

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18022 - L2 Version 1
Chandra X-Ray Center

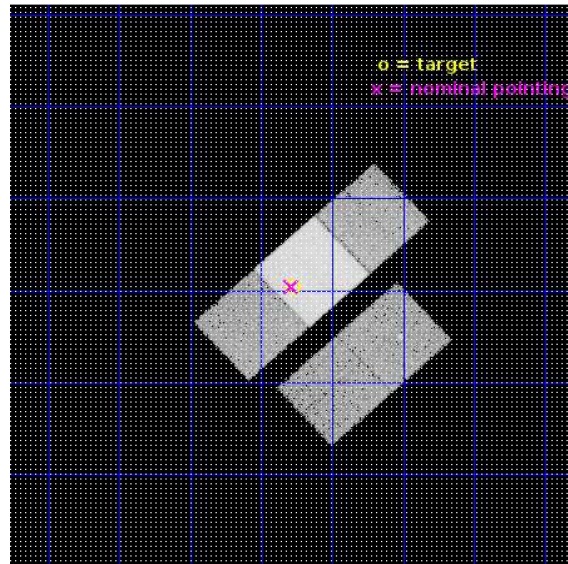
L2 Processing Date : Nov 24 2016

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1 Front

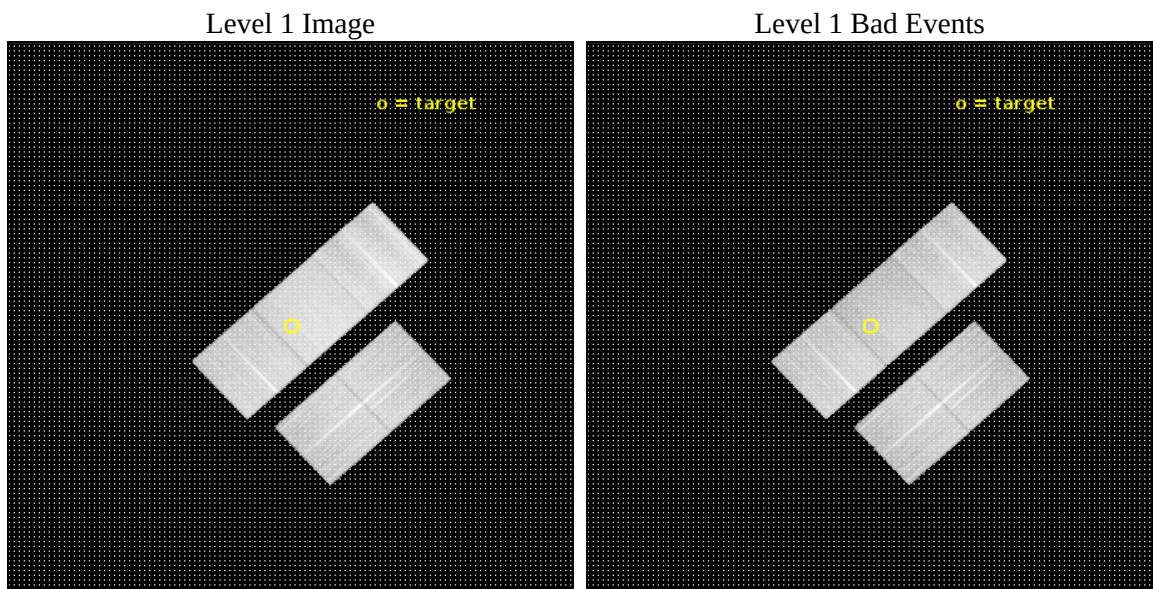
seq_num	502639	Sequence number
obs_id	18022	Observation id
title	The Origin of Calcium-Rich Gap Transients	Proposal title
observer	Paul Sell	Principal investigator
object	AT2016hnk	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	33.319292	Observer's specified target RA [deg]
dec_targ	-7.661306	Observer's specified target Dec [deg]
ra_nom	33.321978744256	Nominal RA [deg]
dec_nom	-7.6600761189015	Nominal Dec [deg]
roll_nom	317.48399282922	Nominal Roll [deg]
revision	1	Processing version of data
ontime	30059.504567862	Sum of GTIs [s]
livetime	29666.755011197	Livetime [s]
ontime2	30059.340407848	Sum of GTIs [s]
ontime3	30056.281457663	Sum of GTIs [s]
ontime6	30059.463527918	Sum of GTIs [s]
ontime7	30059.504567862	Sum of GTIs [s]
ontime8	30059.381447911	Sum of GTIs [s]
l2events	192973	Number of level 2 events



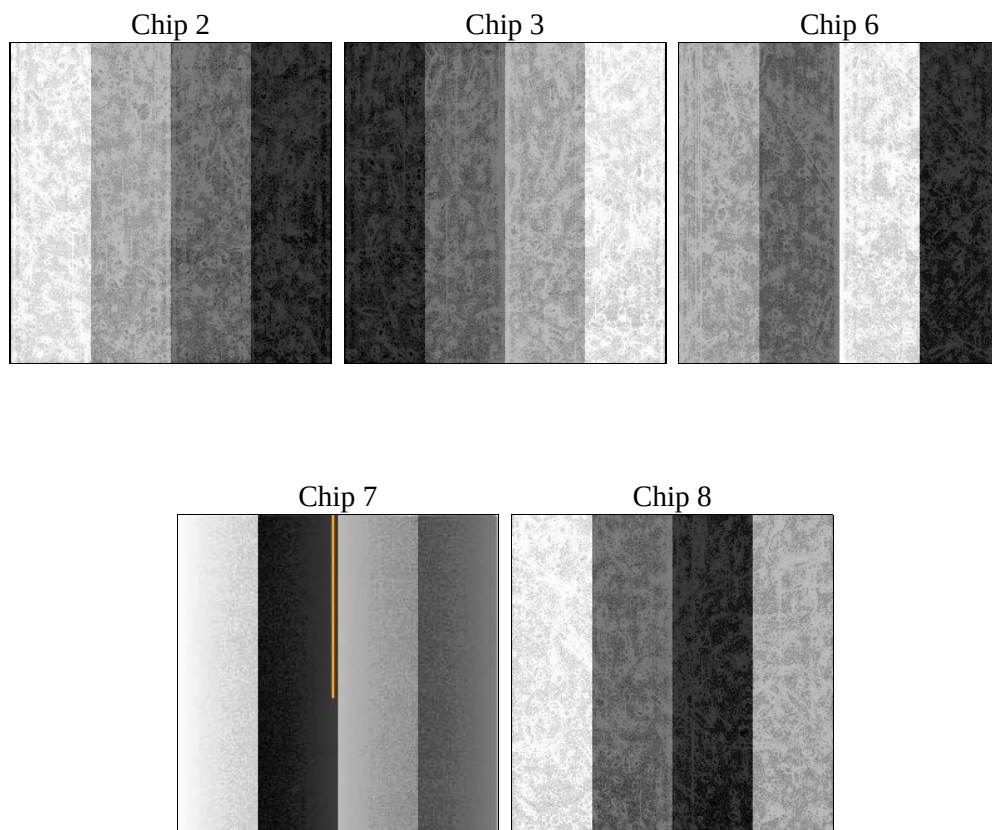
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	30059.504567862	Sum of GTIs [s]
caldsver	4.7.2	 	ontime2	30059.340407848	Sum of GTIs [s]
date	2016-11-25T02:06:29	Date and time of file creation	ontime3	30056.281457663	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	30059.463527918	Sum of GTIs [s]
			ontime7	30059.504567862	Sum of GTIs [s]
			ontime8	30059.381447911	Sum of GTIs [s]
			l1events	1135807	Number of level 1 events

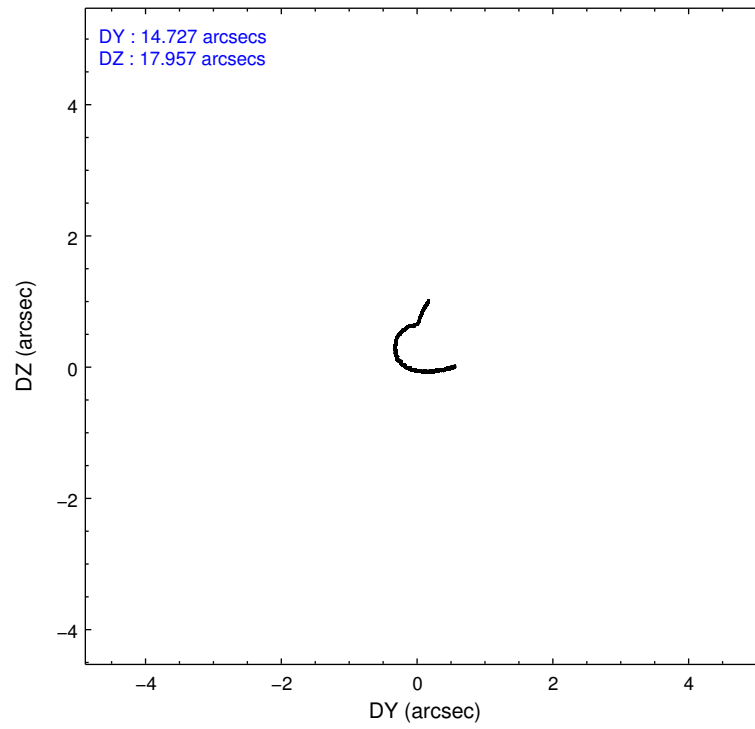
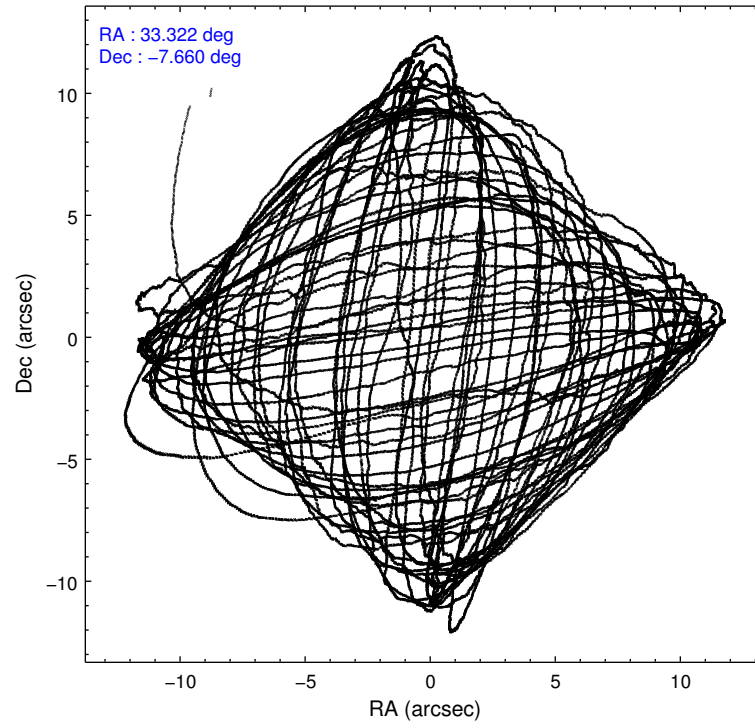
2.1.4 Events

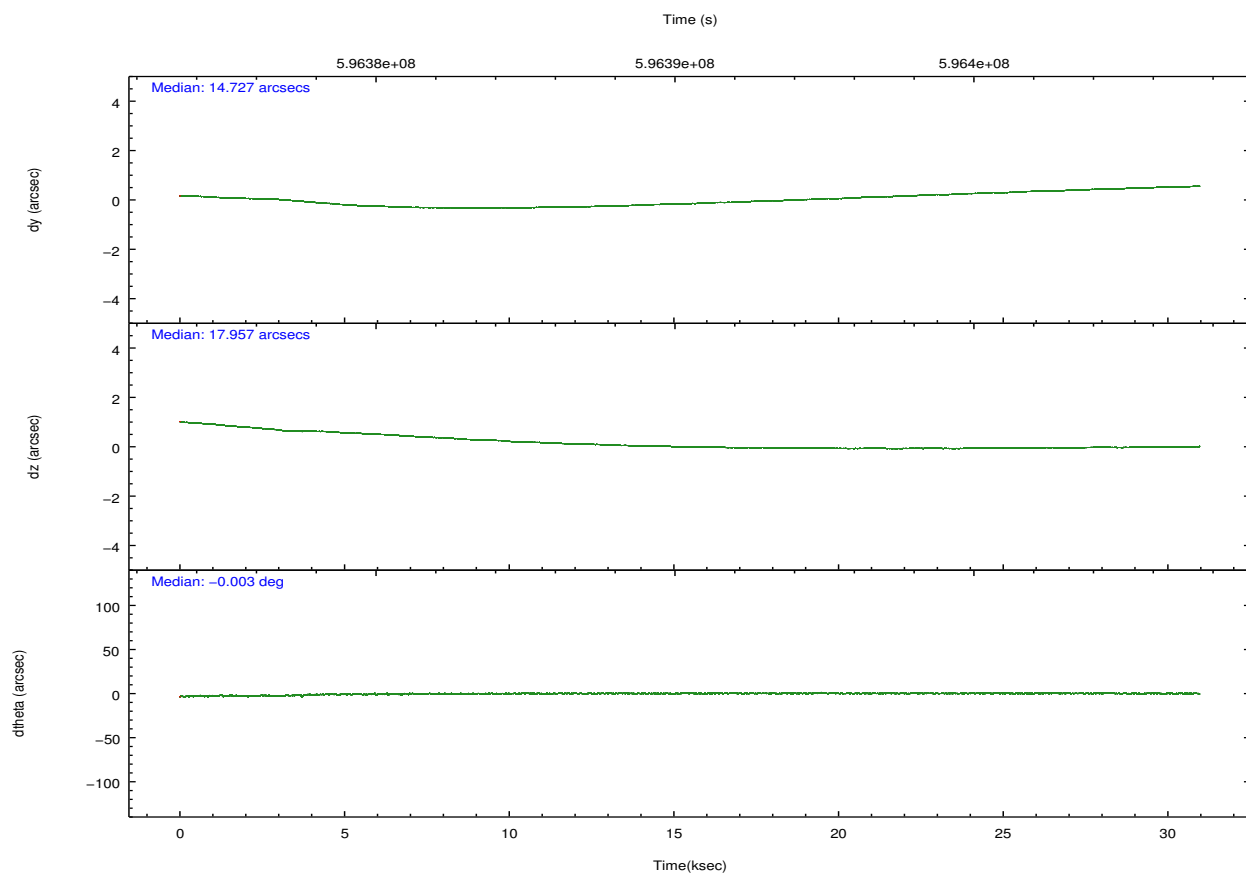
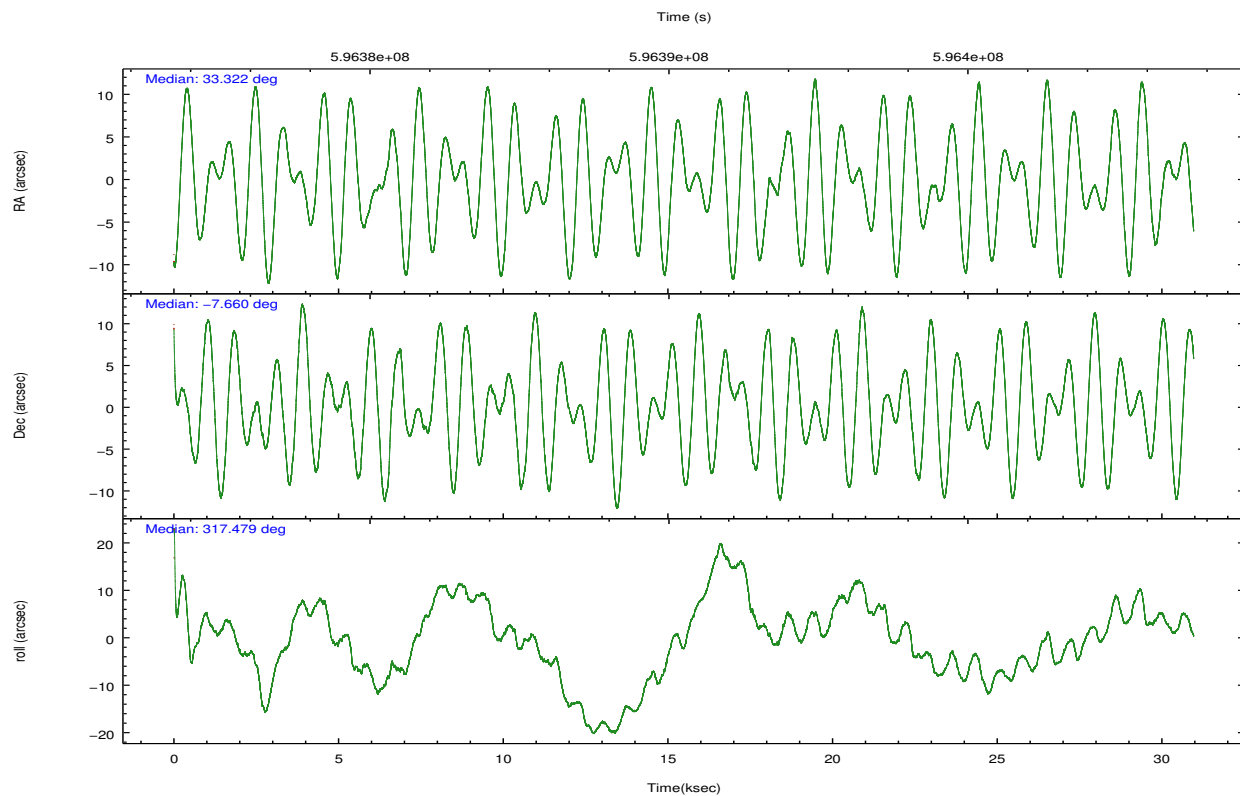
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	197791	194611	210143	265563	267699	grade 0 events	7575	7180	7901	9896	19332
rejected events	176422	173819	186389	149281	197936		3%	3%	3%	3%	7%
rejected %	89%	89%	88%	56%	73%	grade 1 events	125	127	99	357	227
							0%	0%	0%	0%	0%
						grade 2 events	5260	4607	5514	24803	17787
							2%	2%	2%	9%	6%
						grade 3 events	2127	2224	2405	9360	7229
							1%	1%	1%	3%	2%
						grade 4 events	2246	2201	2321	9153	6621
							1%	1%	1%	3%	2%
						grade 5 events	8059	9539	9796	26172	14659
							4%	4%	4%	9%	5%
						grade 6 events	4164	4582	5616	63078	18794
							2%	2%	2%	23%	7%
						grade 7 events	168235	164151	176491	122744	183050
							85%	84%	83%	46%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	33.294851	33.32197874425643	CCD I2 on	O2	Y
[deg] Pointing Dec	-7.654491	-7.660076118901452	CCD I3 on	O3	Y
[deg] Pointing Roll	317.323737	317.4839928292169	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	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	O4	Y
[s] Observation start time (MET)	596375973.184000	596374476.57601	CCD S5 on	N	N
Observation start date	2016-11-24T11:58:25	2016-11-24T11:34:36	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	596405973.184000	596406941.40289	On-chip summing requested	N	N
Observation end date	2016-11-24T20:18:25	2016-11-24T20:35:41	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



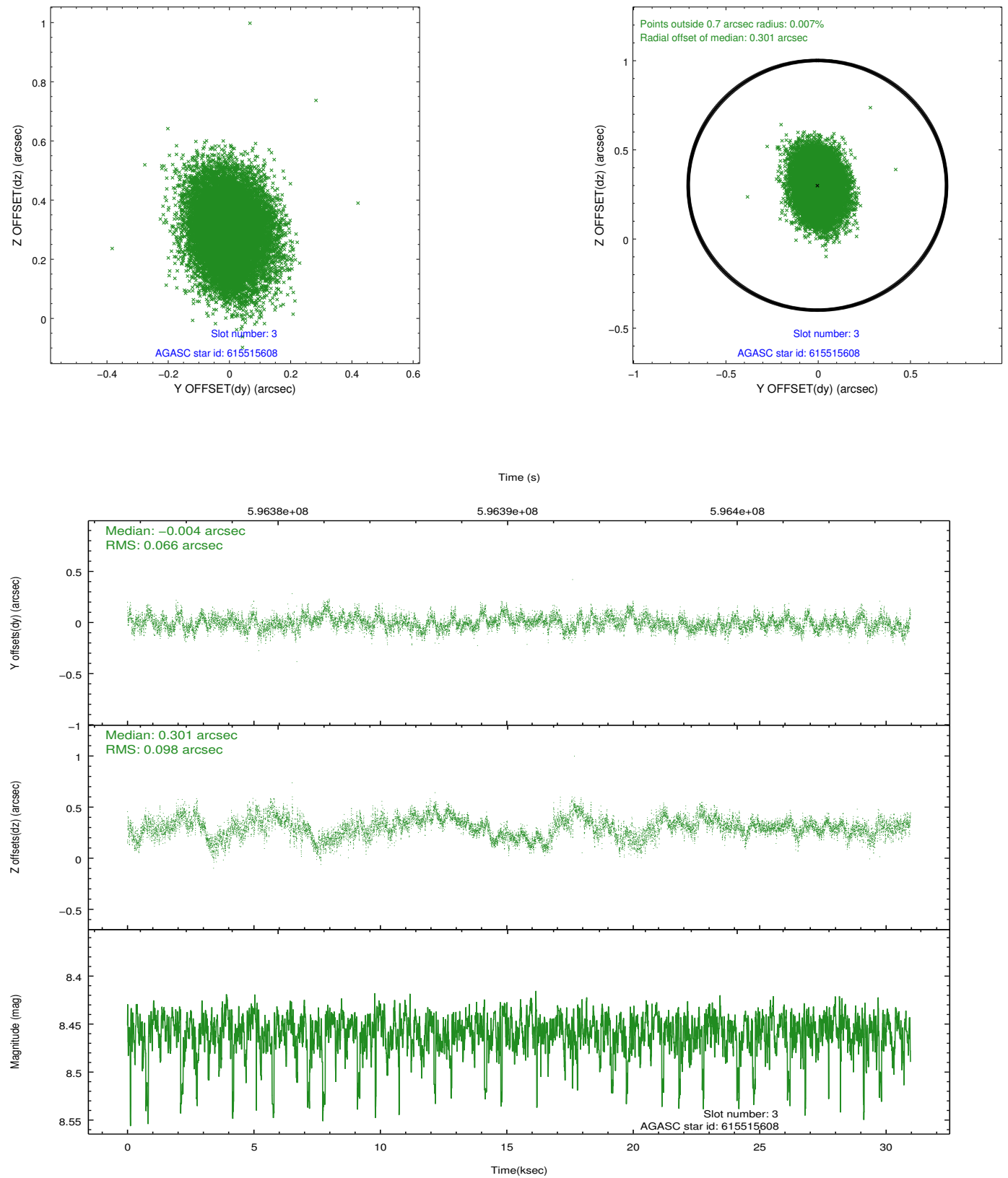


Slot Statistics

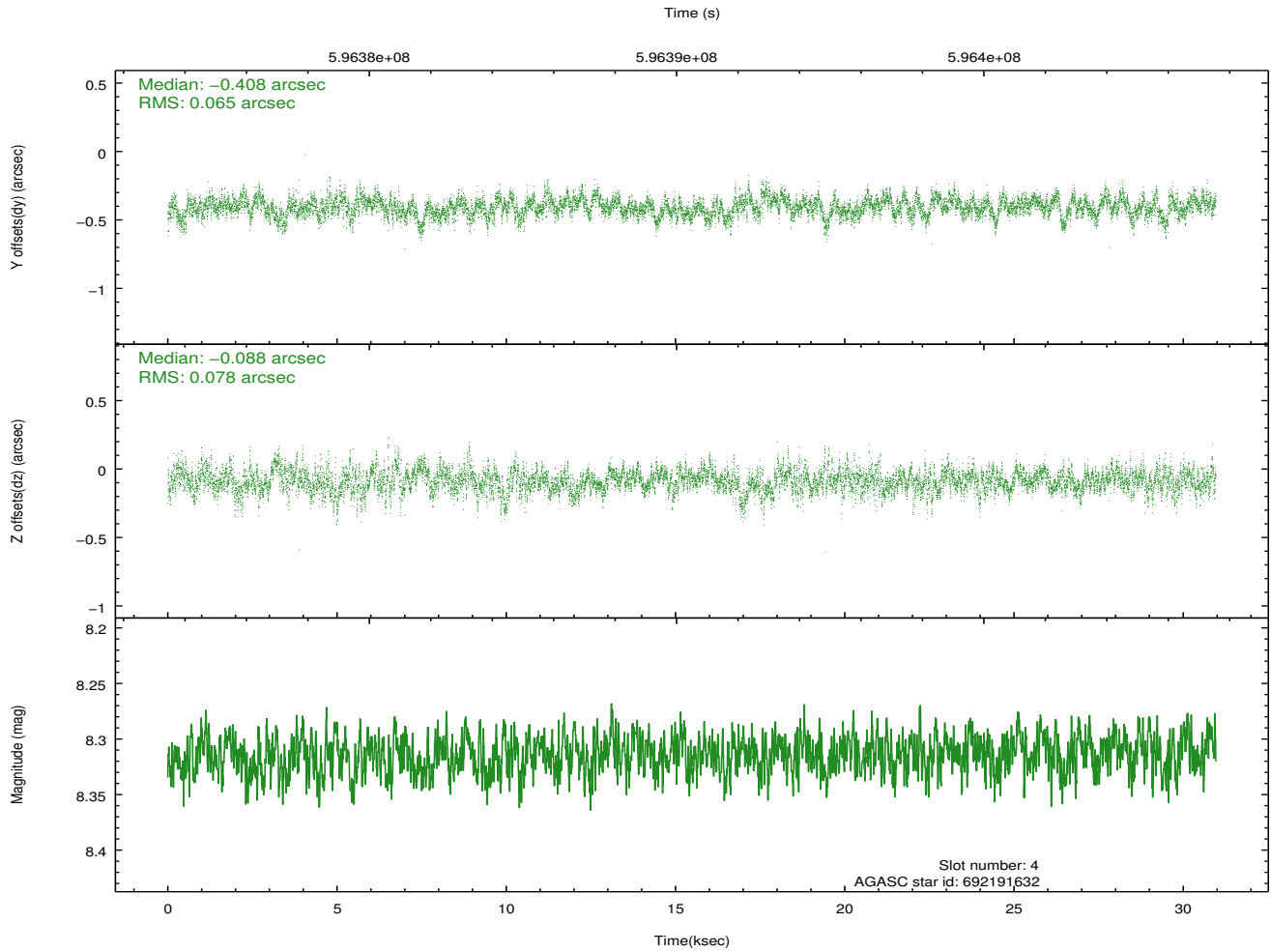
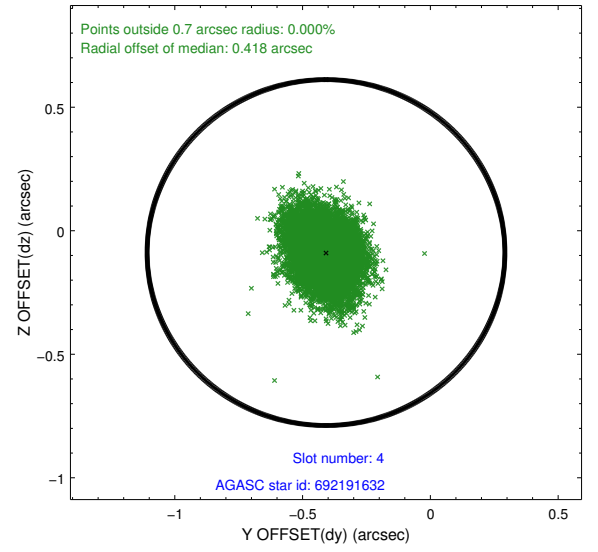
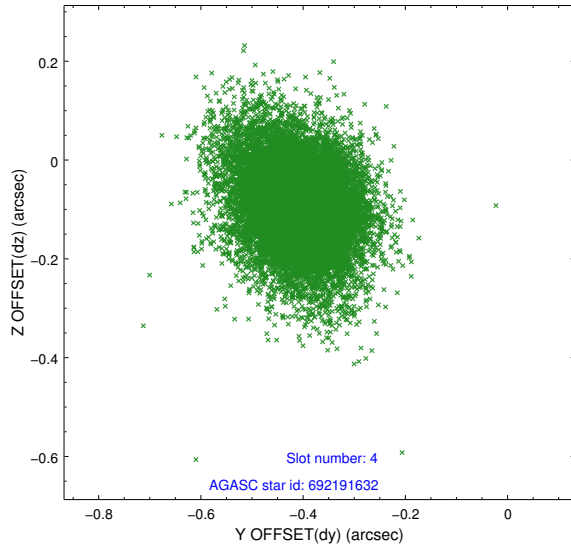
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.01	7553	-0.173	-0.113	0.012	0.021	0.000000	0.000000	-767.90	-1739.71
1	FID		ACIS-S-4	7.11	7552	0.447	0.114	0.009	0.019	0.000000	0.000000	2145.99	168.90
2	FID		ACIS-S-5	7.10	7553	-0.305	0.009	0.009	0.015	0.000000	0.000000	-1820.77	162.59
3	GUIDE	used	615515608	8.46	15095	-0.004	0.301	0.124	0.209	32.802577	-7.326845	-2090.82	-324.98
4	GUIDE	used	692191632	8.31	15102	-0.408	-0.088	0.105	0.182	33.757325	-7.570746	1009.24	1339.68
5	GUIDE	used	692191800	9.21	15085	0.070	0.250	0.135	0.218	33.237265	-7.654851	-149.40	-139.39
6	GUIDE	used	692192080	8.69	15092	0.556	-0.506	0.117	0.196	33.468428	-7.959581	1200.46	-388.52
7	GUIDE	used	692191832	9.53	15091	-0.206	0.049	0.197	0.309	34.210417	-7.654073	2404.03	2213.35

2.4 Star Slots

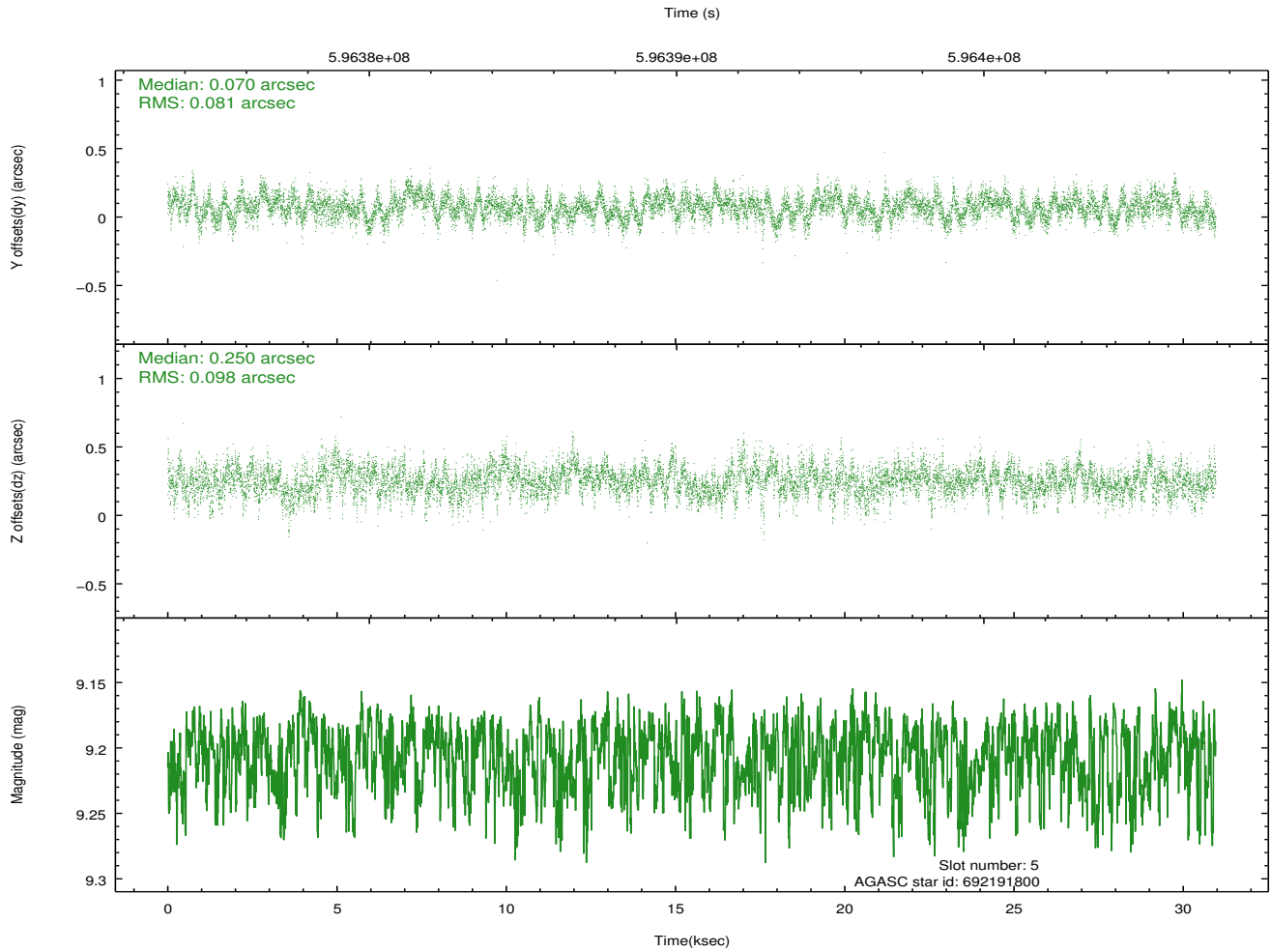
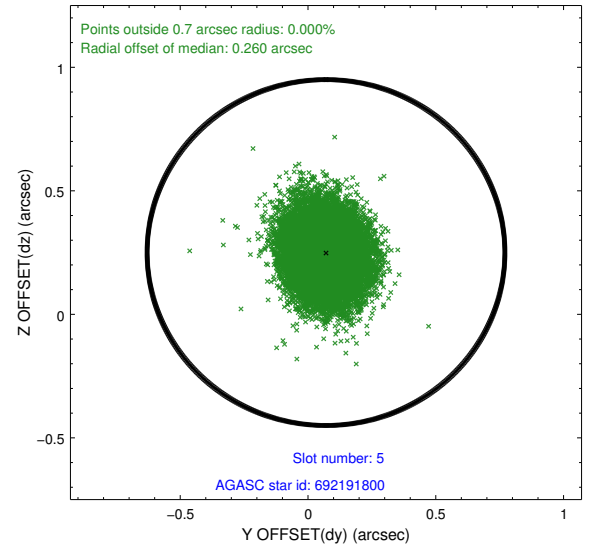
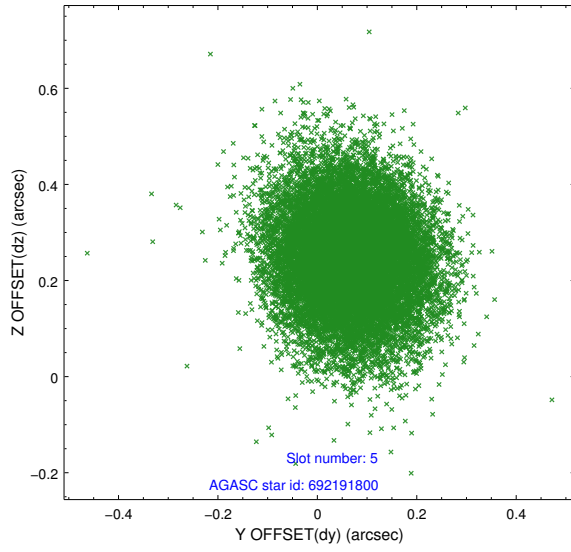
2.4.1 Slot 3



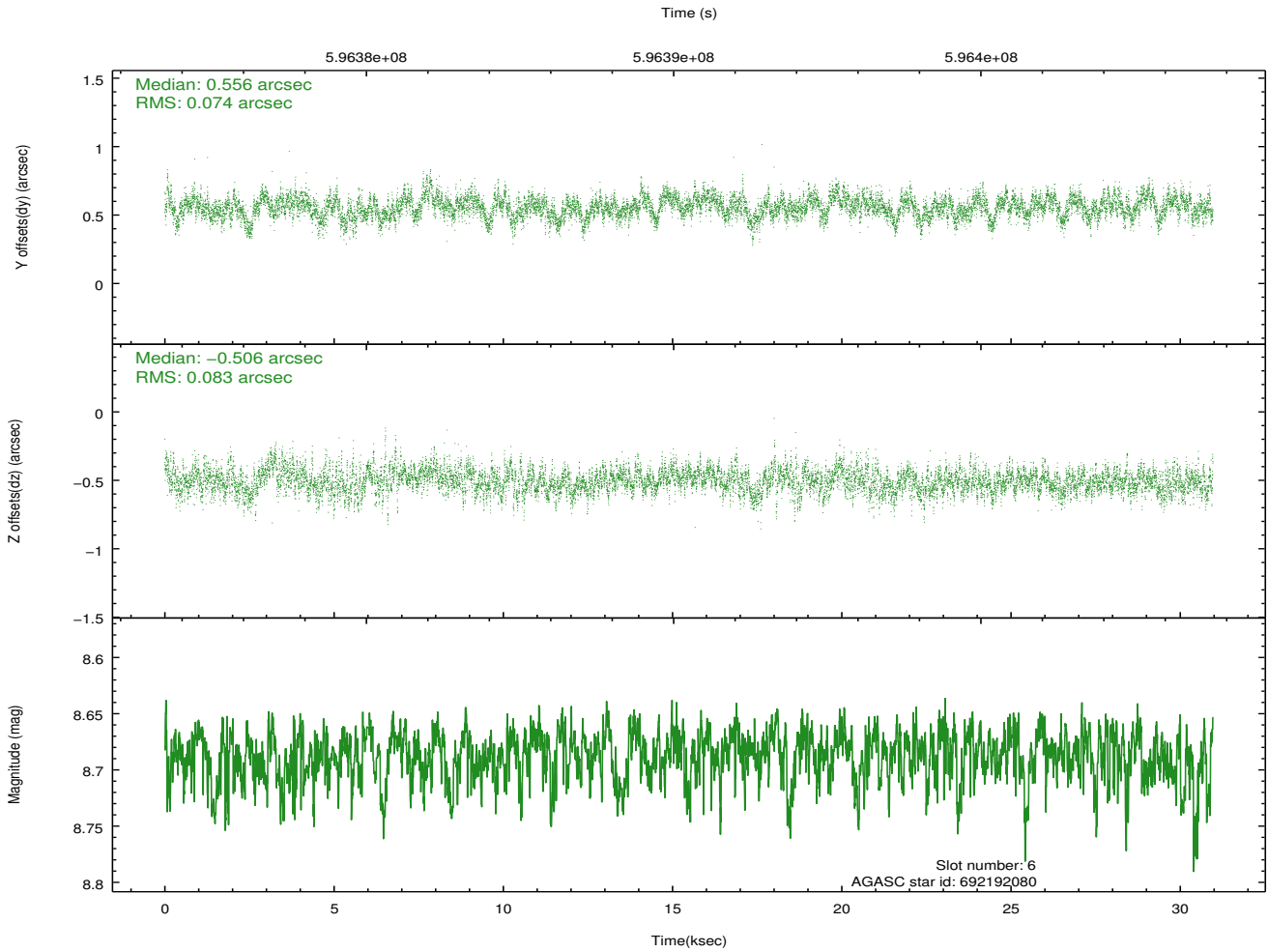
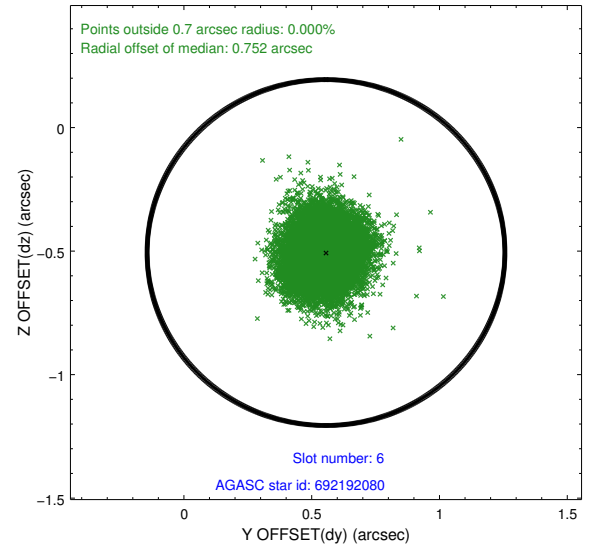
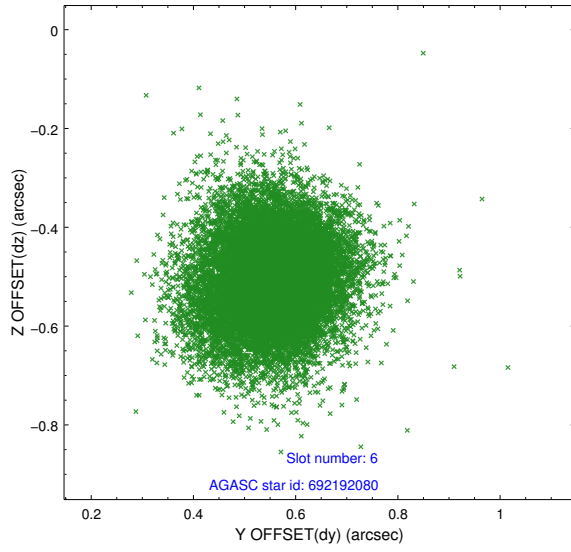
2.4.2 Slot 4



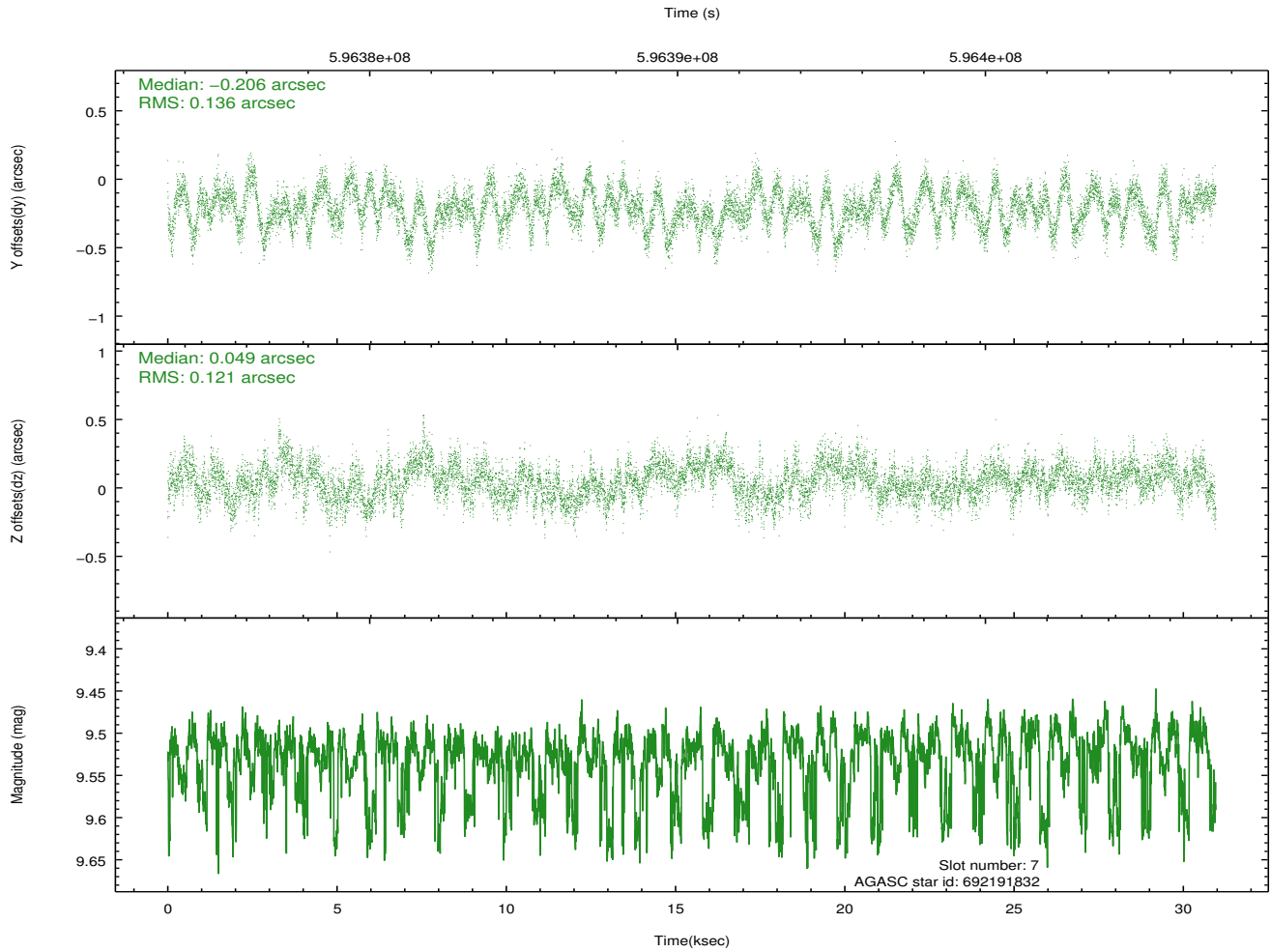
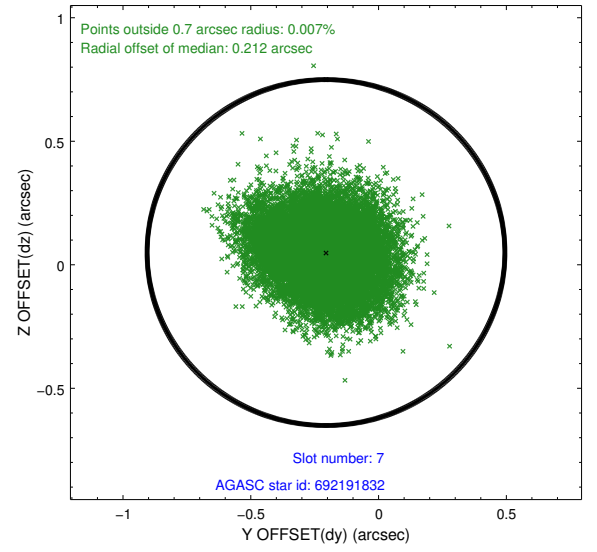
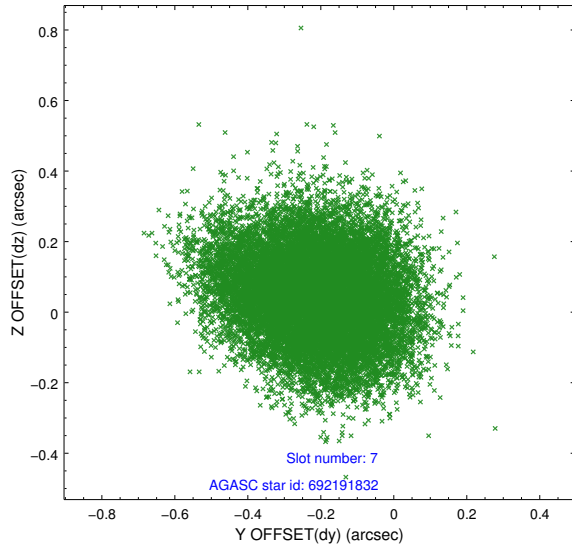
2.4.3 Slot 5



2.4.4 Slot 6

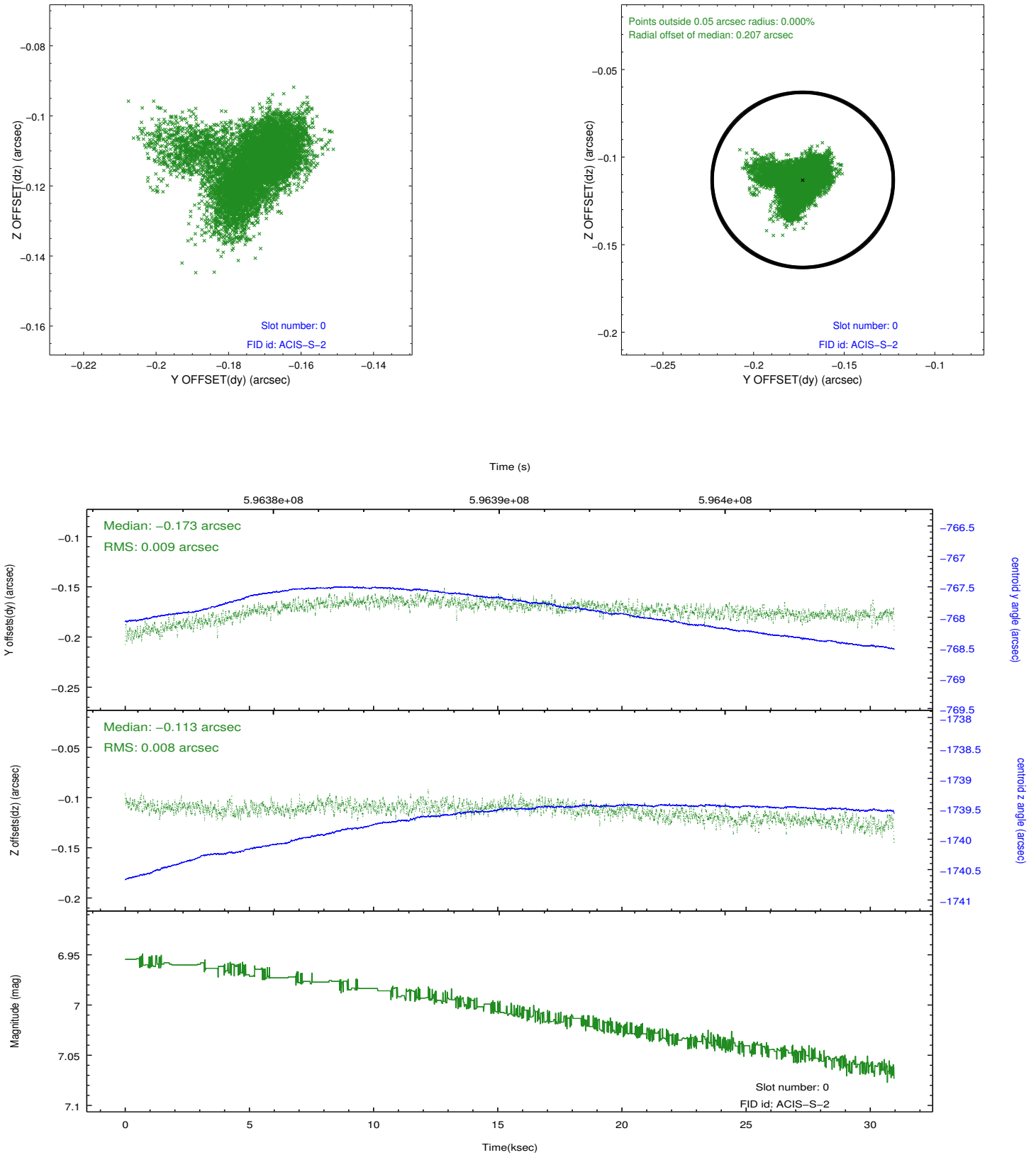


2.4.5 Slot 7

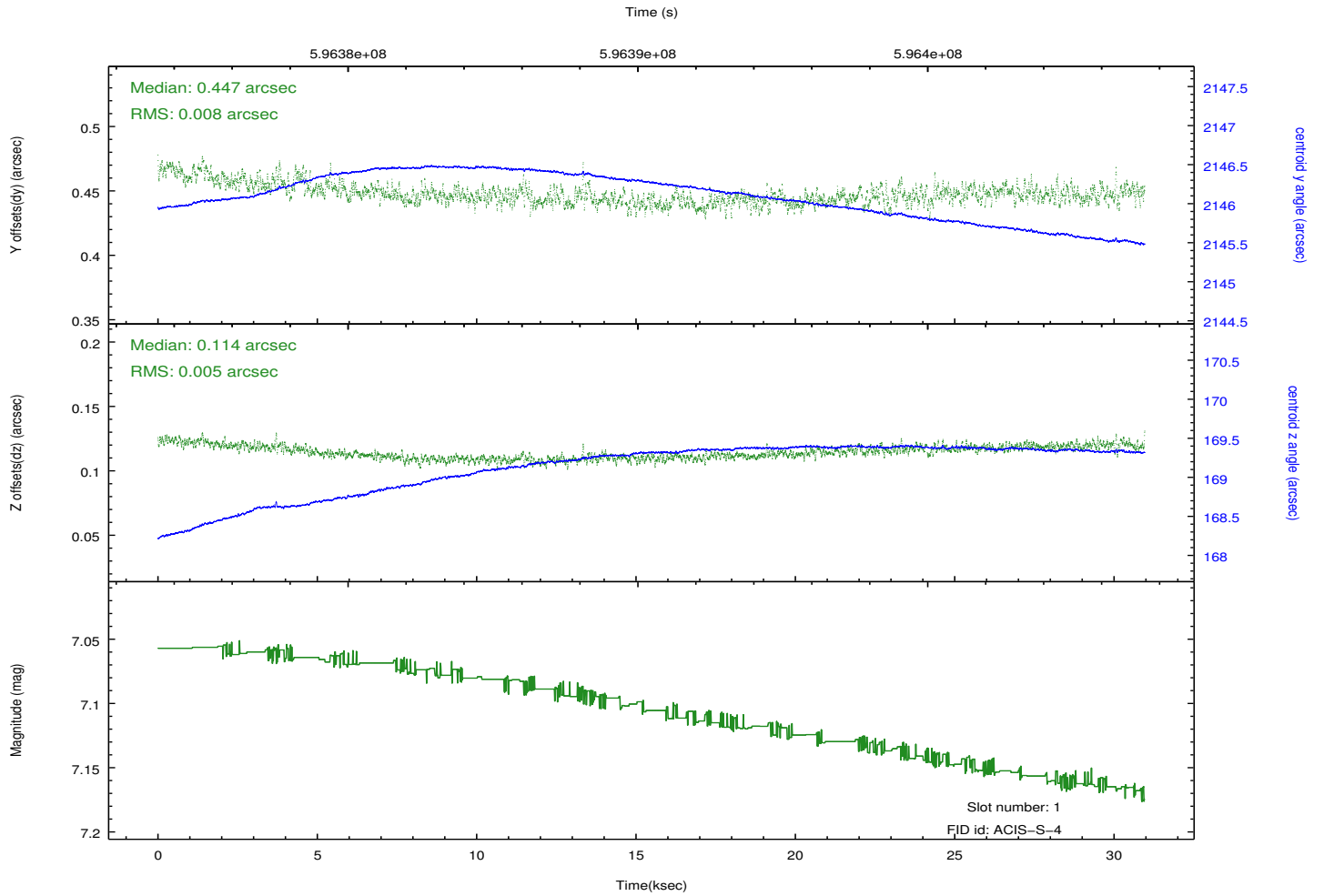
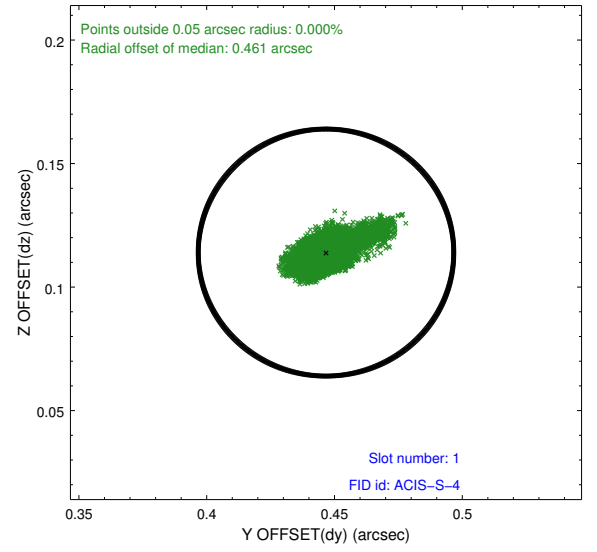
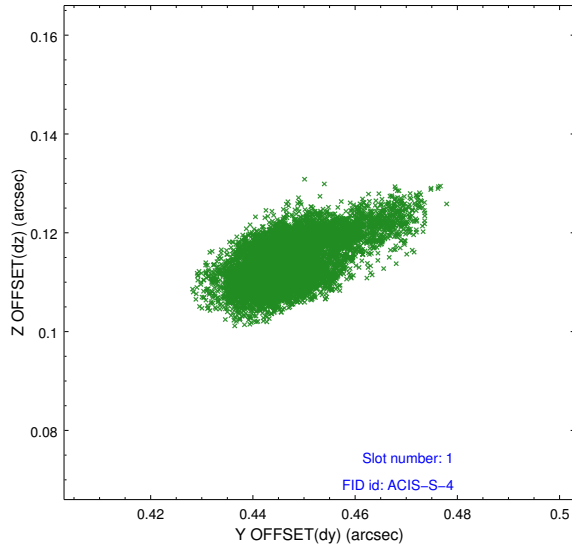


2.5 FID Slots

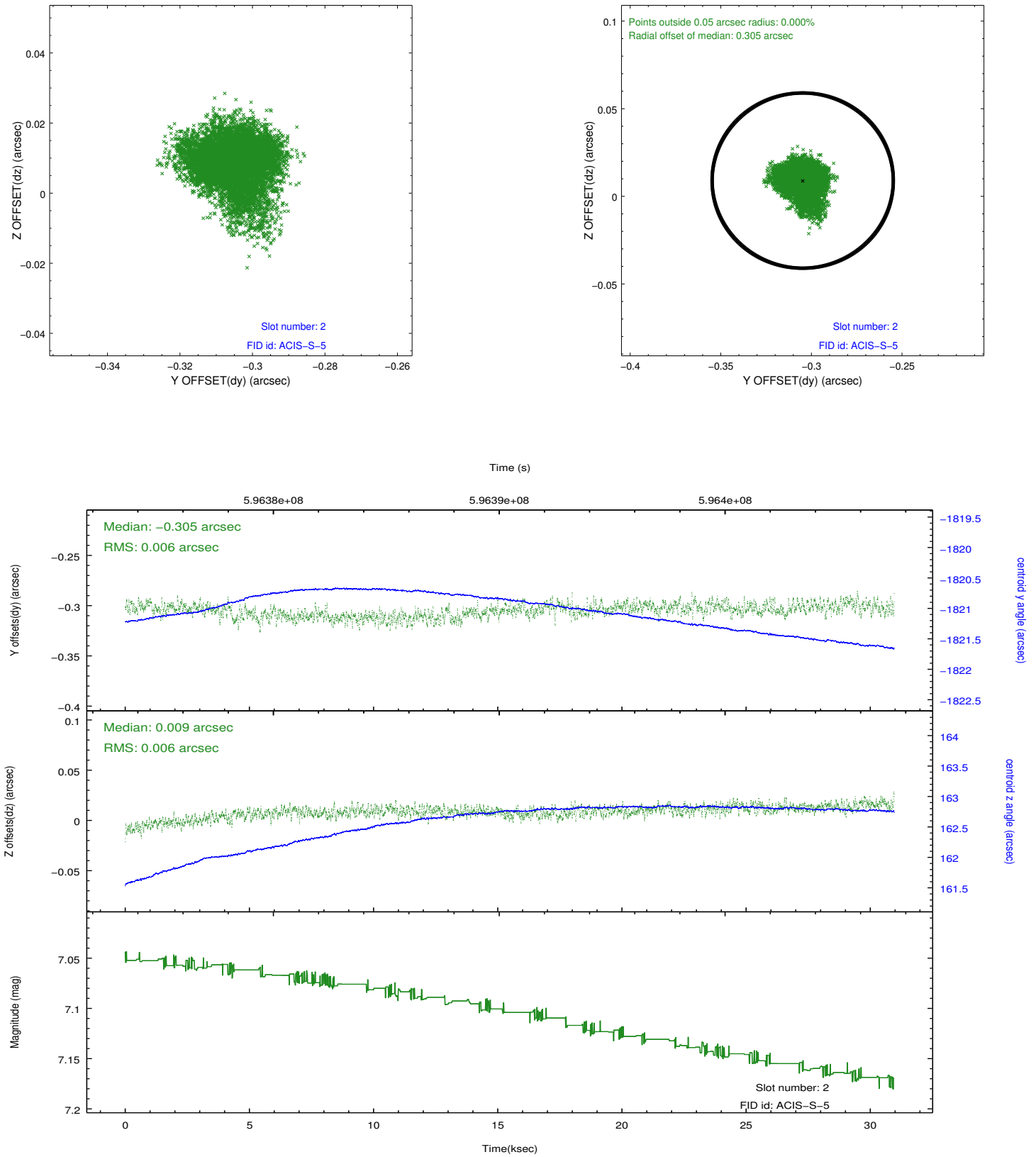
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.11.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.059504567862

A.2 Comments