

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 14211 - L2 Version 2
Chandra X-Ray Center

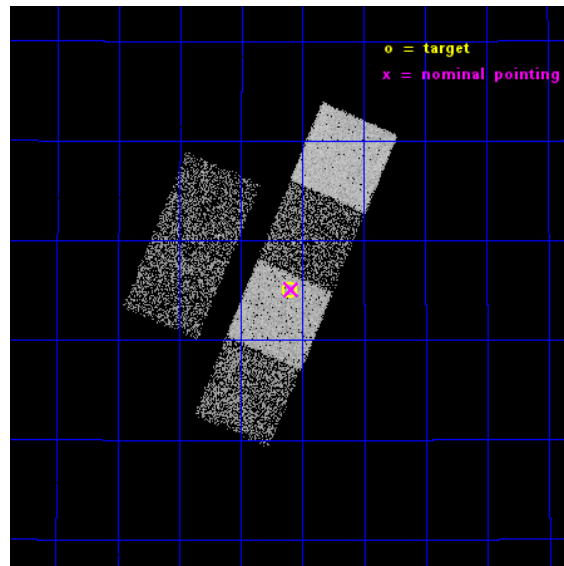
L2 Processing Date : Dec 9 2014

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1 Front

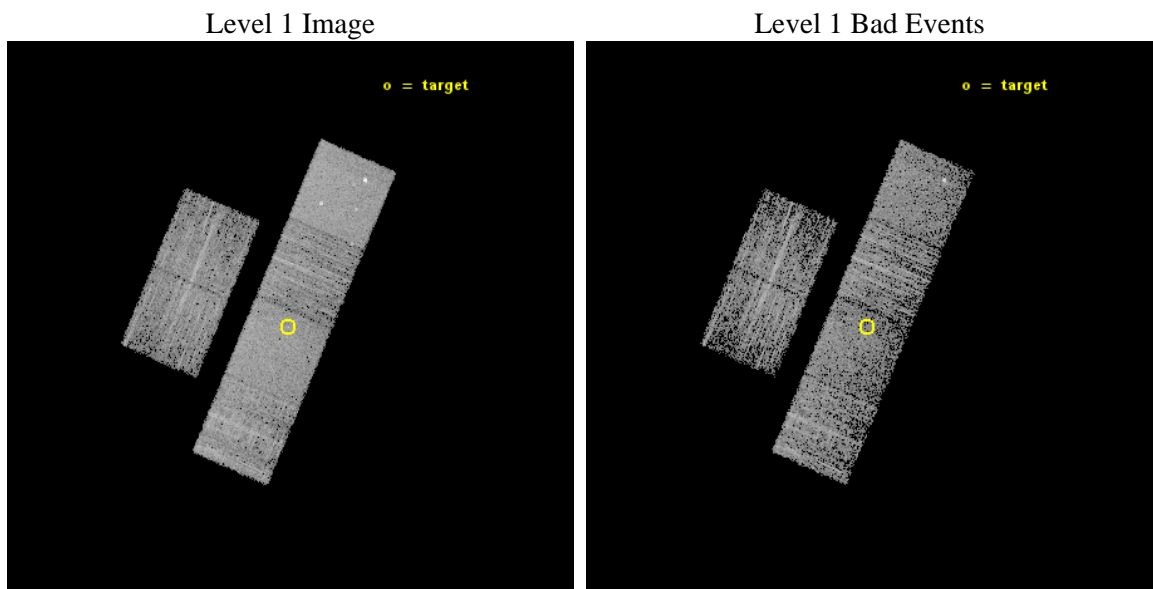
seq_num	702707	Sequence number
obs_id	14211	Observation id
title	Exploratory X-ray Monitoring of z>4 Radio-Quiet Quasars	Proposal t
observer	Prof. Ohad Shemmer	Principal investigator
object	PSS 0926+3055	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	141.65125	Observer's specified target RA [deg]
dec_targ	30.918028	Observer's specified target Dec [deg]
ra_nom	141.6477266815	Nominal RA [deg]
dec_nom	30.918547916641	Nominal Dec [deg]
roll_nom	113.12851552851	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4965.6395276189	Sum of GTIs [s]
livetime	4902.761609971	Livetime [s]
ontime2	4965.6805676222	Sum of GTIs [s]
ontime3	4965.516407609	Sum of GTIs [s]
ontime5	4965.5984876156	Sum of GTIs [s]
ontime6	4965.5574476123	Sum of GTIs [s]
ontime7	4965.6395276189	Sum of GTIs [s]
ontime8	4965.4753676057	Sum of GTIs [s]
l2events	41785	Number of level 2 events



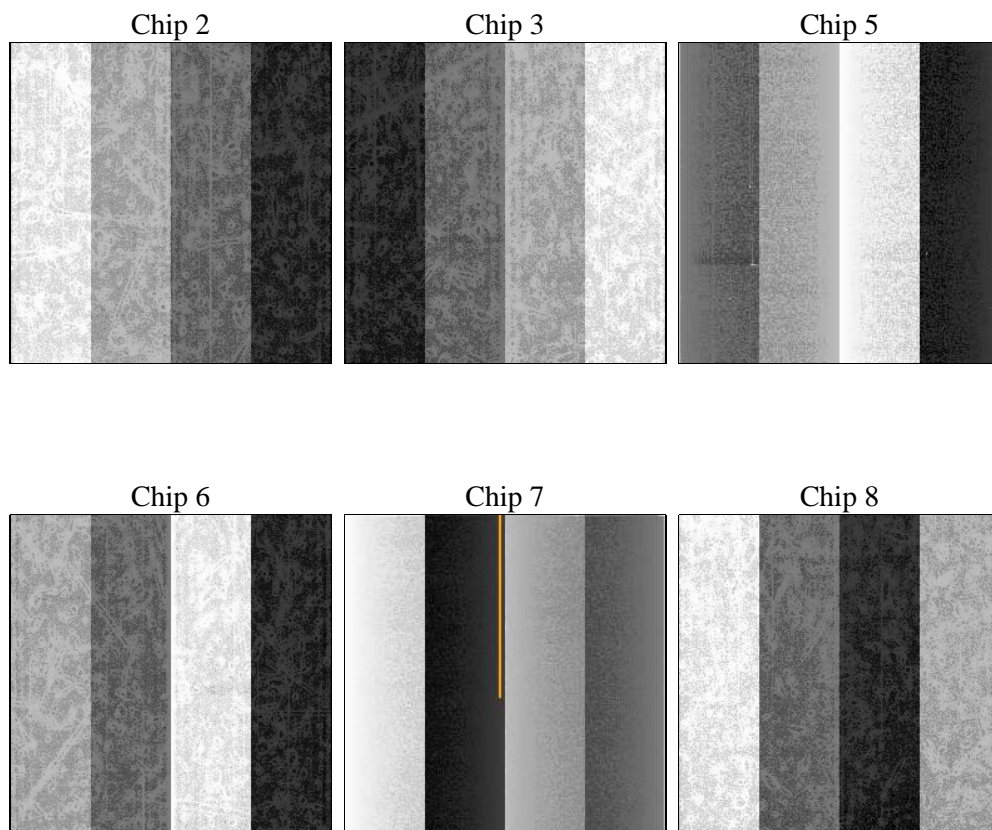
2 OBI

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	4965.6395276189	Sum of GTIs [s]
caldbver	4.6.4	 	ontime2	4965.6805676222	Sum of GTIs [s]
date	2014-12-10T01:13:34	Date and time of file creation	ontime3	4965.516407609	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	4965.5984876156	Sum of GTIs [s]
			ontime6	4965.5574476123	Sum of GTIs [s]
			ontime7	4965.6395276189	Sum of GTIs [s]
			ontime8	4965.4753676057	Sum of GTIs [s]
			l1events	176249	Number of level 1 events

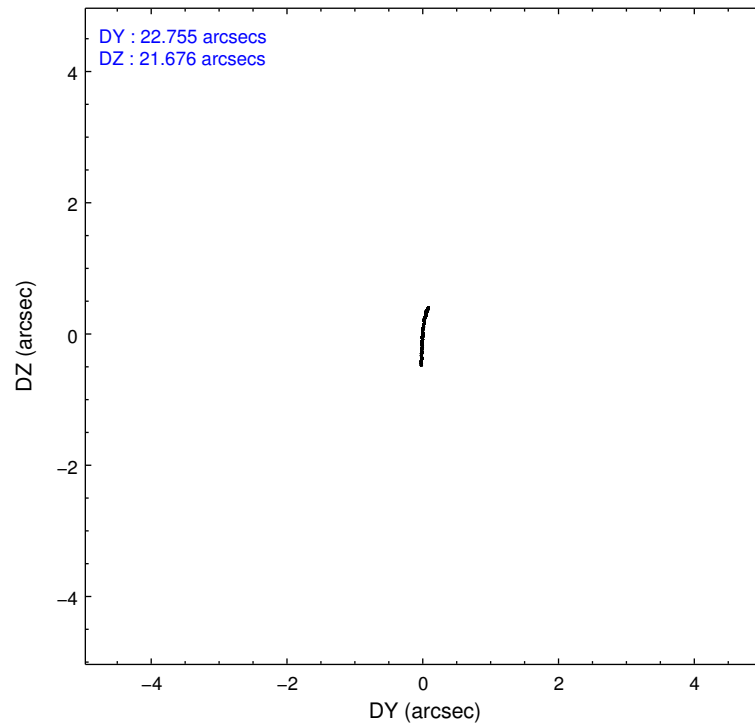
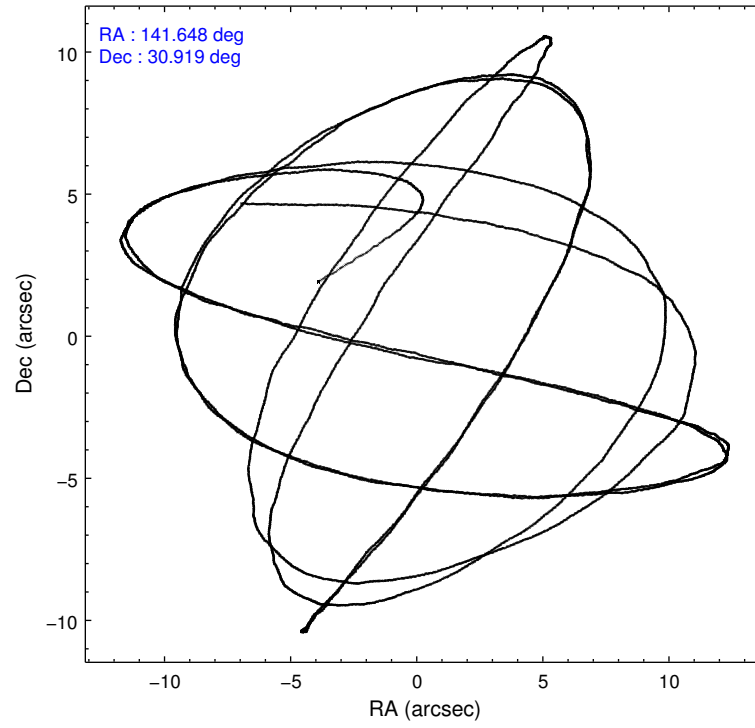
2.1.4 Events

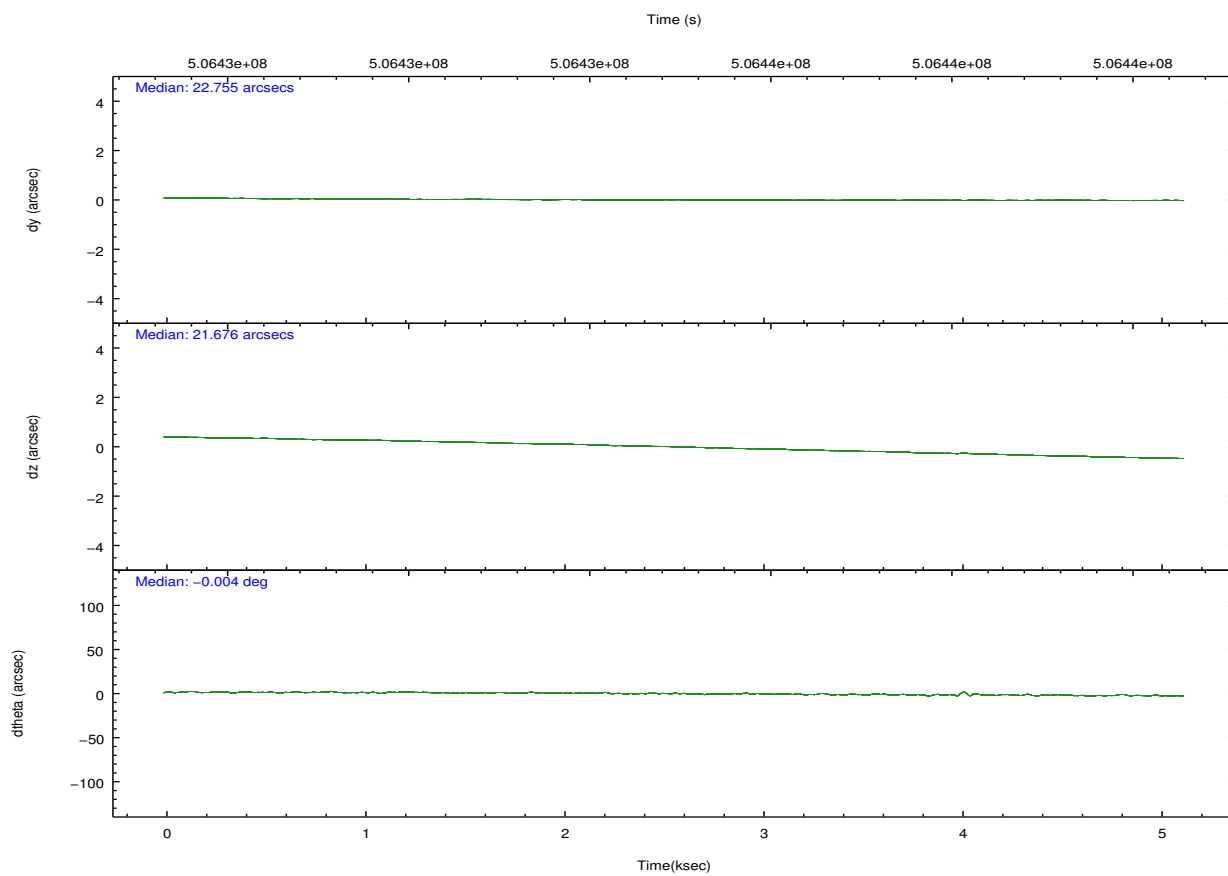
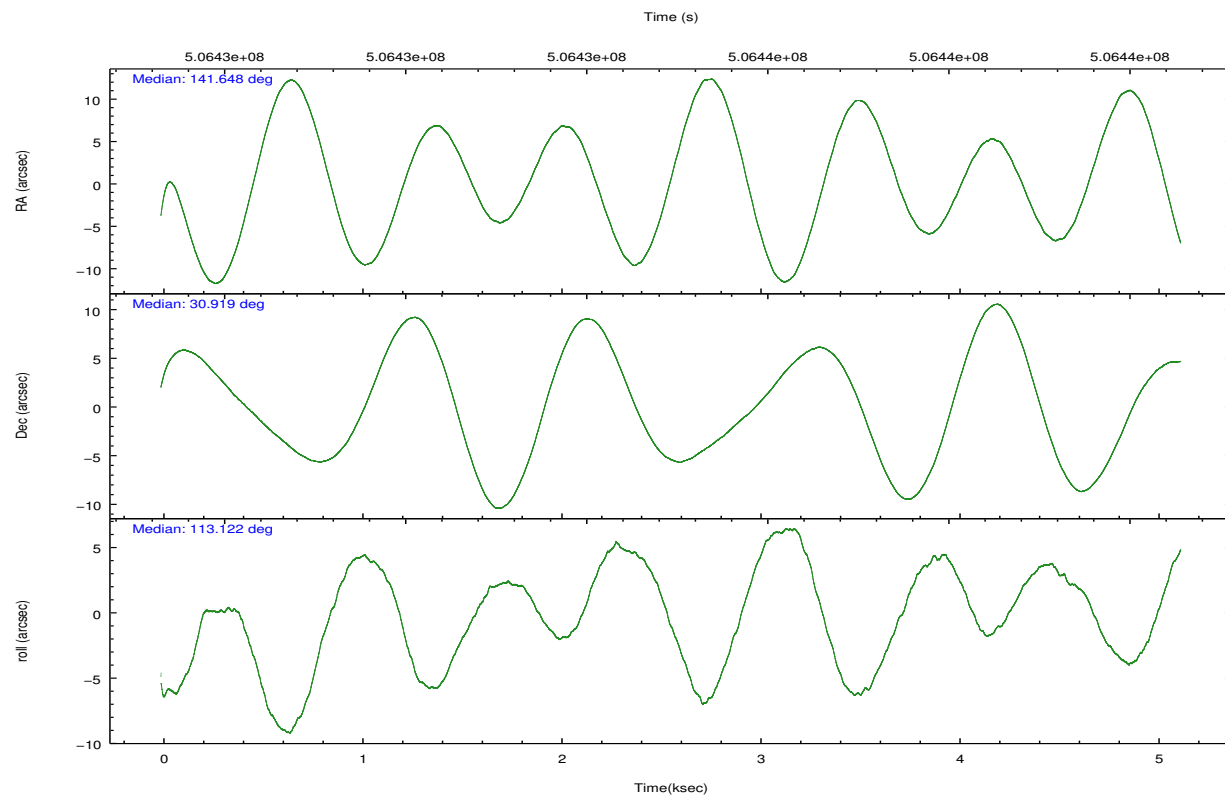
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	22646	23018	41100	25418	32618	31449	grade 0 events	968	882	2129	957	1231	2388
rejected events	19899	20448	21042	22533	18652	23210		4%	3%	5%	3%	3%	7%
rejected %	87%	88%	51%	88%	57%	73%	grade 1 events	14	15	74	18	32	33
								0%	0%	0%	0%	0%	0%
							grade 2 events	699	588	6389	644	2884	2052
								3%	2%	15%	2%	8%	6%
							grade 3 events	263	240	660	279	1209	762
								1%	1%	1%	1%	3%	2%
							grade 4 events	258	306	638	296	1163	759
								1%	1%	1%	1%	3%	2%
							grade 5 events	1066	1236	2990	1303	3395	1893
								4%	5%	7%	5%	10%	6%
							grade 6 events	560	558	10264	712	7498	2282
								2%	2%	24%	2%	22%	7%
							grade 7 events	18818	19193	17956	21209	15206	21280
								83%	83%	43%	83%	46%	67%

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	141.673522	141.6477266815041	CCD I2 on	O2	Y
[deg] Pointing Dec	30.902407	30.91854791664074	CCD I3 on	O1	Y
[deg] Pointing Roll	112.958632	113.128515528514	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)	506432013.184000	506430792.02692	CCD S5 on	N	N
Observation start date	2014-01-18T11:32:26	2014-01-18T11:13:12	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	506437013.184000	506437751.2648	On-chip summing requested	N	N
Observation end date	2014-01-18T12:55:46	2014-01-18T13:09:11	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



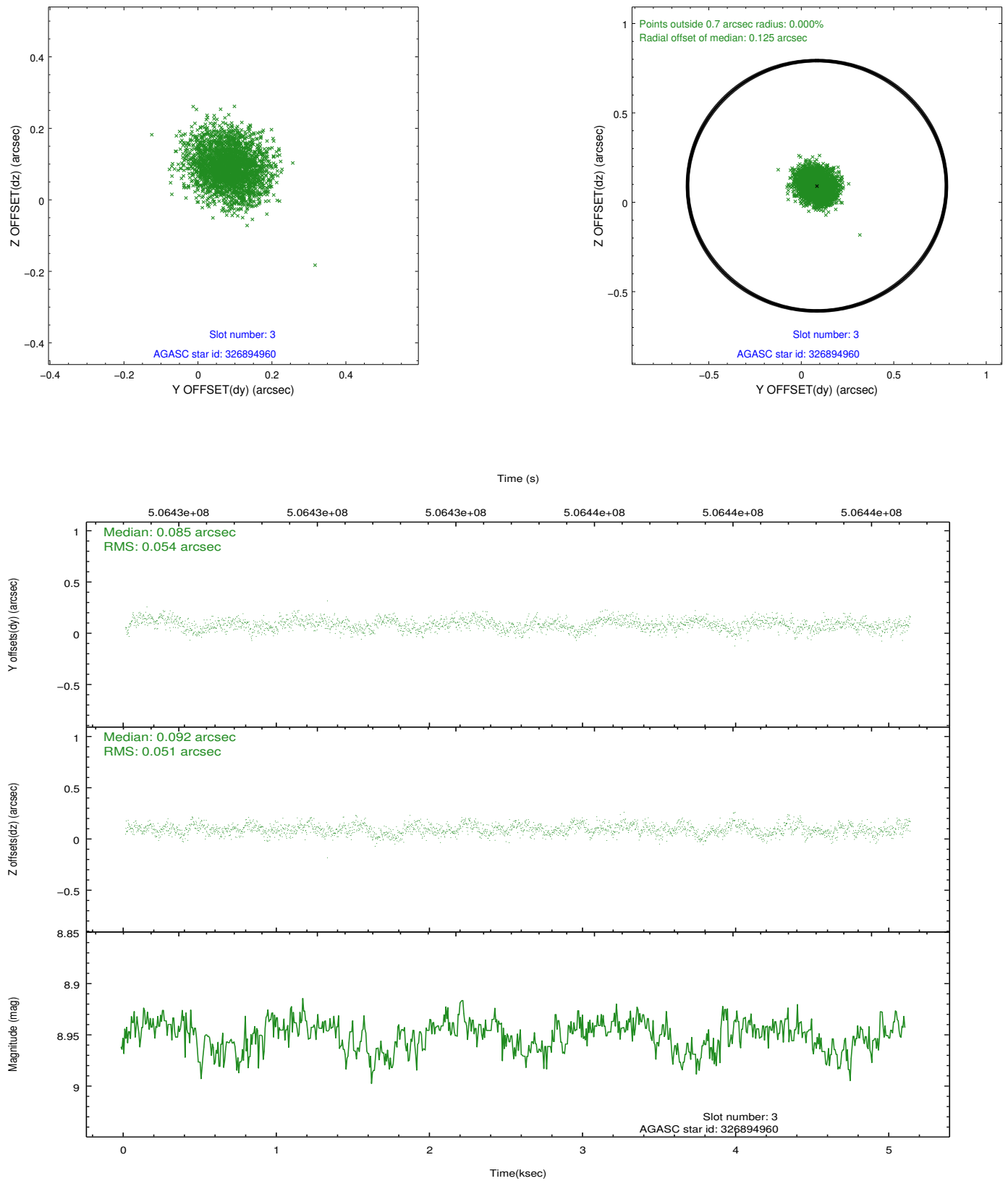


Slot Statistics

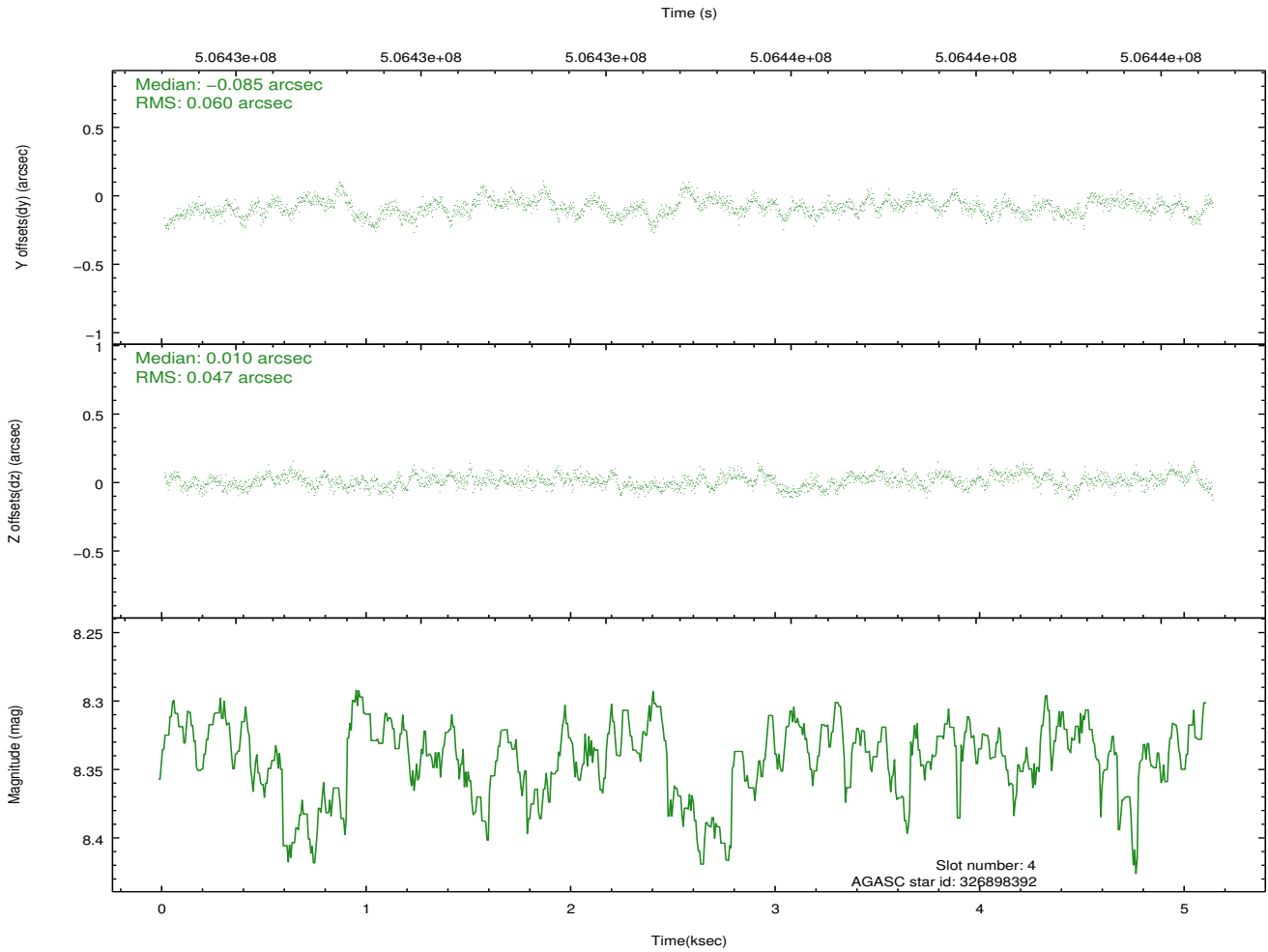
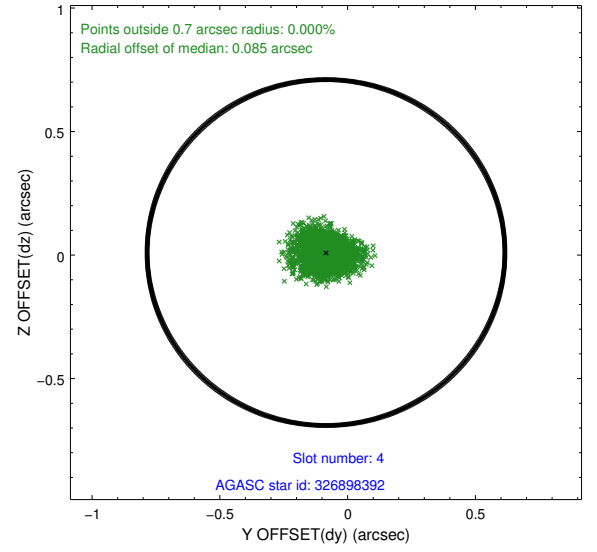
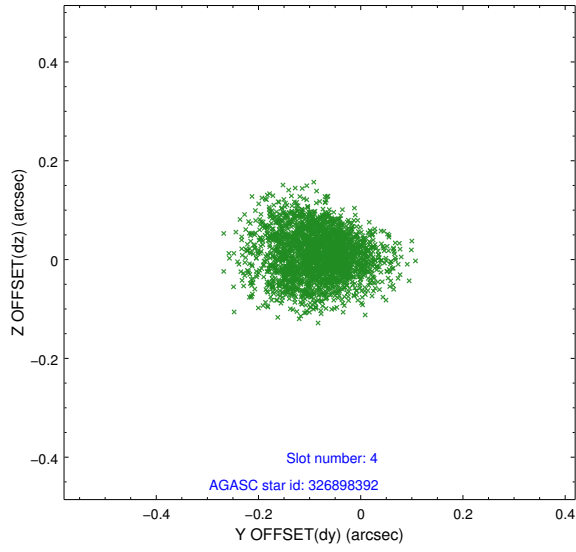
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-4	7.01	1250	0.197	-0.012	0.006	0.010	0.000000	0.000000	2137.60	165.43
1	FID		ACIS-S-5	7.06	1250	-0.220	-0.009	0.006	0.009	0.000000	0.000000	-1827.50	159.03
2	FID		ACIS-S-6	7.15	1250	-0.006	0.035	0.008	0.014	0.000000	0.000000	384.36	802.81
3	GUIDE	used	326894960	8.95	2500	0.085	0.092	0.080	0.125	141.736989	30.296358	-2086.41	669.63
4	GUIDE	used	326898392	8.34	2501	-0.085	0.010	0.081	0.133	141.640946	31.182886	967.49	-301.21
5	GUIDE	used	326899216	9.22	2499	0.053	-0.124	0.129	0.213	141.627351	30.776310	-361.71	308.47
6	GUIDE	used	326899384	8.94	2497	-0.057	0.139	0.095	0.154	141.976290	31.465042	1502.79	-1645.44
7	GUIDE	used	326903944	7.61	2498	0.000	-0.120	0.071	0.116	141.372366	30.493208	-993.14	1433.87

2.4 Star Slots

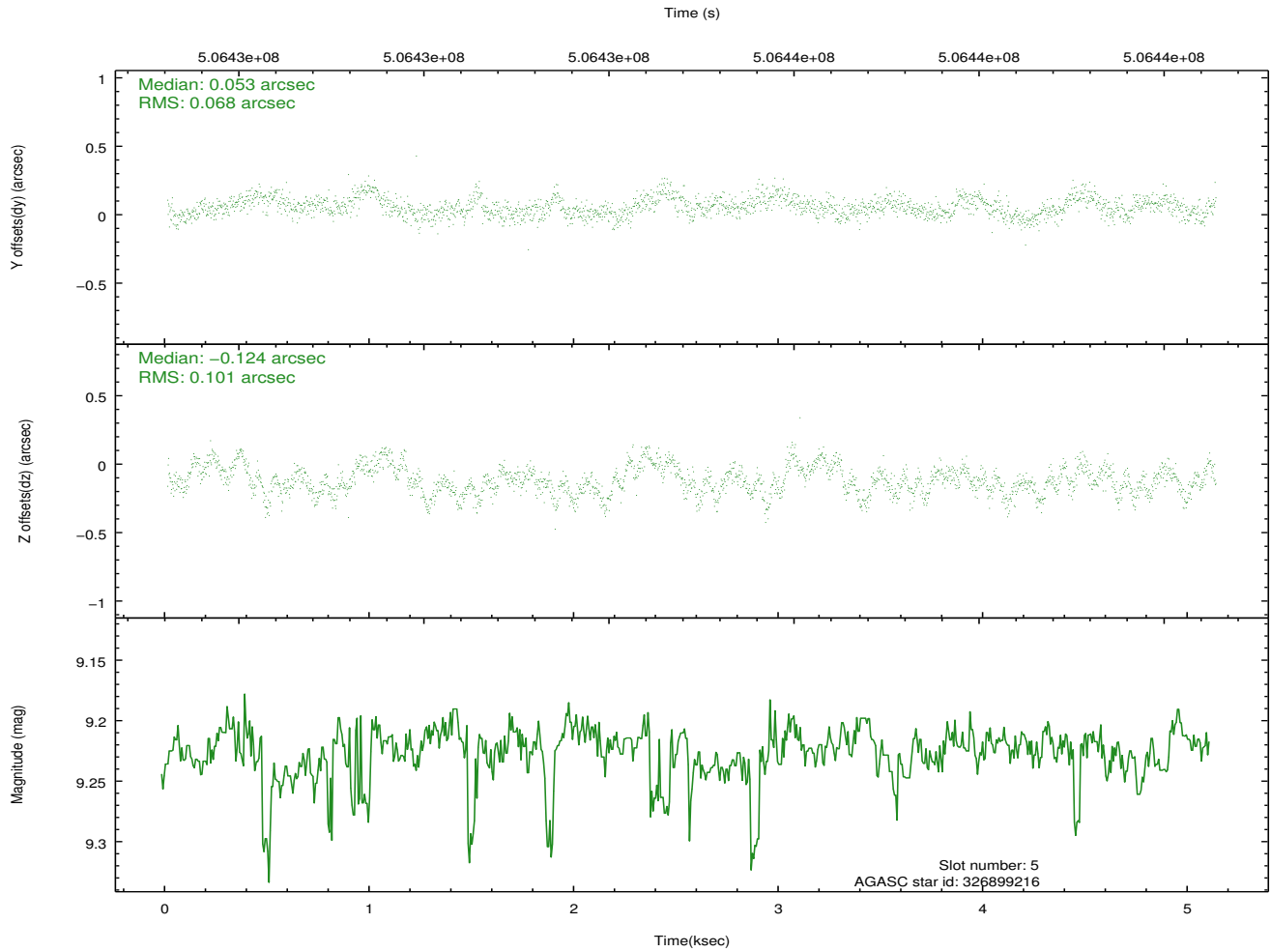
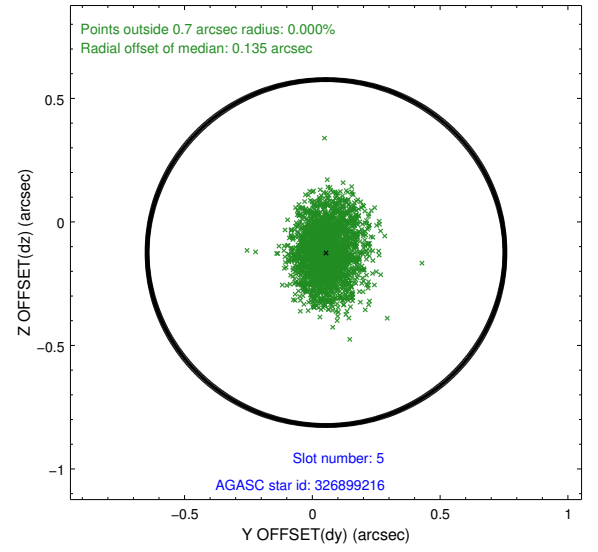
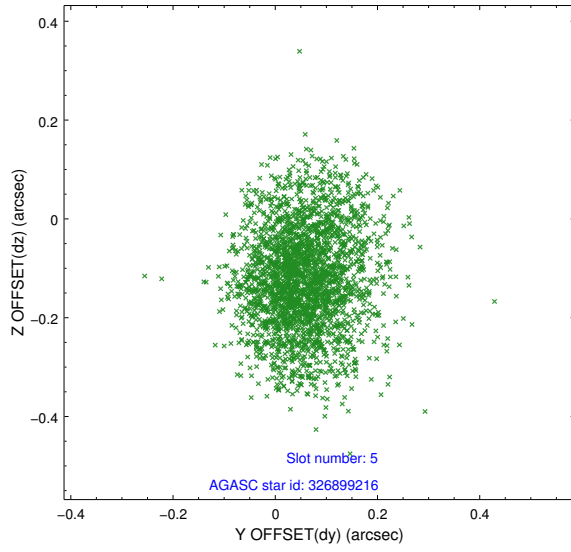
2.4.1 Slot 3



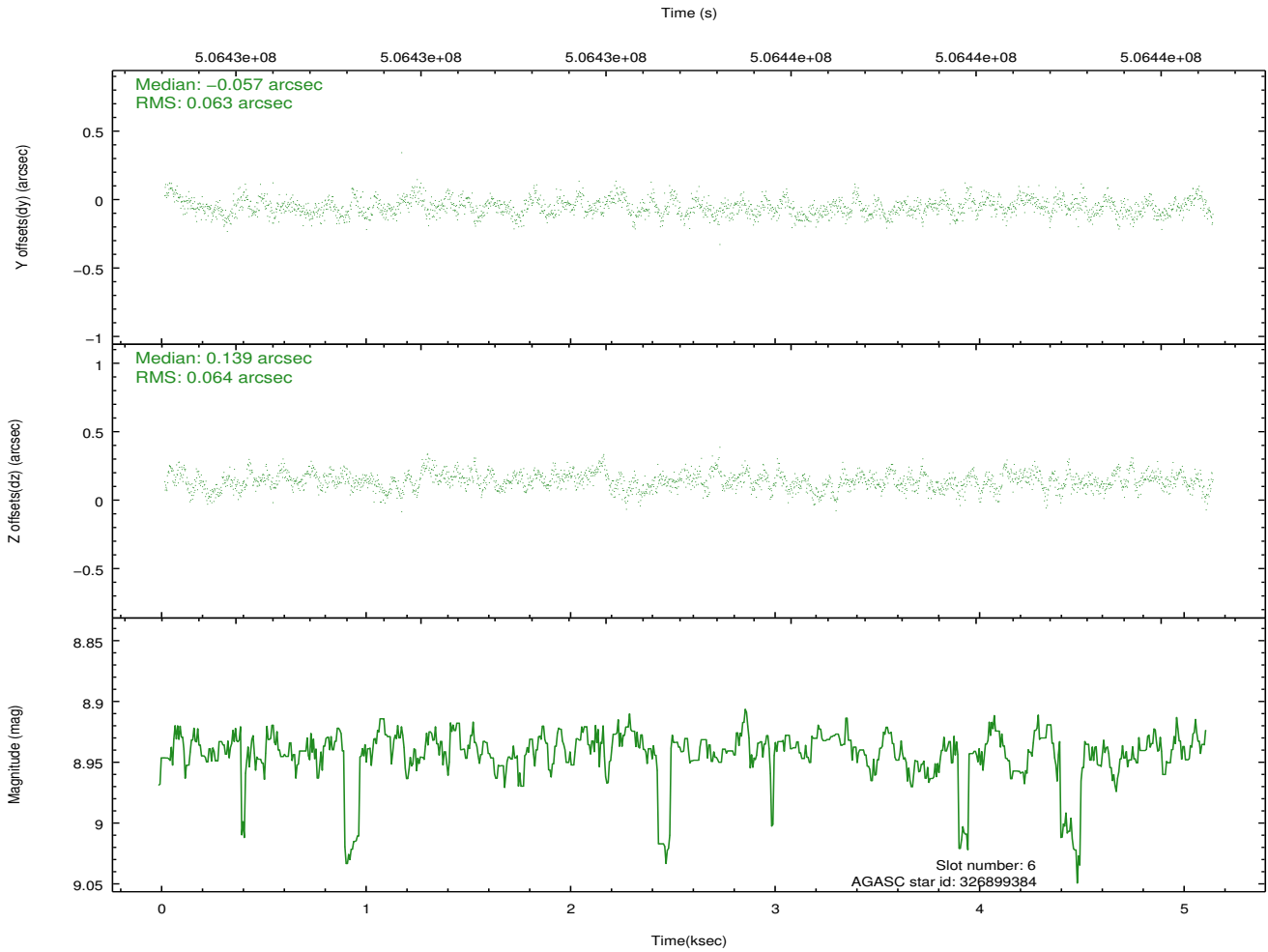
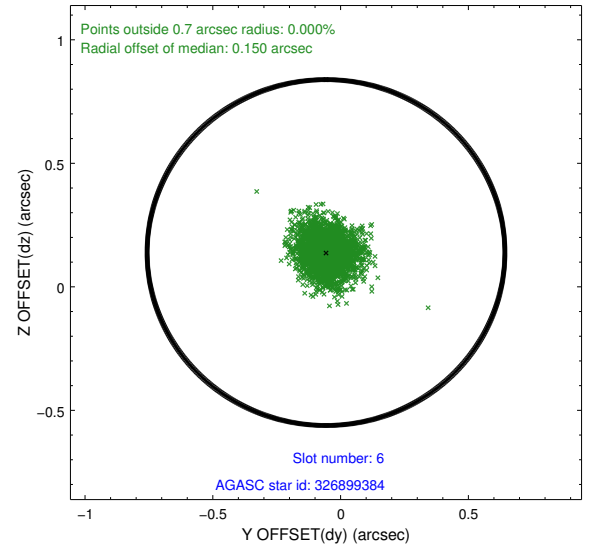
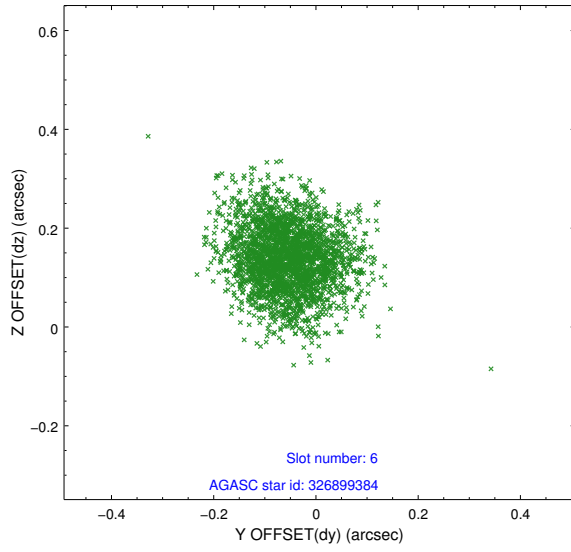
2.4.2 Slot 4



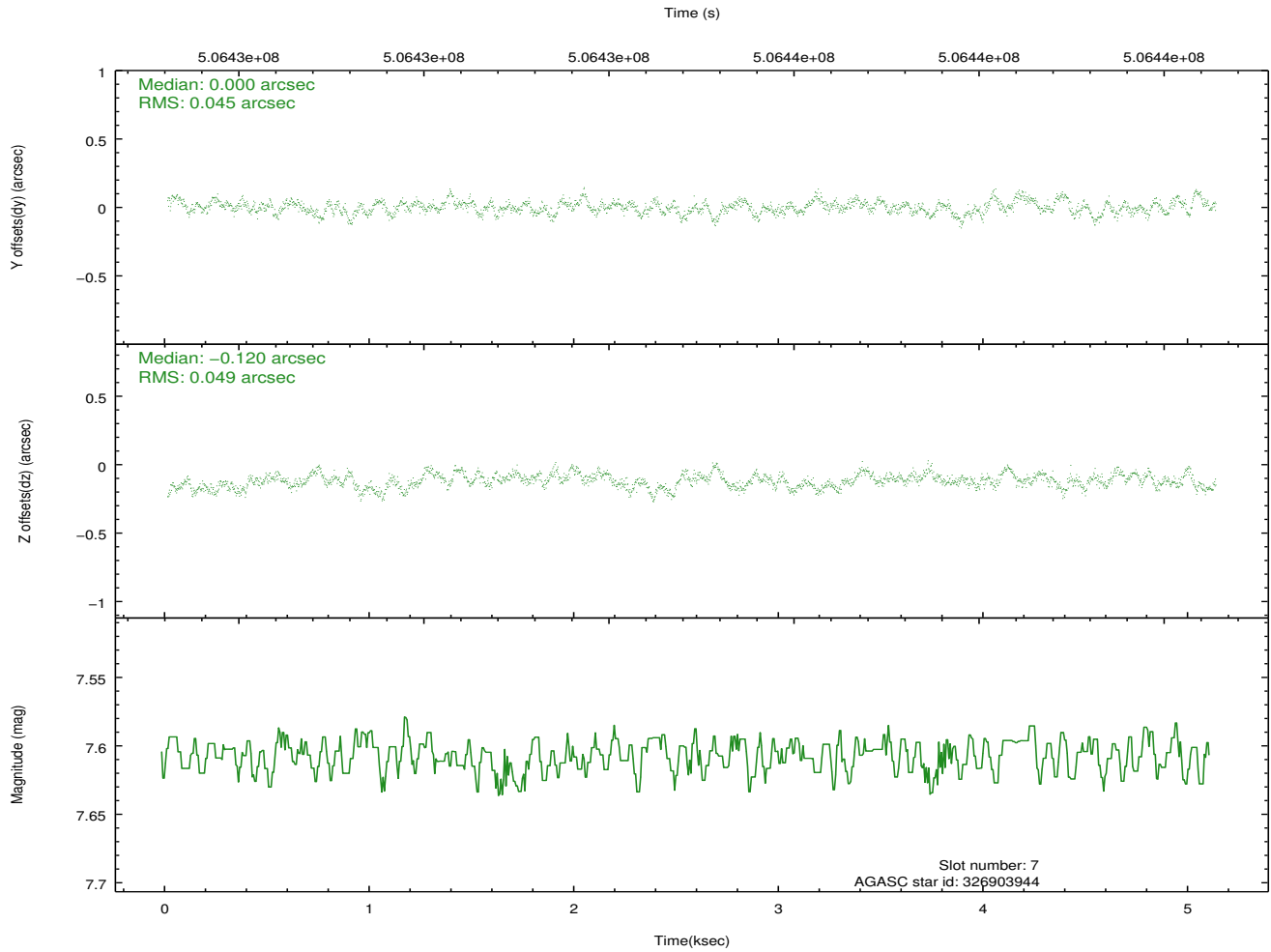
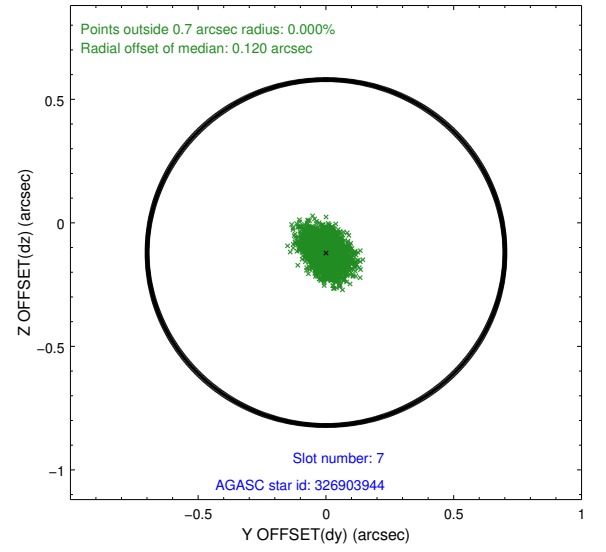
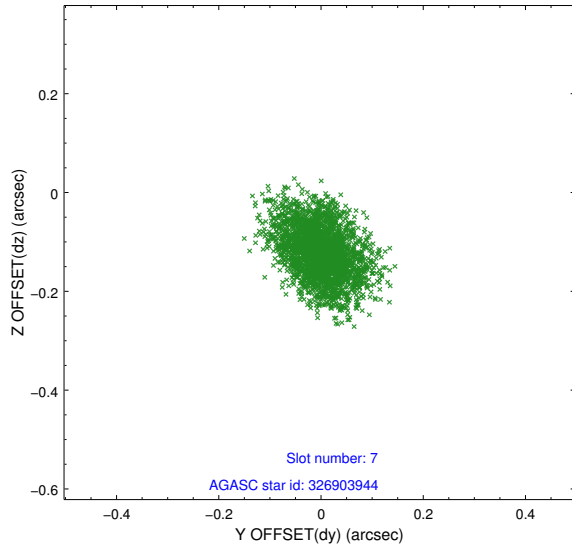
2.4.3 Slot 5



2.4.4 Slot 6

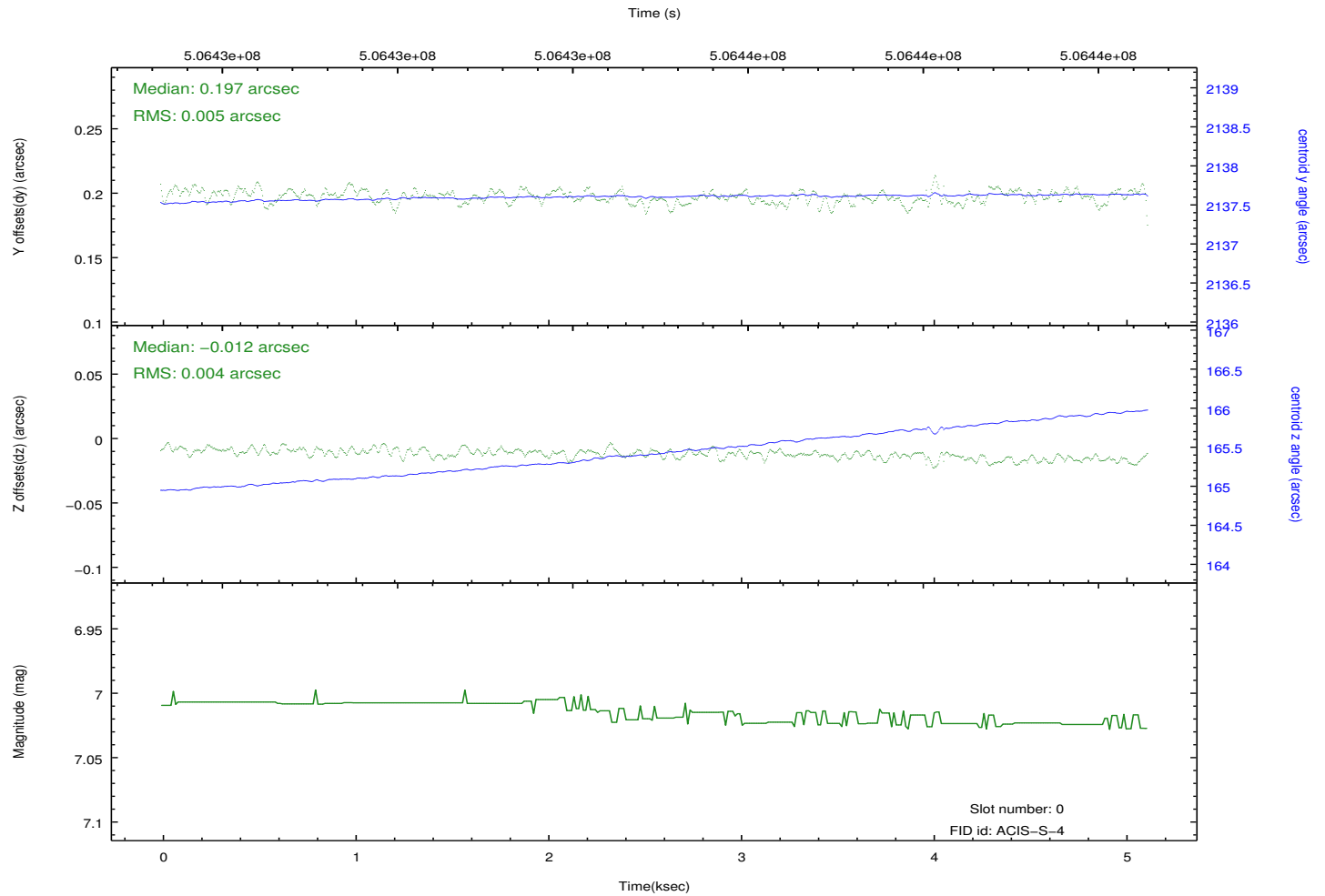
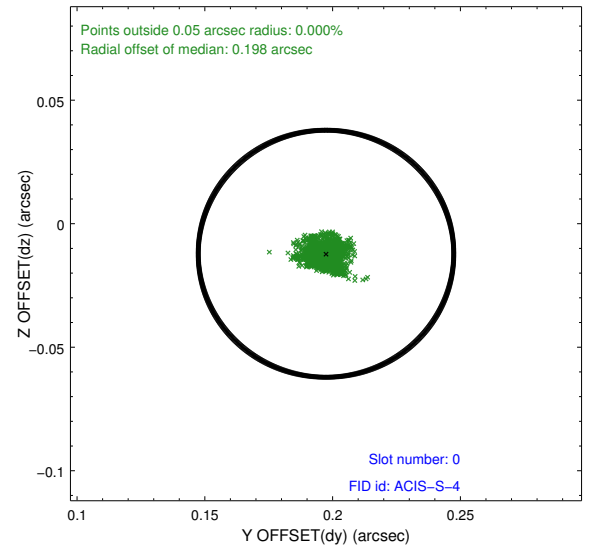
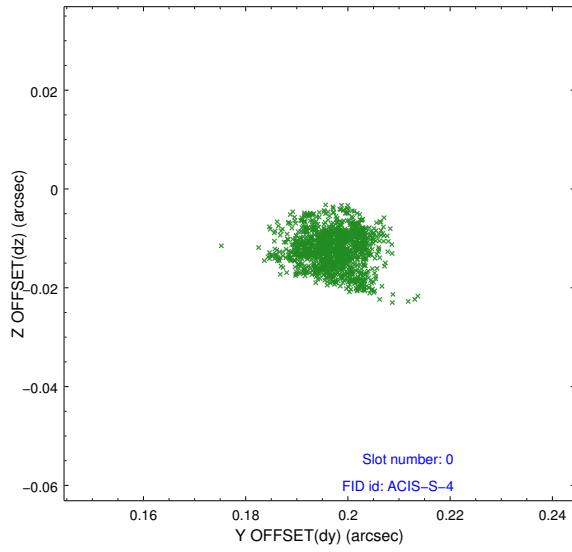


2.4.5 Slot 7

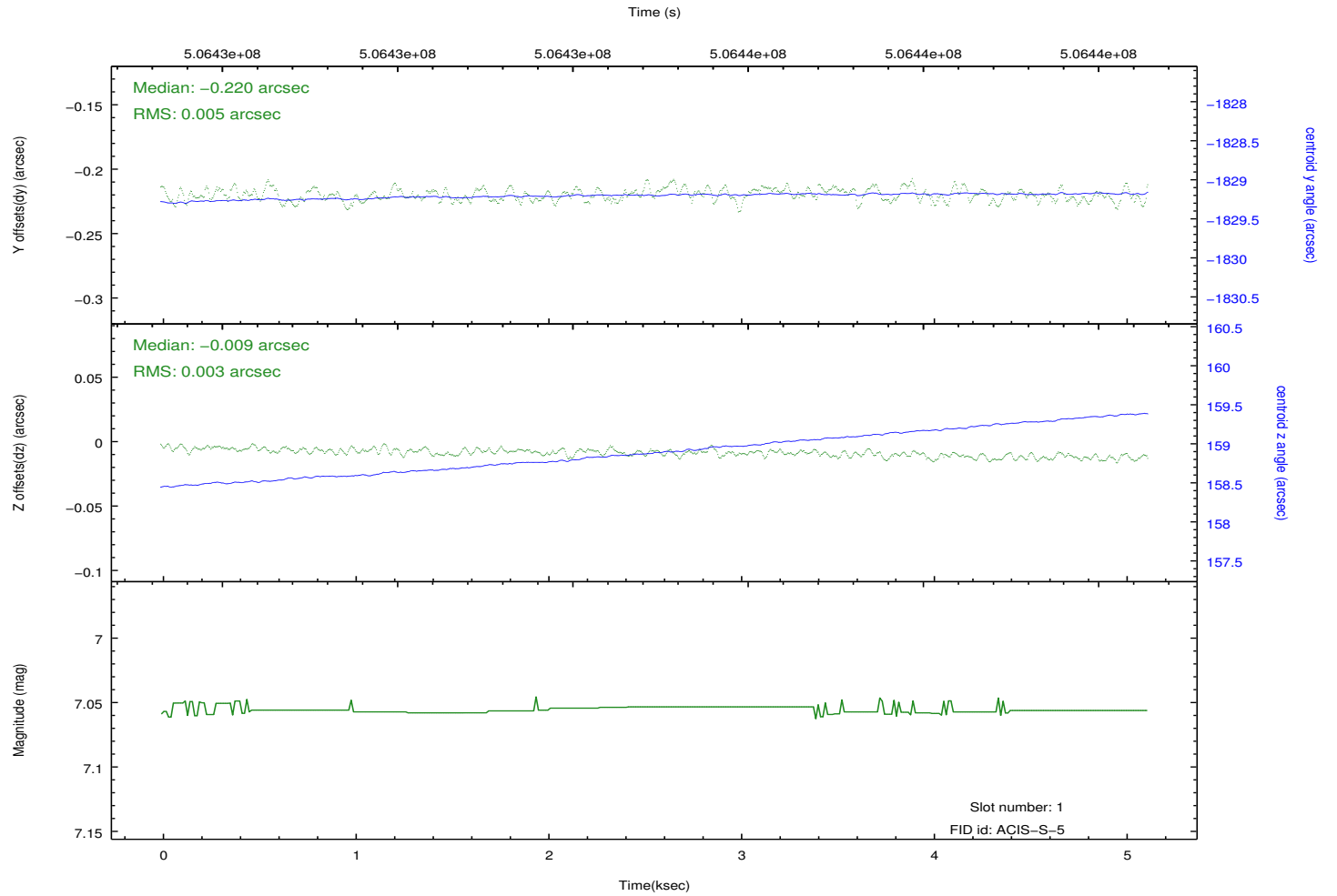
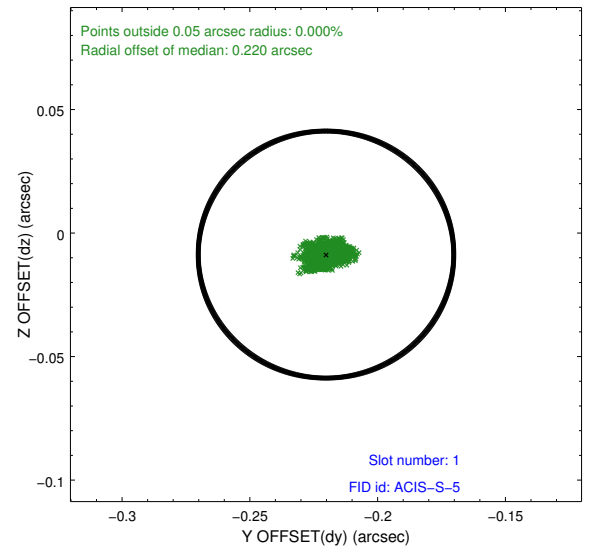
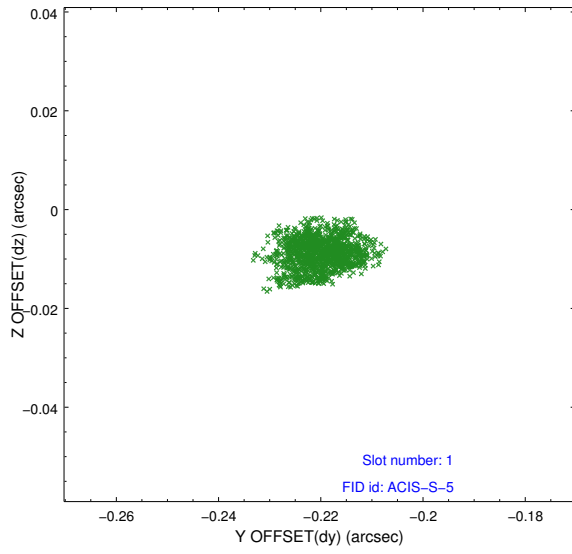


2.5 FID Slots

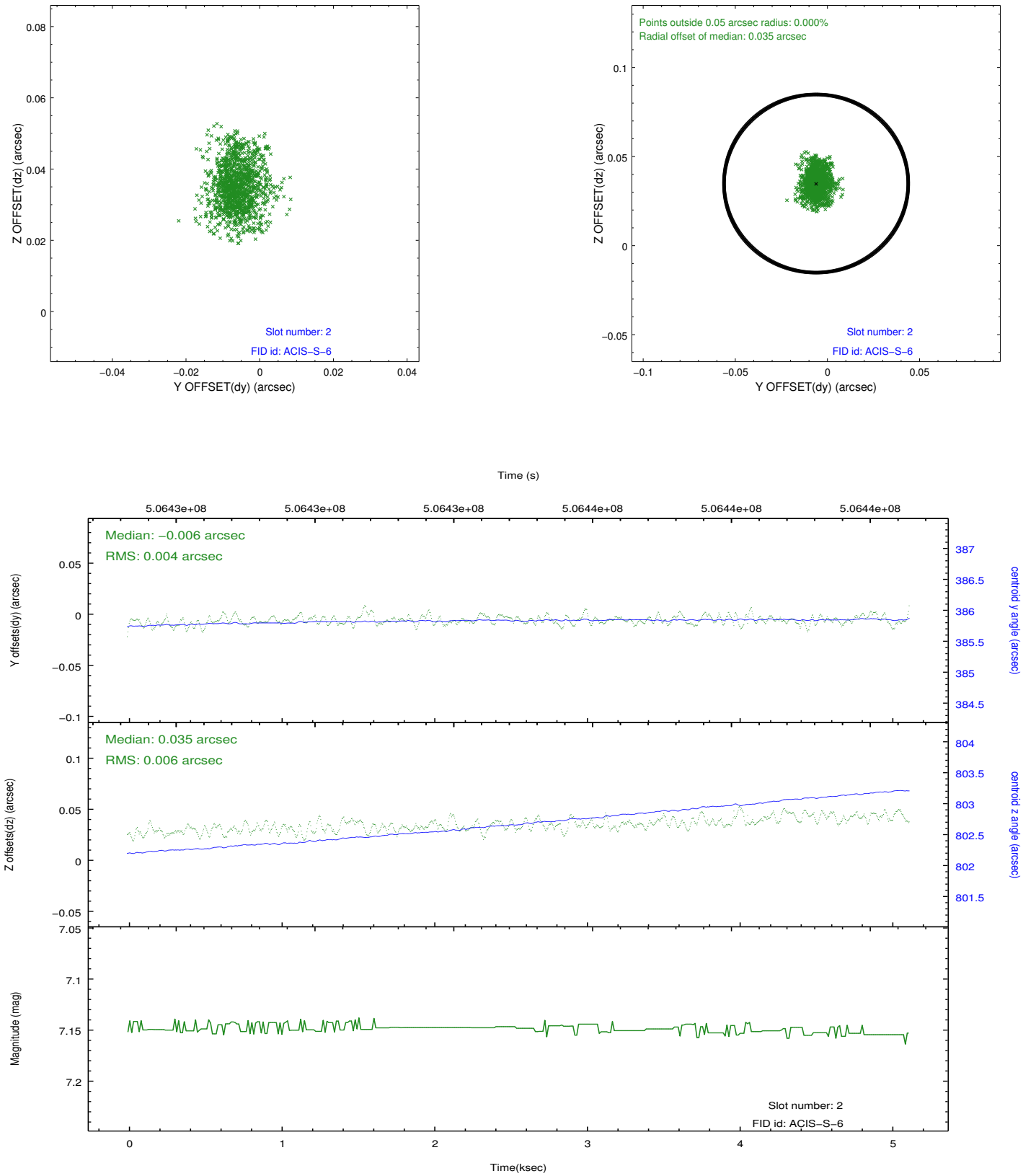
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.9656395276189

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.