

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13723 - L2 Version 1
Chandra X-Ray Center

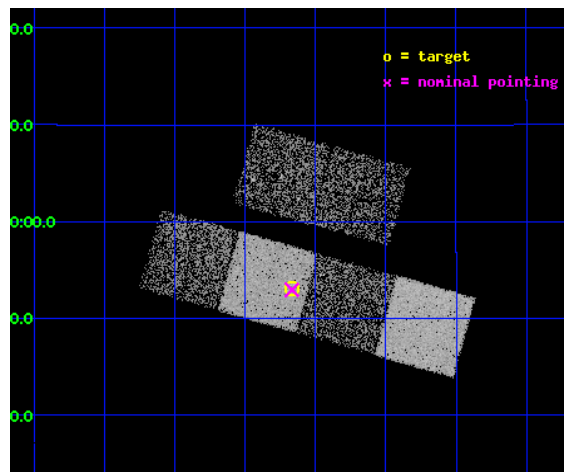
L2 Processing Date : Aug 9 2012

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1 Front

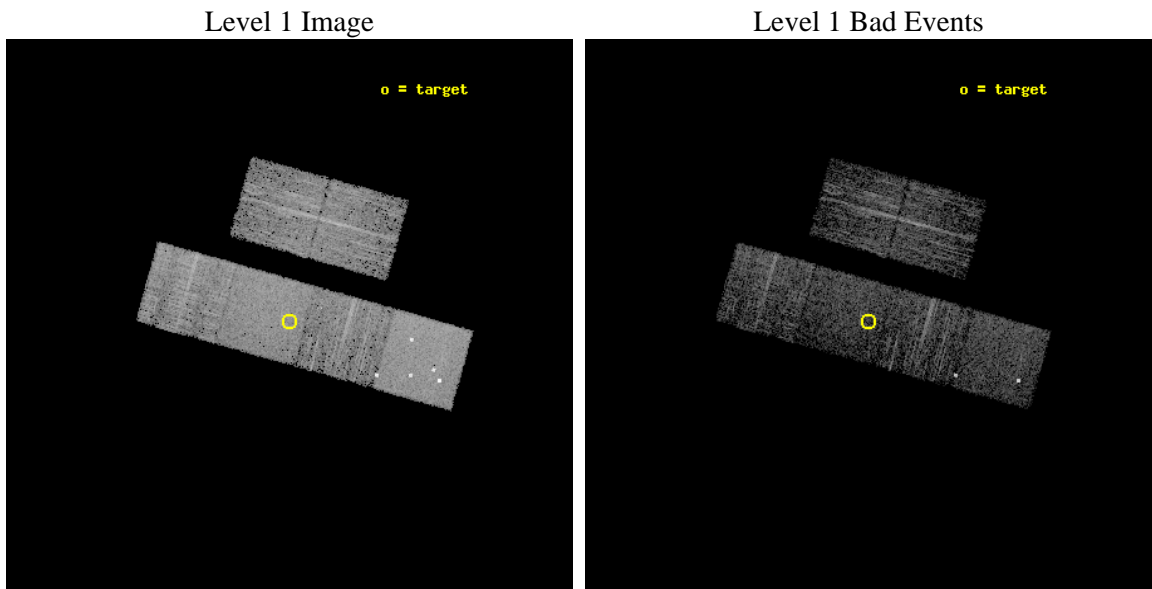
seq_num	401409	Sequence number
obs_id	13723	Observation id
title	Chandra Observations of More New Black Widows and Redbacks in the Galactic Field	Proposal title
observer	Dr. Mallory Roberts	Principal investigator
object	PSR J2047+10	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	311.792747	Observer's specified target RA [deg]
dec_targ	10.885546	Observer's specified target Dec [deg]
ra_nom	311.7918465358	Nominal RA [deg]
dec_nom	10.882571368585	Nominal Dec [deg]
roll_nom	195.656800946	Nominal Roll [deg]
revision	1	Processing version of data
ontime	4966.323017776	Sum of GTIs [s]
livetime	4903.4364453642	Livetime [s]
ontime2	4963.1230373383	Sum of GTIs [s]
ontime3	4966.1998977661	Sum of GTIs [s]
ontime5	4966.2819777727	Sum of GTIs [s]
ontime6	4966.2409377694	Sum of GTIs [s]
ontime7	4966.323017776	Sum of GTIs [s]
ontime8	4966.1588577628	Sum of GTIs [s]
l2events	43452	Number of level 2 events



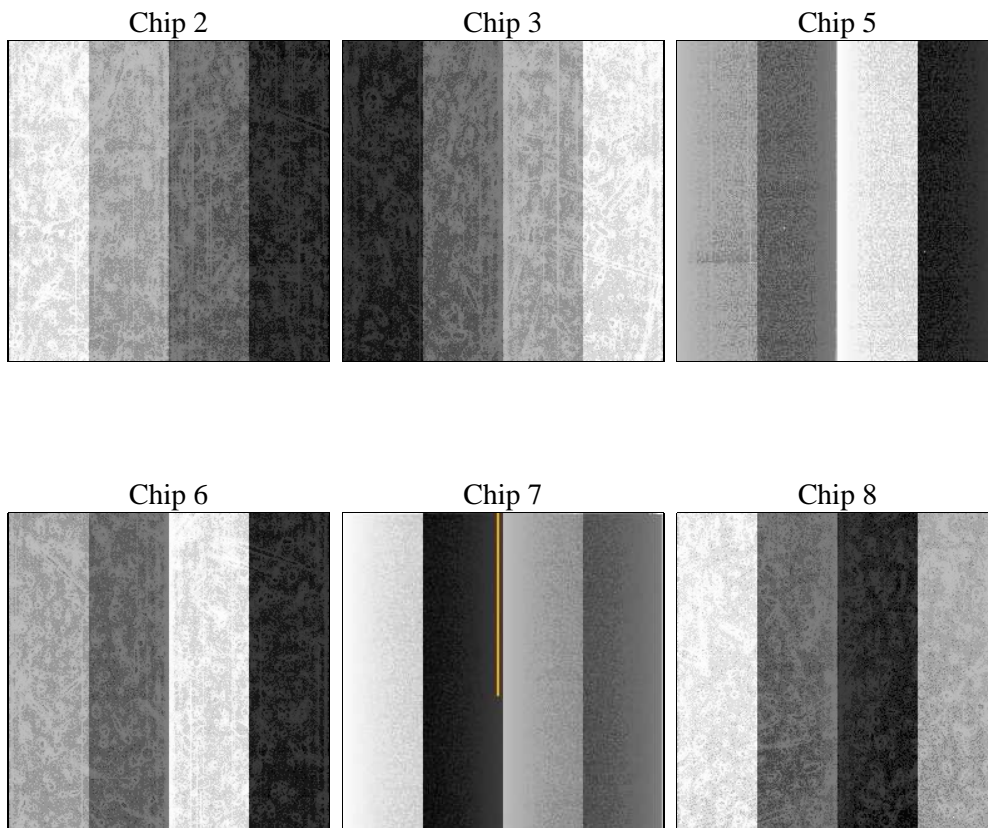
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.740000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4966.323017776	Sum of GTIs [s]
caldbver	4.5.1	 	ontime2	4963.1230373383	Sum of GTIs [s]
date	2012-08-09T07:51:39	Date and time of file creation	ontime3	4966.1998977661	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	4966.2819777727	Sum of GTIs [s]
			ontime6	4966.2409377694	Sum of GTIs [s]
			ontime7	4966.323017776	Sum of GTIs [s]
			ontime8	4966.1588577628	Sum of GTIs [s]
			l1events	191430	Number of level 1 events

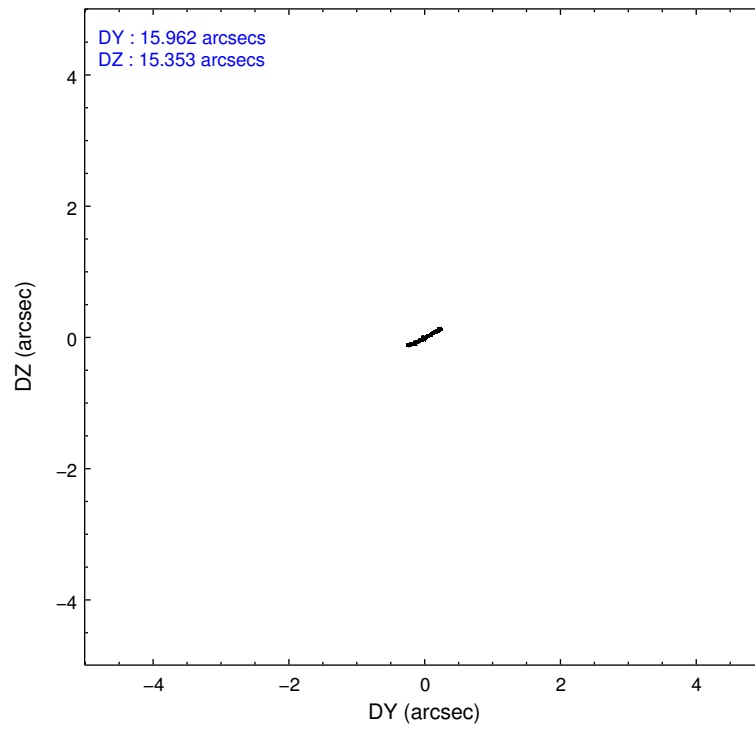
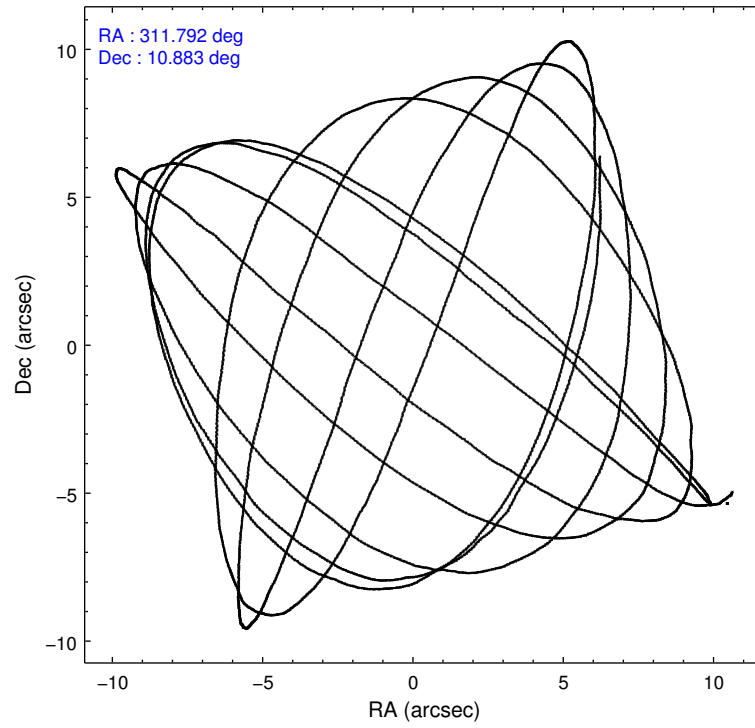
2.1.4 Events

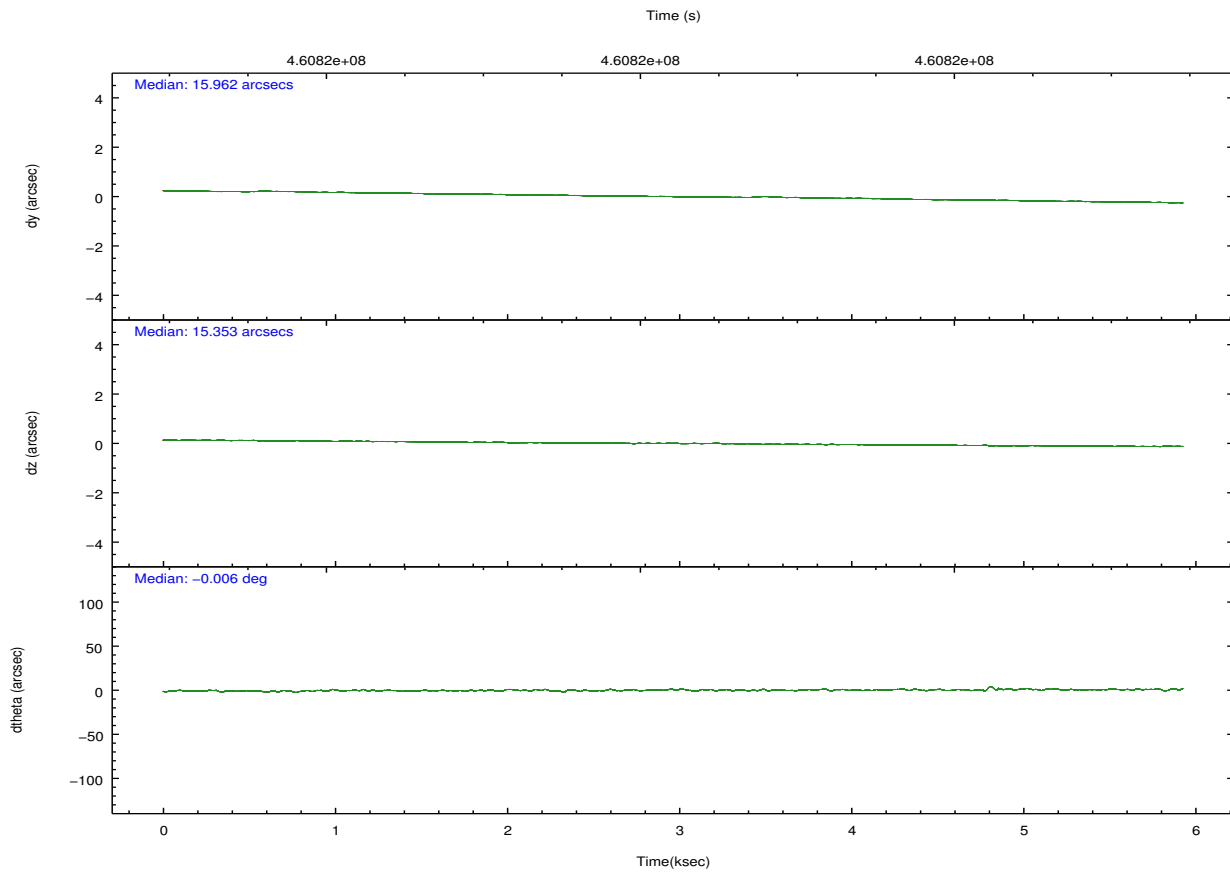
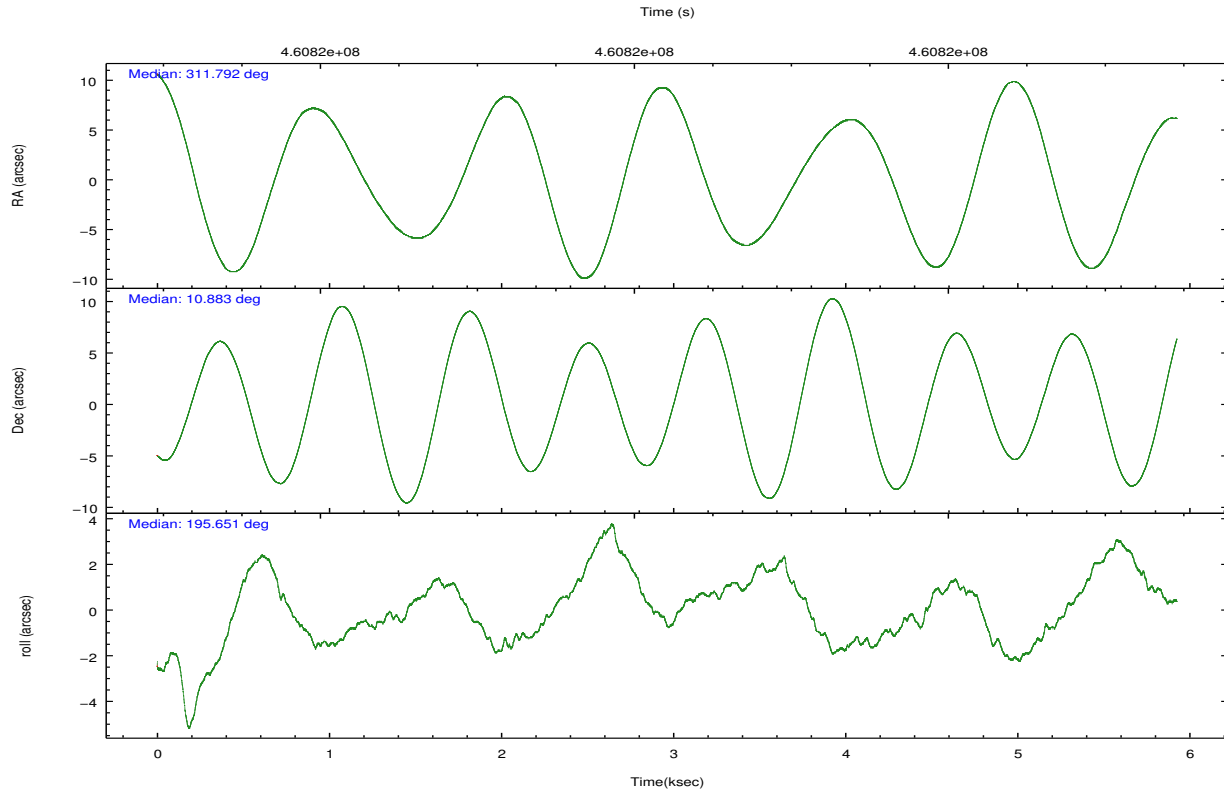
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	25823	25675	47964	25243	33722	33003	grade 0 events	1042	1094	5582	1117	1295	2613
rejected events	23002	22776	23014	22134	19027	24338		4%	4%	11%	4%	3%	7%
rejected %	89%	88%	47%	87%	56%	73%	grade 1 events	12	11	179	19	42	25
								0%	0%	0%	0%	0%	0%
							grade 2 events	656	602	6252	688	2960	1909
								2%	2%	13%	2%	8%	5%
							grade 3 events	280	263	1049	297	1232	908
								1%	1%	2%	1%	3%	2%
							grade 4 events	294	343	757	284	1253	944
								1%	1%	1%	1%	3%	2%
							grade 5 events	1186	1248	3564	1209	3343	1836
								4%	4%	7%	4%	9%	5%
							grade 6 events	552	606	11348	724	7971	2293
								2%	2%	23%	2%	23%	6%
							grade 7 events	21801	21508	19233	20905	15626	22475
								84%	83%	40%	82%	46%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	311.811040	311.7918465357988	CCD I2 on	O4	Y
[deg] Pointing Dec	10.902467	10.88257136858505	CCD I3 on	O5	Y
[deg] Pointing Roll	195.496543	195.6568009460007	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O2	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-190.132523	-190.145094680475	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01257209746719923	CCD S4 on	O3	Y
[s] Observation start time (MET)	460818172.184000	460816840.7165	CCD S5 on	N	N
Observation start date	2012-08-08T13:01:45	2012-08-08T12:40:40	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	460823172.184000	460823398.15435	On-chip summing requested	N	N
Observation end date	2012-08-08T14:25:05	2012-08-08T14:29:58	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



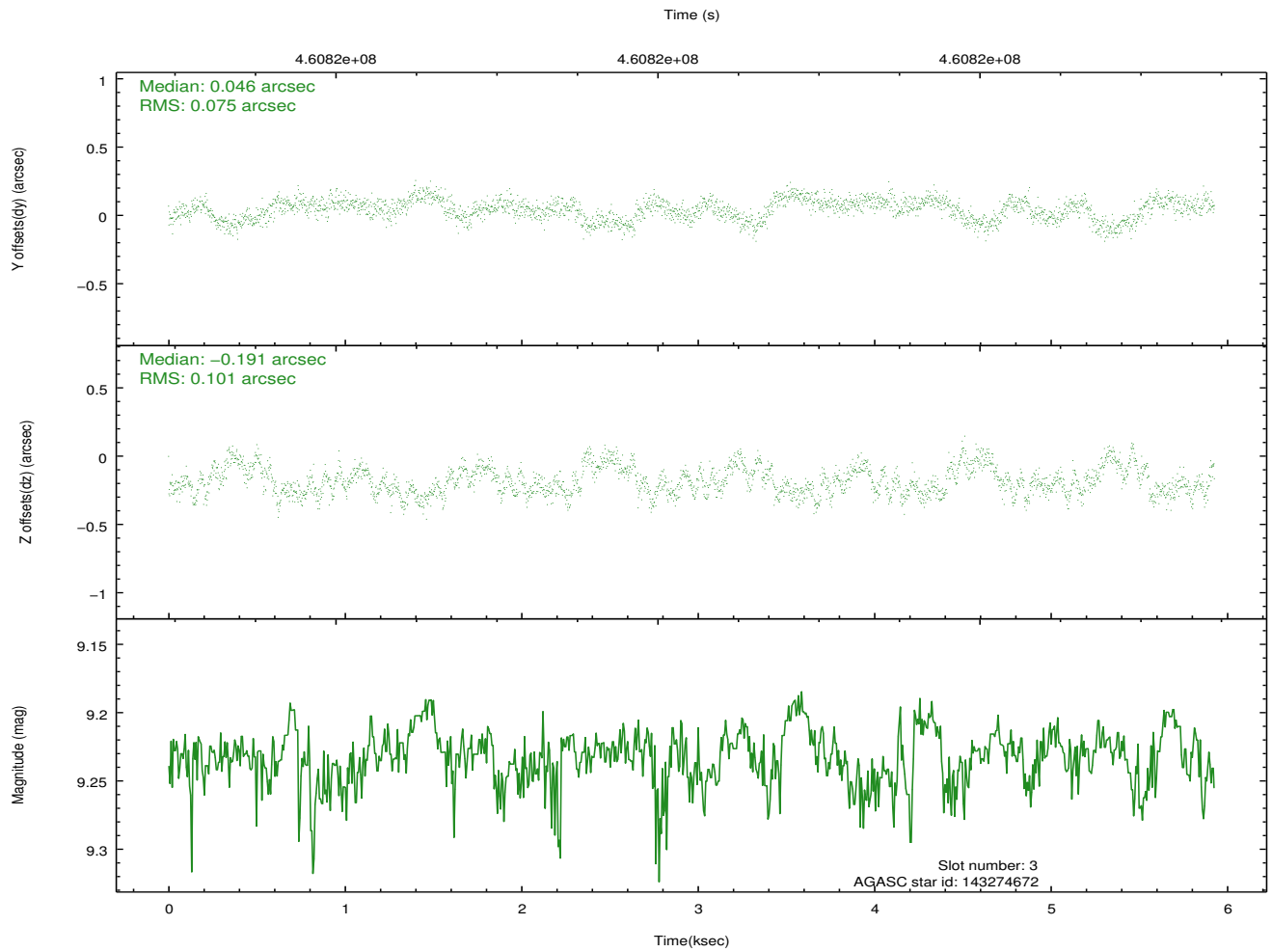
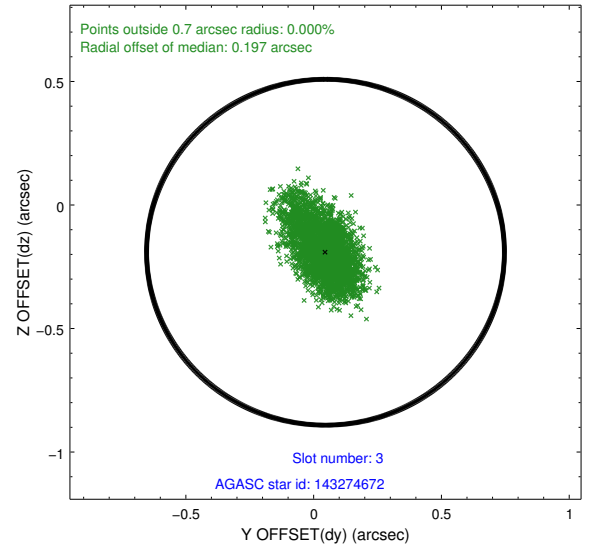
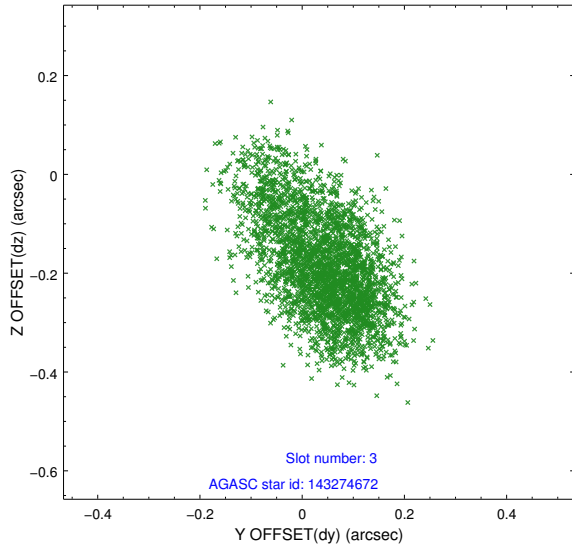


Slot Statistics

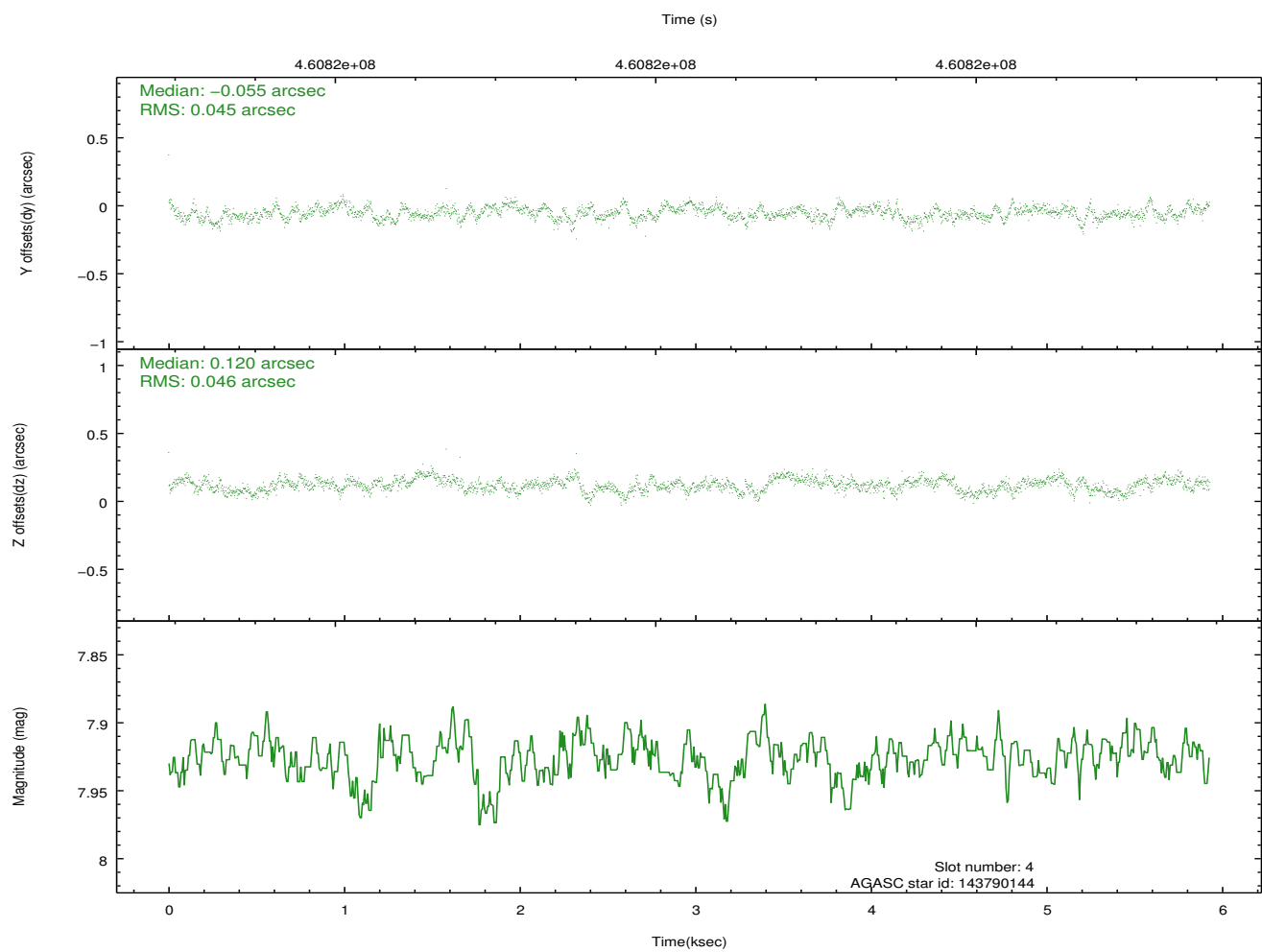
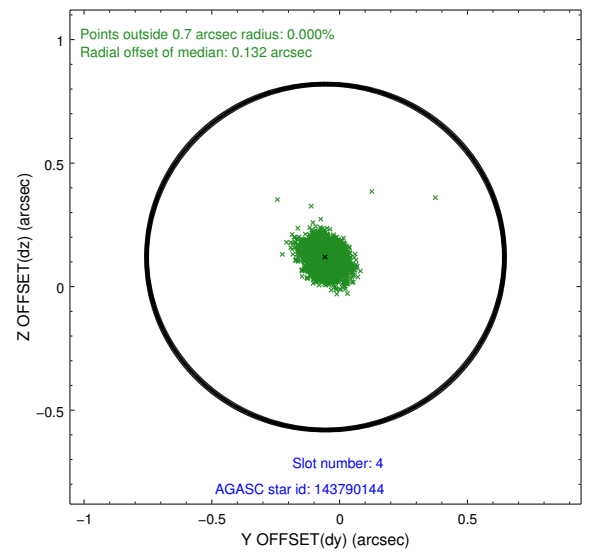
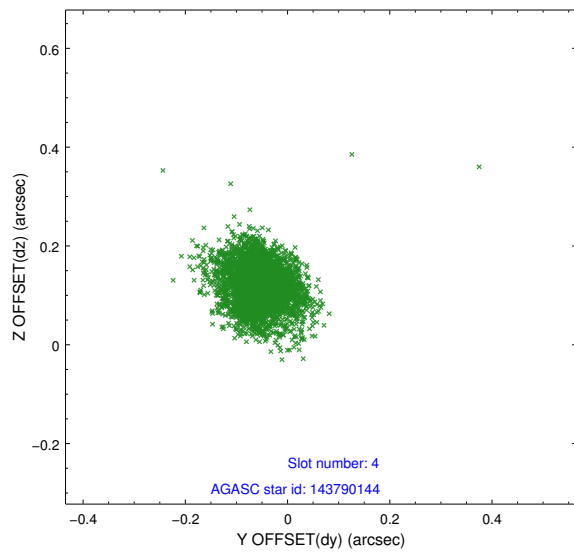
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.09	1445	-0.030	-0.057	0.010	0.018	0.000000	0.000000	927.05	-1732.32
1	FID	ACIS-S-4	7.10	1446	0.106	0.017	0.007	0.011	0.000000	0.000000	2145.13	170.89
2	FID	ACIS-S-6	7.23	1446	-0.099	0.050	0.011	0.020	0.000000	0.000000	394.19	809.40
3	GUIDE	143274672	9.23	2888	0.046	-0.191	0.131	0.224	311.973350	10.523618	-189.14	1468.18
4	GUIDE	143790144	7.93	2889	-0.055	0.120	0.068	0.107	311.386985	11.423840	940.71	-2208.63
5	GUIDE	143919808	8.71	2892	0.180	0.184	0.118	0.171	312.325116	11.361440	-2189.37	-1109.78
6	GUIDE	143280856	9.07	2891	-0.005	0.131	0.095	0.150	311.380291	10.816549	1549.52	-110.12
7	GUIDE	143284192	9.07	2890	-0.156	-0.243	0.094	0.151	311.604215	10.155174	1425.35	2396.21

2.4 Star Slots

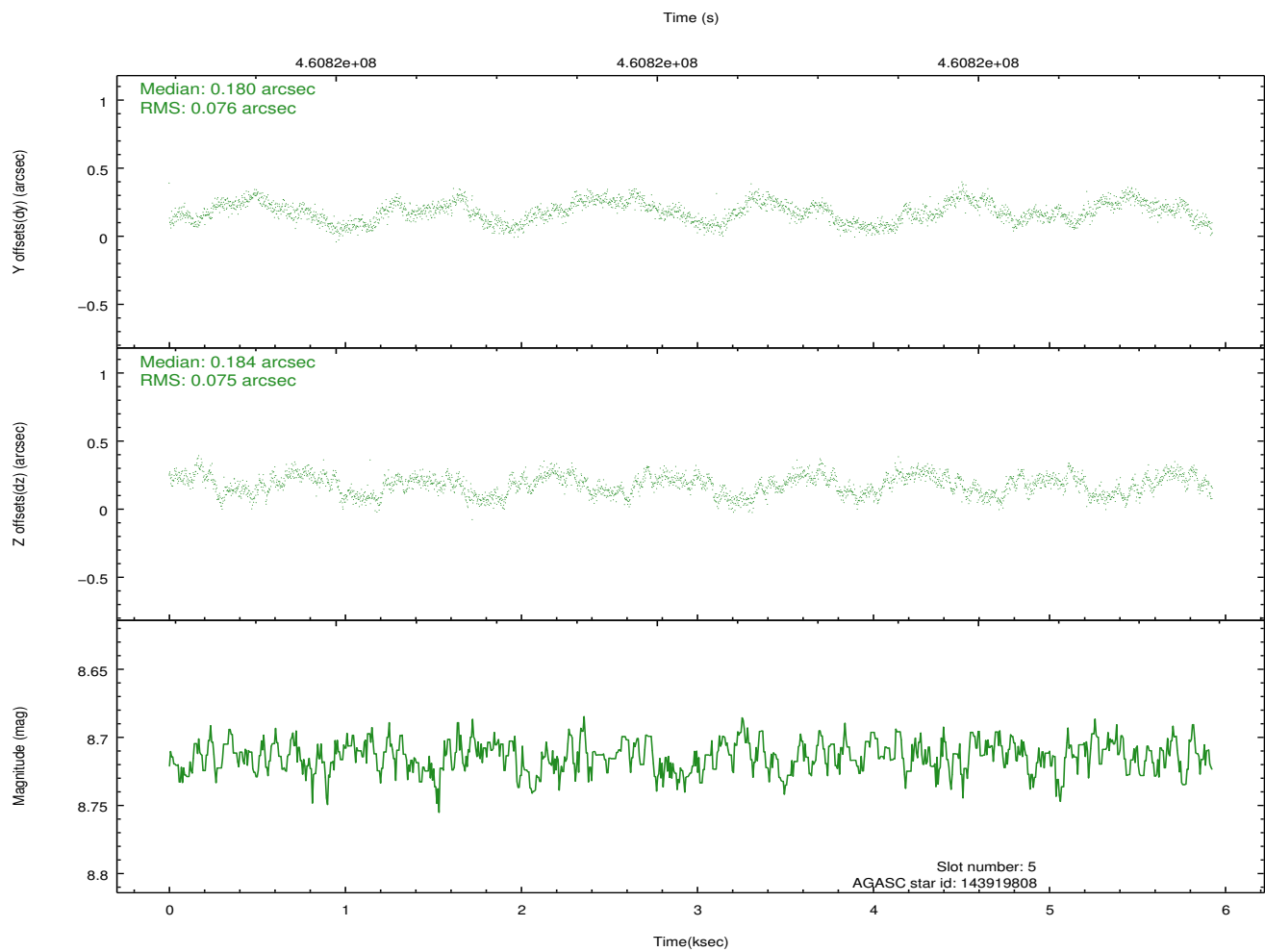
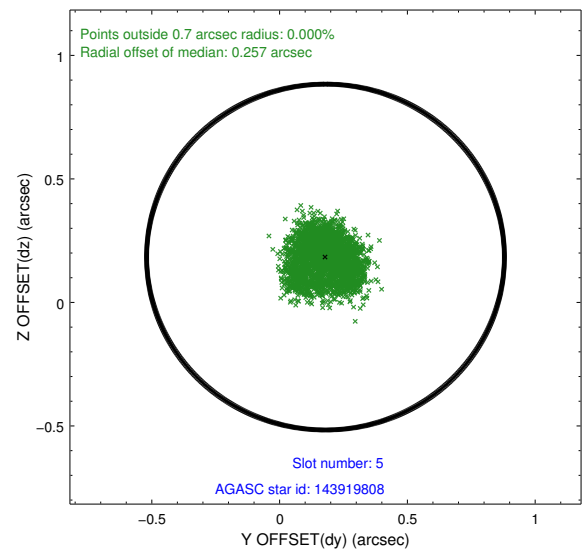
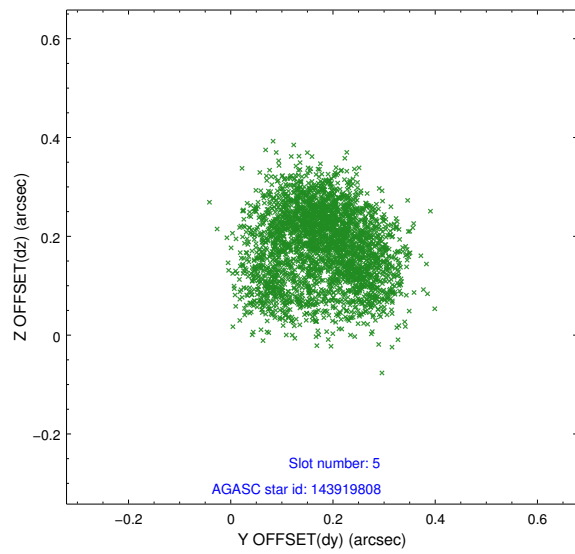
2.4.1 Slot 3



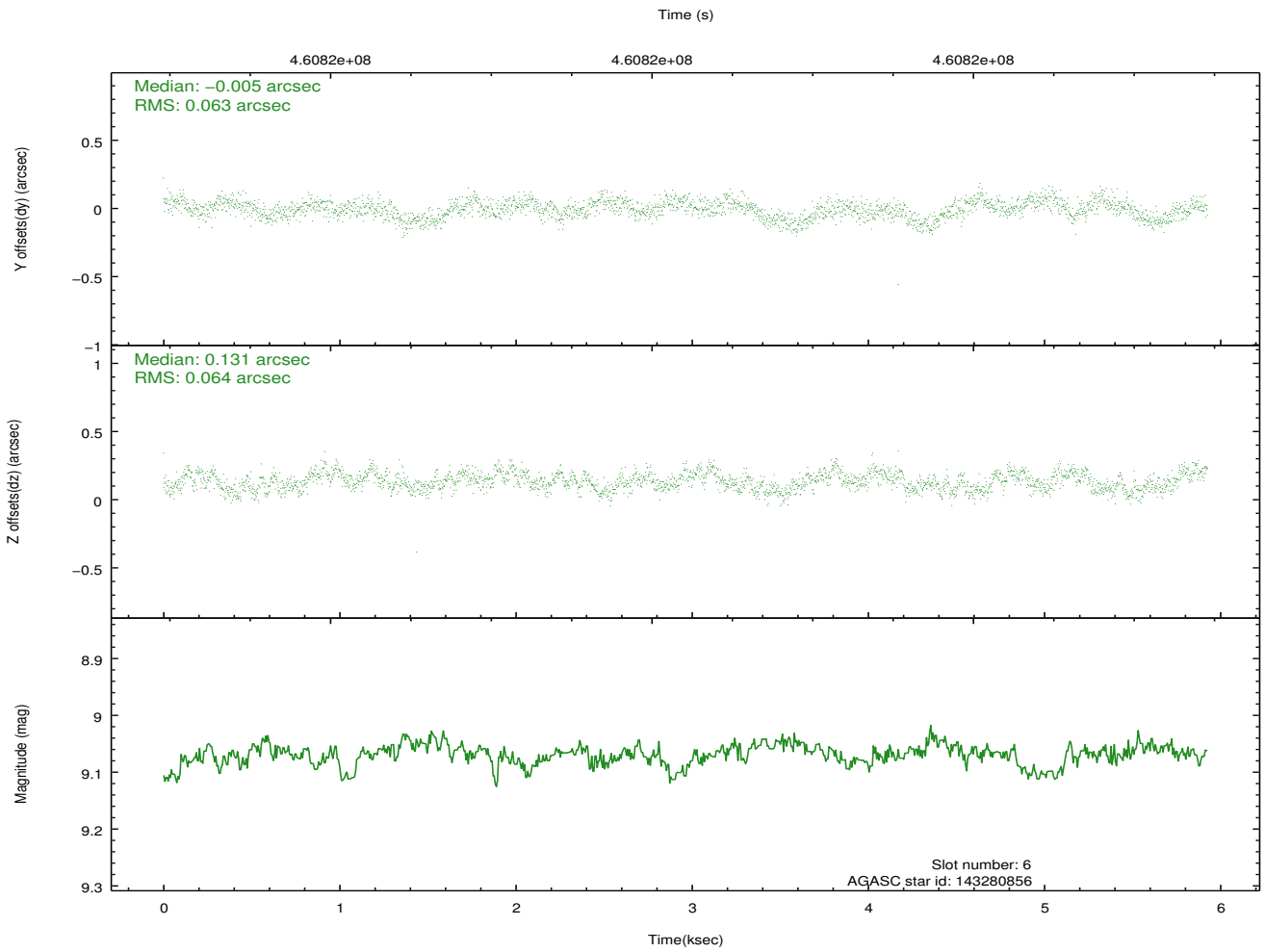
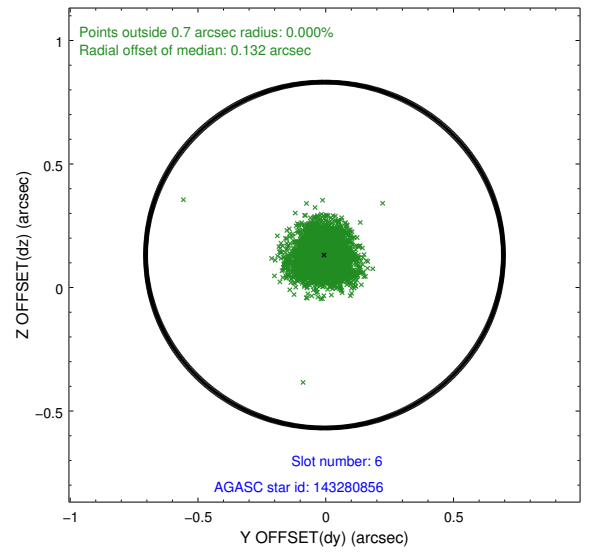
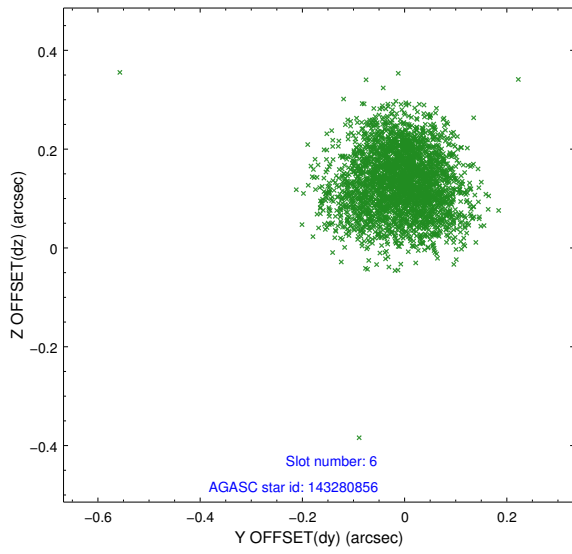
2.4.2 Slot 4



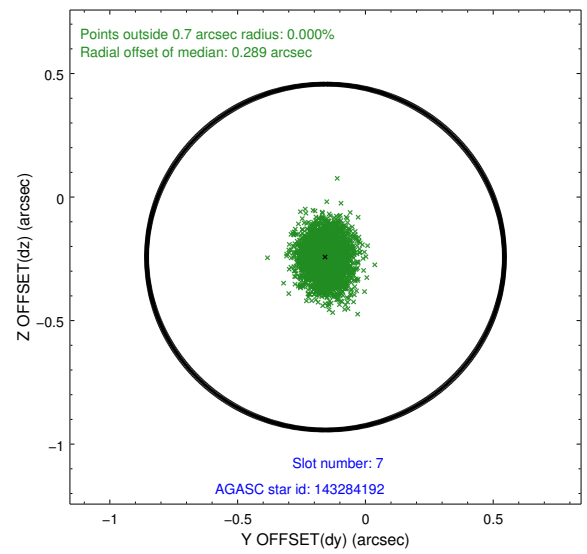
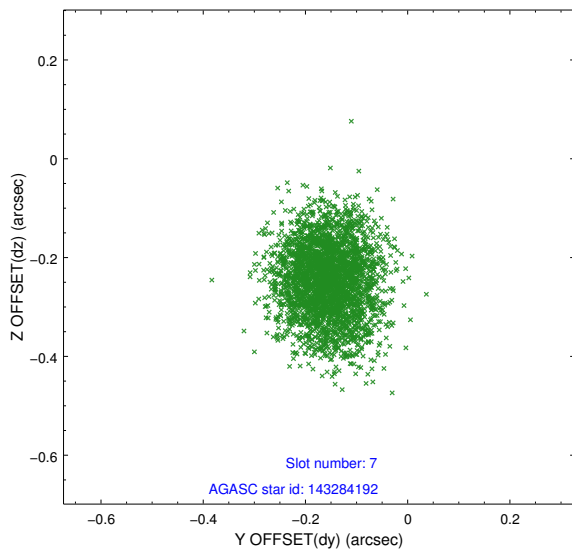
2.4.3 Slot 5



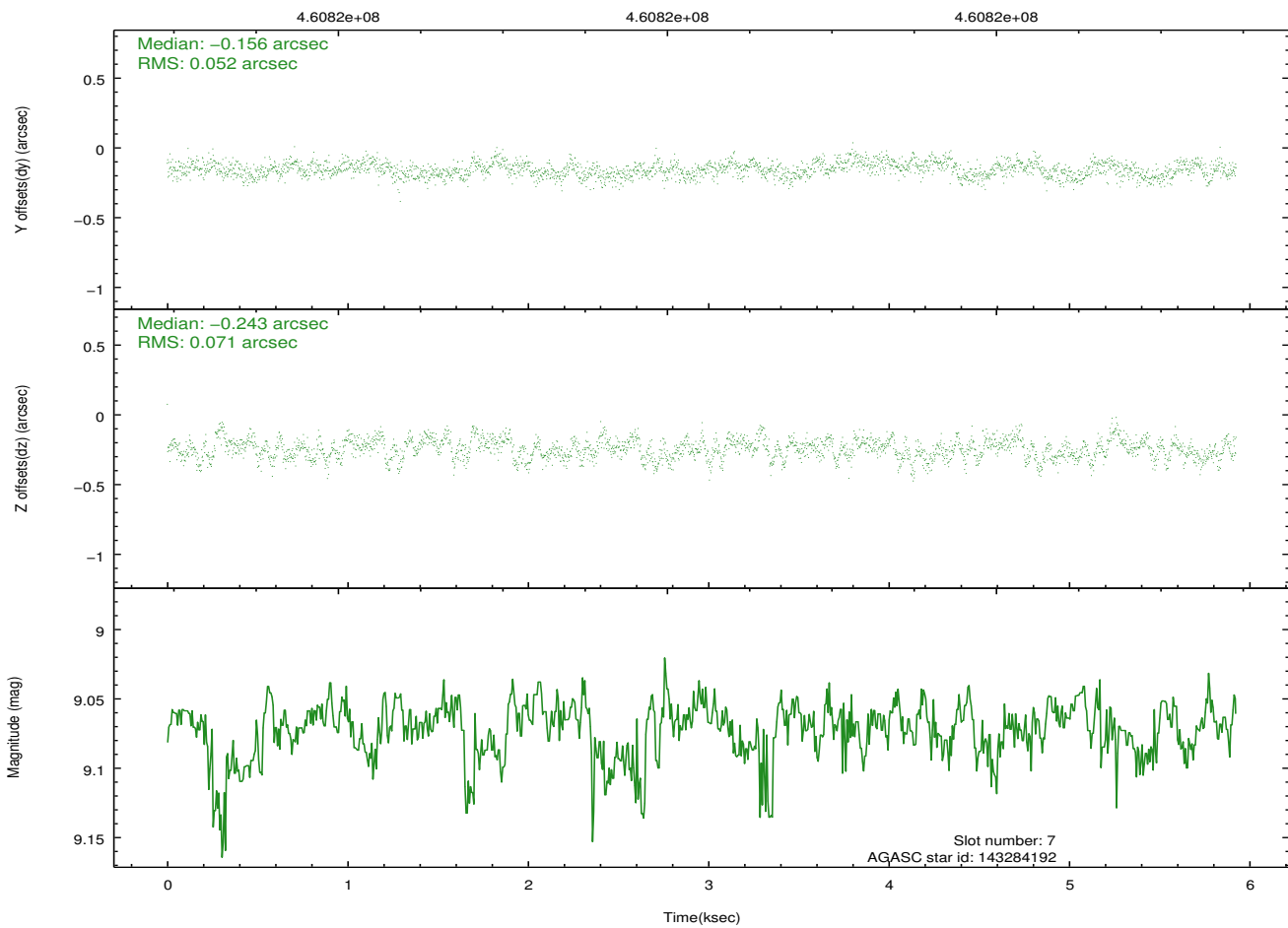
2.4.4 Slot 6



2.4.5 Slot 7

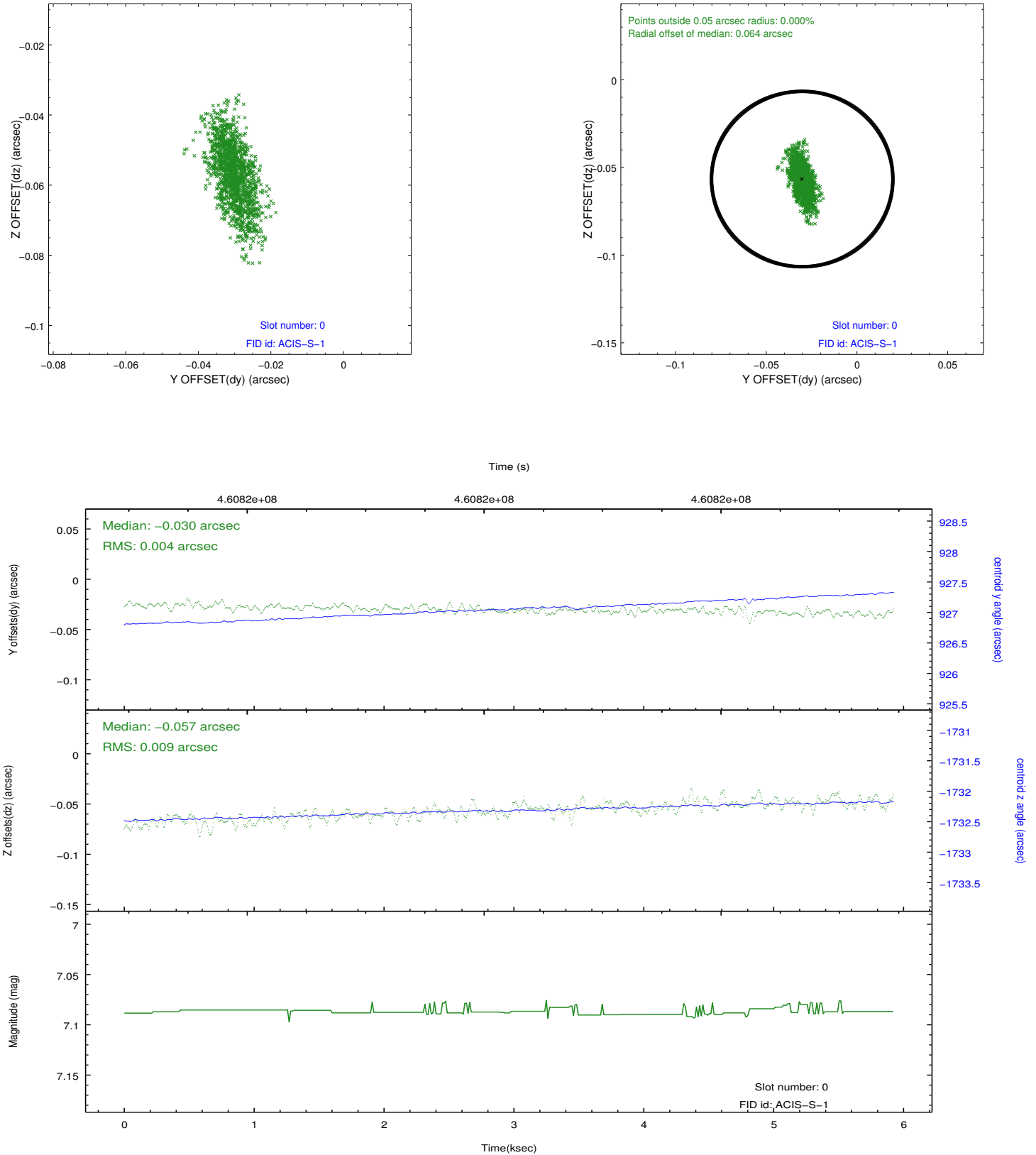


Time (s)

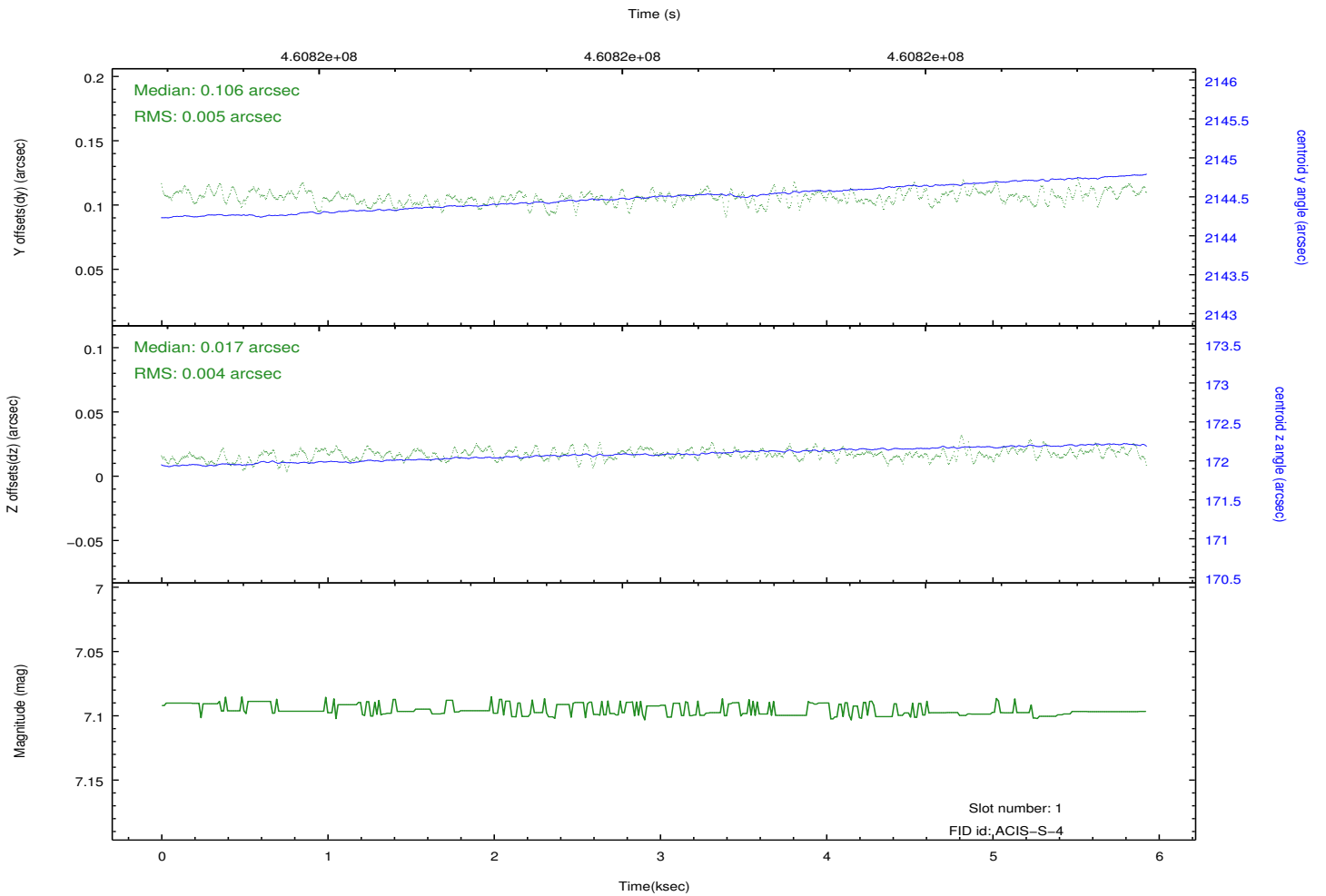
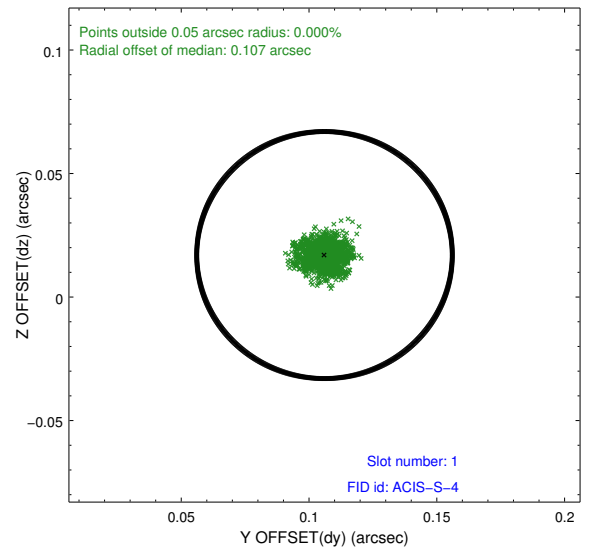
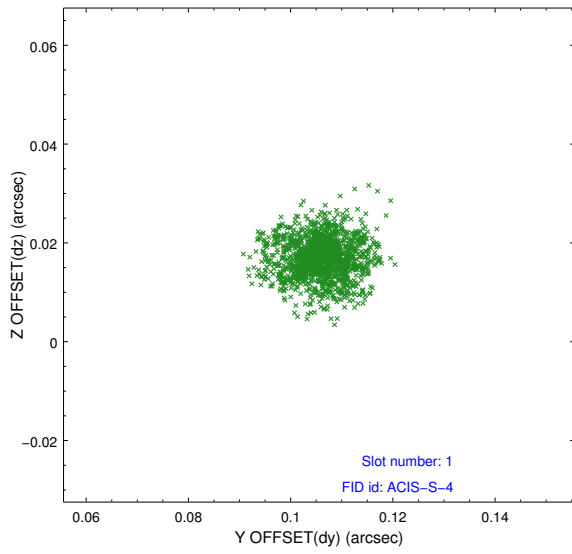


2.5 FID Slots

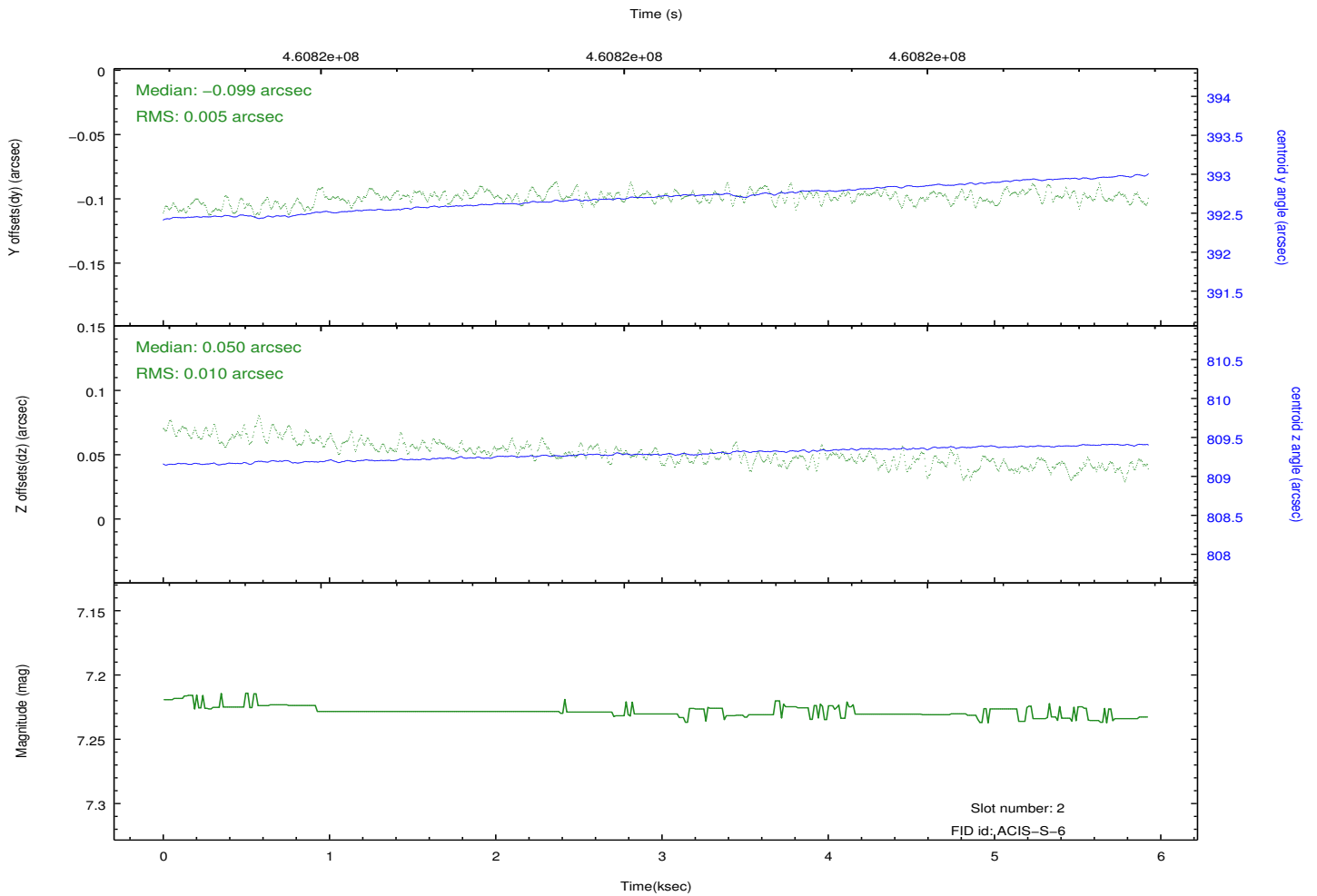
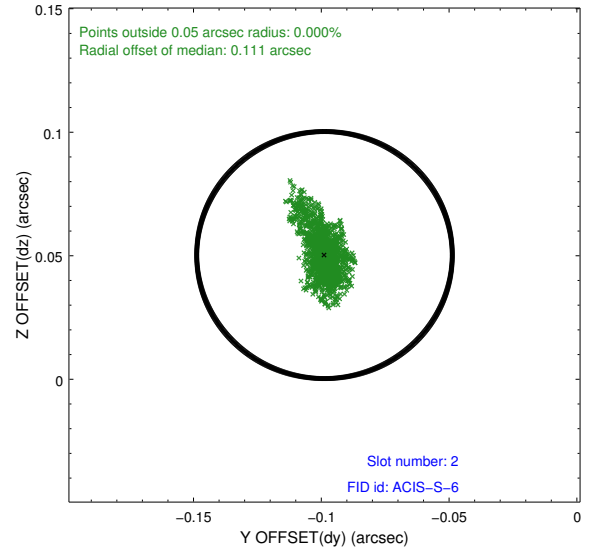
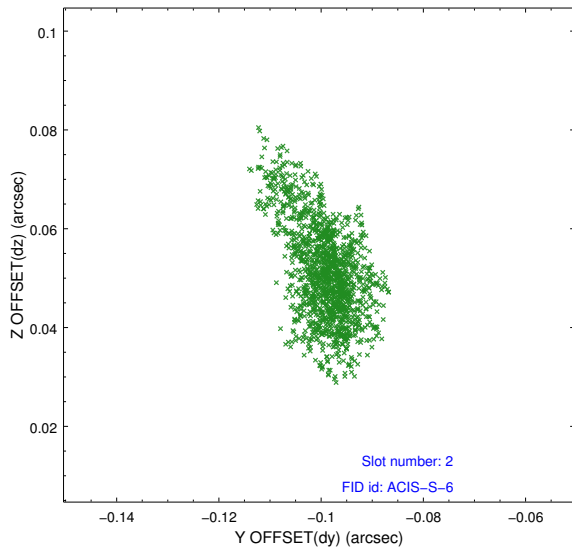
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.08.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.966323017776

A.2 Comments