

V&V Reference Report

L2 ASCDS Version : 10.6.4.1

Observation 21851 - L2 Version 1
Chandra X-Ray Center

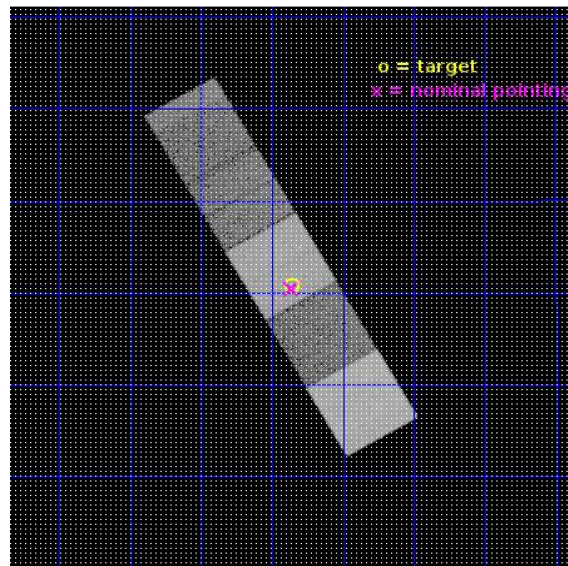
L2 Processing Date : Sep 23 2018

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1 Front

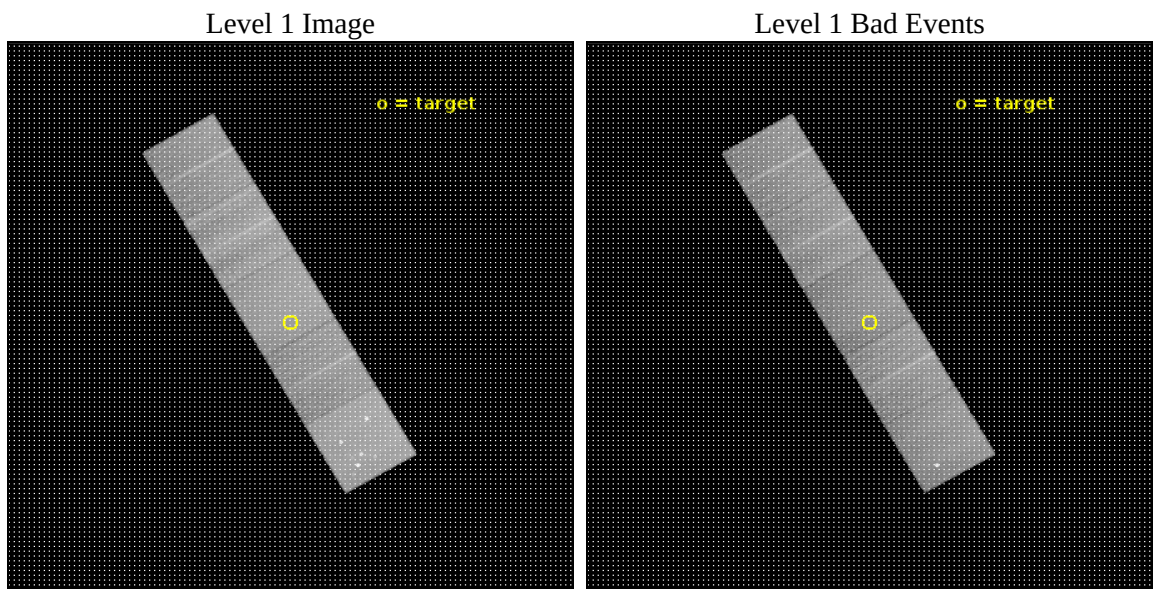
seq_num	300404	Sequence number
obs_id	21851	Observation id
title	Two White Dwarfs with Massive Companions	Proposal title
observer	Mukremin Kilic	Principal investigator
object	LMWD 143	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	341.33875	Observer's specified target RA [deg]
dec_targ	7.846889	Observer's specified target Dec [deg]
ra_nom	341.34062791046	Nominal RA [deg]
dec_nom	7.8406125583907	Nominal Dec [deg]
roll_nom	240.15638710079	Nominal Roll [deg]
revision	1	Processing version of data
ontime	24054.780286789	Sum of GTIs [s]
livetime	23740.48687347	Livetime [s]
ontime5	24054.739246845	Sum of GTIs [s]
ontime6	24054.698206782	Sum of GTIs [s]
ontime7	24054.780286789	Sum of GTIs [s]
ontime8	24054.657166839	Sum of GTIs [s]
ontime9	24054.616126776	Sum of GTIs [s]
l2events	287487	Number of level 2 events



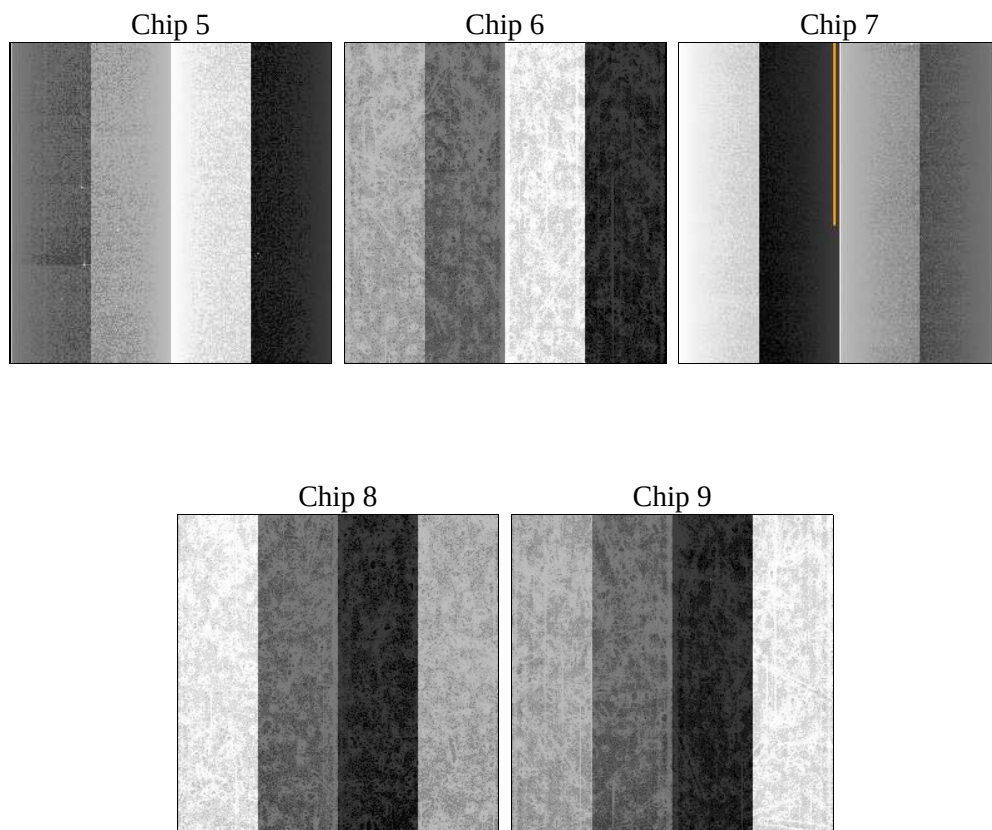
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24000.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4.1	Processing system revision	ontime	24054.780286789	Sum of GTIs [s]
caldsver	4.8.0	 	ontime5	24054.739246845	Sum of GTIs [s]
date	2018-09-23T13:18:37	Date and time of file creation	ontime6	24054.698206782	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	24054.780286789	Sum of GTIs [s]
			ontime8	24054.657166839	Sum of GTIs [s]
			ontime9	24054.616126776	Sum of GTIs [s]
			l1events	1142411	Number of level 1 events

2.1.4 Events

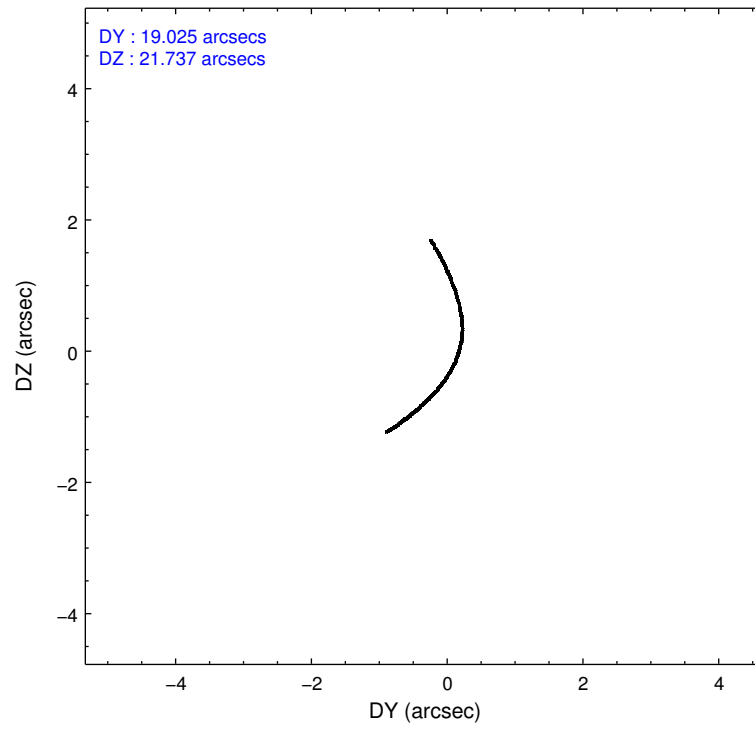
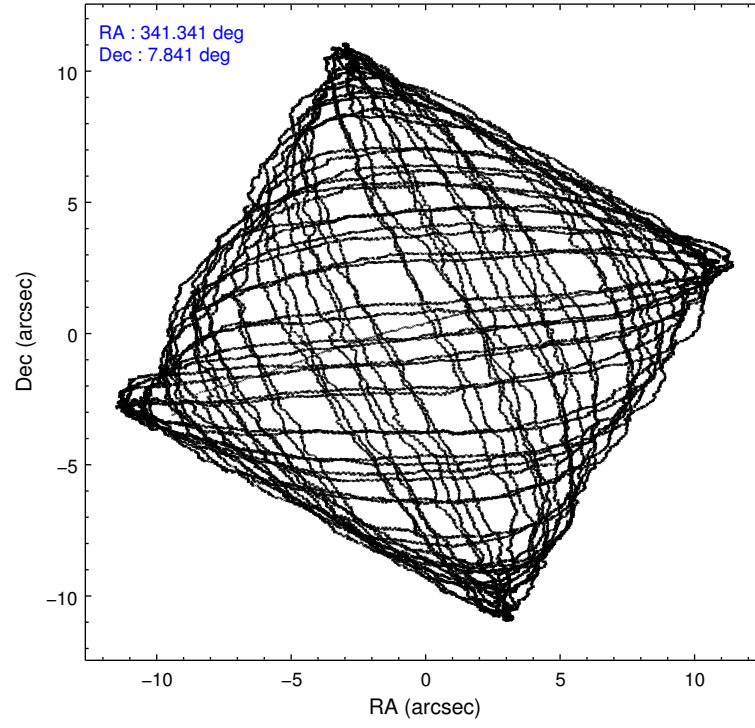
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	307792	182624	233132	239442	179421	grade 0 events	21075	6704	8559	17784	7850
rejected events	155390	162249	132573	175357	157304		6%	3%	3%	7%	4%
rejected %	50%	88%	56%	73%	87%	grade 1 events	719	68	384	185	113
							0%	0%	0%	0%	0%
						grade 2 events	47528	4762	21555	15753	5082
							15%	2%	9%	6%	2%
						grade 3 events	4540	2040	7871	6701	2247
							1%	1%	3%	2%	1%
						grade 4 events	4090	2015	7821	6205	2143
							1%	1%	3%	2%	1%
						grade 5 events	20226	8477	23278	12826	9695
							6%	4%	9%	5%	5%
						grade 6 events	75205	4862	54779	17648	4801
							24%	2%	23%	7%	2%
						grade 7 events	134409	153696	108885	162340	147490
							43%	84%	46%	67%	82%

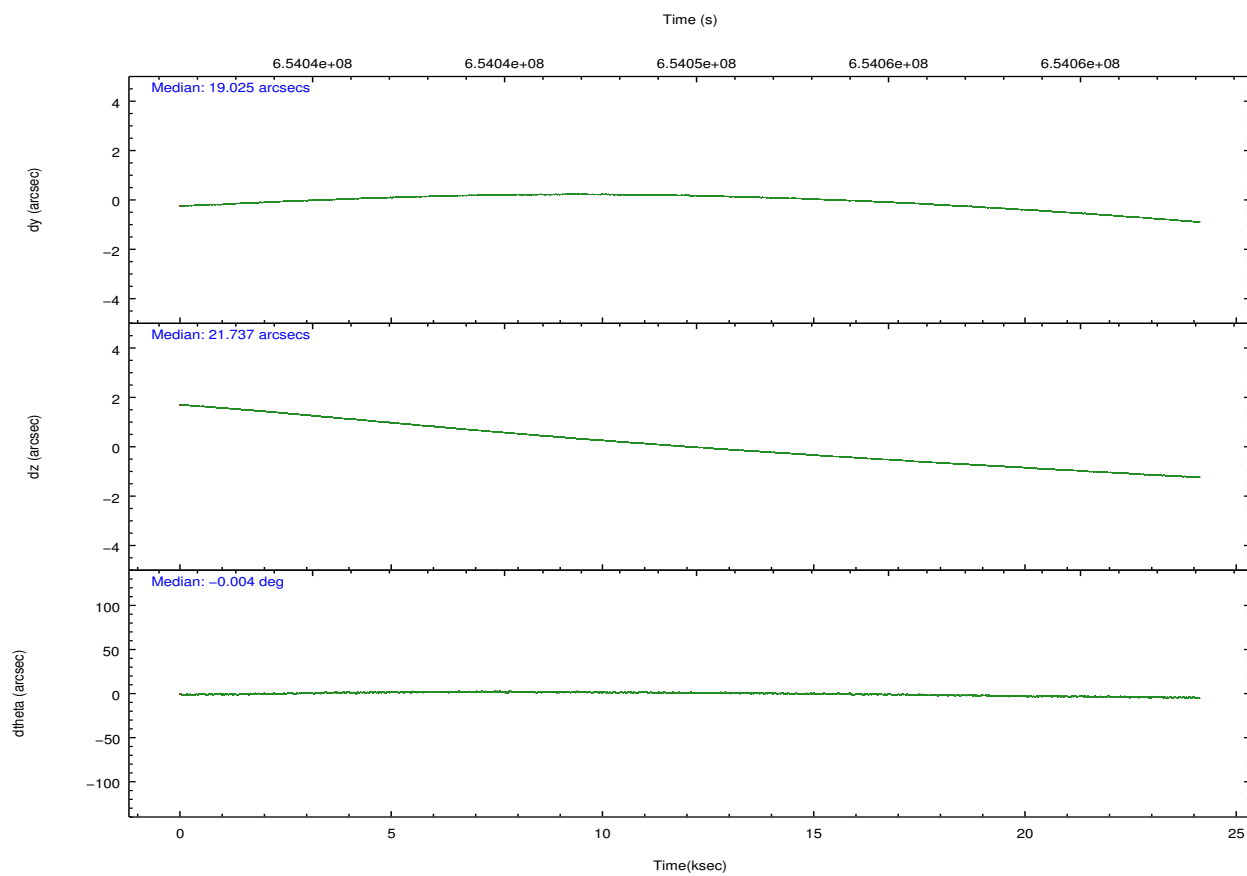
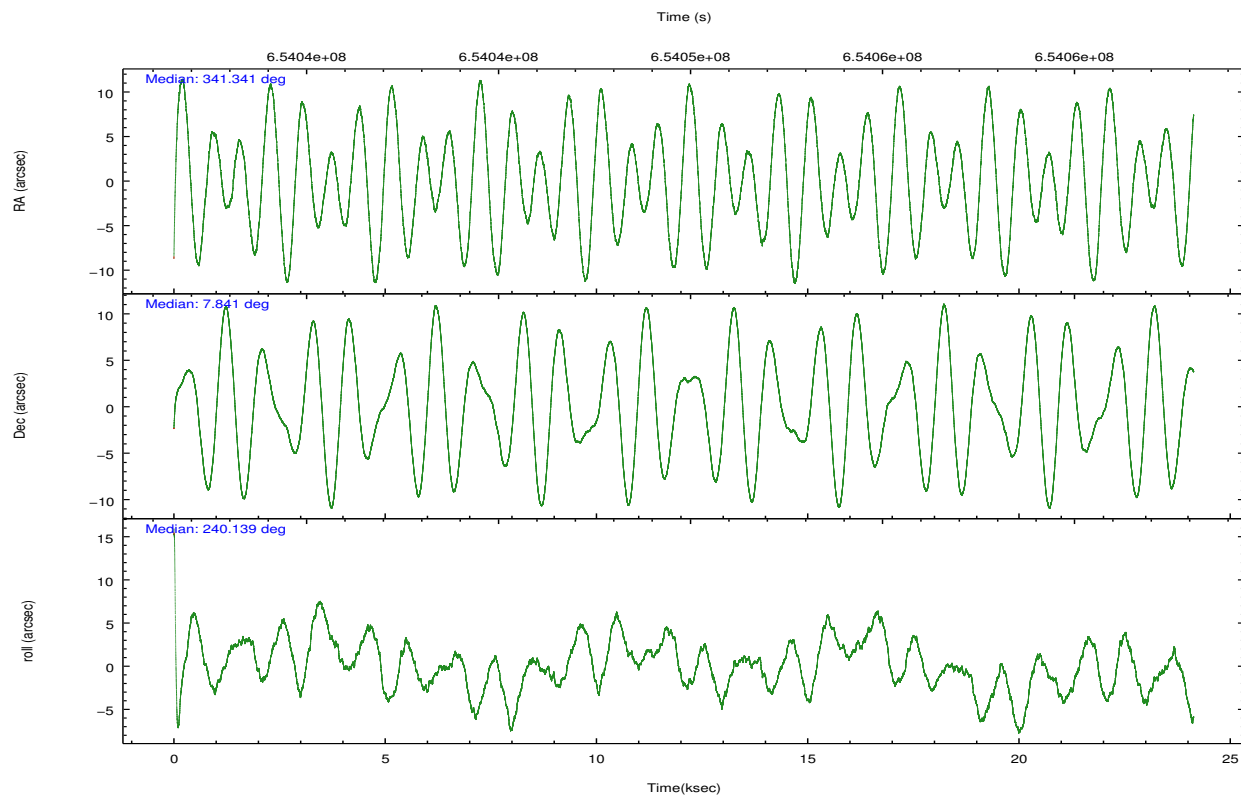
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-56789	ACIS-56789
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	341.340176	341.3406279104553
[deg] Pointing Dec	7.868054	7.840612558390682
[deg] Pointing Roll	239.999802	240.1563871007942
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	654037910.184000	654036691.3546799
Observation start date	2018-09-22T21:10:41	2018-09-22T20:51:31
[s] Observation end time (MET)	654061910.184000	654062653.58122
Observation end date	2018-09-23T03:50:41	2018-09-23T04:04:13
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	N	N
CCD S0 on	N	N
CCD S1 on	O1	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	O2	Y
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



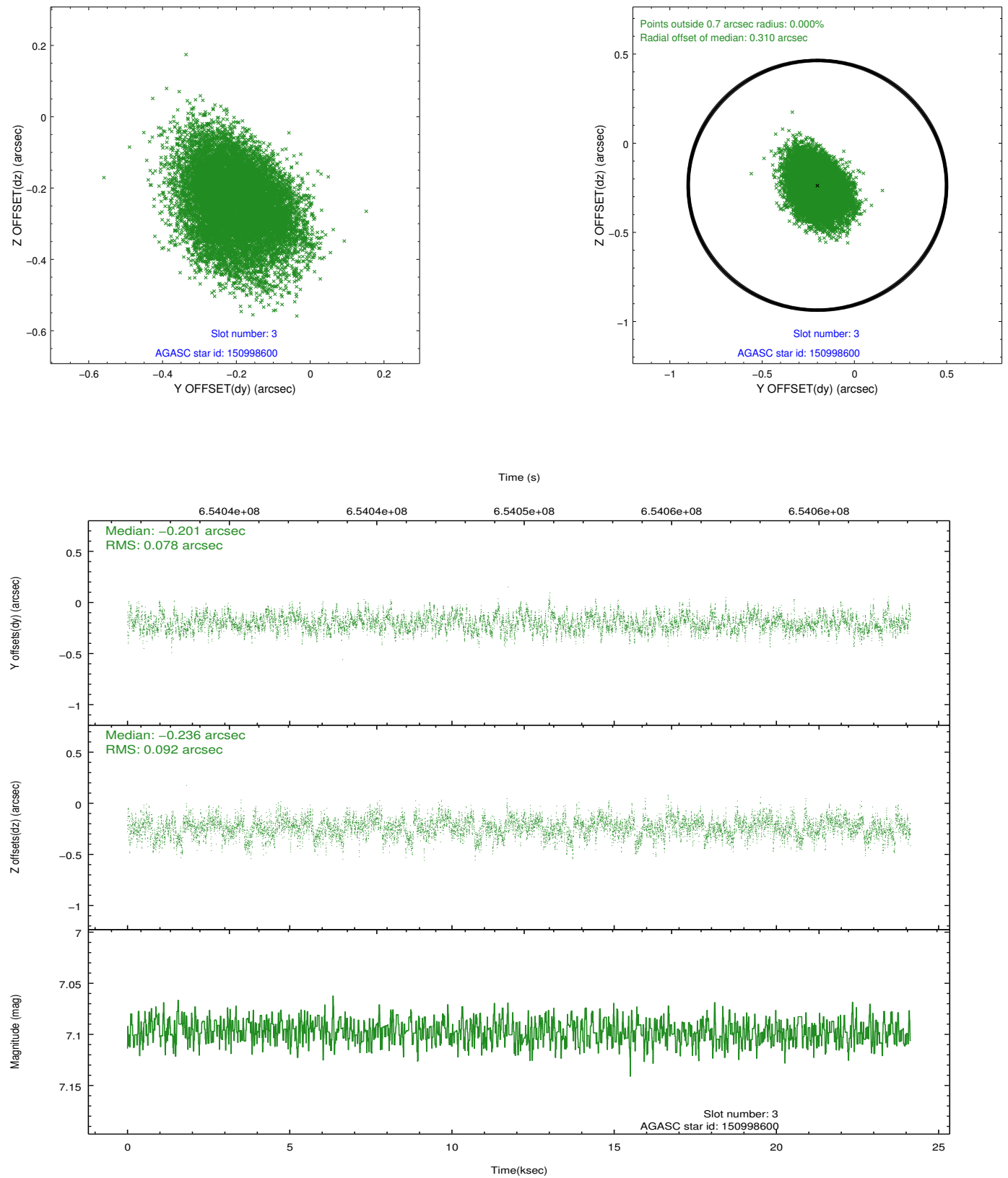


Slot Statistics

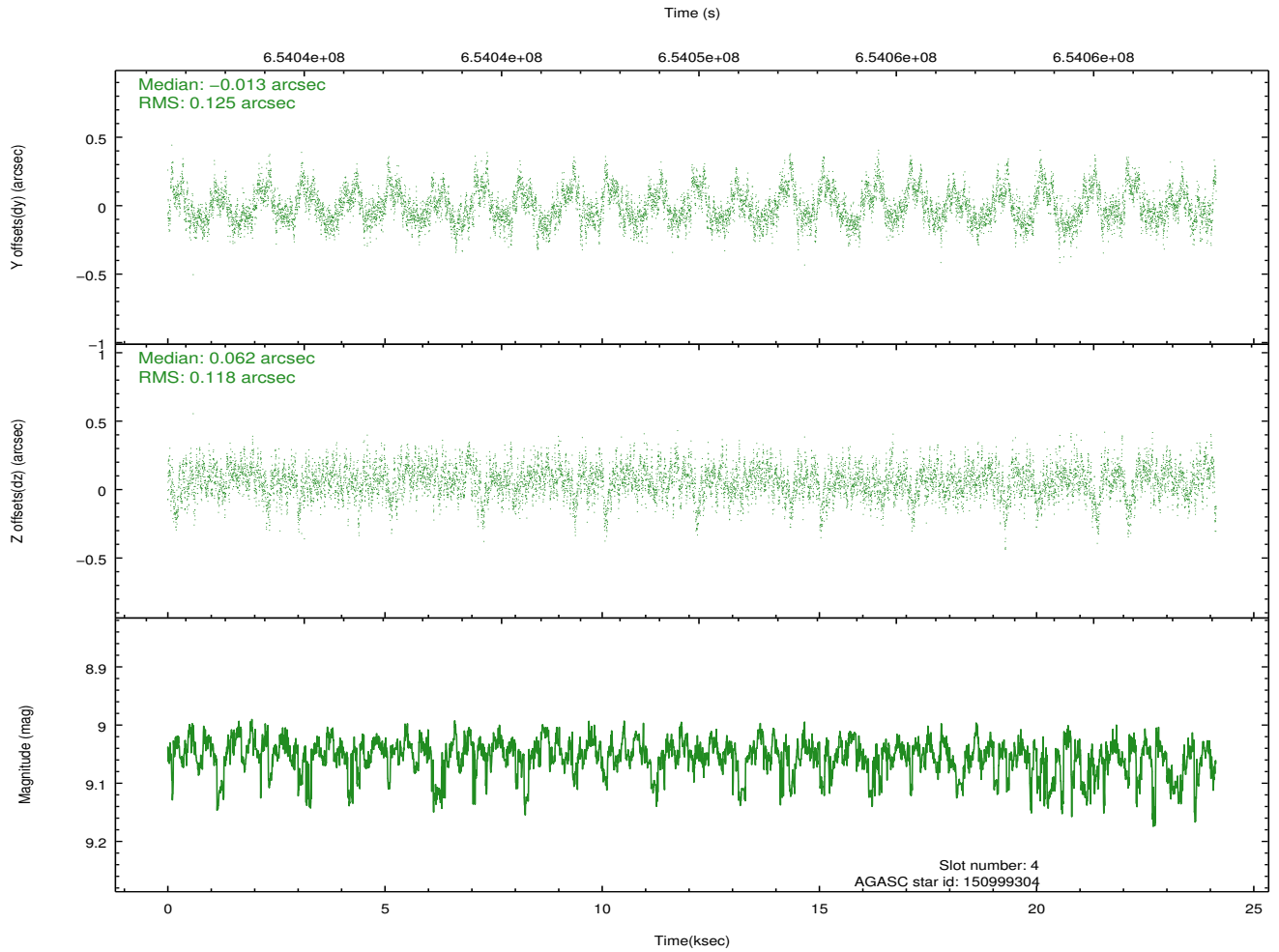
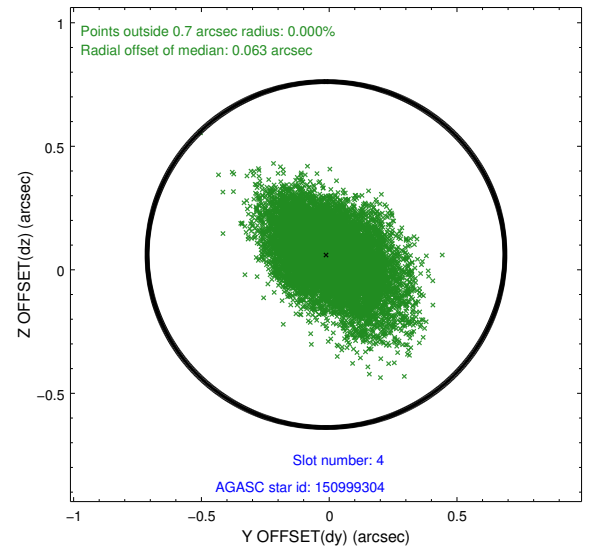
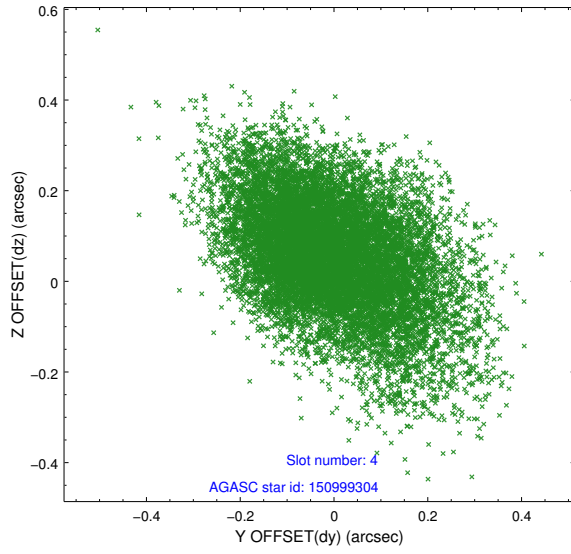
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.00	5887	1.000	-0.226	-0.118	0.016	0.033	0.000000	0.000000	-772.24	-1743
1	FID		ACIS-S-4	7.11	5886	1.000	0.509	0.139	0.017	0.029	0.000000	0.000000	2141.71	165
2	FID		ACIS-S-5	7.11	5887	1.000	-0.313	-0.013	0.018	0.028	0.000000	0.000000	-1825.00	158
3	GUIDE	used	150998600	7.10	11773	1.000	-0.201	-0.236	0.128	0.210	341.619278	7.582933	390.01	1376
4	GUIDE	used	150999304	9.05	11755	1.000	-0.013	0.062	0.178	0.309	340.735837	7.774241	1369.85	-1697
5	GUIDE	used	151000088	7.68	11771	1.000	0.044	-0.137	0.121	0.199	341.870456	7.708701	-450.05	1924
6	GUIDE	used	151000552	9.30	11756	1.000	-0.194	0.141	0.241	0.356	341.026151	8.032590	47.08	-1265
7	GUIDE	used	151001000	9.31	11758	1.000	0.351	0.166	0.244	0.366	341.341986	7.959233	-286.46	-158

2.4 Star Slots

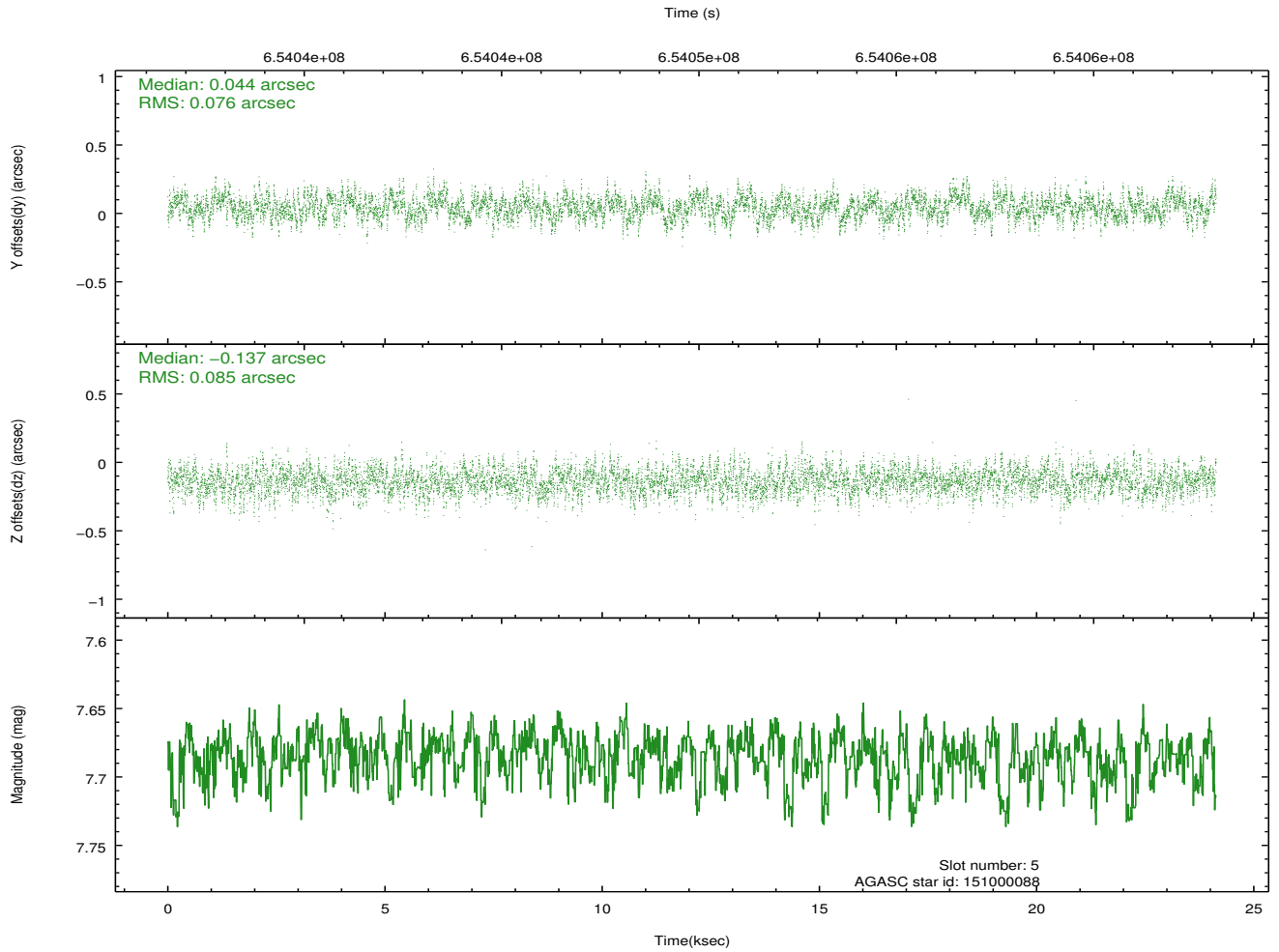
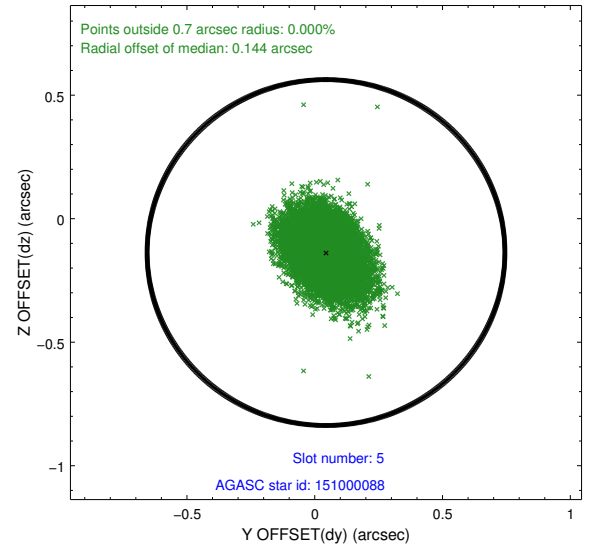
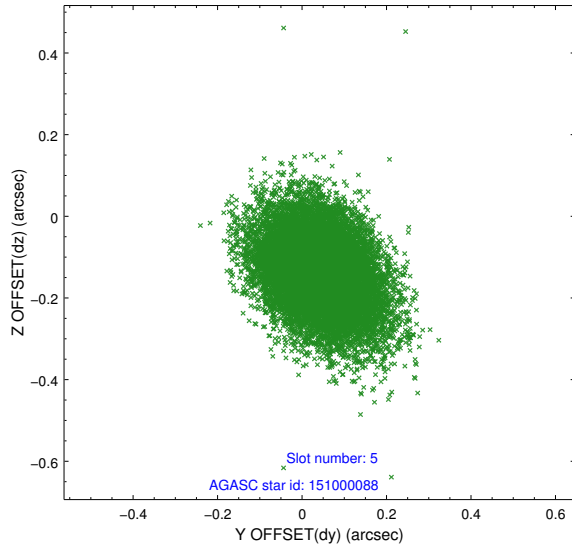
2.4.1 Slot 3



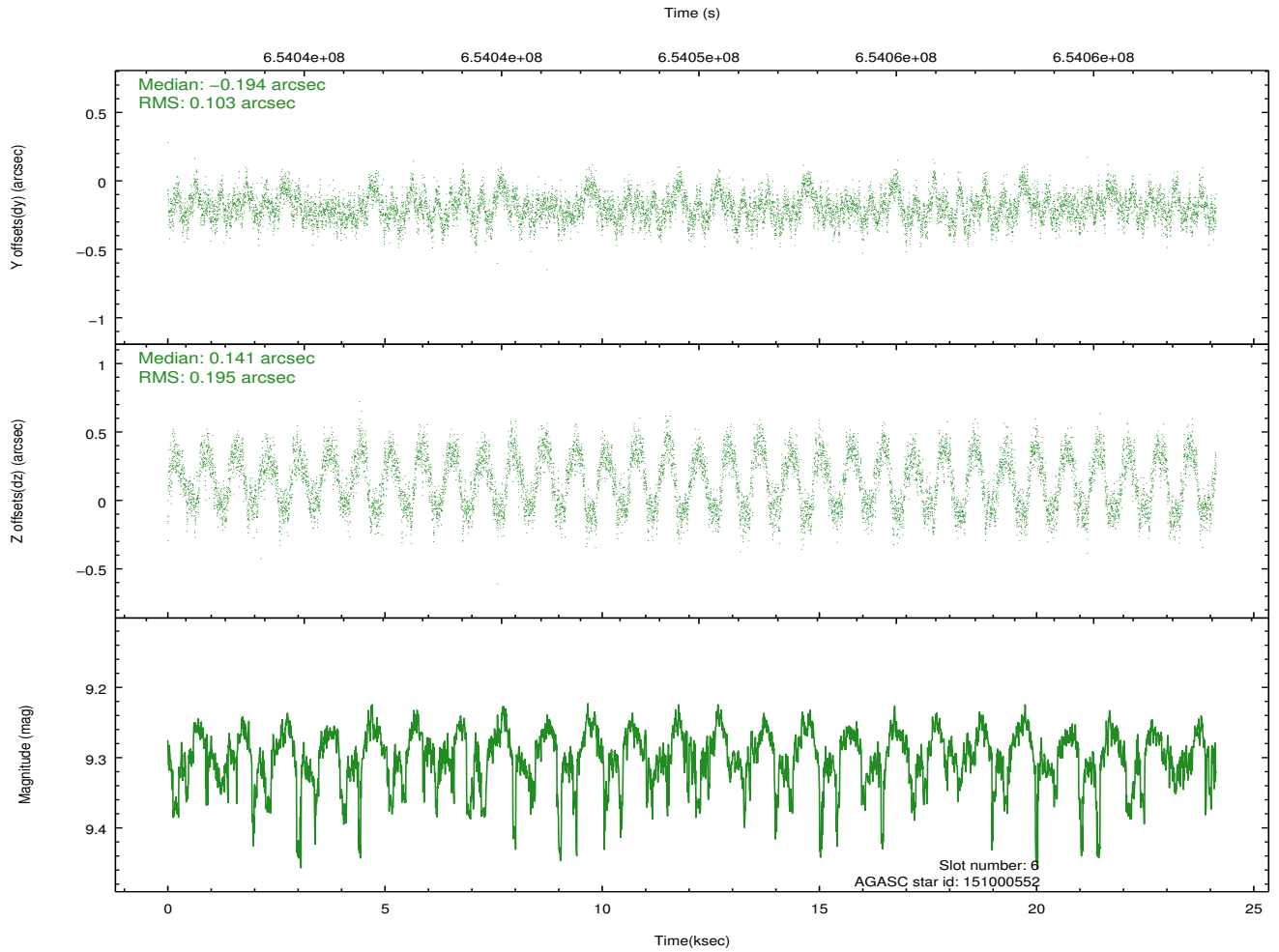
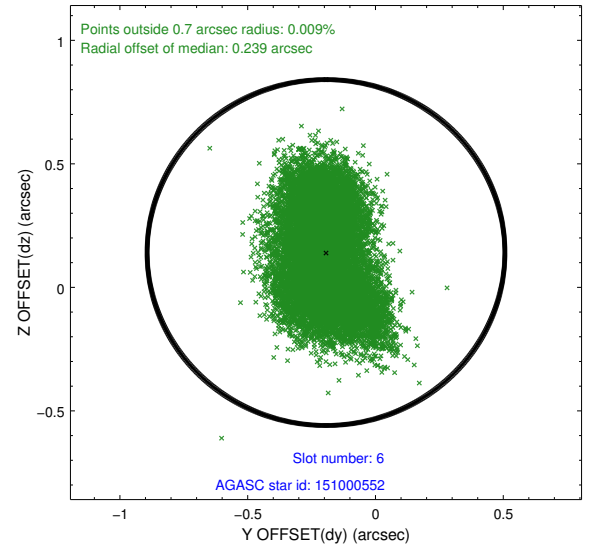
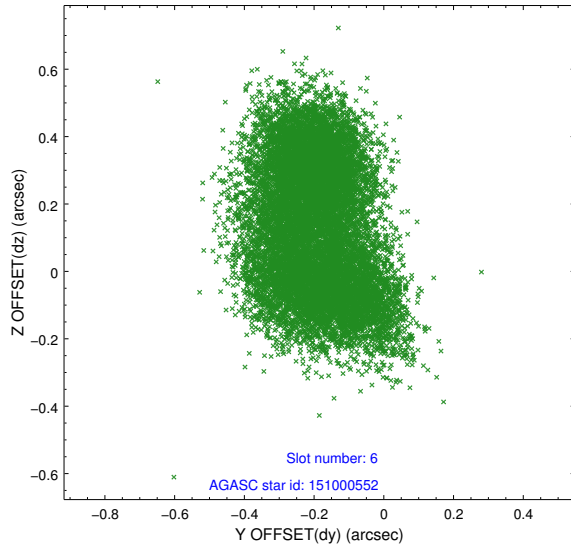
2.4.2 Slot 4



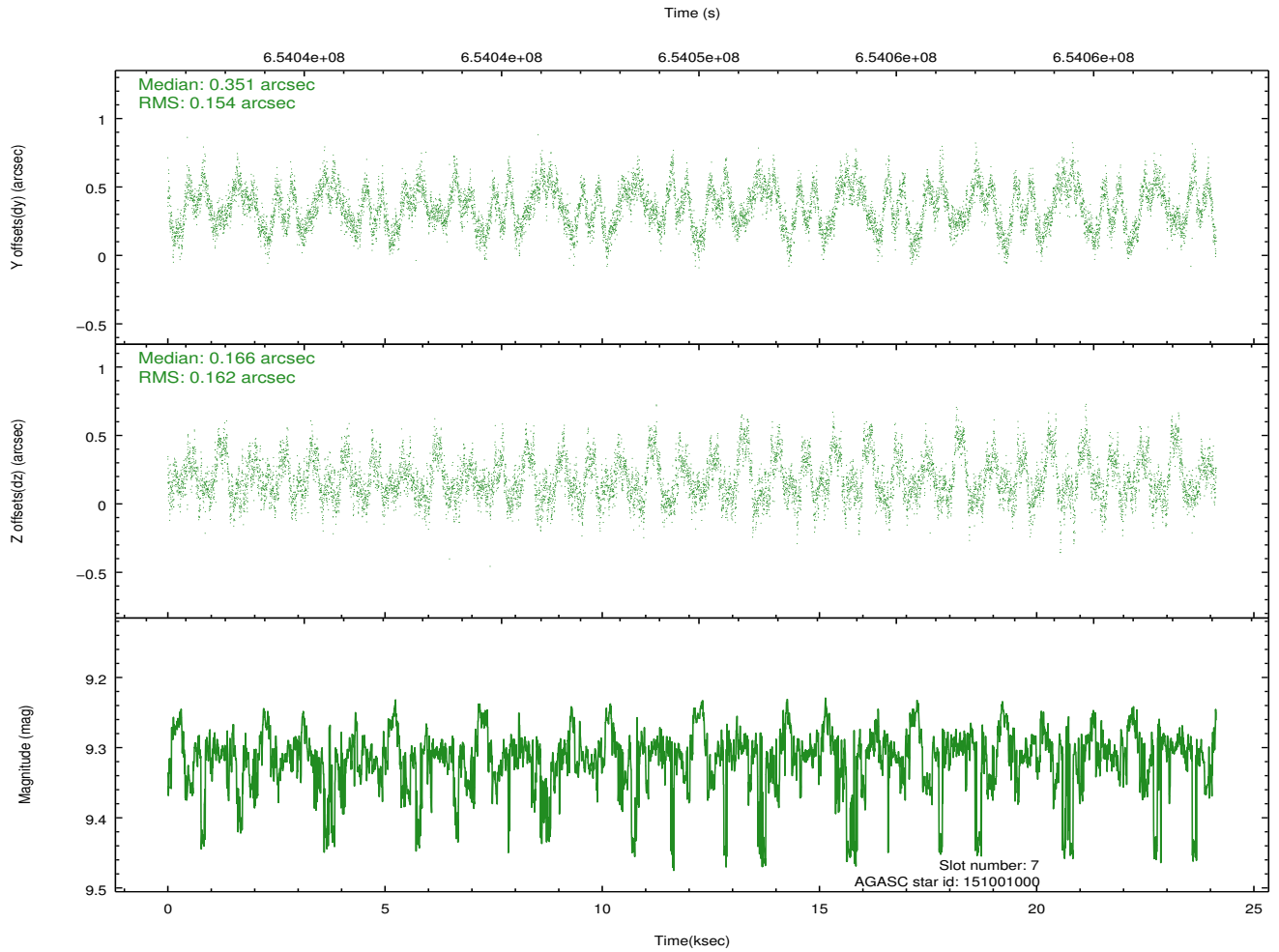
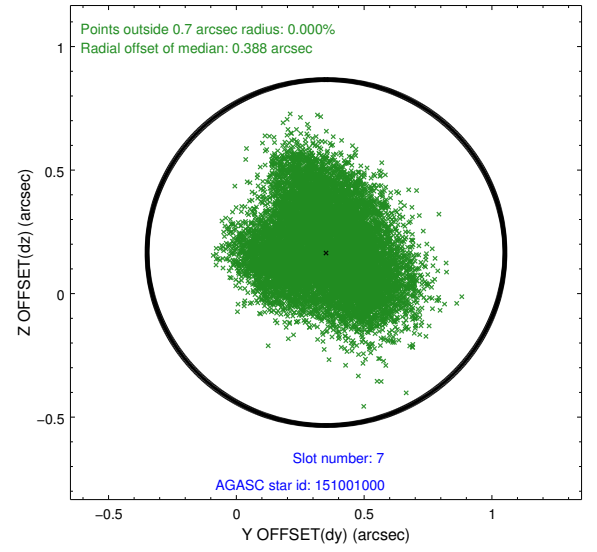
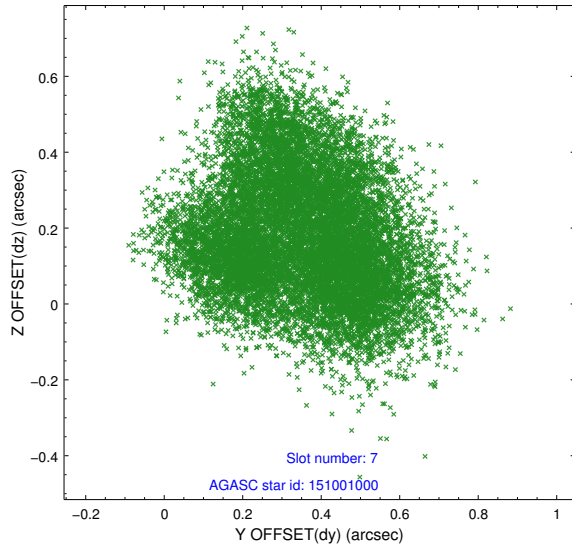
2.4.3 Slot 5



2.4.4 Slot 6

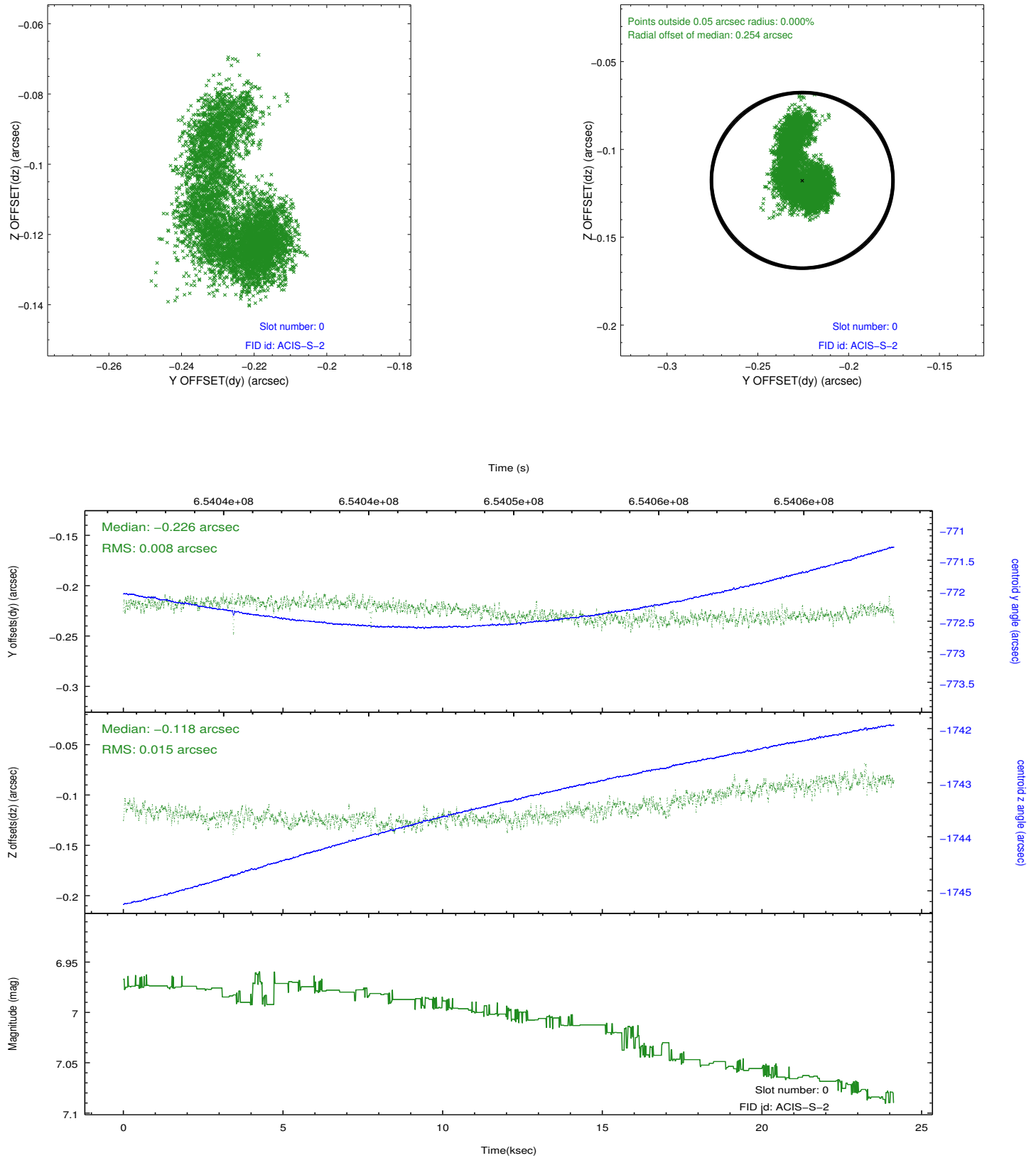


2.4.5 Slot 7

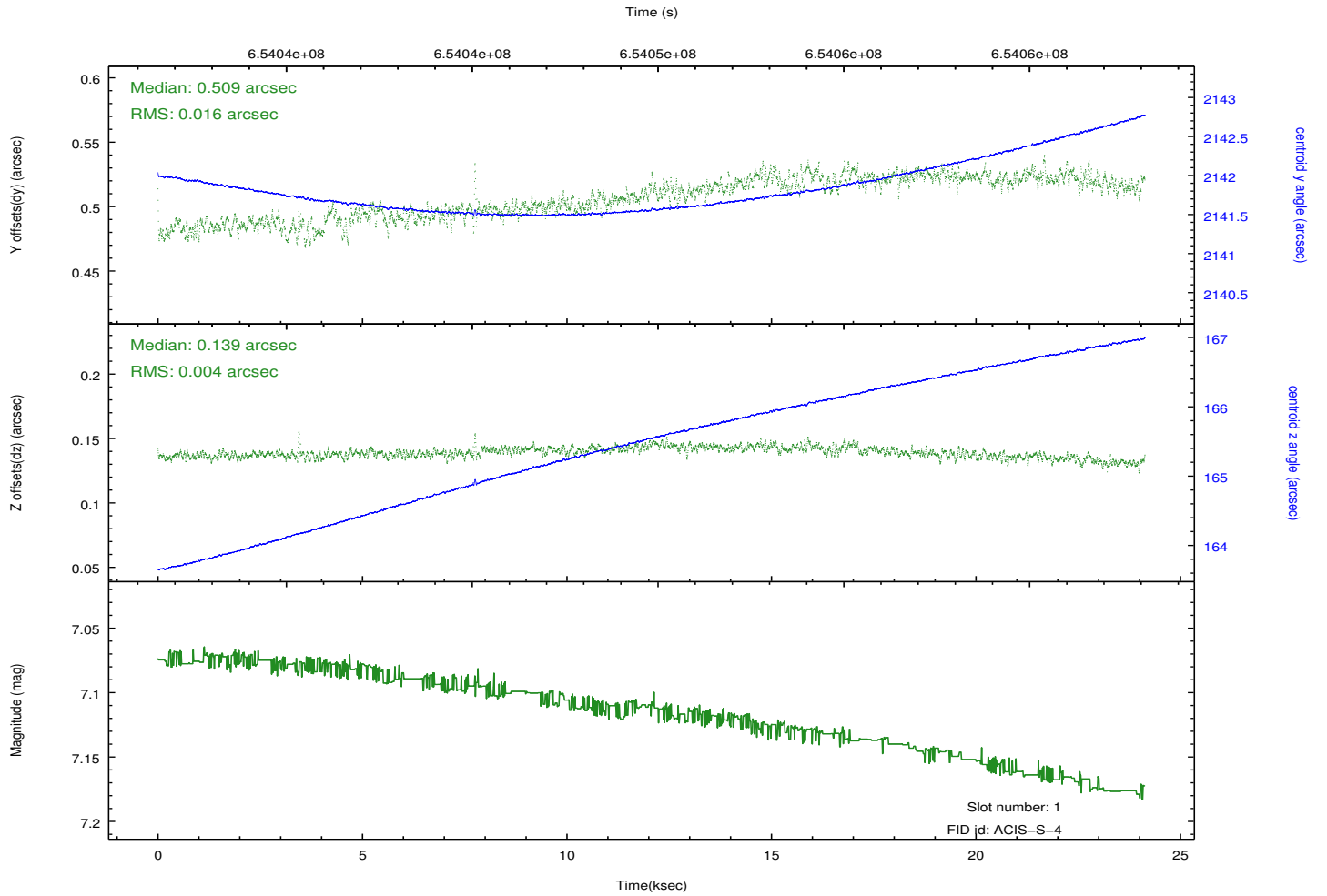
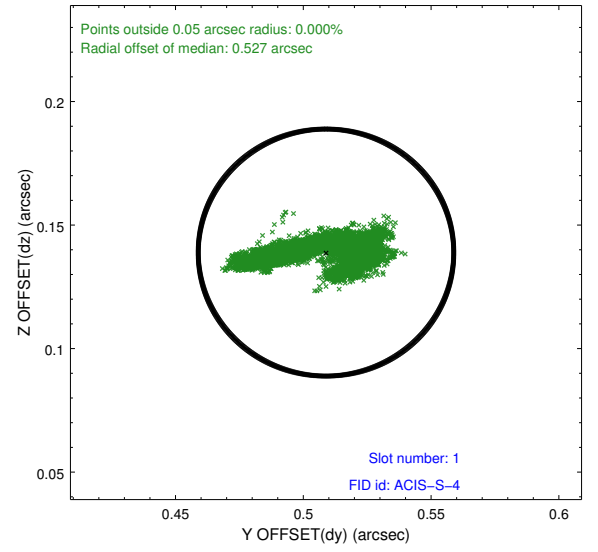
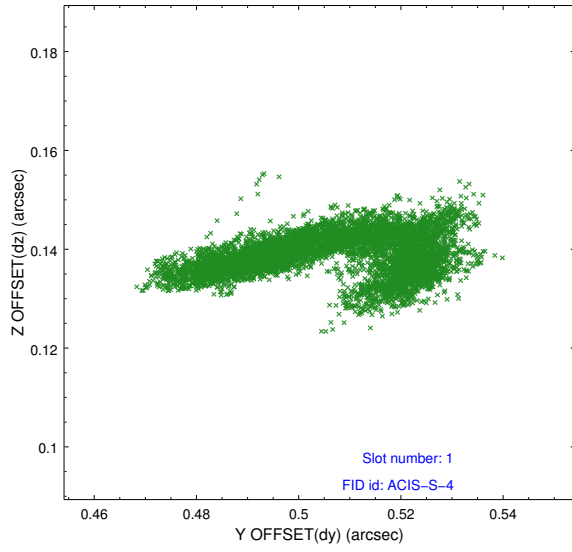


2.5 FID Slots

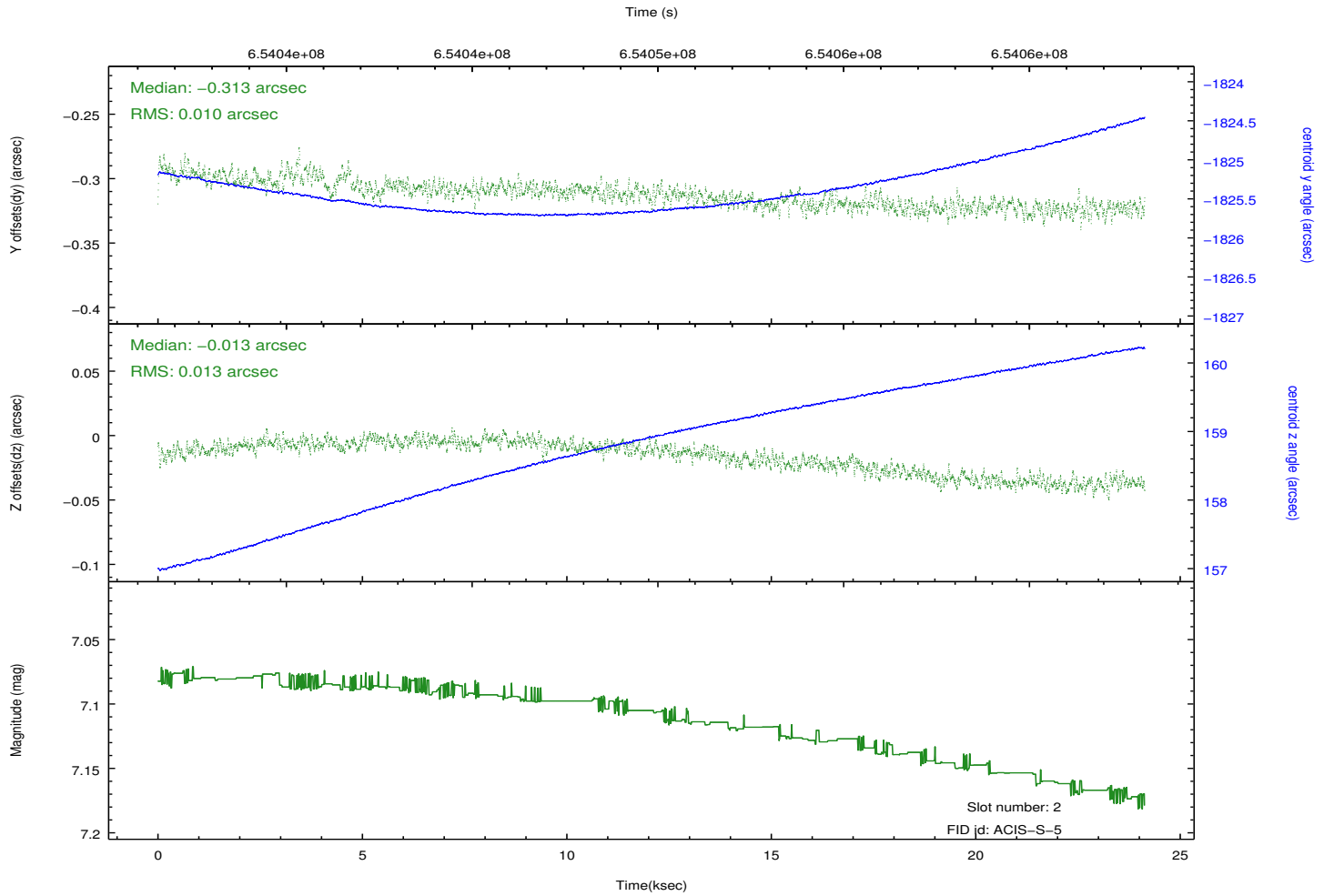
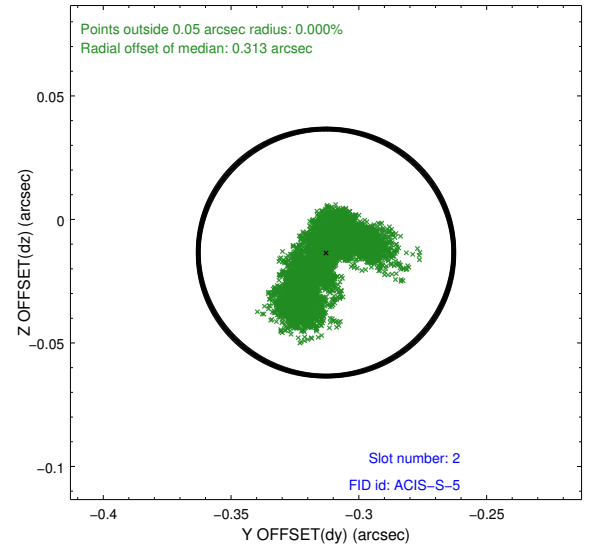
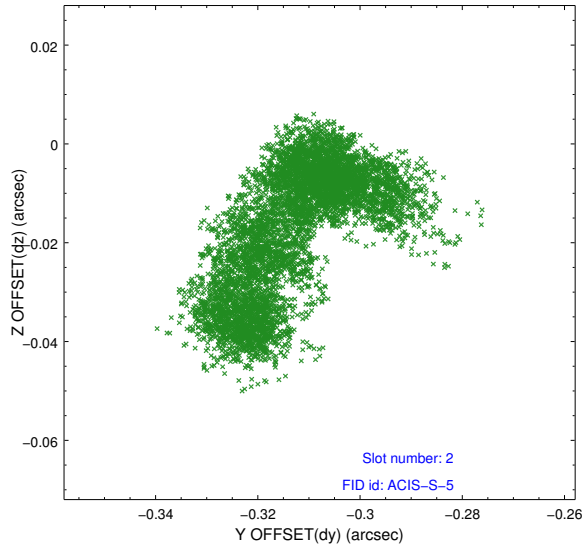
2.5.1 Slot 0



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)	2018.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.054780286789

A.2 Comments