

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 14213 - L2 Version 2
Chandra X-Ray Center

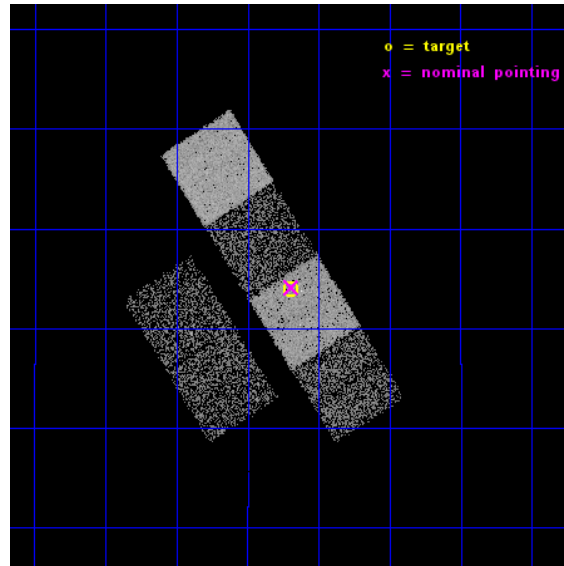
L2 Processing Date : Dec 8 2014

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1 Front

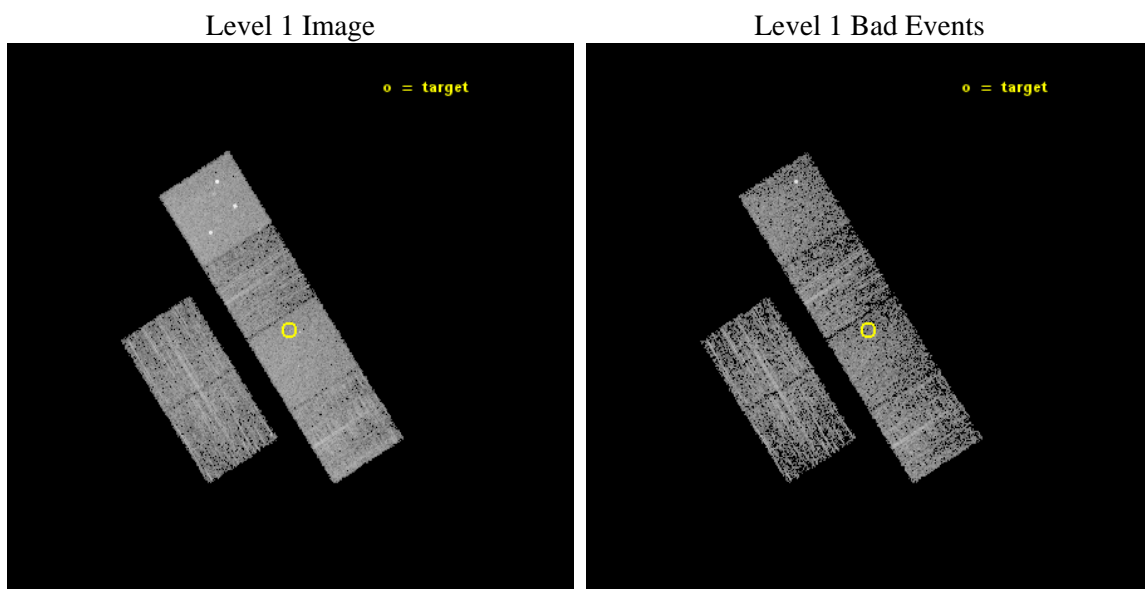
seq_num	702709	Sequence number
obs_id	14213	Observation id
title	Exploratory X-ray Monitoring of z>4 Radio-Quiet Quasars	Proposal t
observer	Prof. Ohad Shemmer	Principal investigator
object	PSS 1326+0743	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	201.549167	Observer's specified target RA [deg]
dec_targ	7.732639	Observer's specified target Dec [deg]
ra_nom	201.547821275	Nominal RA [deg]
dec_nom	7.7354043404557	Nominal Dec [deg]
roll_nom	57.649792154432	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4966.3999815583	Sum of GTIs [s]
livetime	4903.5124345848	Livetime [s]
ontime2	4966.3999815583	Sum of GTIs [s]
ontime3	4966.3999815583	Sum of GTIs [s]
ontime5	4966.3999815583	Sum of GTIs [s]
ontime6	4966.3999815583	Sum of GTIs [s]
ontime7	4966.3999815583	Sum of GTIs [s]
ontime8	4966.3999815583	Sum of GTIs [s]
l2events	42186	Number of level 2 events



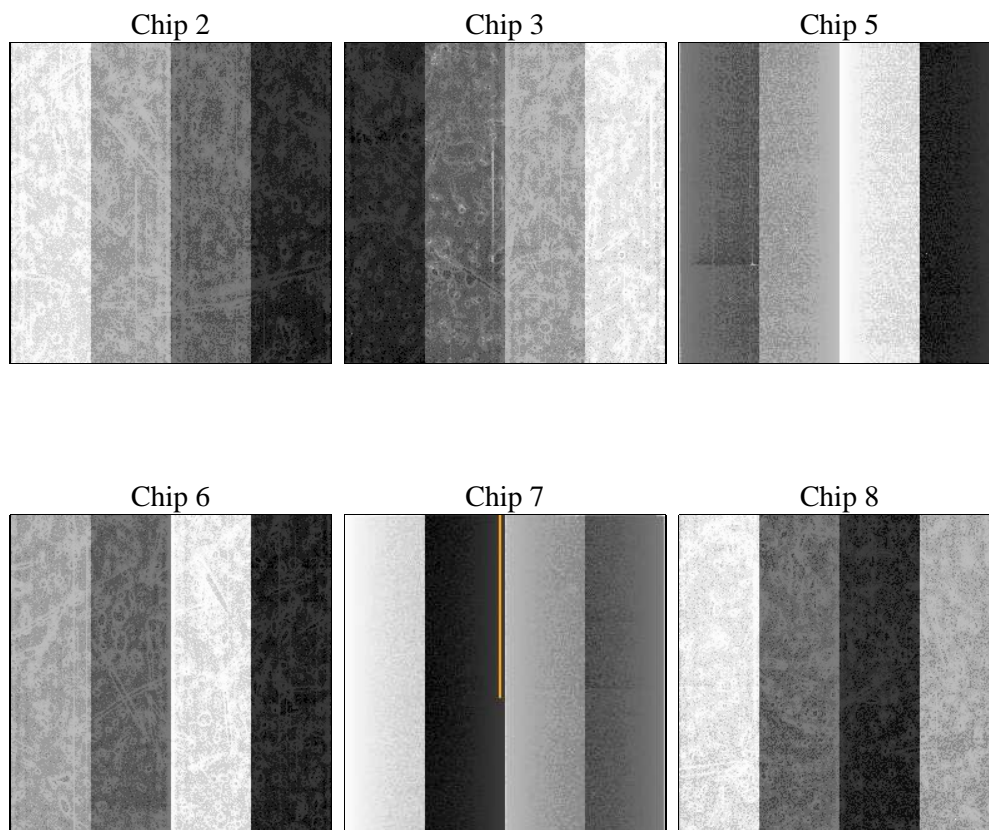
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	4966.3999815583	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	4966.3999815583	Sum of GTIs [s]
date	2014-12-08T07:38:39	Date and time of file creation	ontime3	4966.3999815583	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	4966.3999815583	Sum of GTIs [s]
			ontime6	4966.3999815583	Sum of GTIs [s]
			ontime7	4966.3999815583	Sum of GTIs [s]
			ontime8	4966.3999815583	Sum of GTIs [s]
			l1events	174891	Number of level 1 events

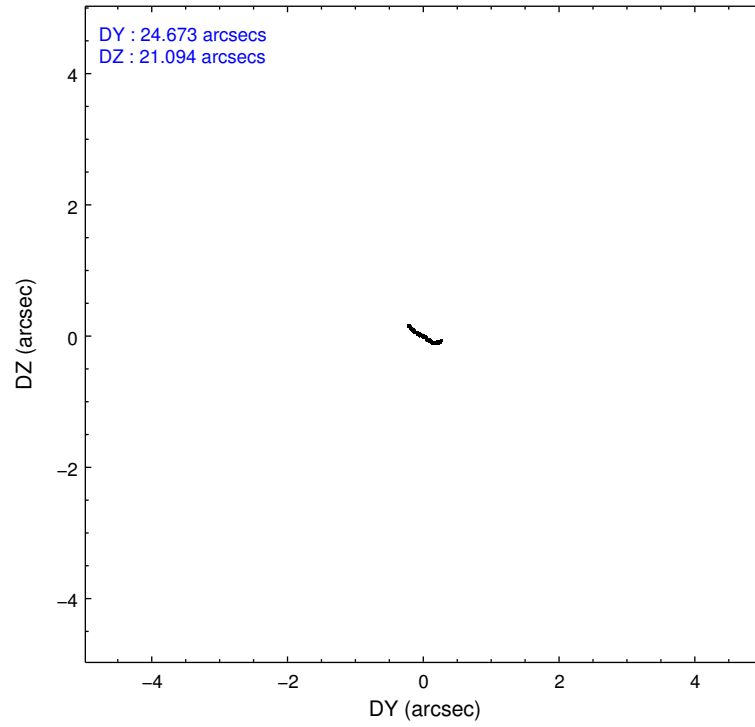
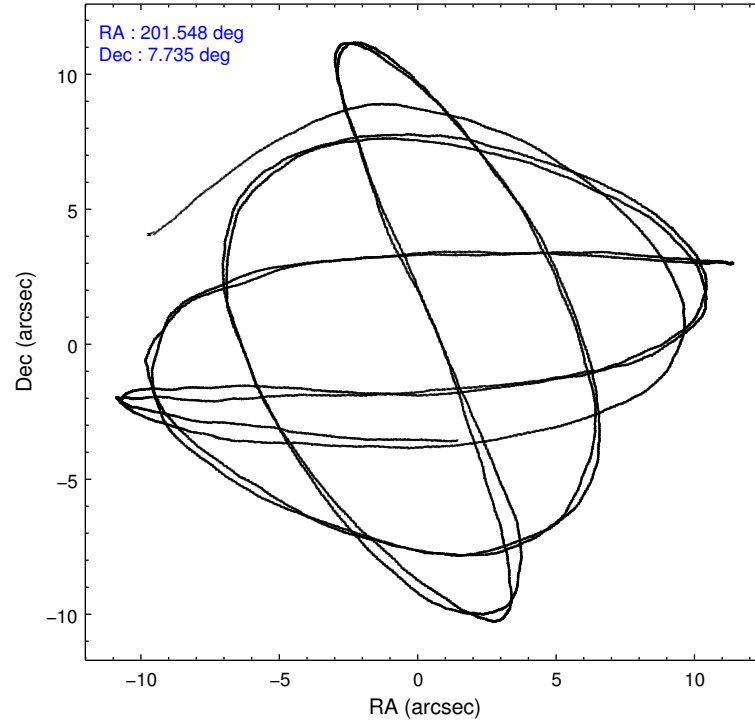
2.1.4 Events

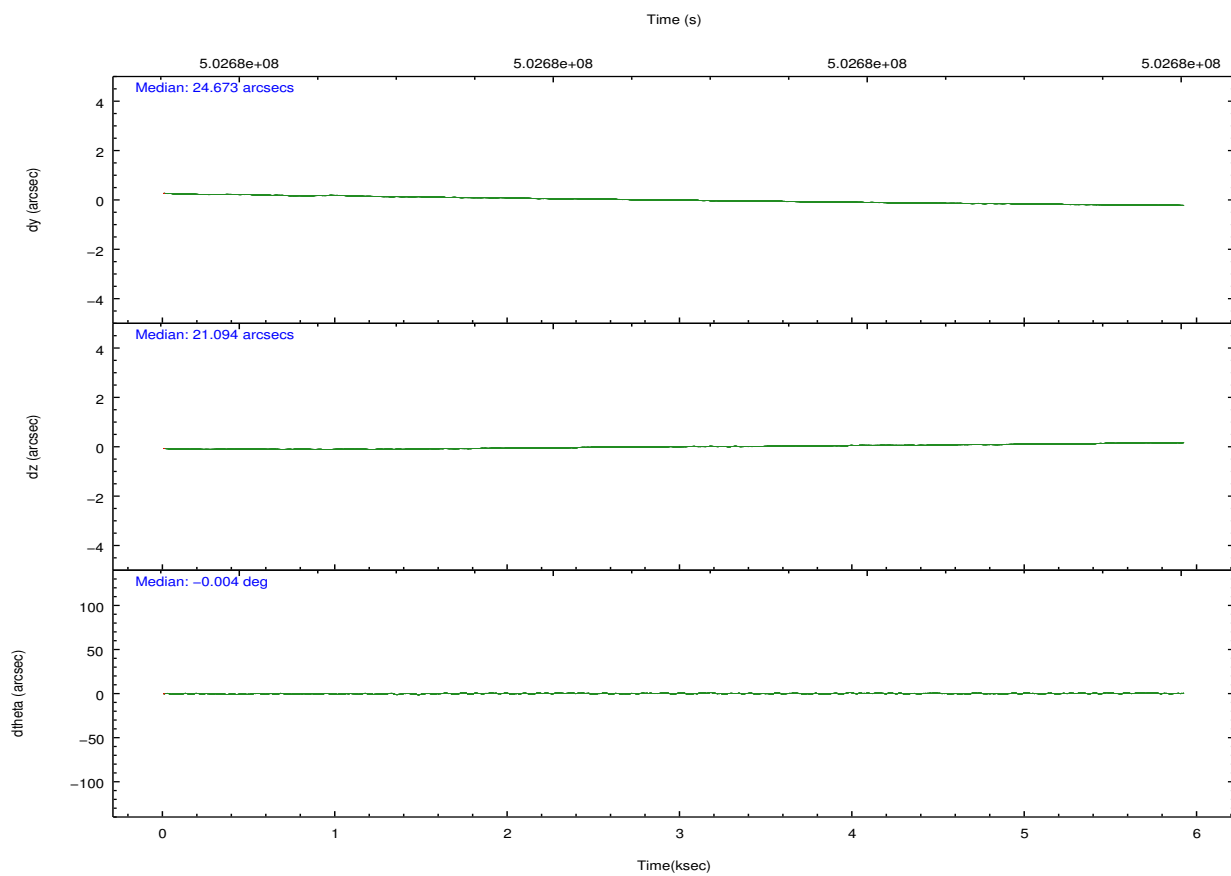
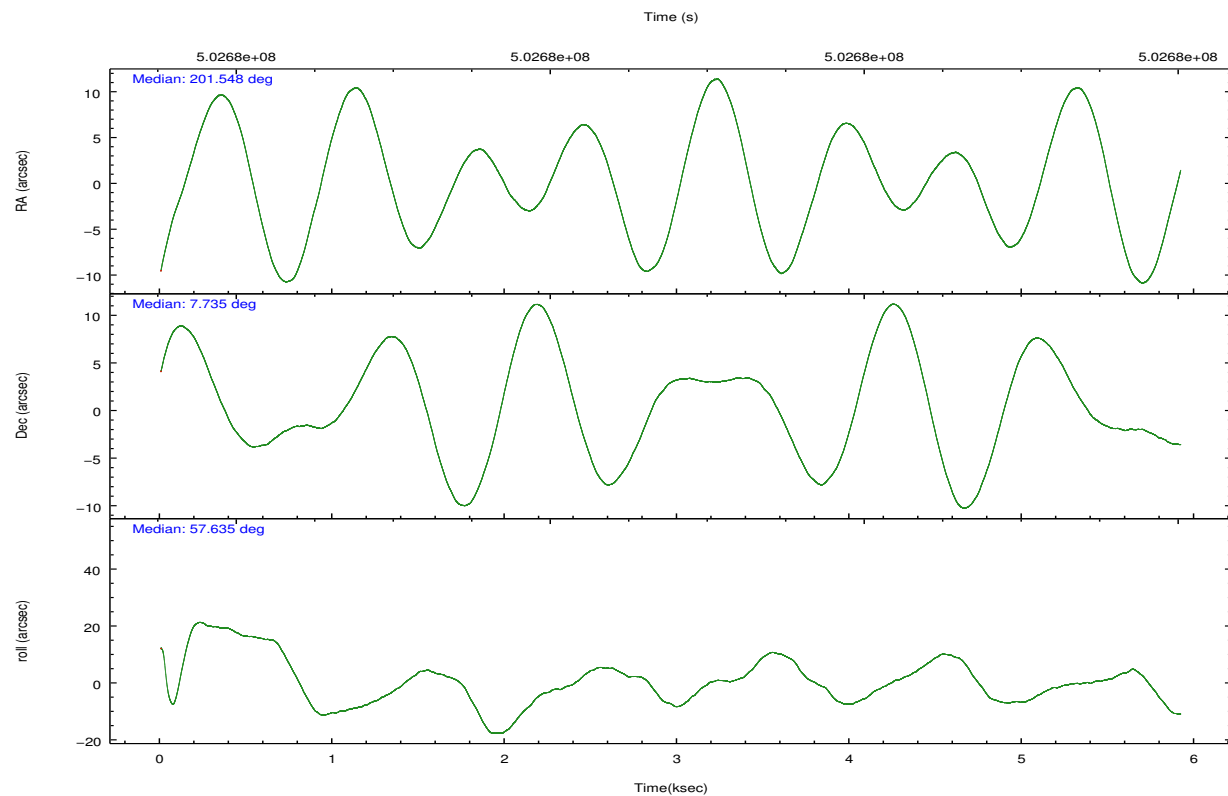
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	23984	22035	42136	22773	32825	31138	grade 0 events	1007	1092	3431	1033	1405	2582
rejected events	21135	19296	20945	19835	18435	22539		4%	4%	8%	4%	4%	8%
rejected %	88%	87%	49%	87%	56%	72%	grade 1 events	17	15	59	16	50	20
								0%	0%	0%	0%	0%	0%
							grade 2 events	728	545	6261	659	3019	2029
								3%	2%	14%	2%	9%	6%
							grade 3 events	276	286	629	298	1262	859
								1%	1%	1%	1%	3%	2%
							grade 4 events	280	270	636	303	1198	784
								1%	1%	1%	1%	3%	2%
							grade 5 events	1063	1190	3010	1281	3281	1784
								4%	5%	7%	5%	9%	5%
							grade 6 events	558	547	10248	647	7518	2353
								2%	2%	24%	2%	22%	7%
							grade 7 events	20055	18090	17862	18536	15092	20727
								83%	82%	42%	81%	45%	66%

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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	201.547118	201.5478212750004	CCD I2 on	O2	Y
[deg] Pointing Dec	7.708050	7.735404340455696	CCD I3 on	O1	Y
[deg] Pointing Roll	57.493197	57.64979215443185	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	502676733.184000	502674414.87065	CCD S5 on	N	N
Observation start date	2013-12-06T00:24:26	2013-12-05T23:46:54	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	502681733.184000	502682185.39607	On-chip summing requested	N	N
Observation end date	2013-12-06T01:47:46	2013-12-06T01:56:25	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



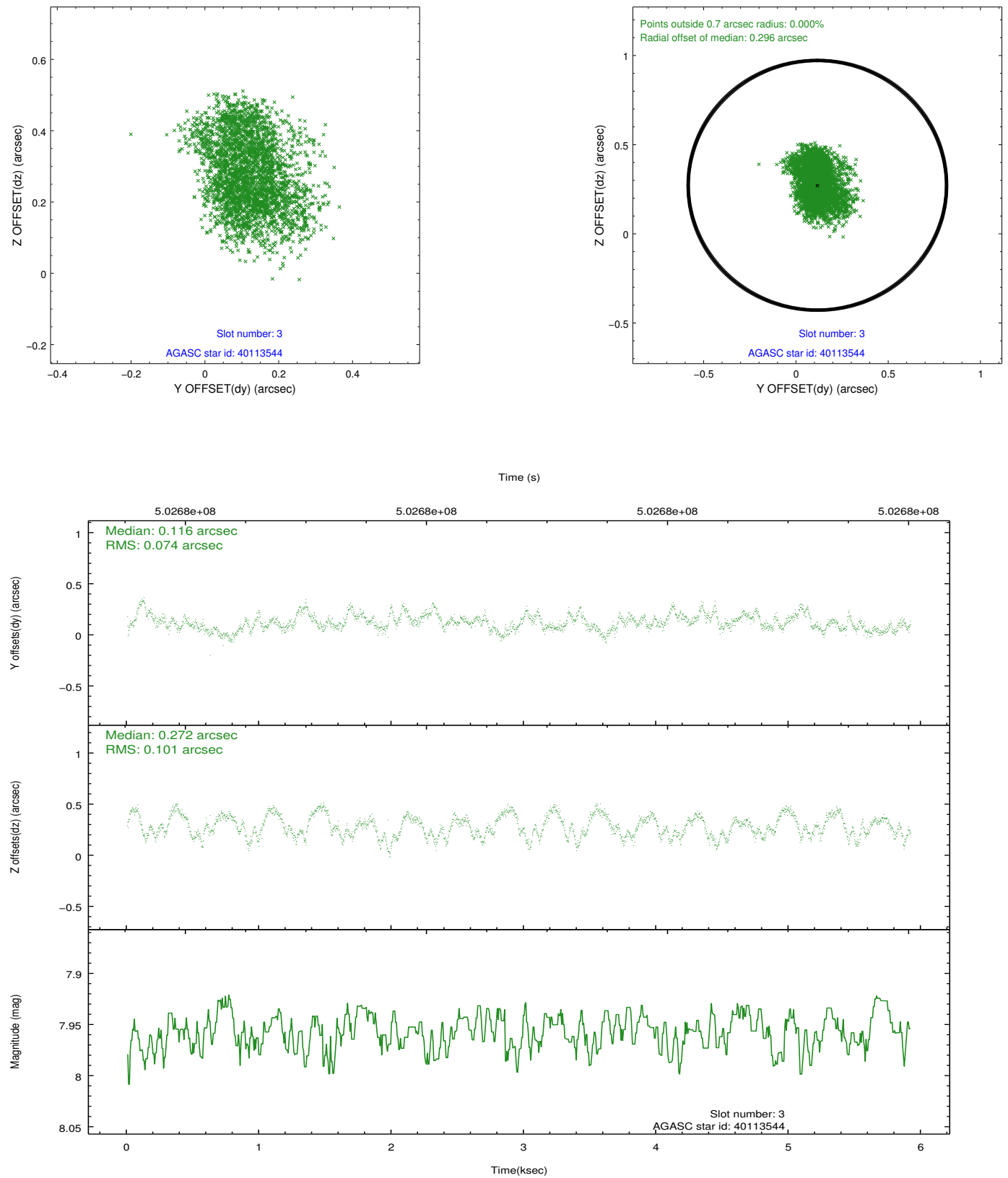


Slot Statistics

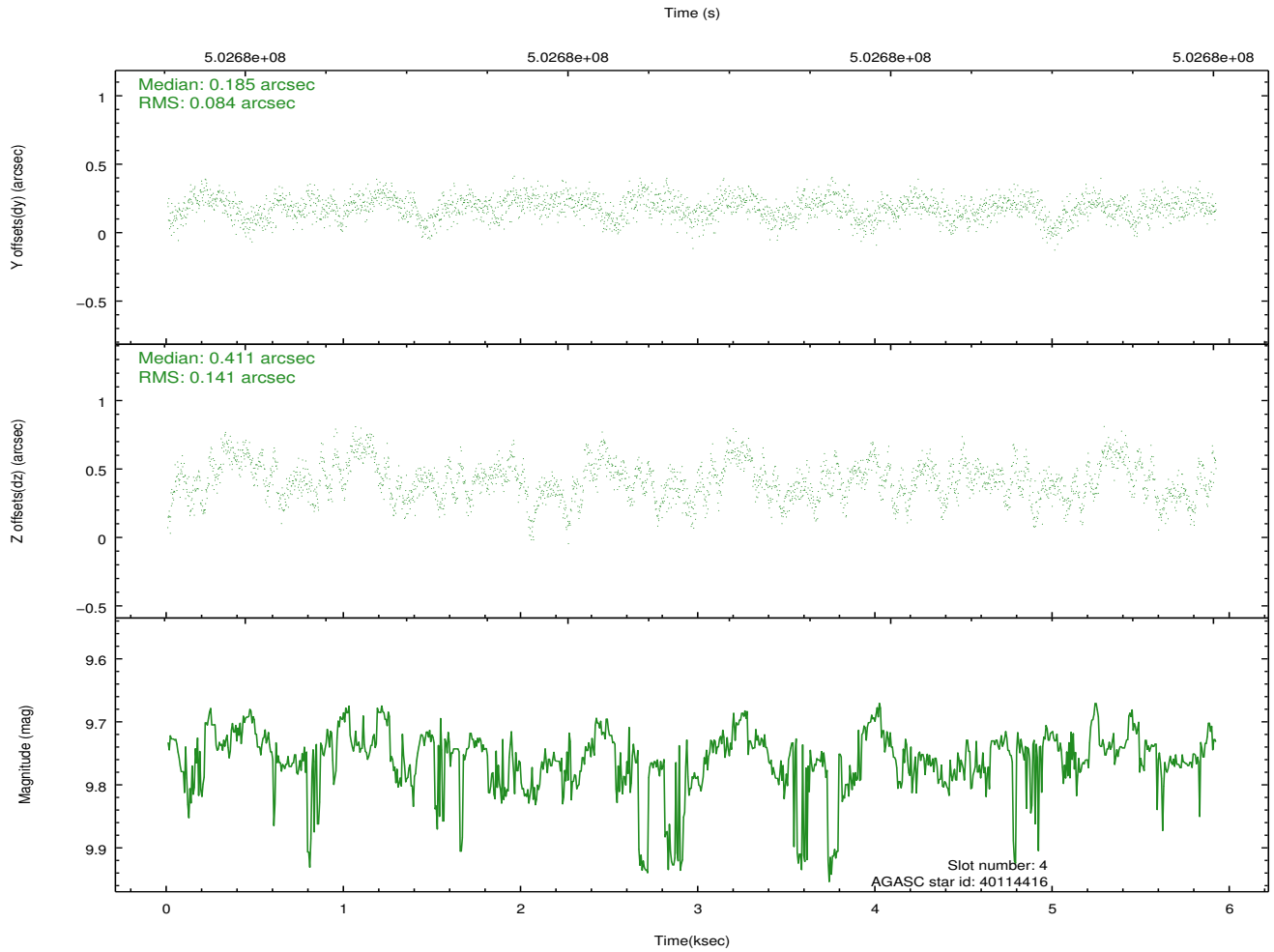
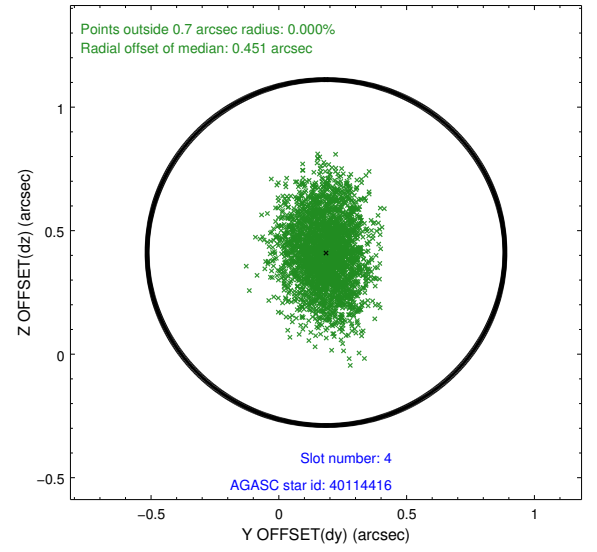
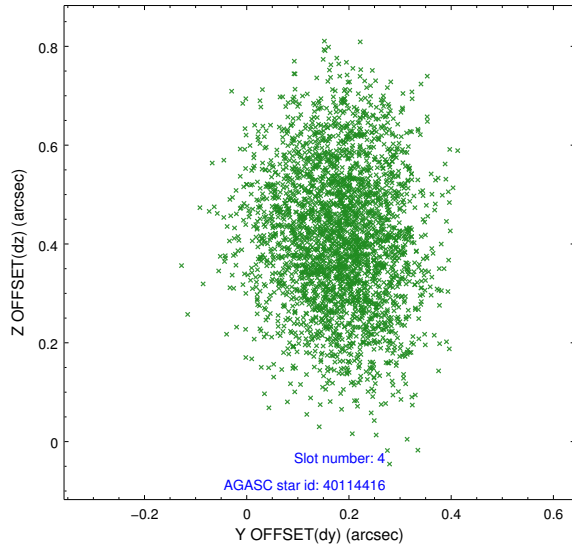
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.92	1444	-0.180	-0.017	0.011	0.019	0.000000	0.000000	-778.09	-1742.65
1	FID		ACIS-S-4	7.01	1444	0.368	0.092	0.006	0.011	0.000000	0.000000	2135.27	164.88
2	FID		ACIS-S-5	7.03	1443	-0.220	-0.065	0.011	0.023	0.000000	0.000000	-1829.68	159.55
3	GUIDE	used	40113544	7.96	2887	0.116	0.272	0.138	0.206	201.675538	7.453262	-527.15	-878.37
4	GUIDE	used	40114416	9.75	2885	0.185	0.411	0.176	0.287	201.610541	7.400035	-813.12	-786.71
5	GUIDE	used	116791744	10.34	2873	-0.196	-0.563	0.377	0.567	201.164615	7.930997	-56.22	1580.88
6	GUIDE	used	116791824	9.18	2885	-0.005	-0.183	0.144	0.222	201.287828	7.911044	119.56	1172.87
7	GUIDE	used	116923528	9.72	2882	-0.076	0.048	0.322	0.493	202.304546	7.771186	1646.37	-2155.67

2.4 Star Slots

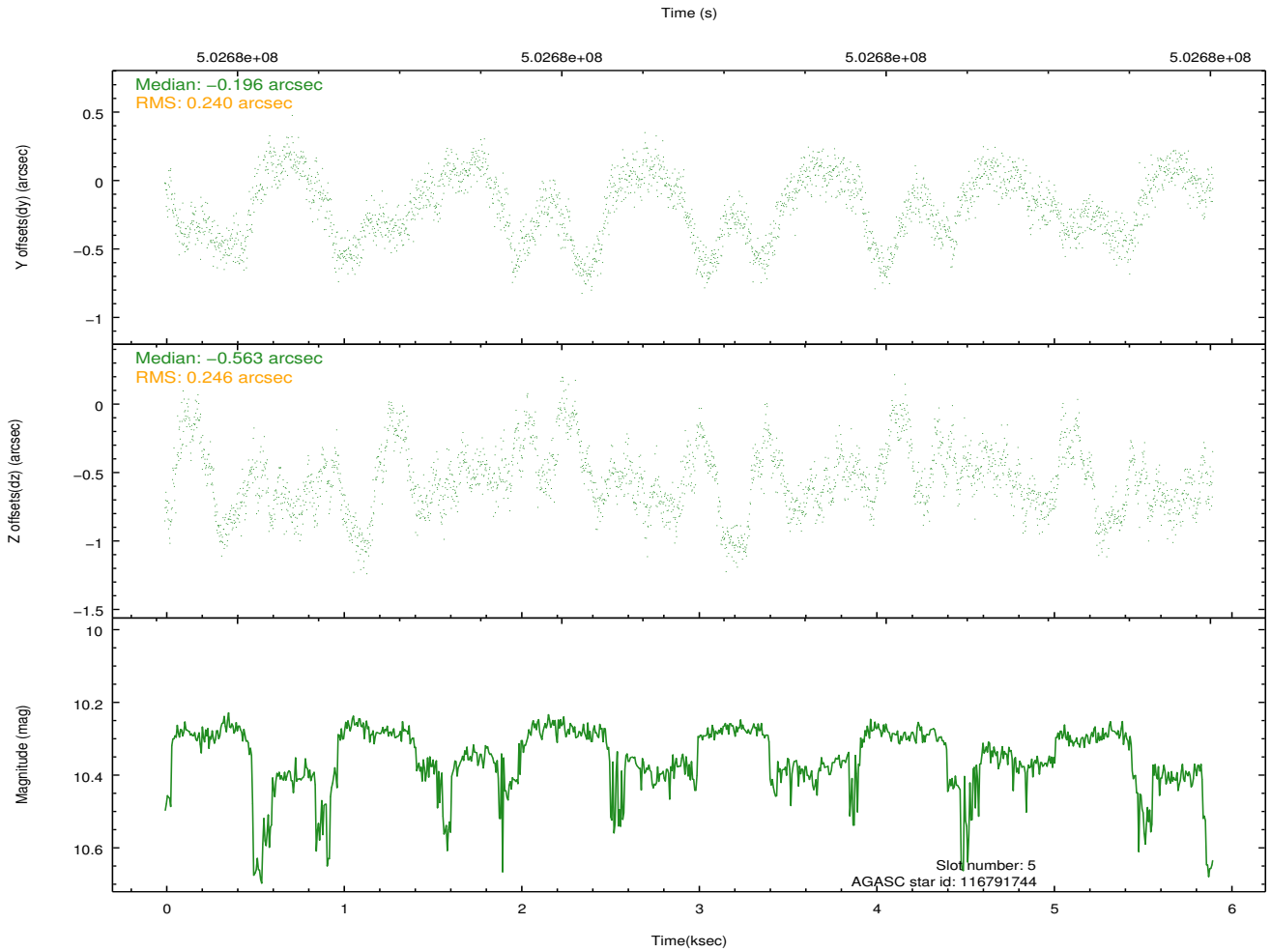
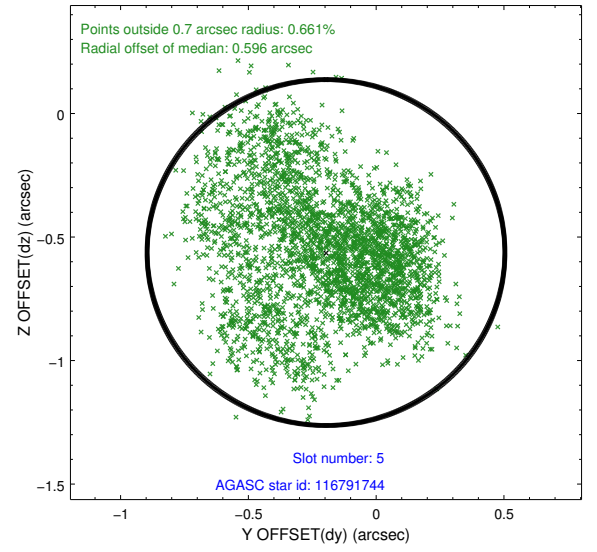
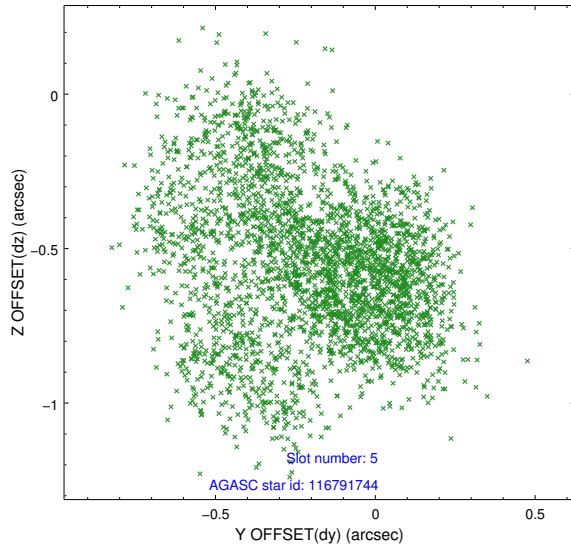
2.4.1 Slot 3



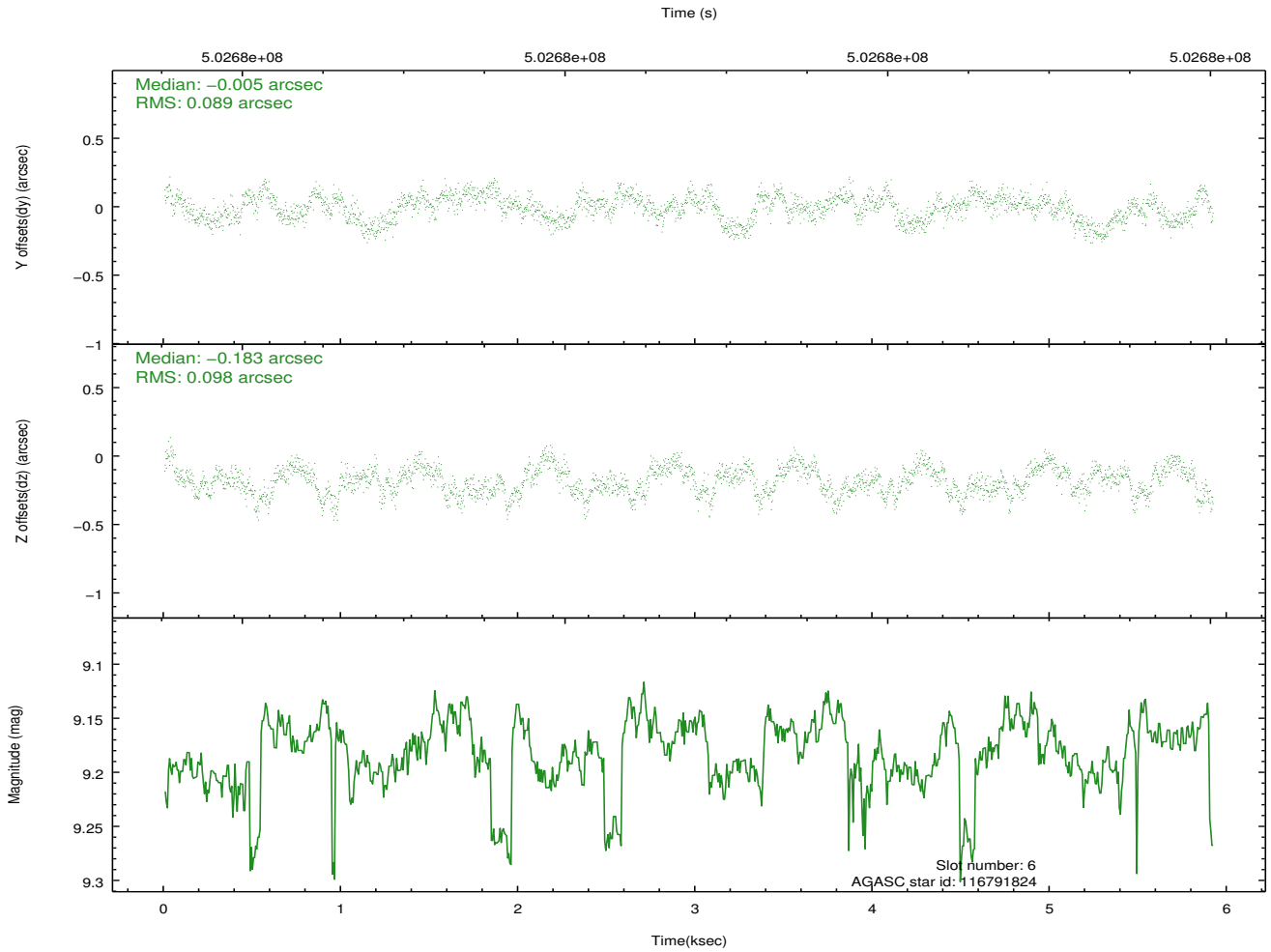
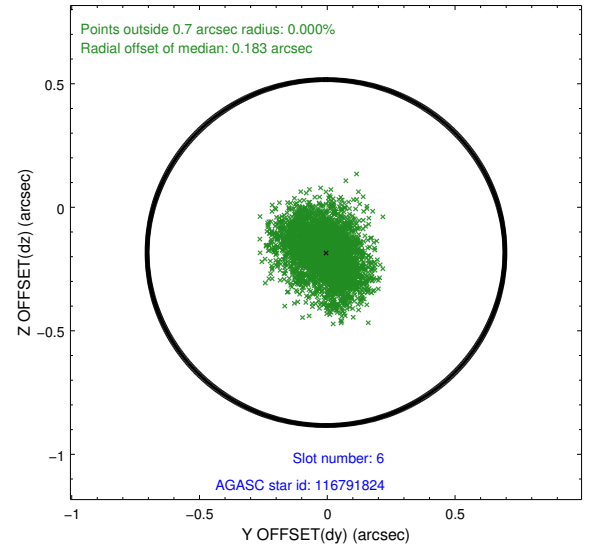
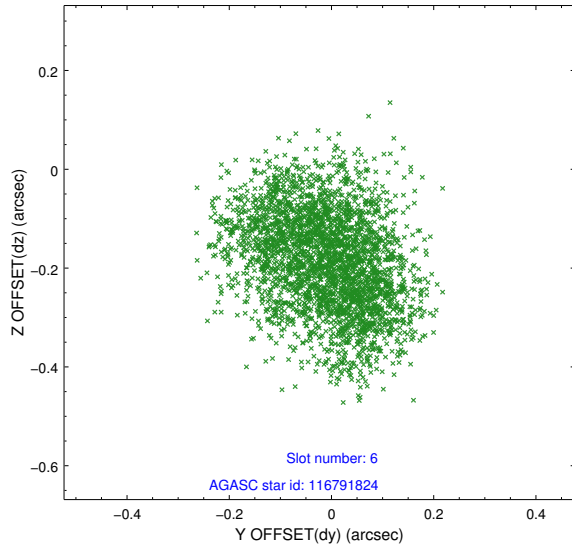
2.4.2 Slot 4



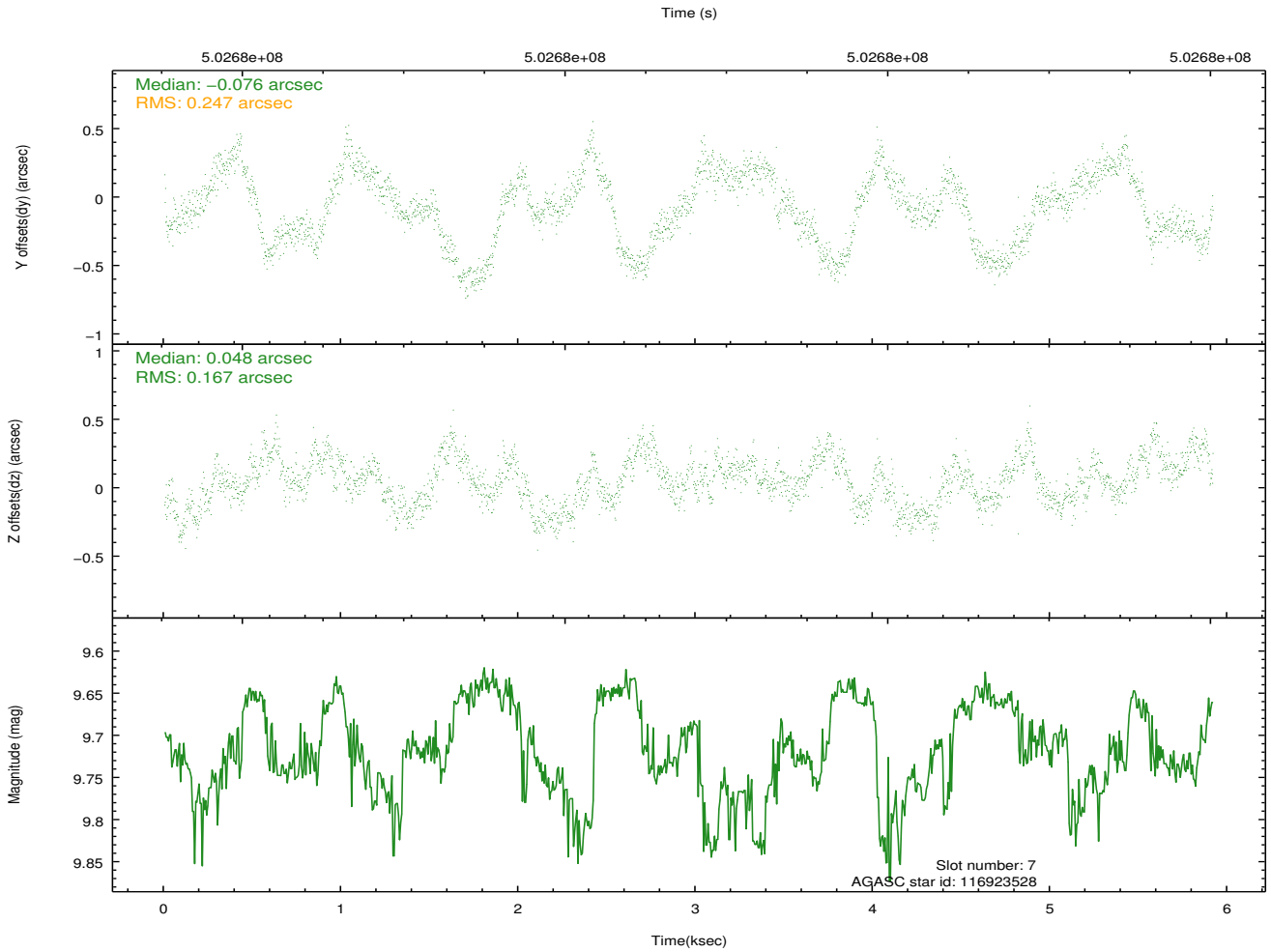
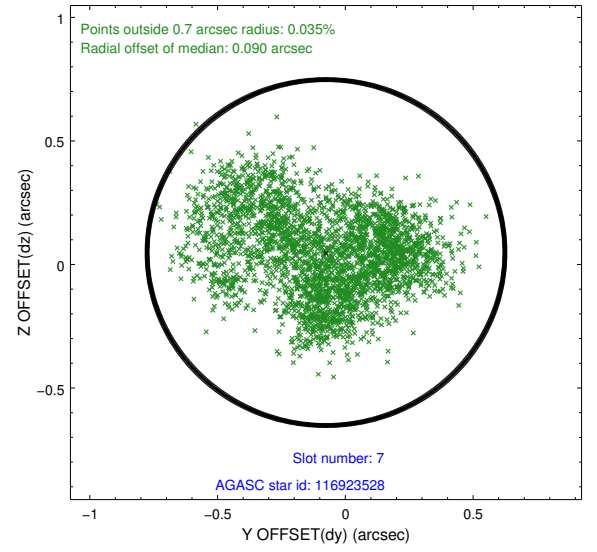
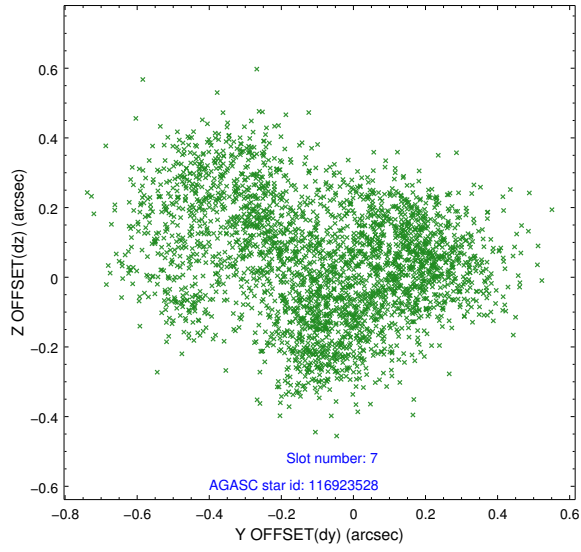
2.4.3 Slot 5



2.4.4 Slot 6

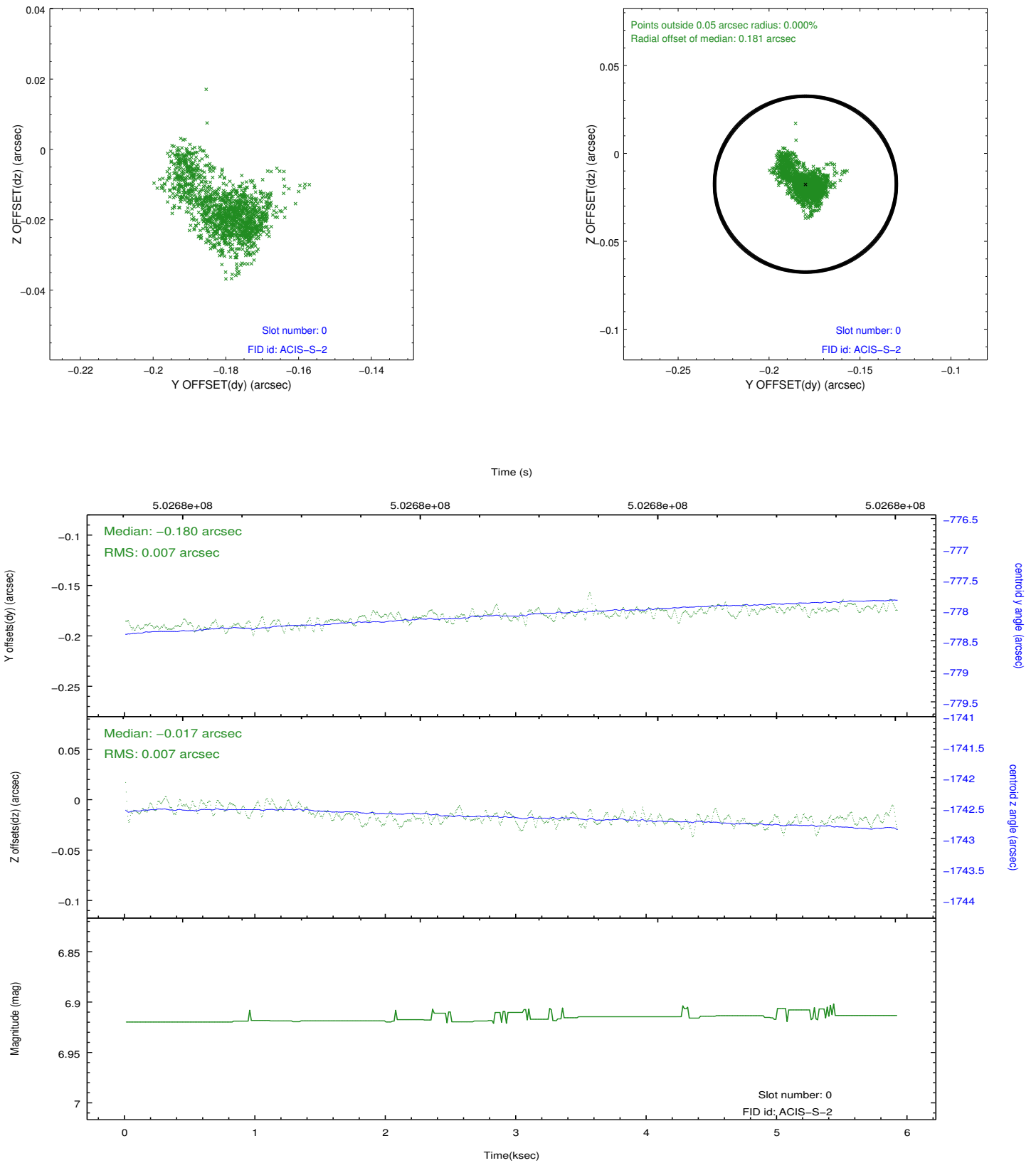


2.4.5 Slot 7

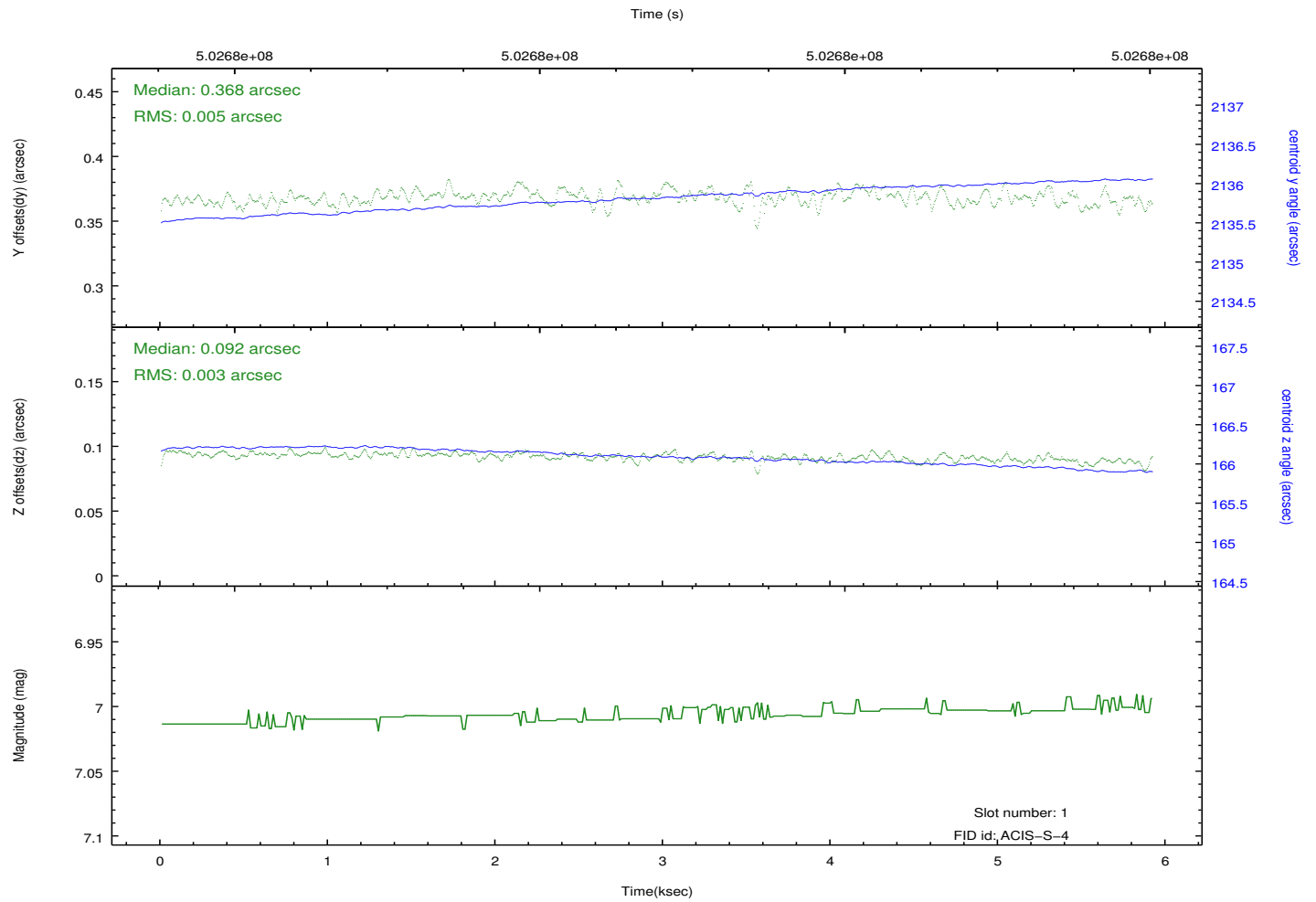
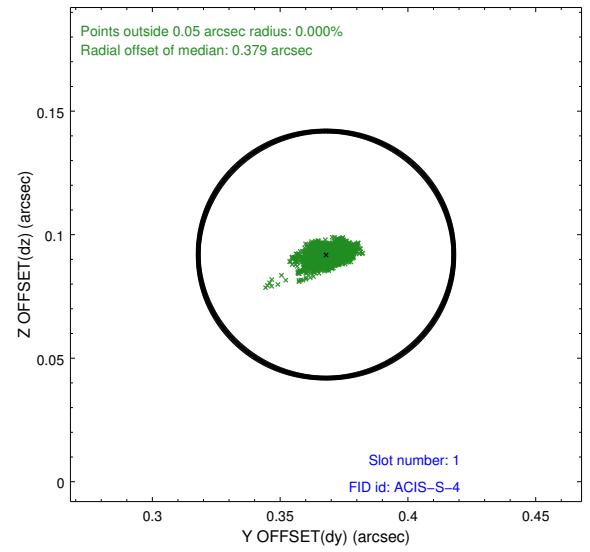
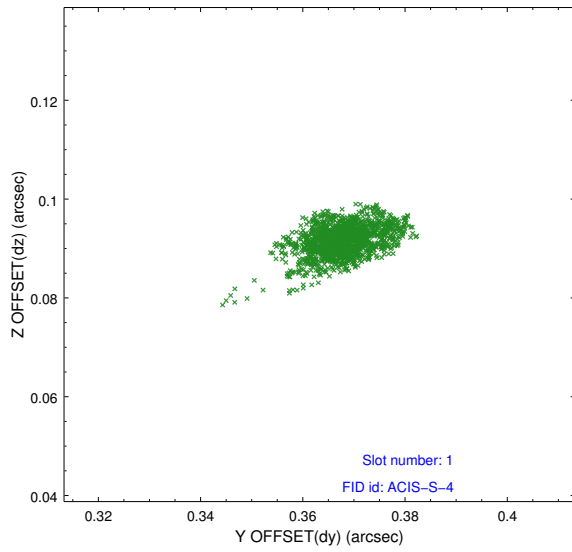


2.5 FID Slots

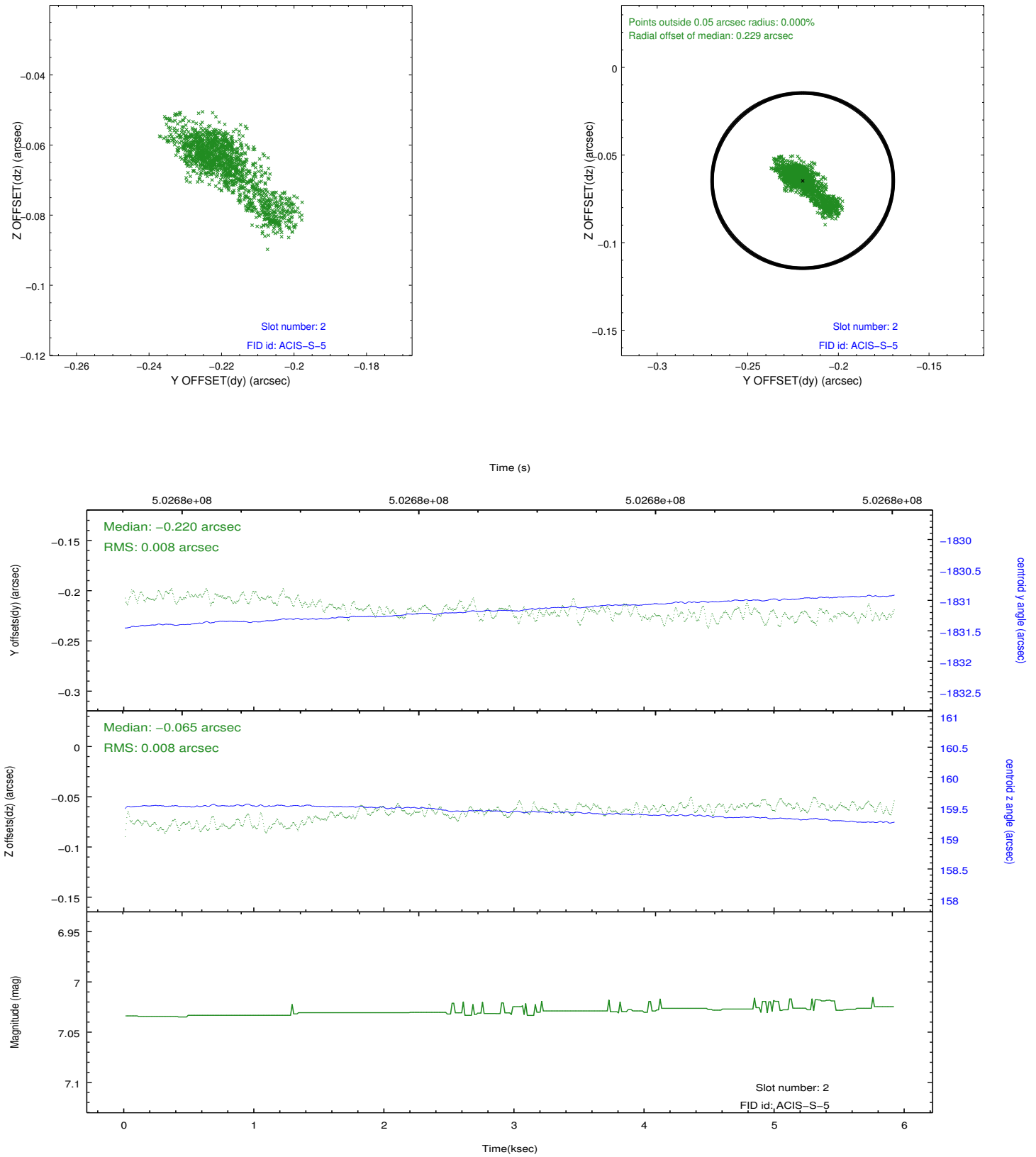
2.5.1 Slot 0



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)	2014.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9663999815583

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.