

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13669 - L2 Version 2
Chandra X-Ray Center

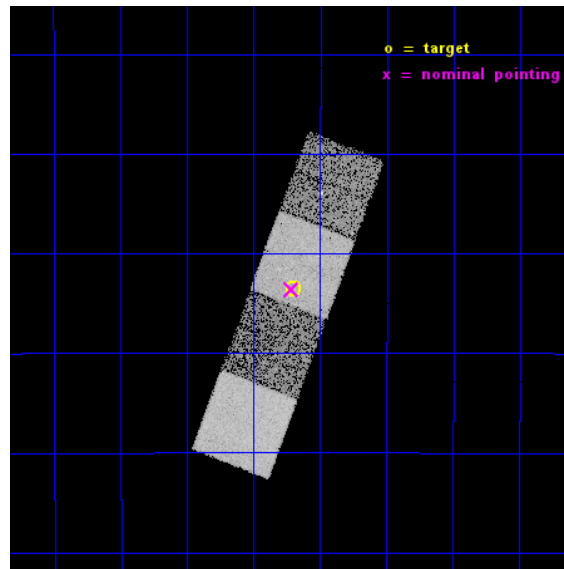
L2 Processing Date : Nov 28 2014

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1 Front

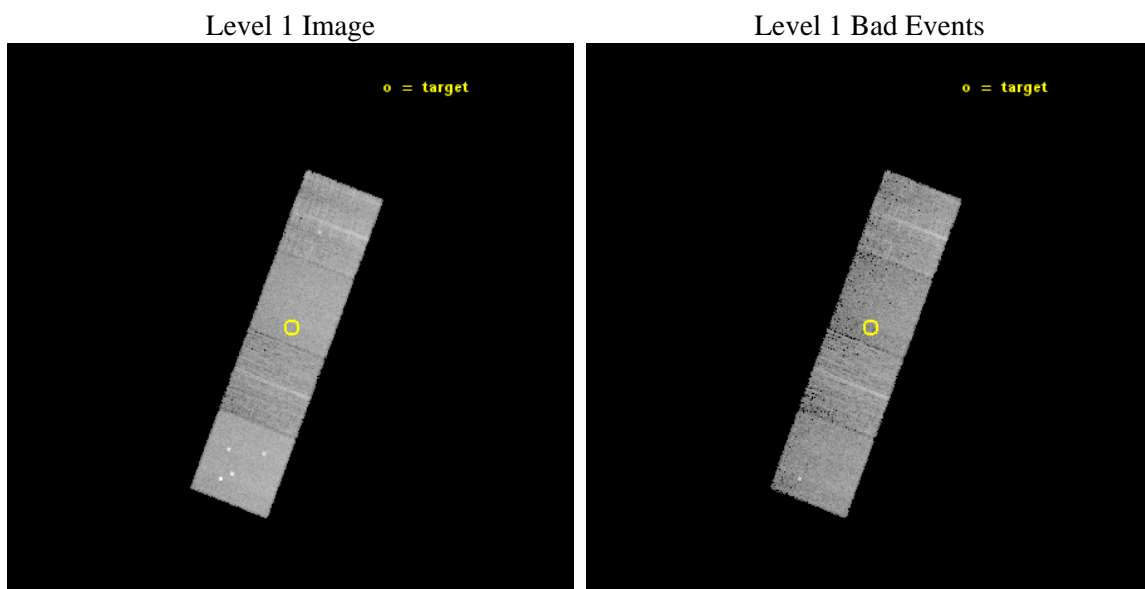
seq_num	200819	Sequence number
obs_id	13669	Observation id
title	Testing Star-Planet Interaction in Solar Analogs	Proposal title
observer	Brendan Miller	Principal investigator
object	HD 204313	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	322.050833	Observer's specified target RA [deg]
dec_targ	-21.72625	Observer's specified target Dec [deg]
ra_nom	322.05403242135	Nominal RA [deg]
dec_nom	-21.726863680791	Nominal Dec [deg]
roll_nom	290.80015959353	Nominal Roll [deg]
revision	2	Processing version of data
ontime	9810.6410643458	Sum of GTIs [s]
livetime	9682.4578163513	Livetime [s]
ontime5	9810.6000243425	Sum of GTIs [s]
ontime6	9810.5589843392	Sum of GTIs [s]
ontime7	9810.6410643458	Sum of GTIs [s]
ontime8	9810.5179443359	Sum of GTIs [s]
l2events	79780	Number of level 2 events



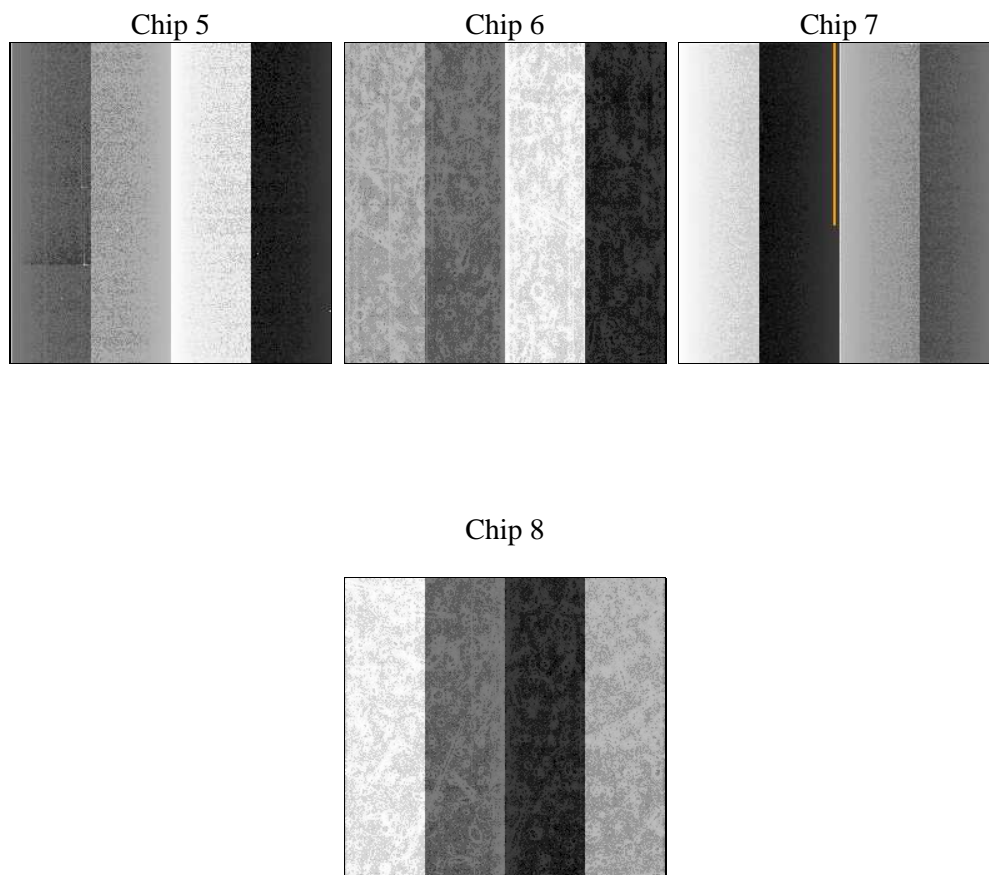
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9739.813000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	9810.6410643458	Sum of GTIs [s]
caldbver	4.6.4	 	ontime5	9810.6000243425	Sum of GTIs [s]
date	2014-11-28T23:51:20	Date and time of file creation	ontime6	9810.5589843392	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	9810.6410643458	Sum of GTIs [s]
			ontime8	9810.5179443359	Sum of GTIs [s]
			l1events	276000	Number of level 1 events

2.1.4 Events

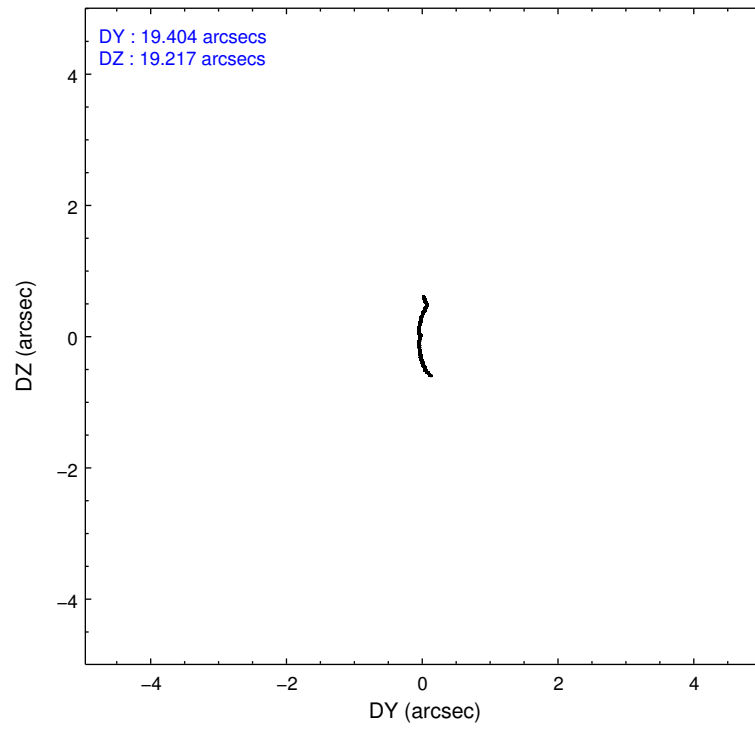
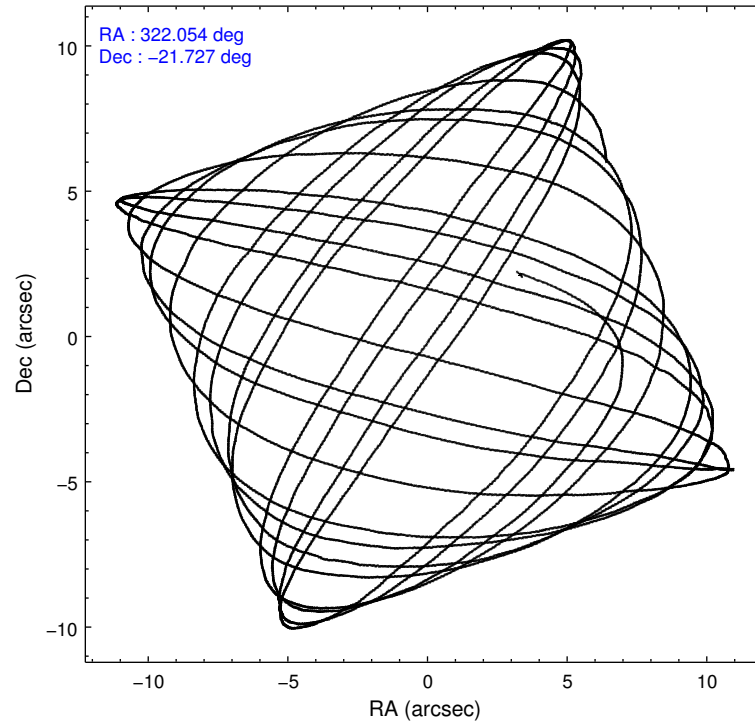
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	87008	51200	67767	70025
rejected events	43349	44848	37918	50959
rejected %	49%	87%	55%	72%

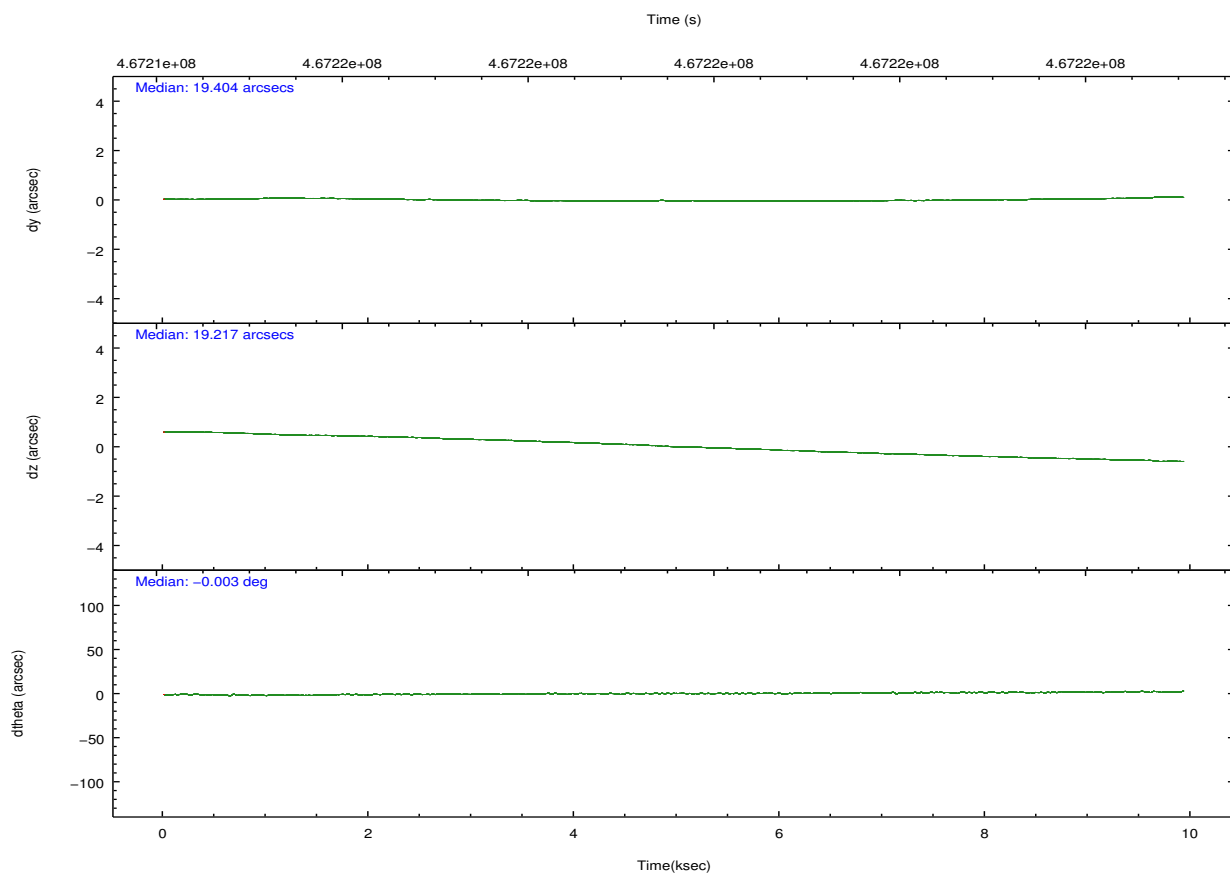
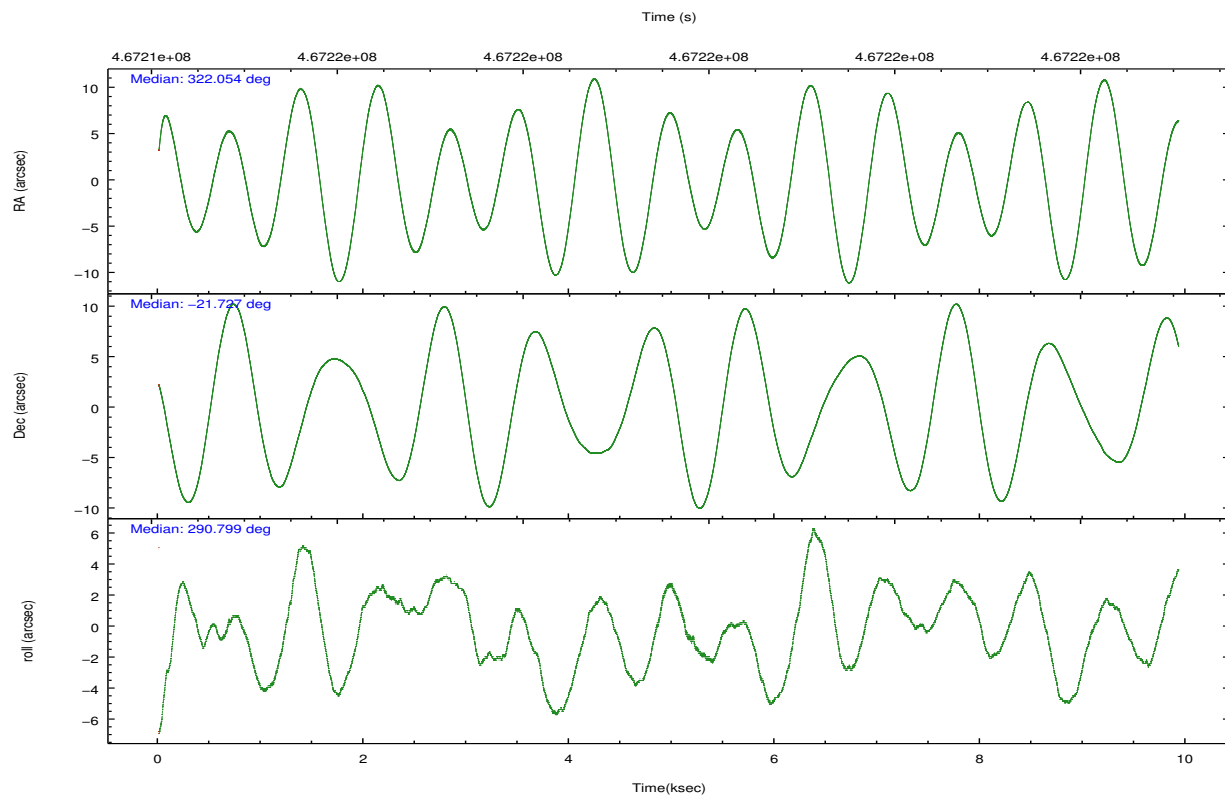
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	6227	2260	2665	5990
	7%	4%	3%	8%
grade 1 events	142	24	105	47
	0%	0%	0%	0%
grade 2 events	12967	1408	6149	4348
	14%	2%	9%	6%
grade 3 events	1557	609	2527	1919
	1%	1%	3%	2%
grade 4 events	1387	669	2624	1837
	1%	1%	3%	2%
grade 5 events	6372	2553	6986	3835
	7%	4%	10%	5%
grade 6 events	21544	1410	15901	4983
	24%	2%	23%	7%
grade 7 events	36812	42267	30810	47066
	42%	82%	45%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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	322.030962	322.0540324213535	CCD I2 on	N	N
[deg] Pointing Dec	-21.709869	-21.72686368079079	CCD I3 on	N	N
[deg] Pointing Roll	290.635002	290.8001595935309	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O2	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	O3	Y
[s] Observation start time (MET)	467214792.184000	467213555.99681	CCD S5 on	N	N
Observation start date	2012-10-21T13:52:05	2012-10-21T13:32:35	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	467224532.184000	467224758.22241	On-chip summing requested	N	N
Observation end date	2012-10-21T16:34:25	2012-10-21T16:39:18	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



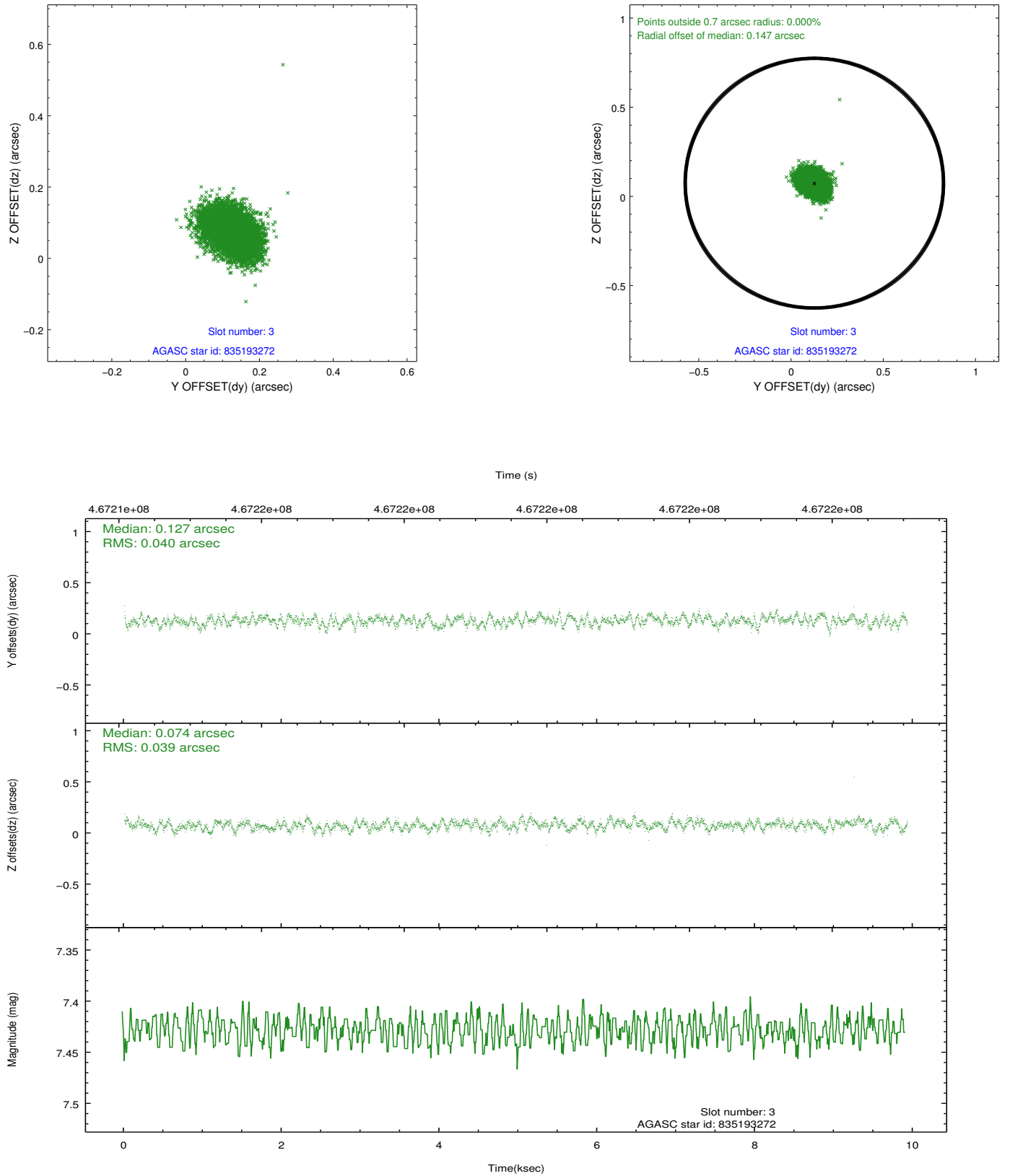


Slot Statistics

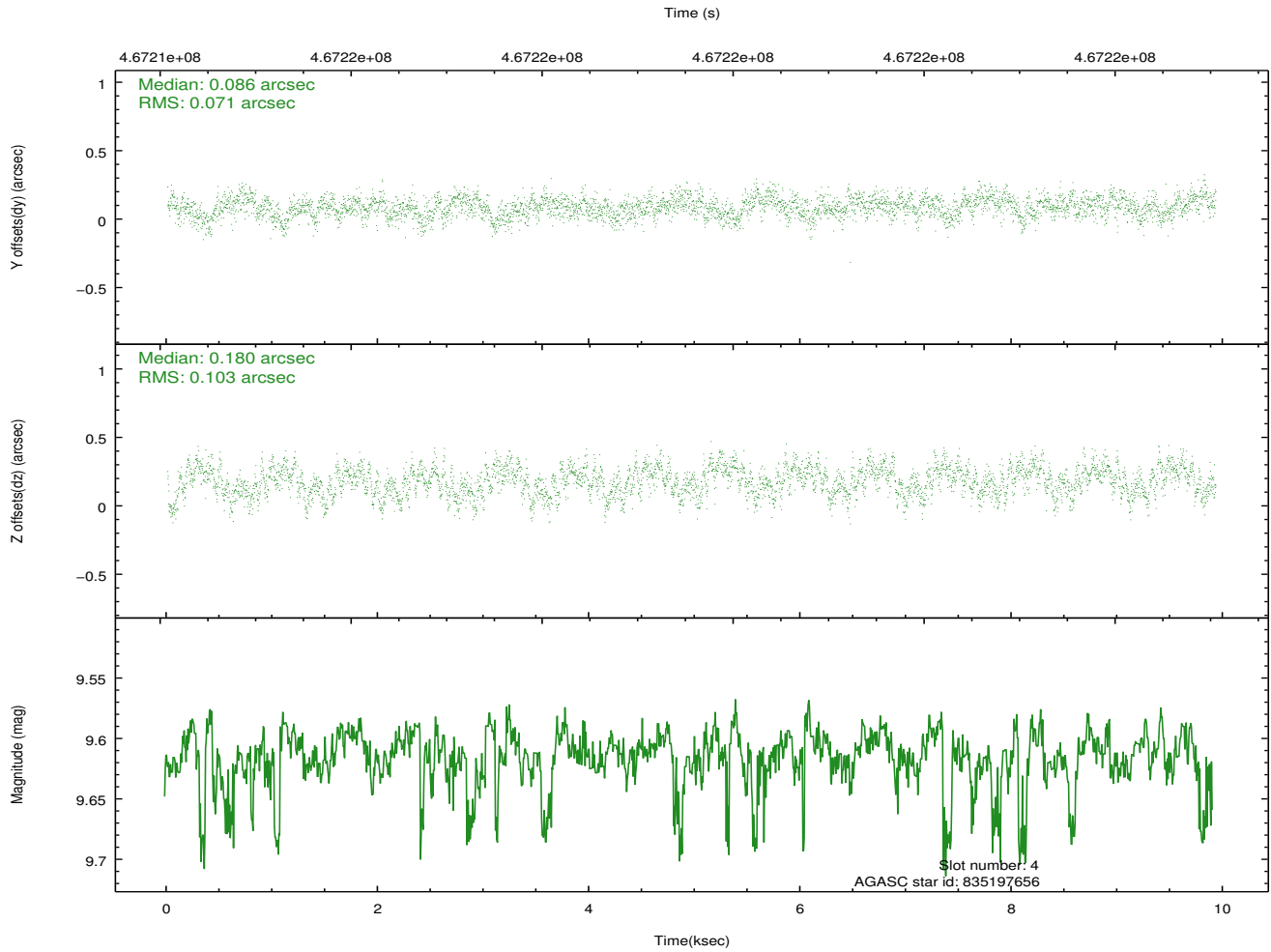
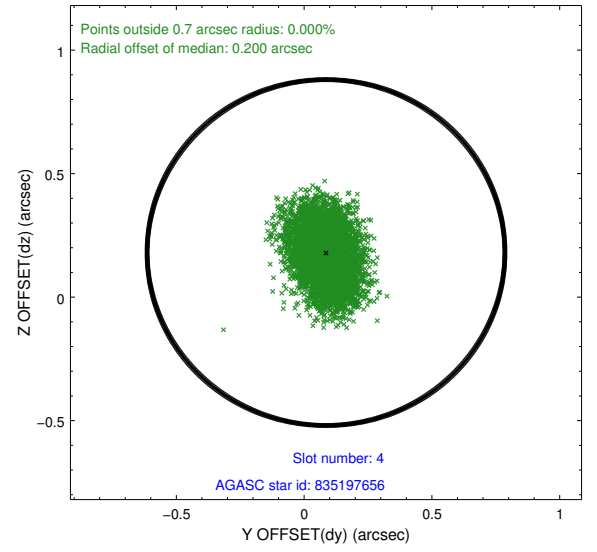
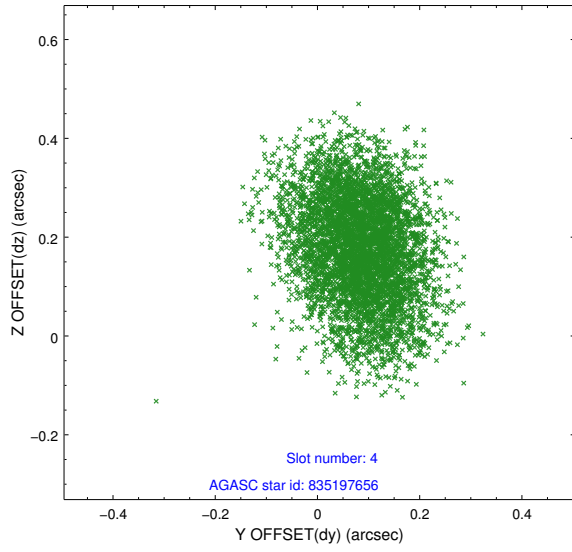
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.93	2421	-0.117	-0.035	0.010	0.016	0.000000	0.000000	-772.64	-1740.75
1	FID		ACIS-S-4	7.01	2421	0.265	0.066	0.008	0.014	0.000000	0.000000	2140.80	167.24
2	FID		ACIS-S-5	7.04	2421	-0.179	-0.023	0.009	0.015	0.000000	0.000000	-1824.83	161.48
3	GUIDE	used	835193272	7.43	4840	0.127	0.074	0.060	0.095	321.559288	-21.830140	-147.41	-1628.31
4	GUIDE	used	835197656	9.61	4834	0.086	0.180	0.132	0.219	321.424484	-21.520085	-1349.60	-1662.38
5	GUIDE	used	835327312	8.08	4841	-0.146	-0.157	0.080	0.126	322.050862	-21.726258	82.18	40.46
6	GUIDE	used	835328080	8.99	4809	-0.025	-0.081	0.112	0.175	322.281129	-21.958452	1133.00	465.91
7	GUIDE	used	835328296	9.73	4833	-0.054	-0.016	0.136	0.216	322.185706	-21.926830	914.52	208.68

2.4 Star Slots

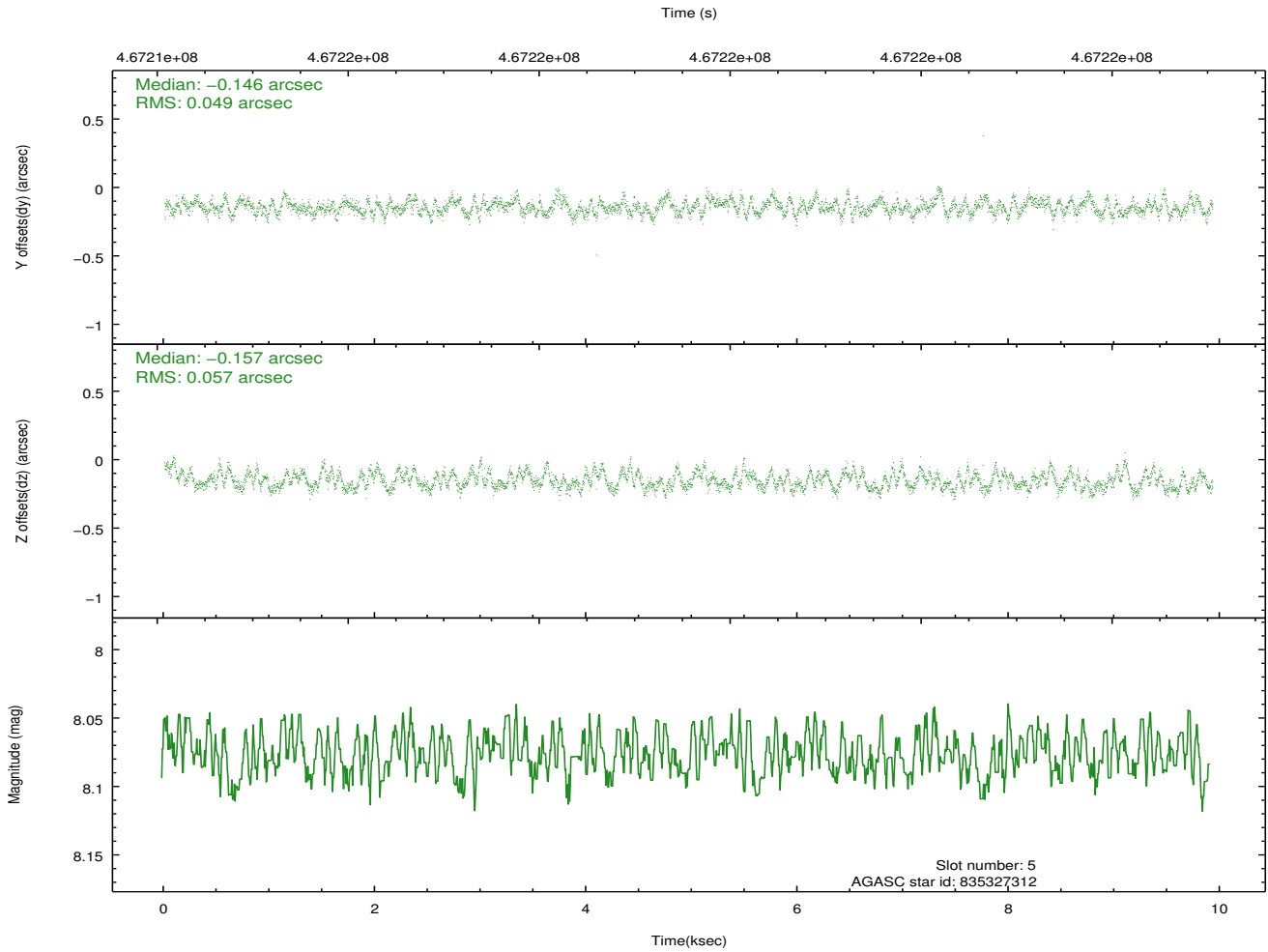
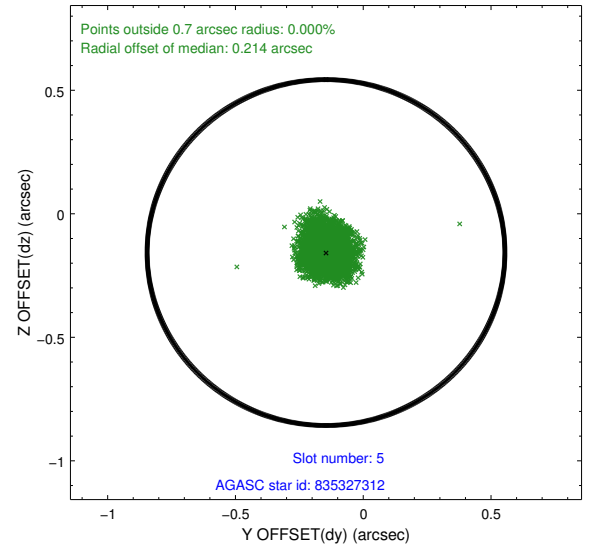
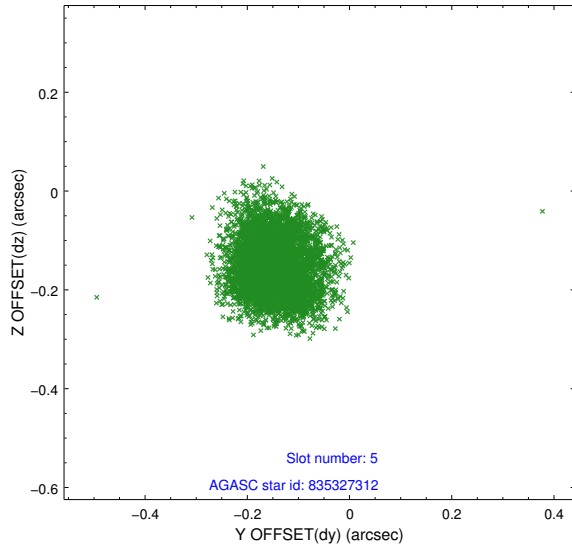
2.4.1 Slot 3



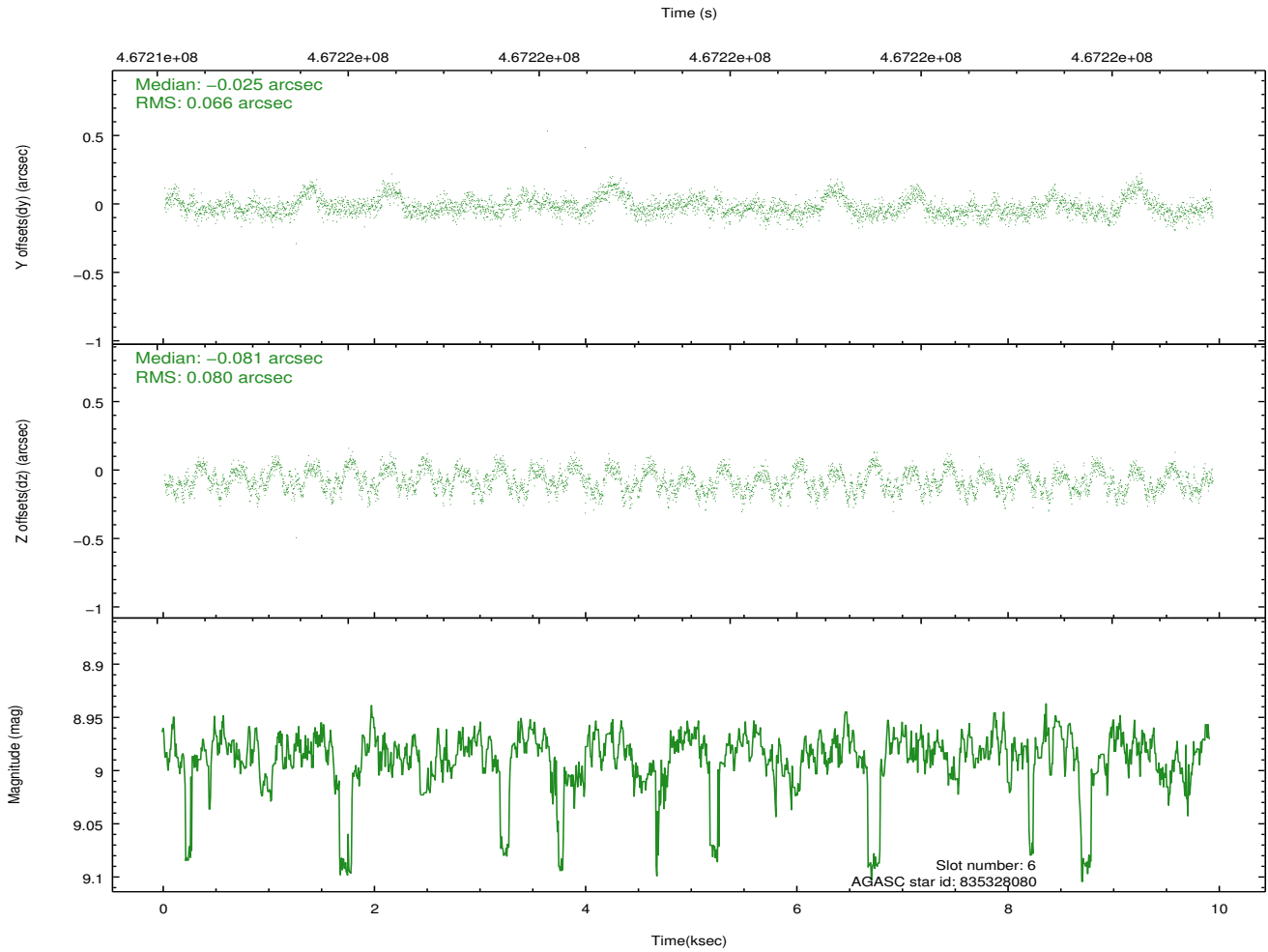
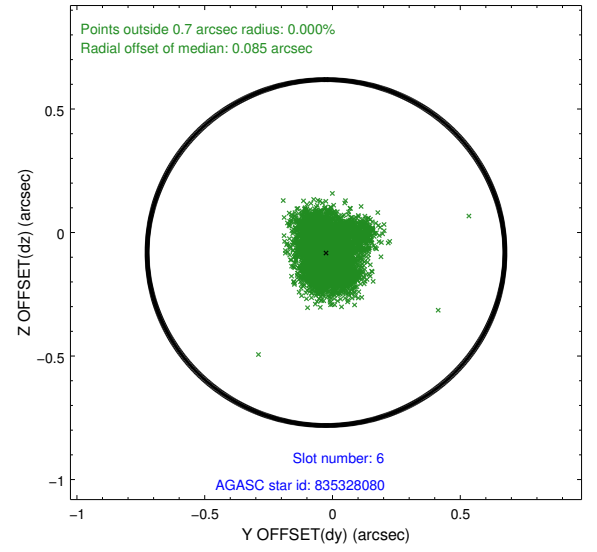
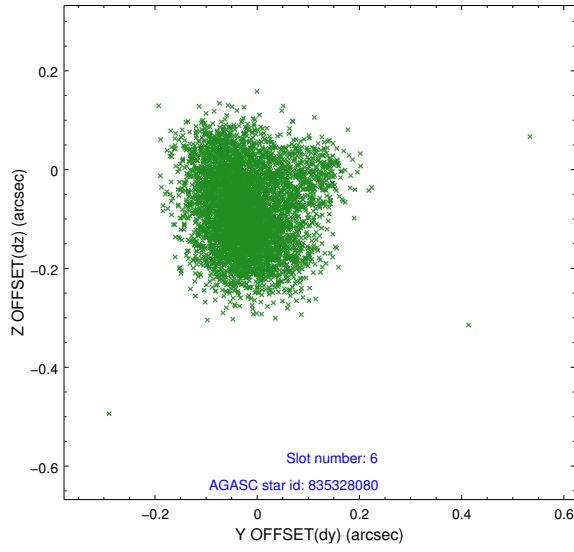
2.4.2 Slot 4



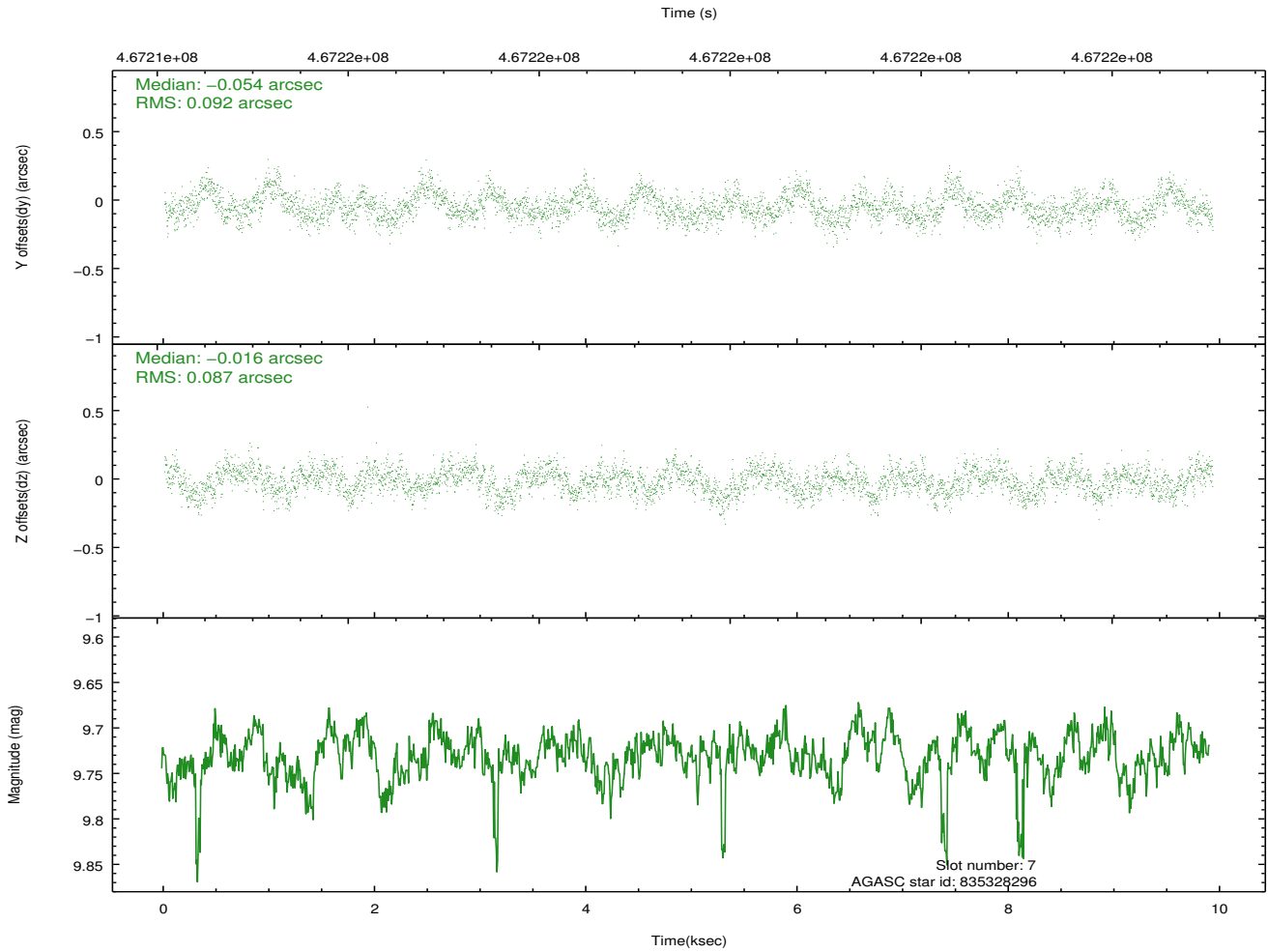
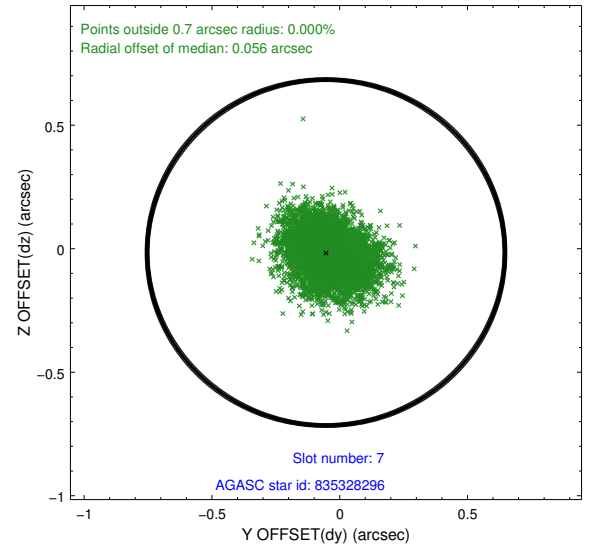
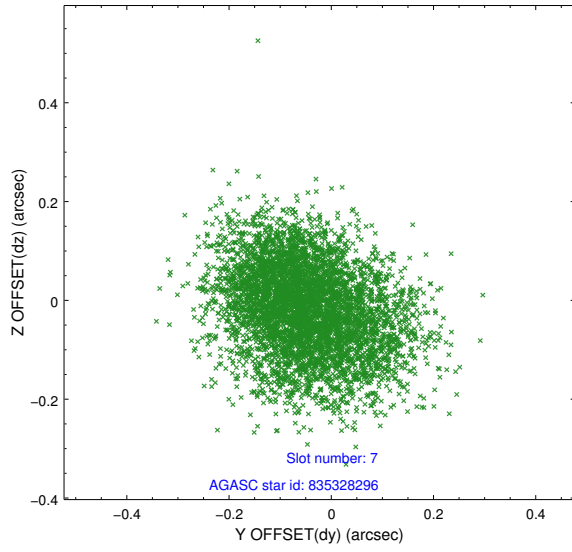
2.4.3 Slot 5



2.4.4 Slot 6

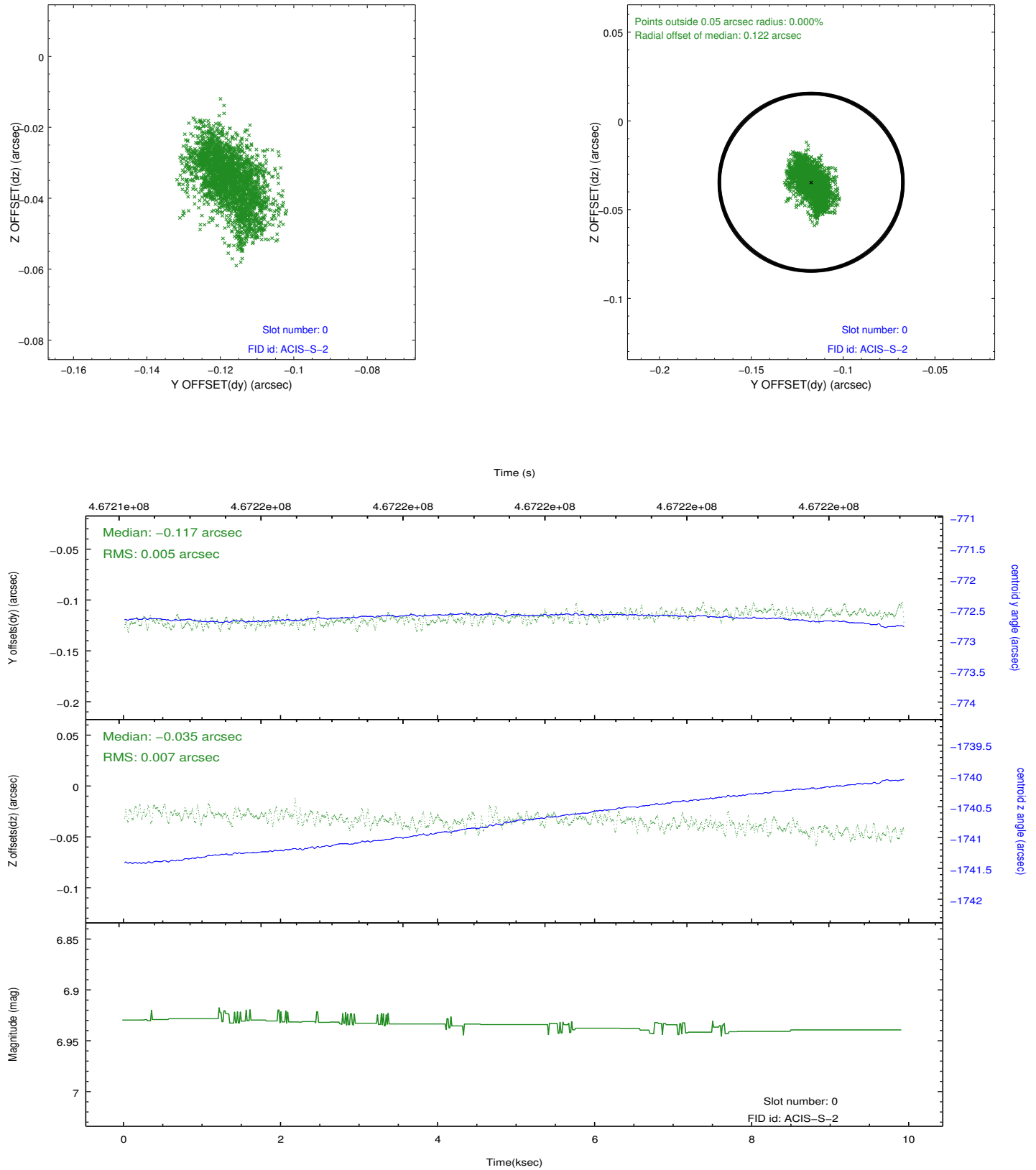


2.4.5 Slot 7

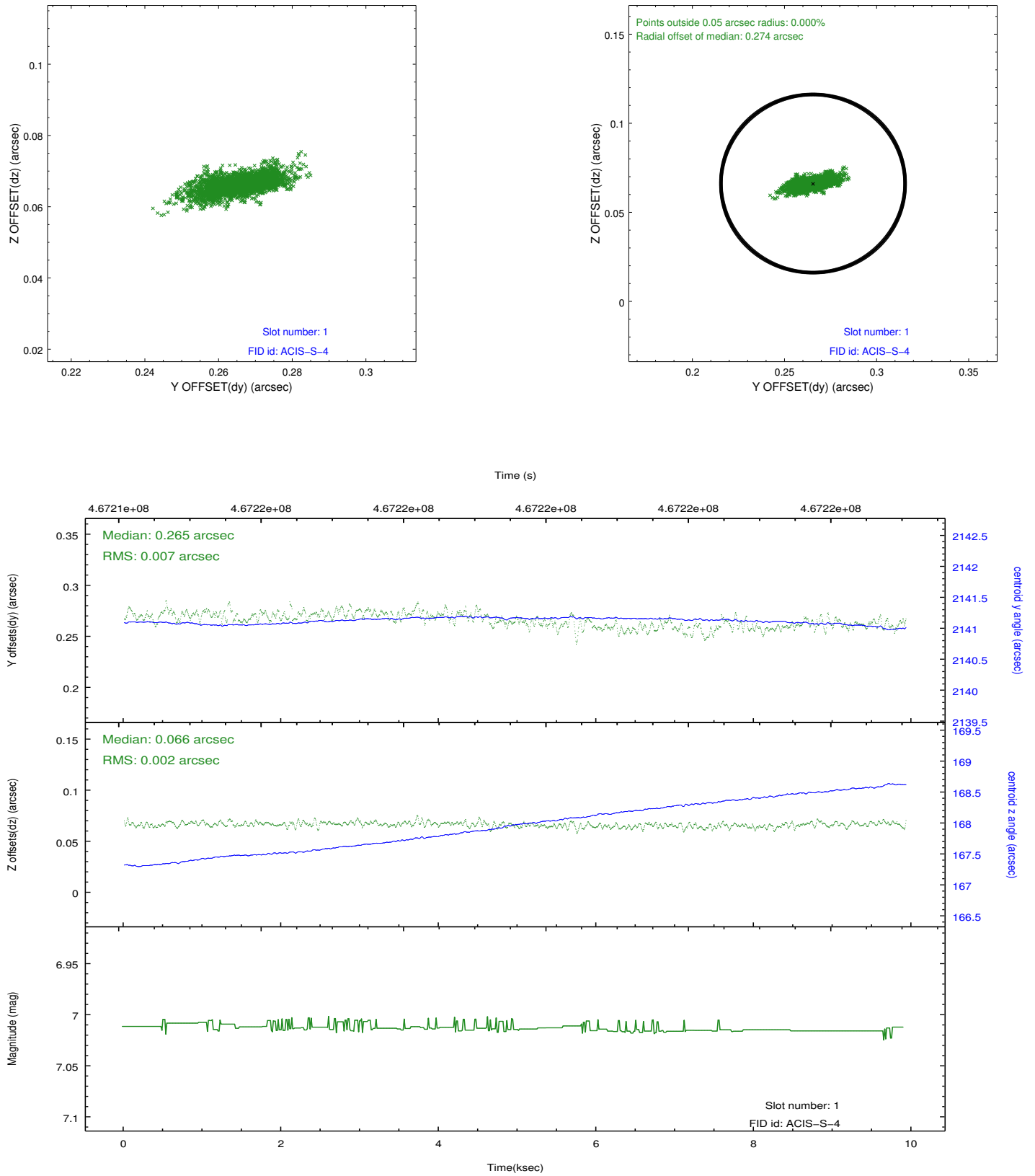


2.5 FID Slots

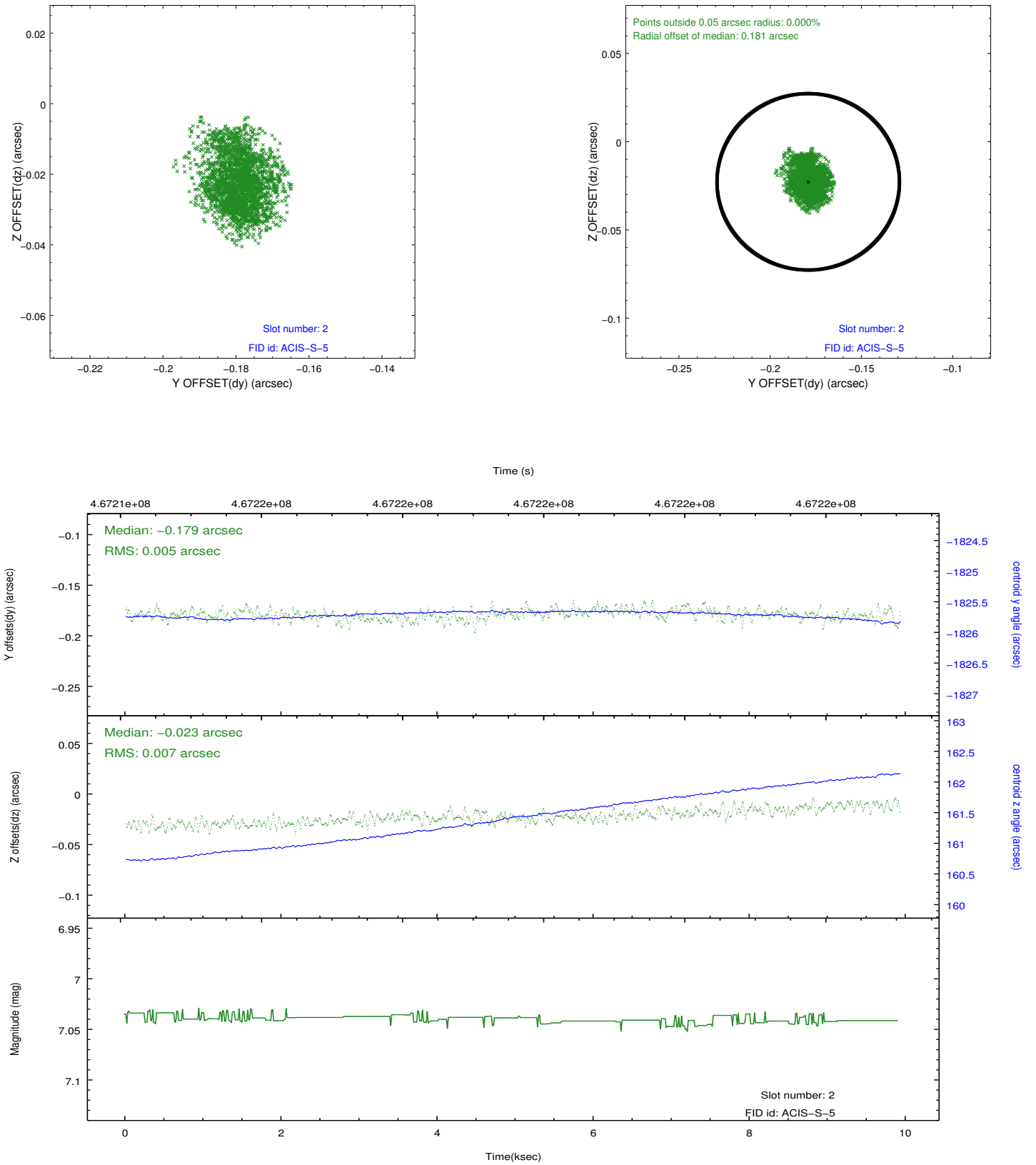
2.5.1 Slot 0



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)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.8106410643458

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.