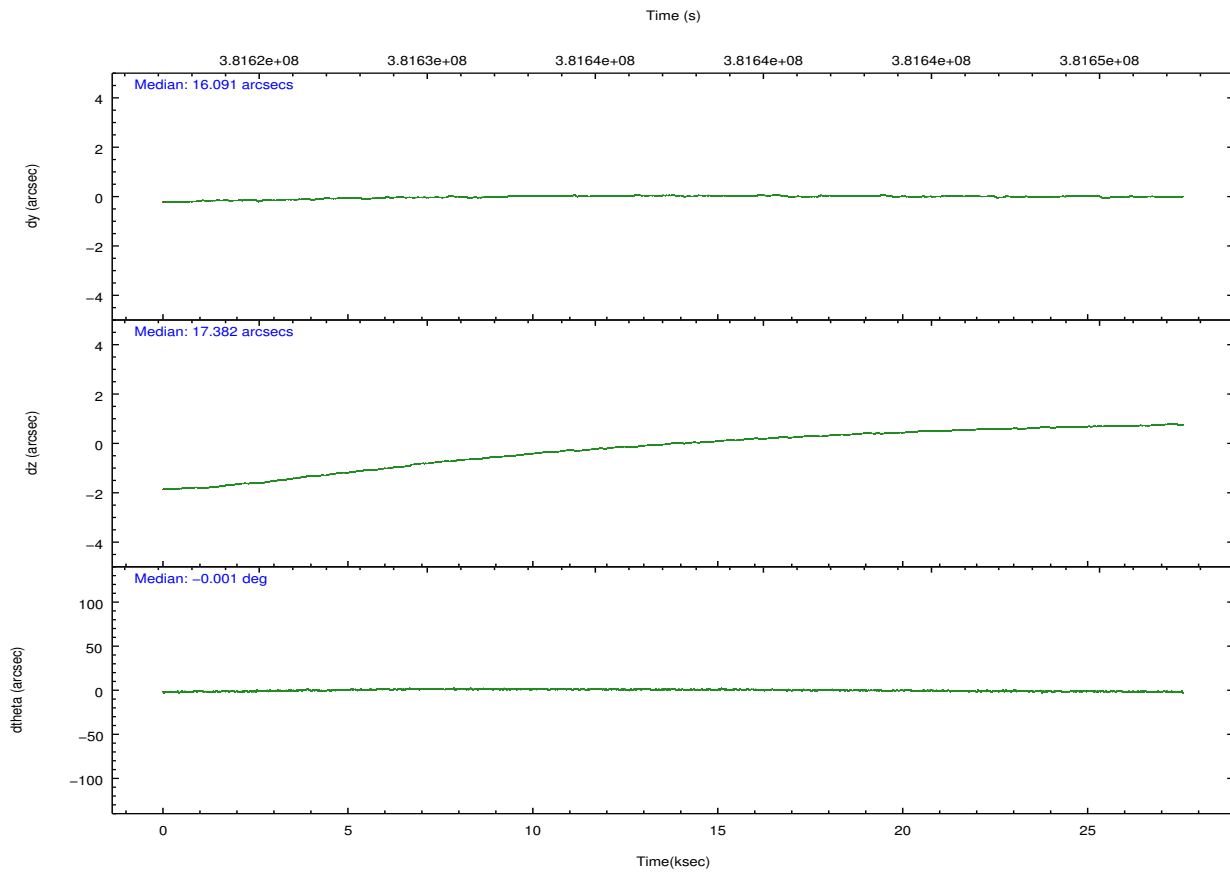
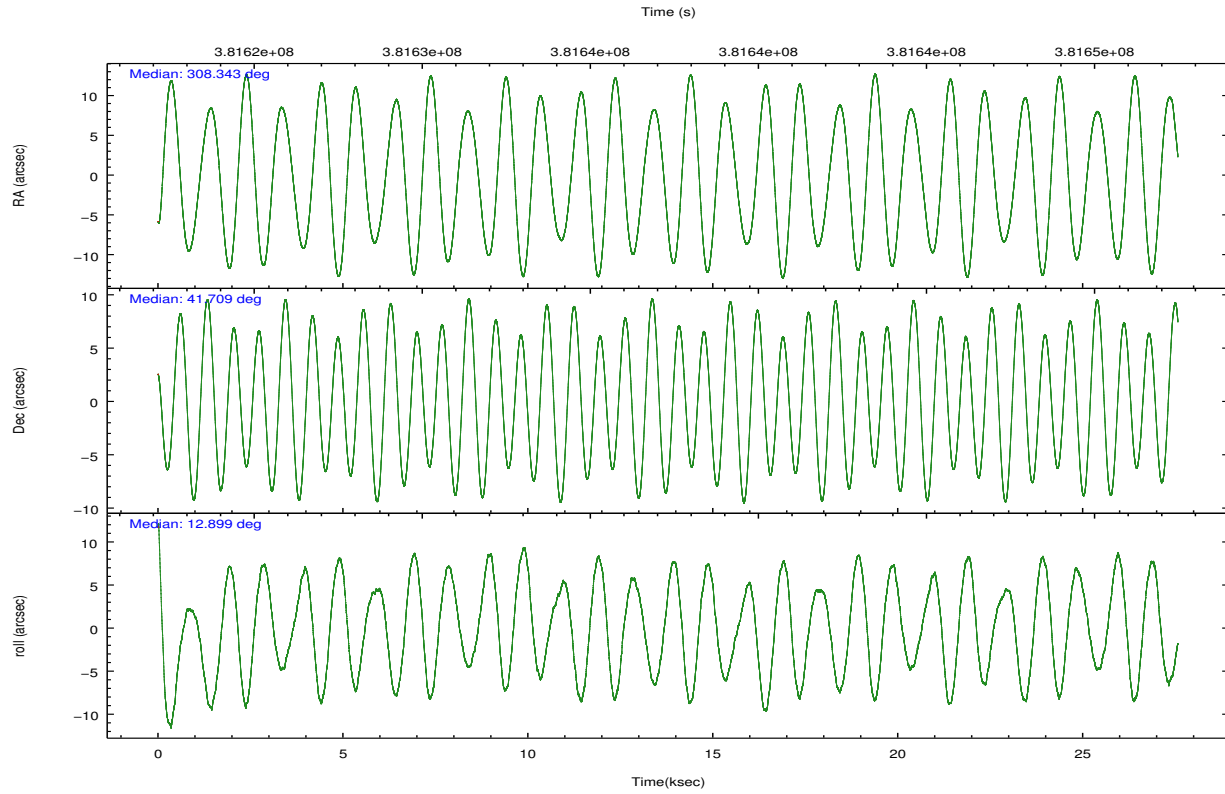
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	196888	200383	221968	210375	219040	216353	grade 0 events	9483	8928	9102	8835	8500	10795
rejected events	172774	176131	199039	188107	195963	110021		4%	4%	4%	4%	3%	4%
rejected %	87%	87%	89%	89%	89%	50%	grade 1 events	114	108	143	146	106	364
								0%	0%	0%	0%	0%	0%
							grade 2 events	5782	5376	5291	4872	5283	22947
								2%	2%	2%	2%	2%	10%
							grade 3 events	2488	2590	2323	2349	2387	10076
								1%	1%	1%	1%	1%	4%
							grade 4 events	2344	2648	2344	2266	2373	9736
								1%	1%	1%	1%	1%	4%
							grade 5 events	6866	7225	6392	7876	7961	22964
								3%	3%	2%	3%	3%	10%
							grade 6 events	4160	4861	4034	4078	4689	53387
								2%	2%	1%	1%	2%	24%
							grade 7 events	165651	168647	192339	179953	187741	86084
								84%	84%	86%	85%	85%	39%

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	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	308.316457	308.343360349902	CCD I2 on	Y	Y
[deg] Pointing Dec	41.690156	41.70895772099151	CCD I3 on	Y	Y
[deg] Pointing Roll	12.711651	12.90244028866895	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	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	381623709.184000	381622558.92255	CCD S5 on	N	N
Observation start date	2010-02-03T22:34:03	2010-02-03T22:15:58	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	381651096.184000	381651775.01153	On-chip summing requested	N	N
Observation end date	2010-02-04T06:10:30	2010-02-04T06:22:55	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



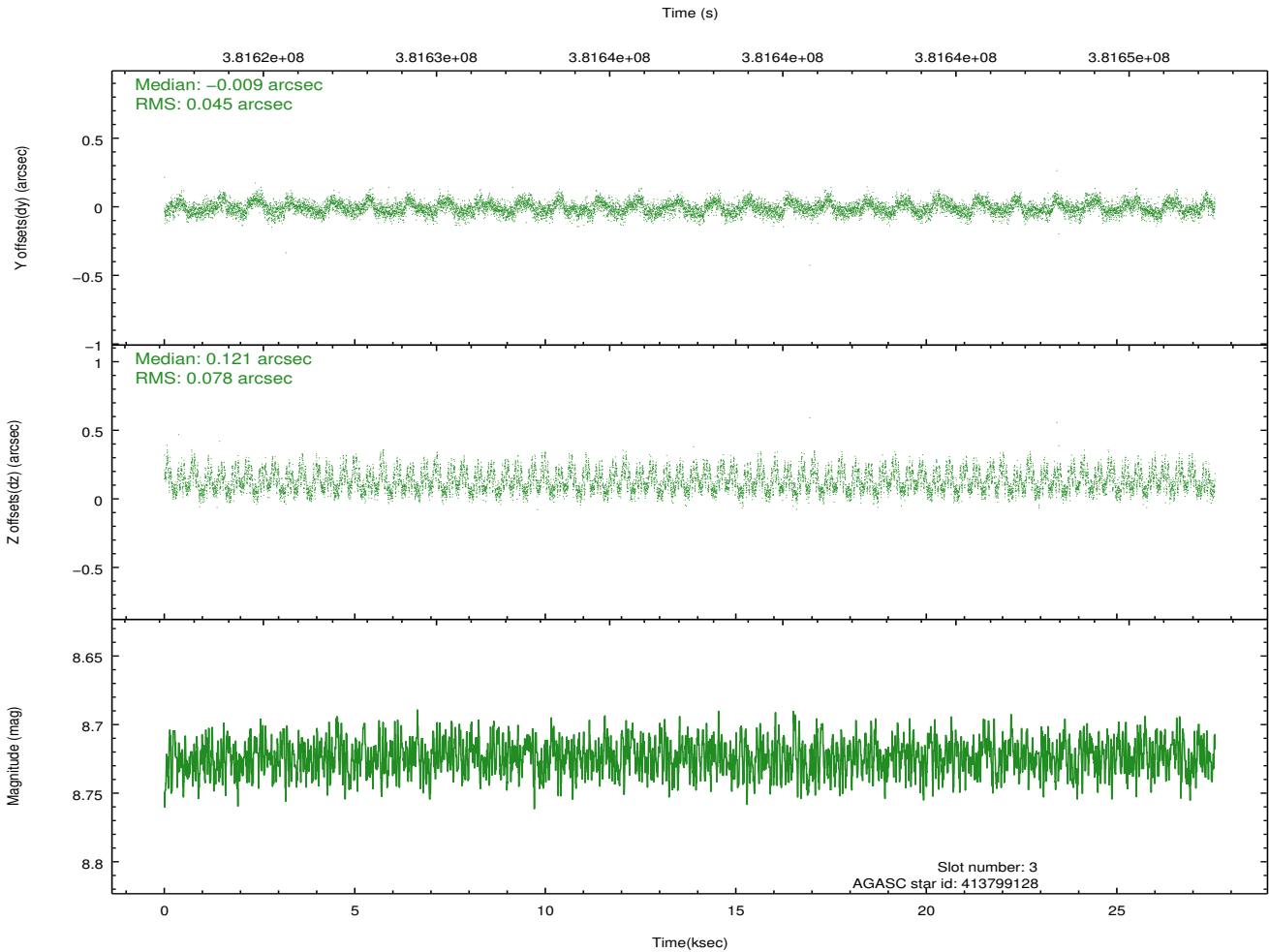
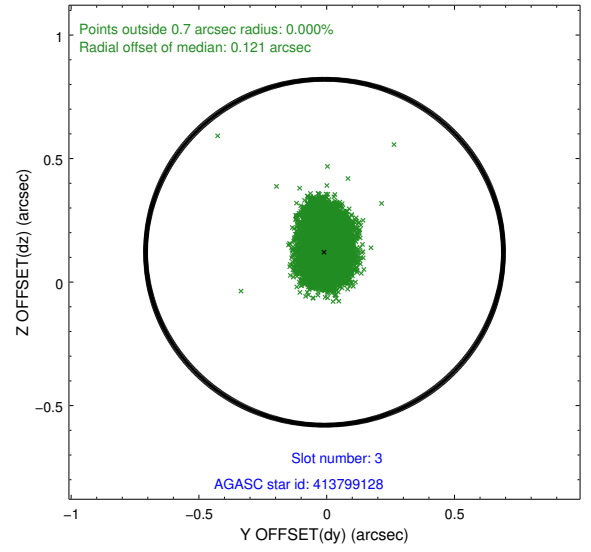
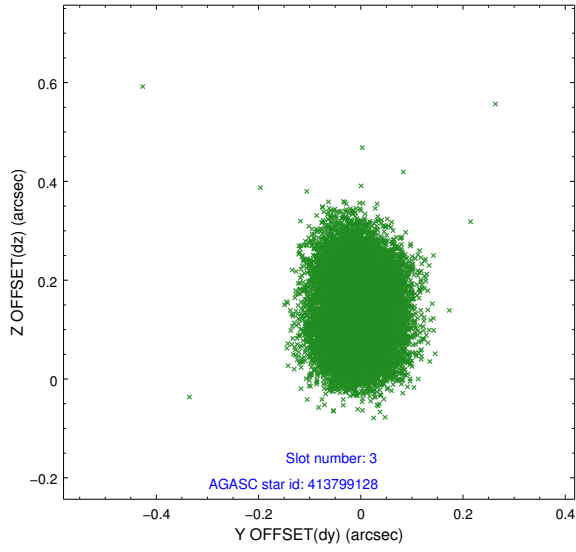


Slot Statistics

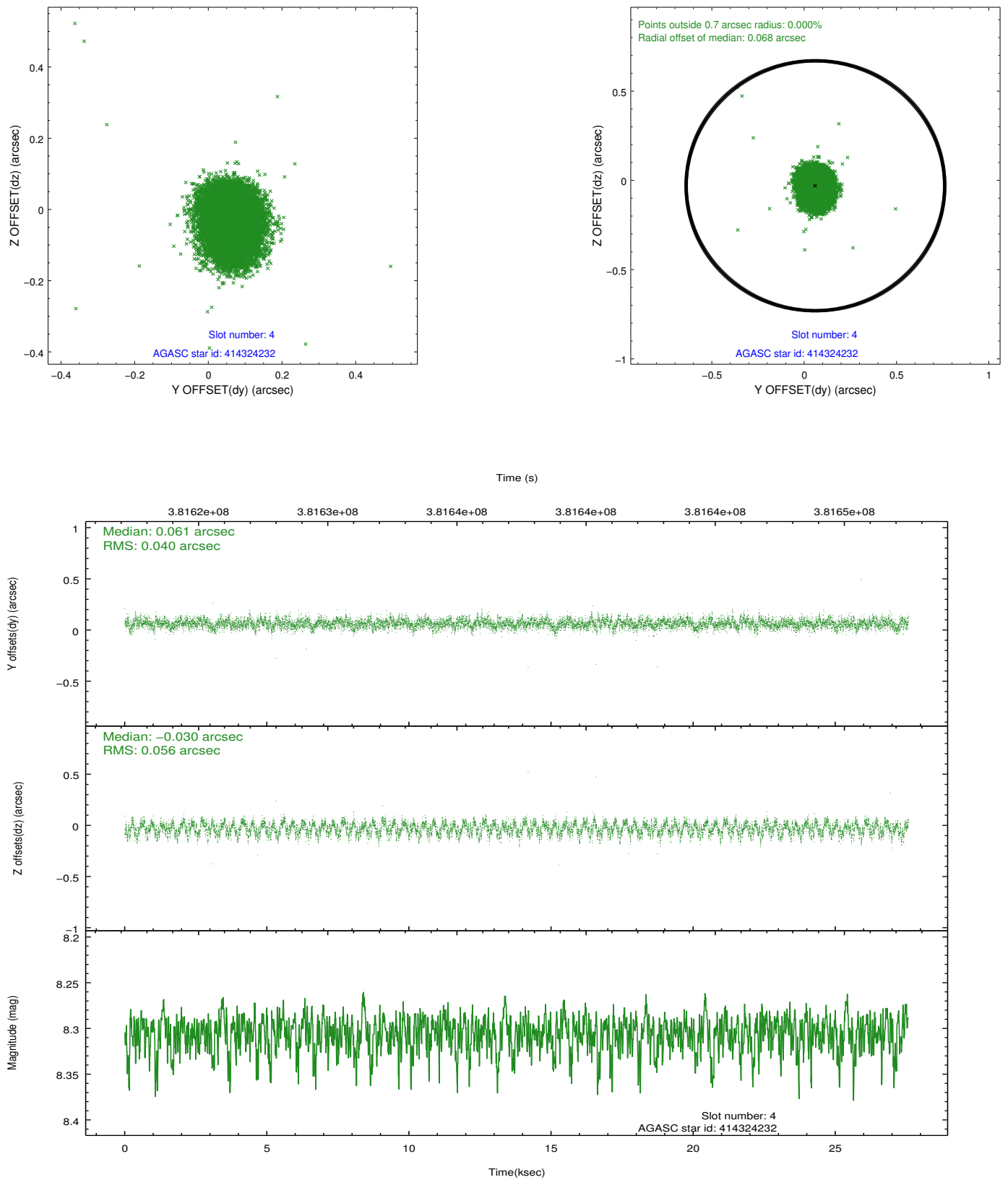
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.02	6724	0.055	-0.021	0.022	0.031	0.000000	0.000000	923.41	-840.84
1	FID	ACIS-I-5	7.02	6723	-0.217	0.058	0.009	0.019	0.000000	0.000000	-1824.90	1056.70
2	FID	ACIS-I-6	7.03	6724	0.070	0.030	0.023	0.037	0.000000	0.000000	388.89	1701.27
3	GUIDE	413799128	8.72	13442	-0.009	0.121	0.096	0.154	307.948219	41.110579	-1432.52	-1813.28
4	GUIDE	414324232	8.31	13443	0.061	-0.030	0.072	0.115	308.637806	41.996627	1081.75	888.64
5	GUIDE	414326136	7.37	13447	-0.014	0.066	0.075	0.124	308.256176	41.473642	-329.64	-723.96
6	GUIDE	414322472	8.56	13440	-0.061	-0.165	0.089	0.143	307.661586	42.199898	-1298.57	2180.76
7	GUIDE	414323216	9.22	13433	0.014	-0.004	0.082	0.134	309.119698	42.107837	2425.88	1004.87

2.4 Star Slots

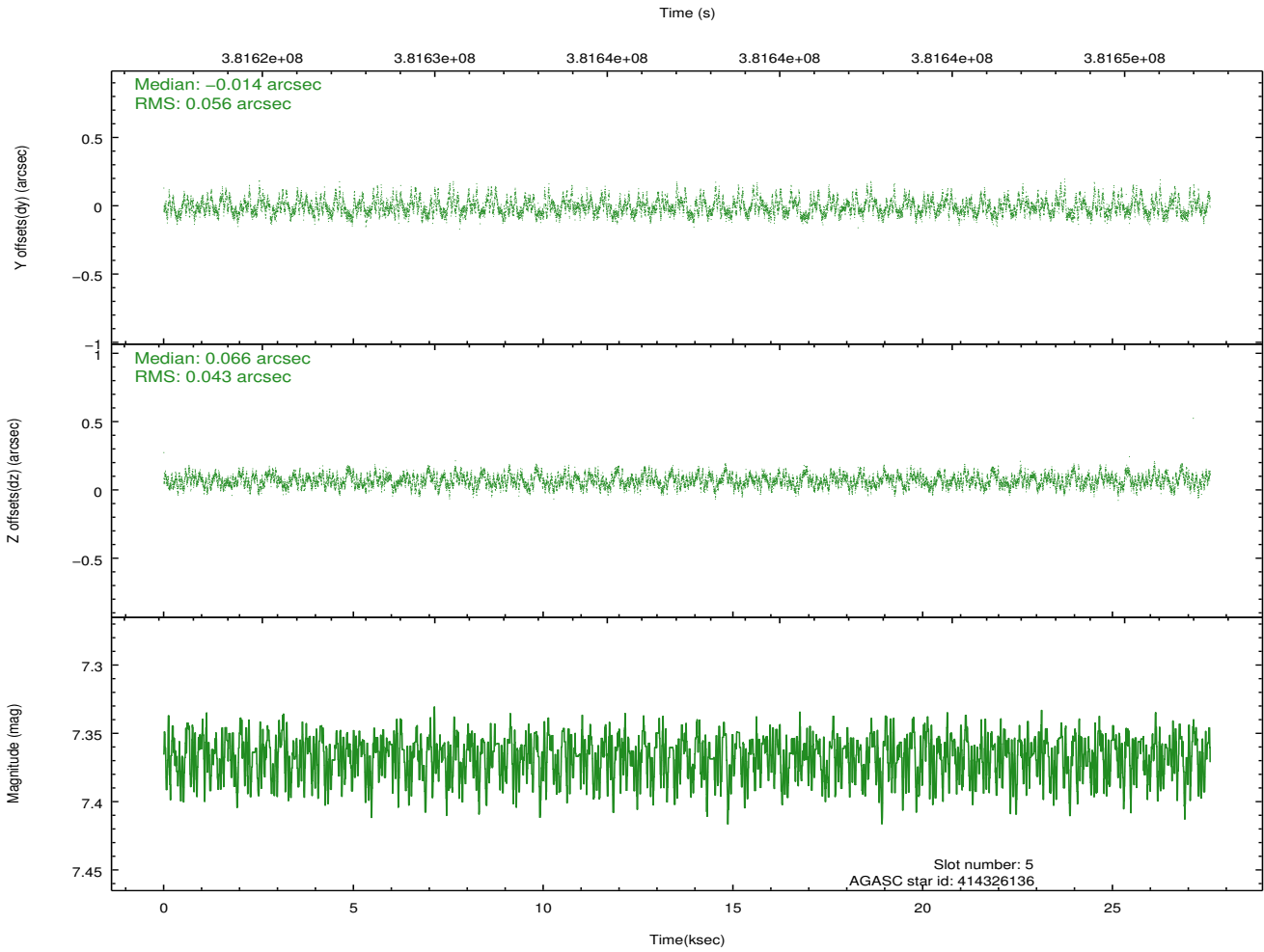
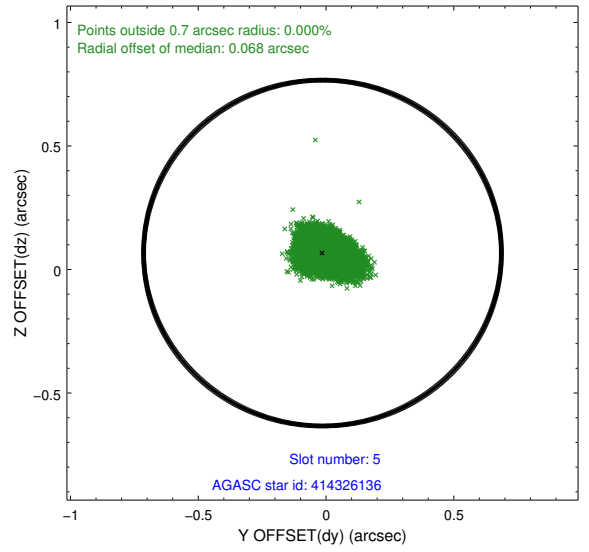
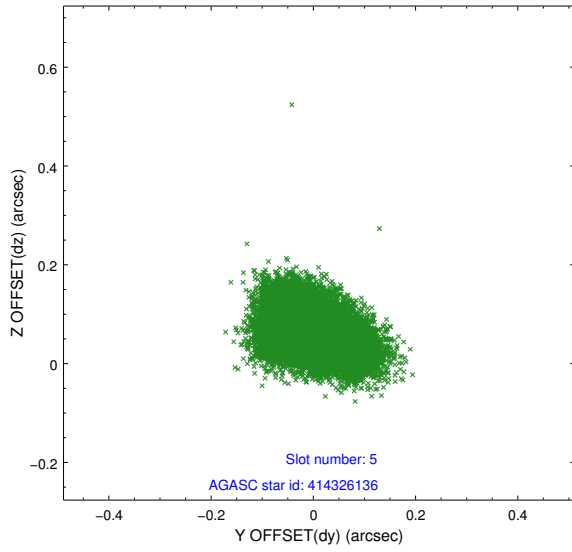
2.4.1 Slot 3



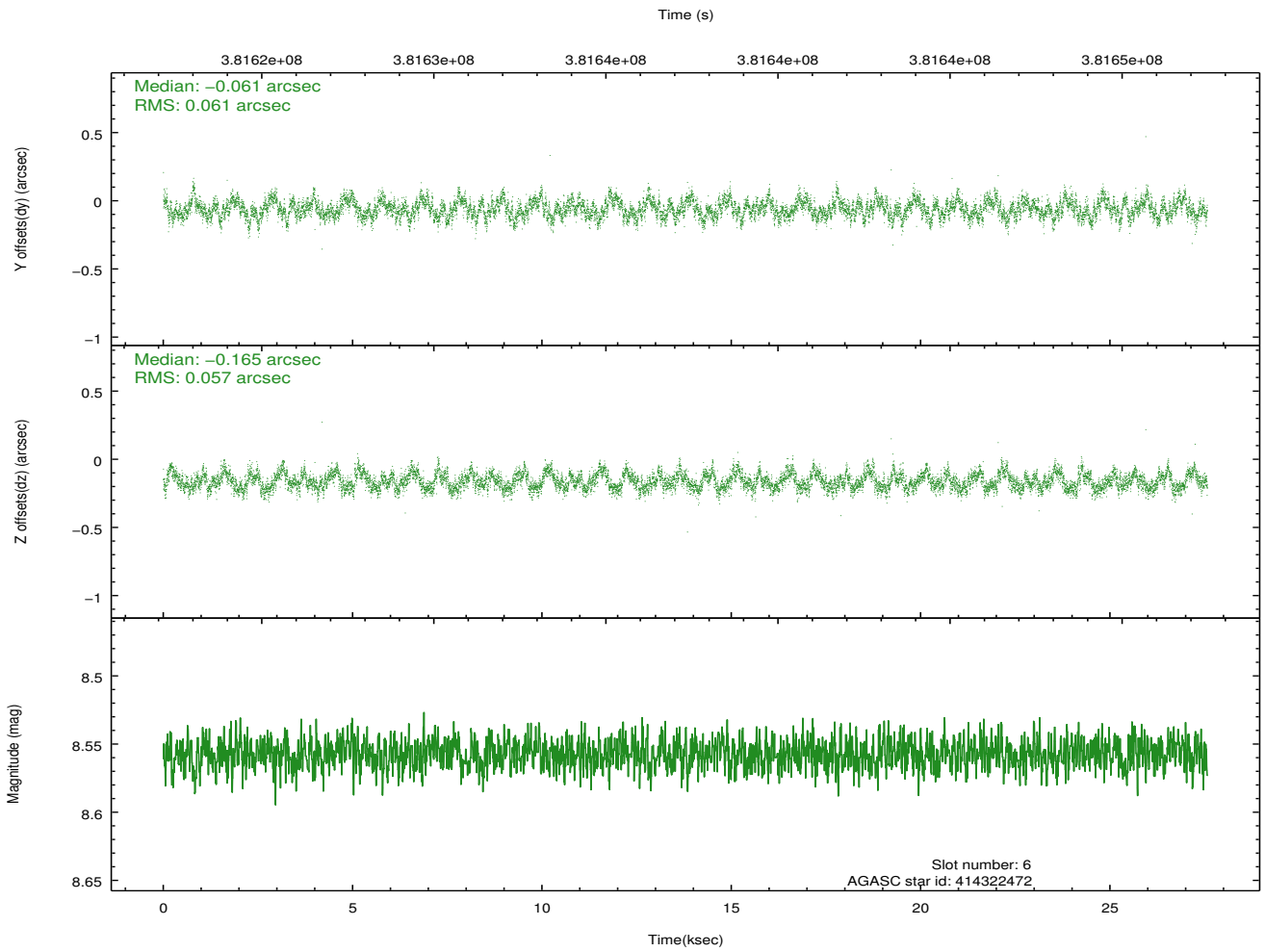
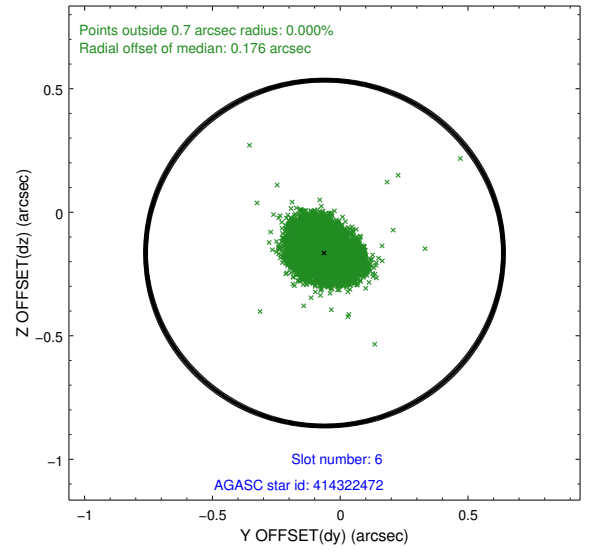
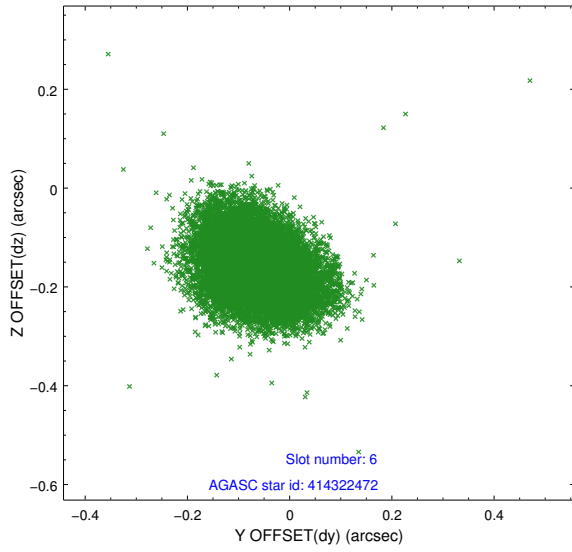
2.4.2 Slot 4



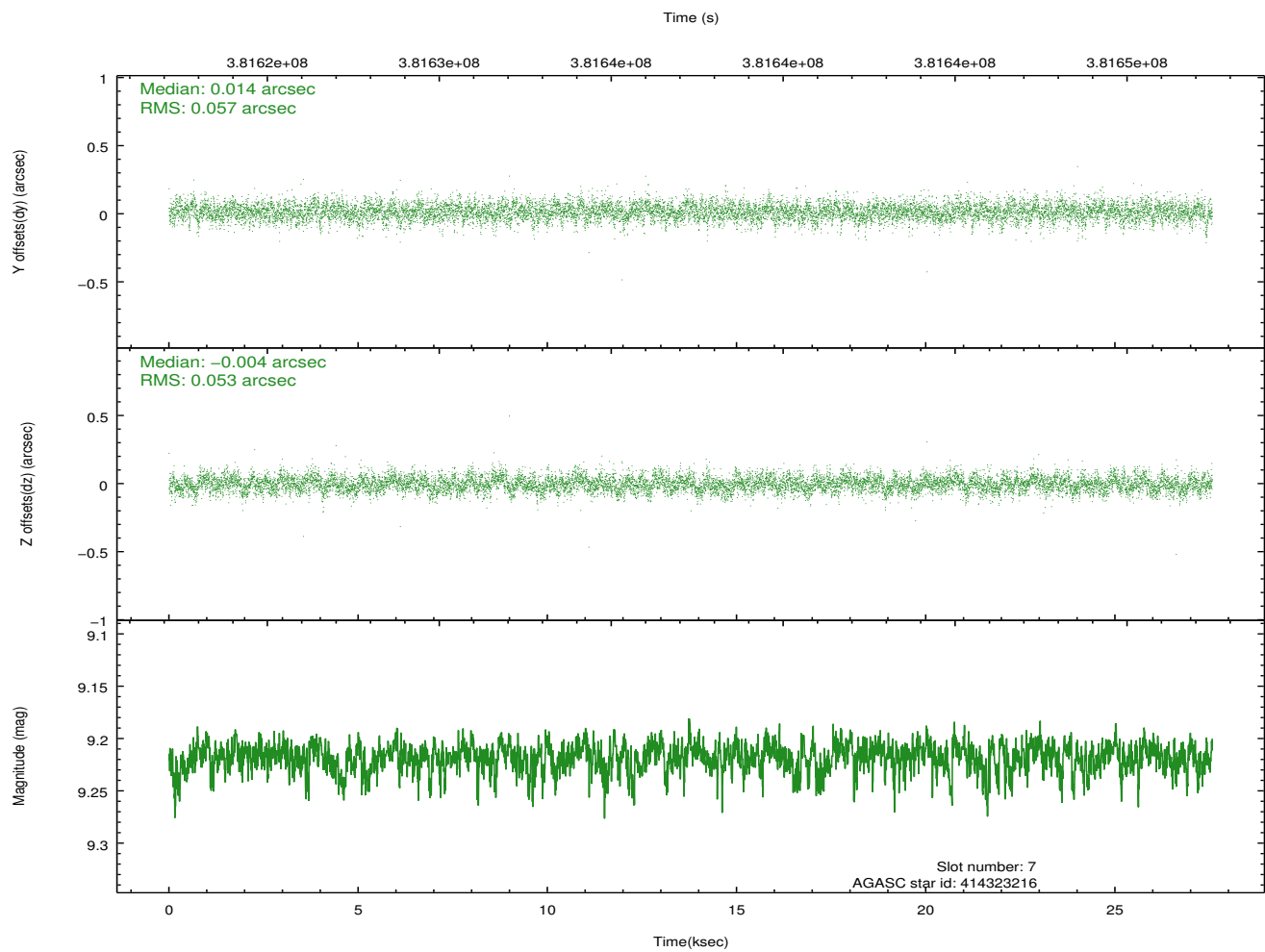
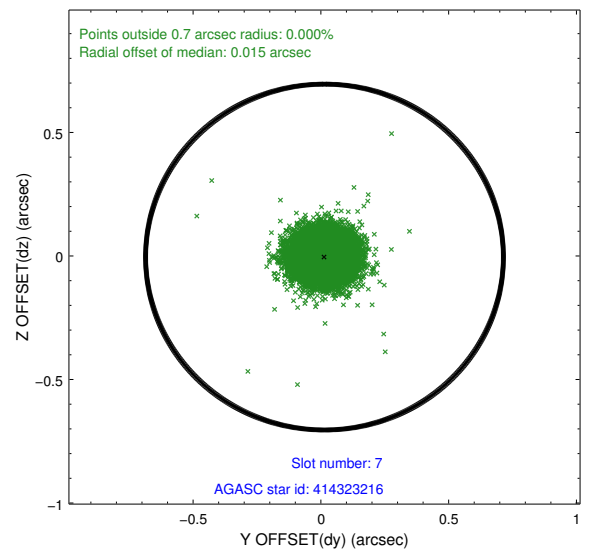
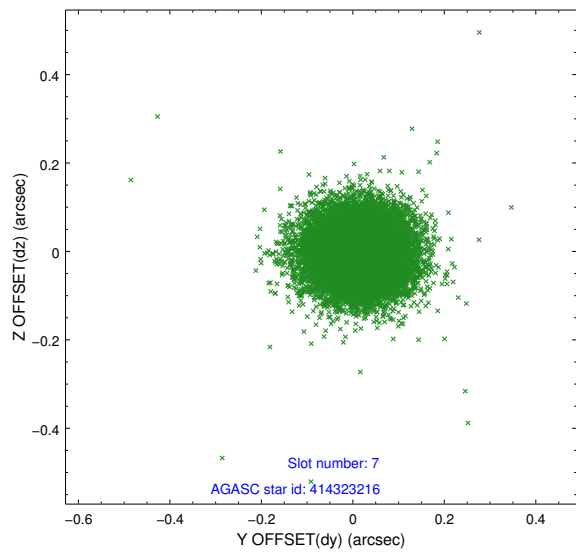
2.4.3 Slot 5



2.4.4 Slot 6

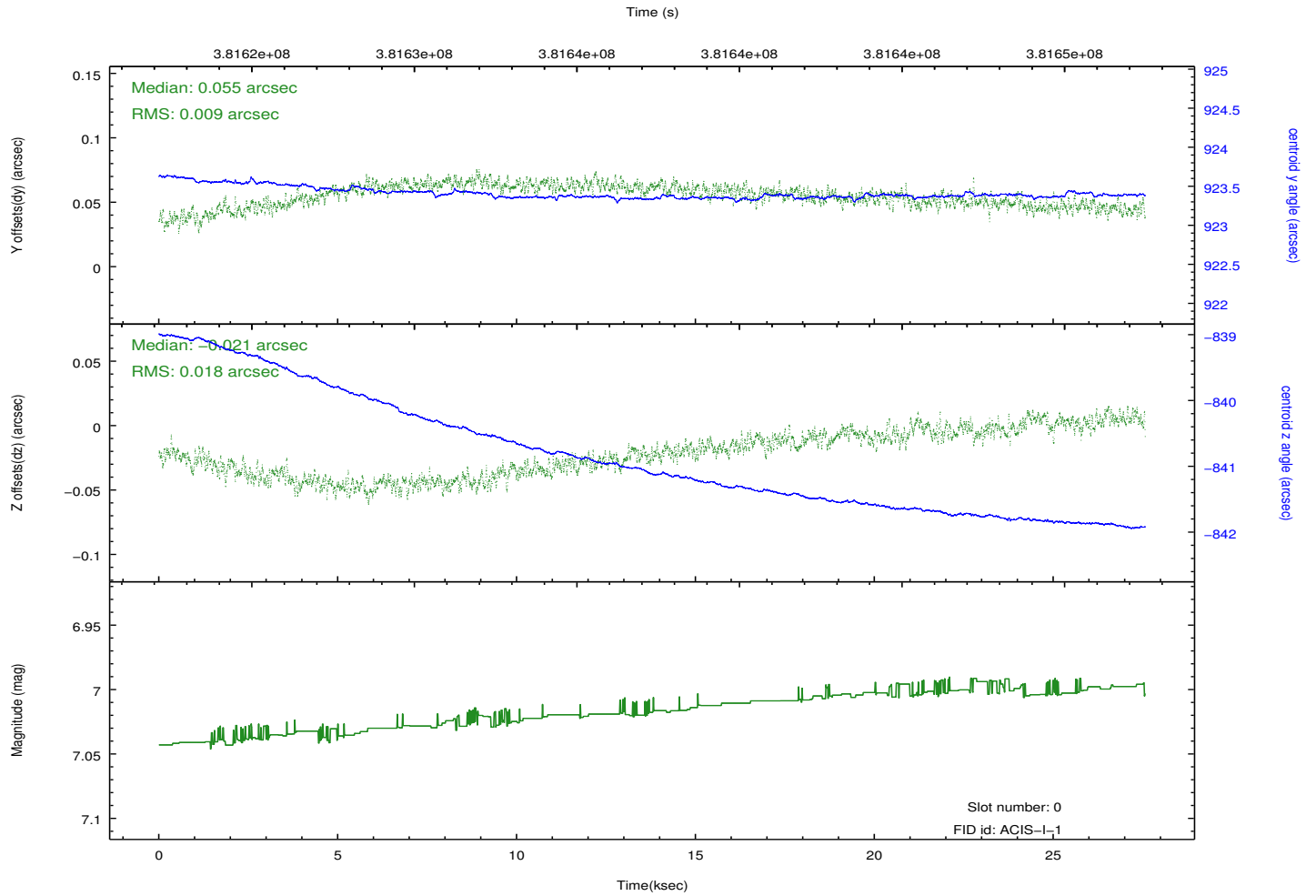
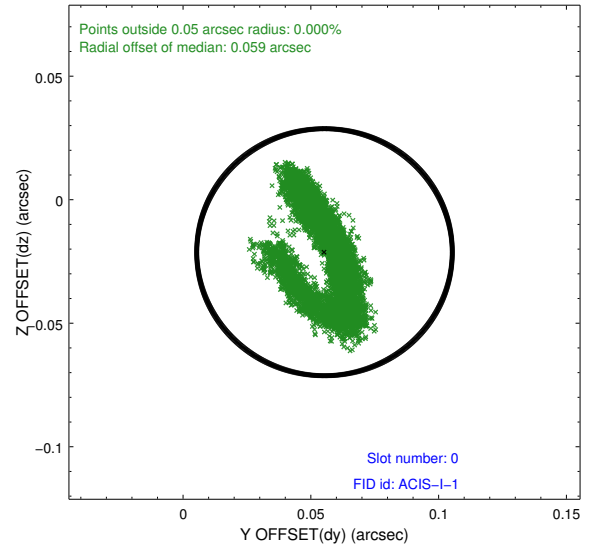
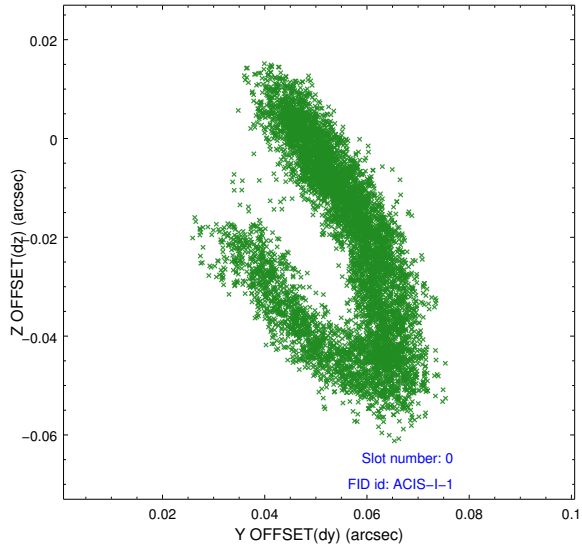


2.4.5 Slot 7

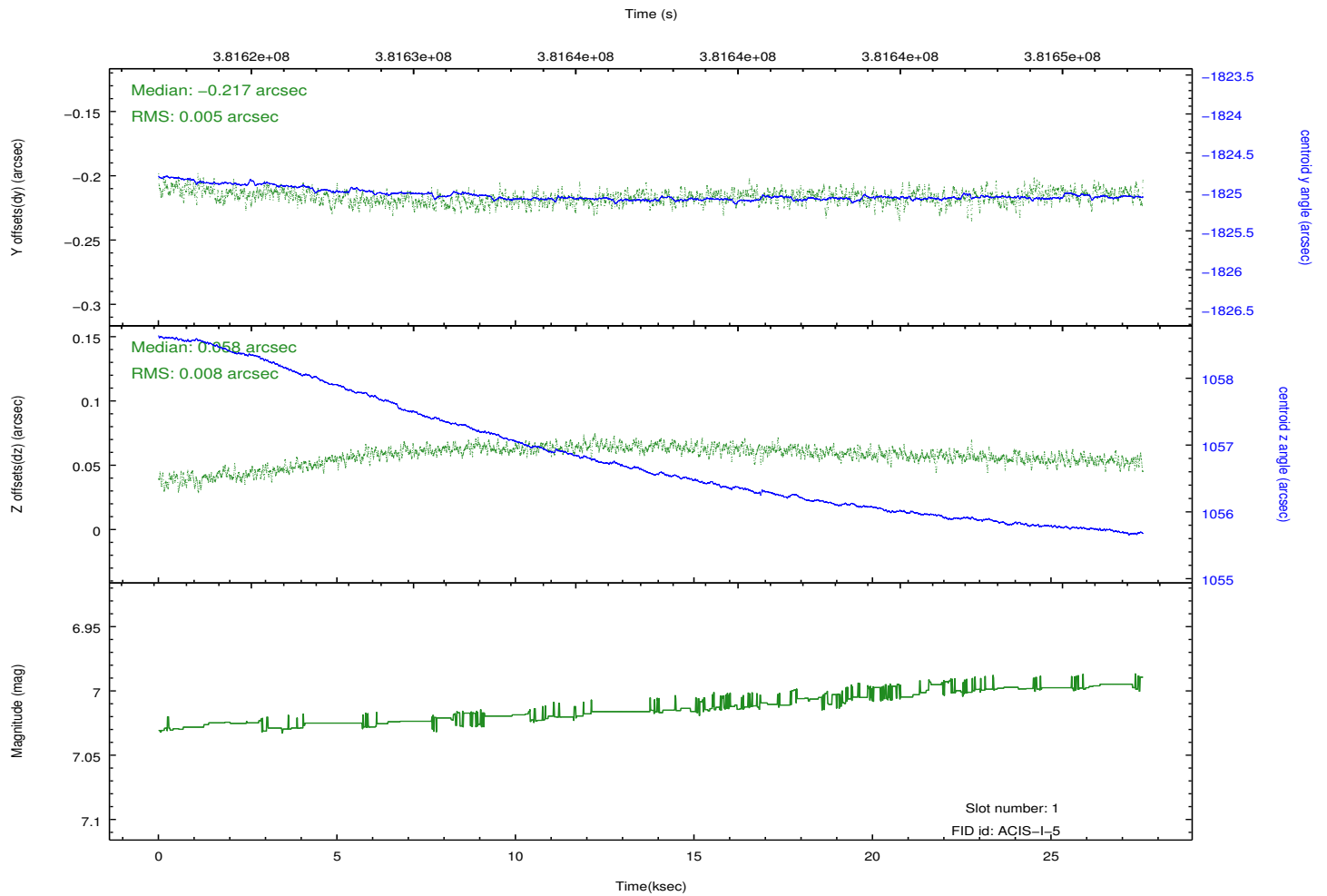
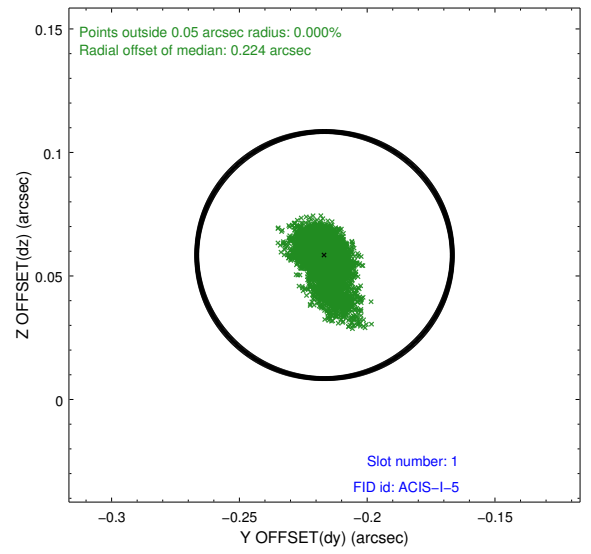
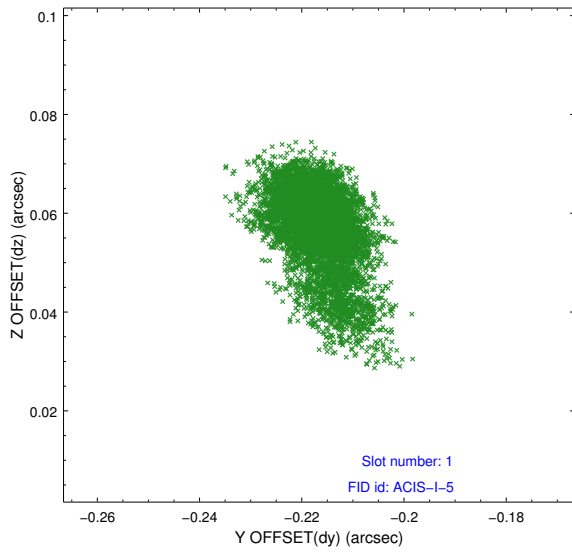


2.5 FID Slots

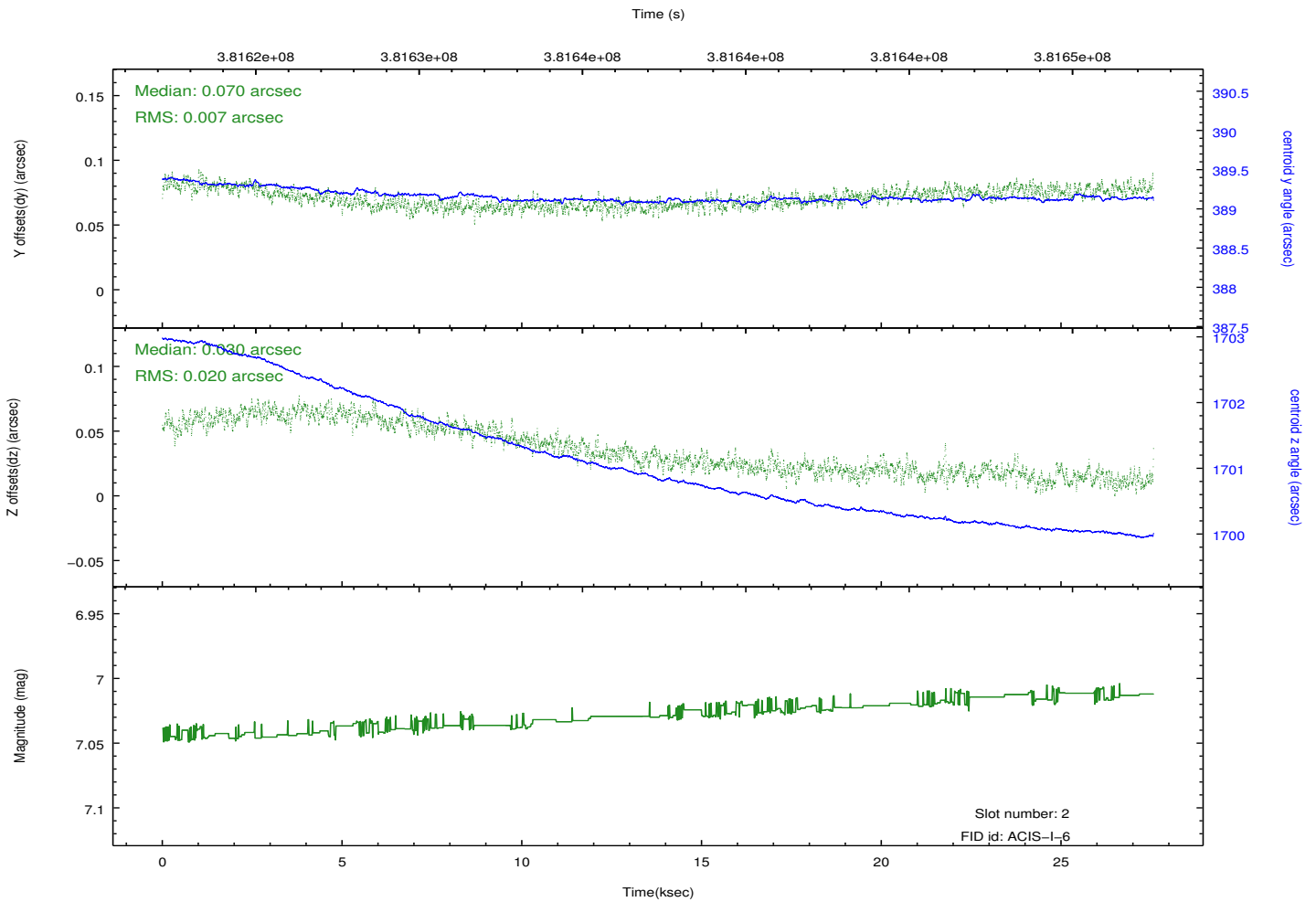
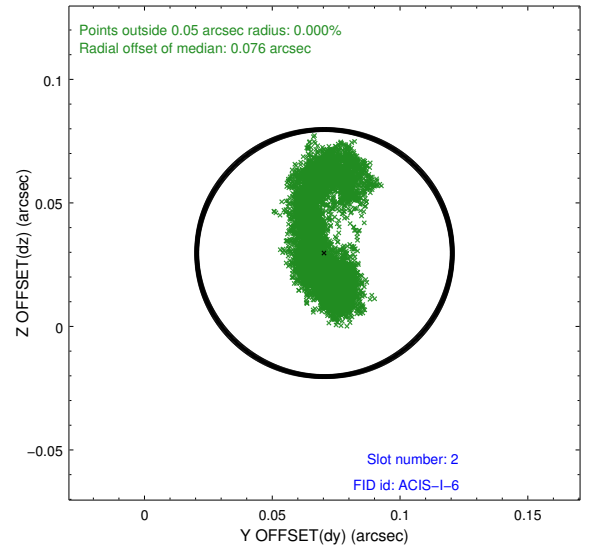
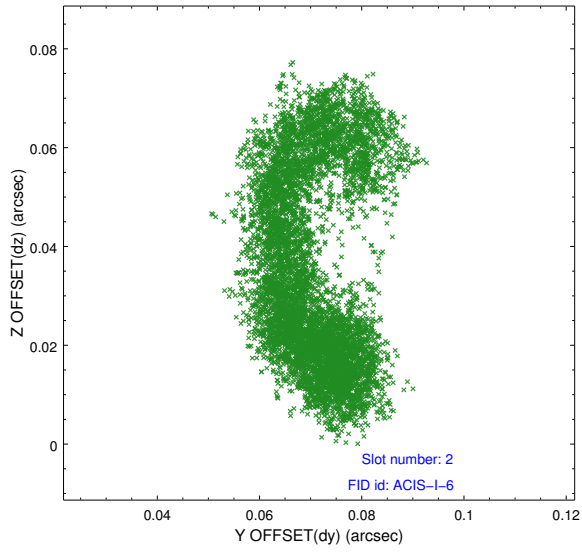
2.5.1 Slot 0



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)	2012.06.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.545395185173

A.2 Comments

Roll preference met.