

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21520 - L2 Version 1
Chandra X-Ray Center

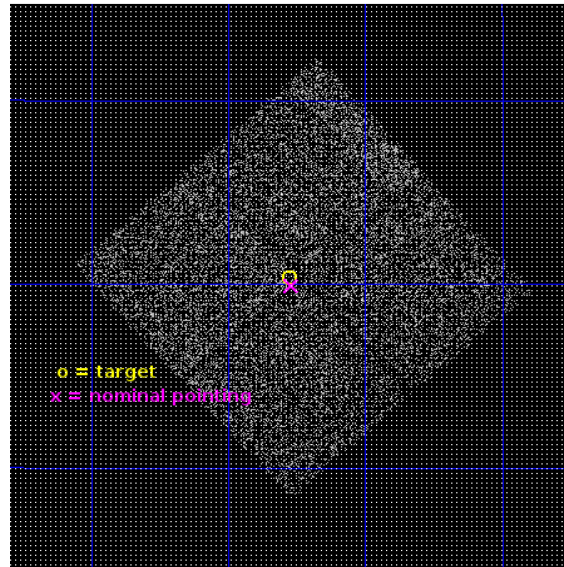
L2 Processing Date : May 27 2019

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1 Front

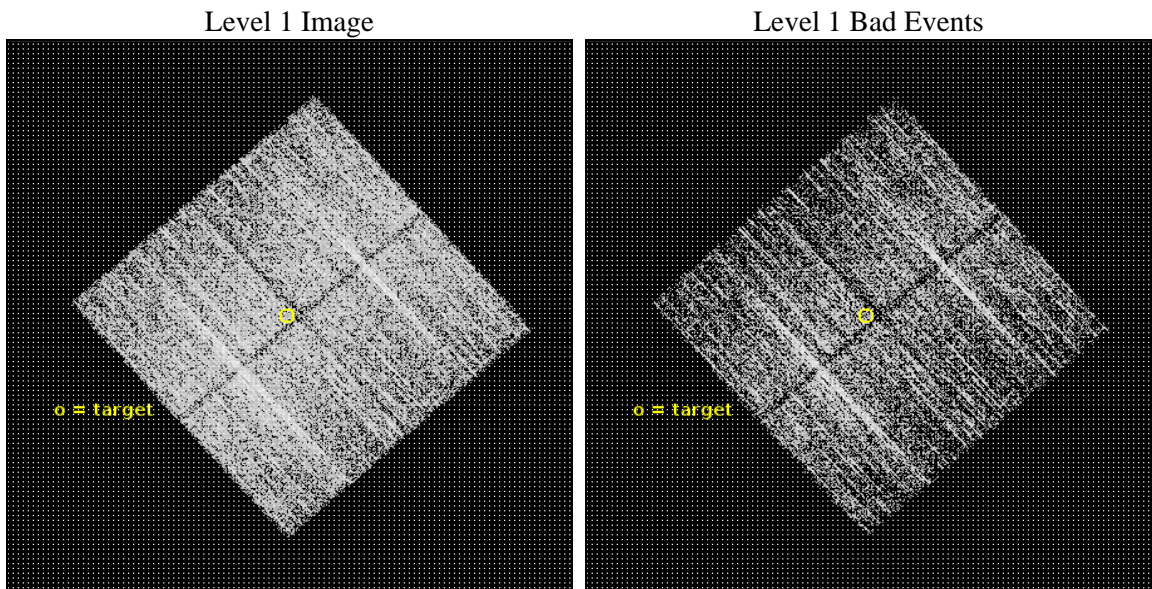
seq_num	703813	Sequence number
obs_id	21520	Observation id
title	Black Holes in Green Peas?	Proposal title
observer	Sangeeta Malhotra	Principal investigator
object	J132916.55+170020.9	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	202.319167	Observer's specified target RA [deg]
dec_targ	17.005833	Observer's specified target Dec [deg]
ra_nom	202.31732731865	Nominal RA [deg]
dec_nom	16.998521155846	Nominal Dec [deg]
roll_nom	228.40924004018	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5080.900039196	Sum of GTIs [s]
livetime	5014.5143396797	Livetime [s]
ontime0	5080.900039196	Sum of GTIs [s]
ontime1	5077.7590290308	Sum of GTIs [s]
ontime2	5080.900039196	Sum of GTIs [s]
ontime3	5080.900039196	Sum of GTIs [s]
l2events	14873	Number of level 2 events



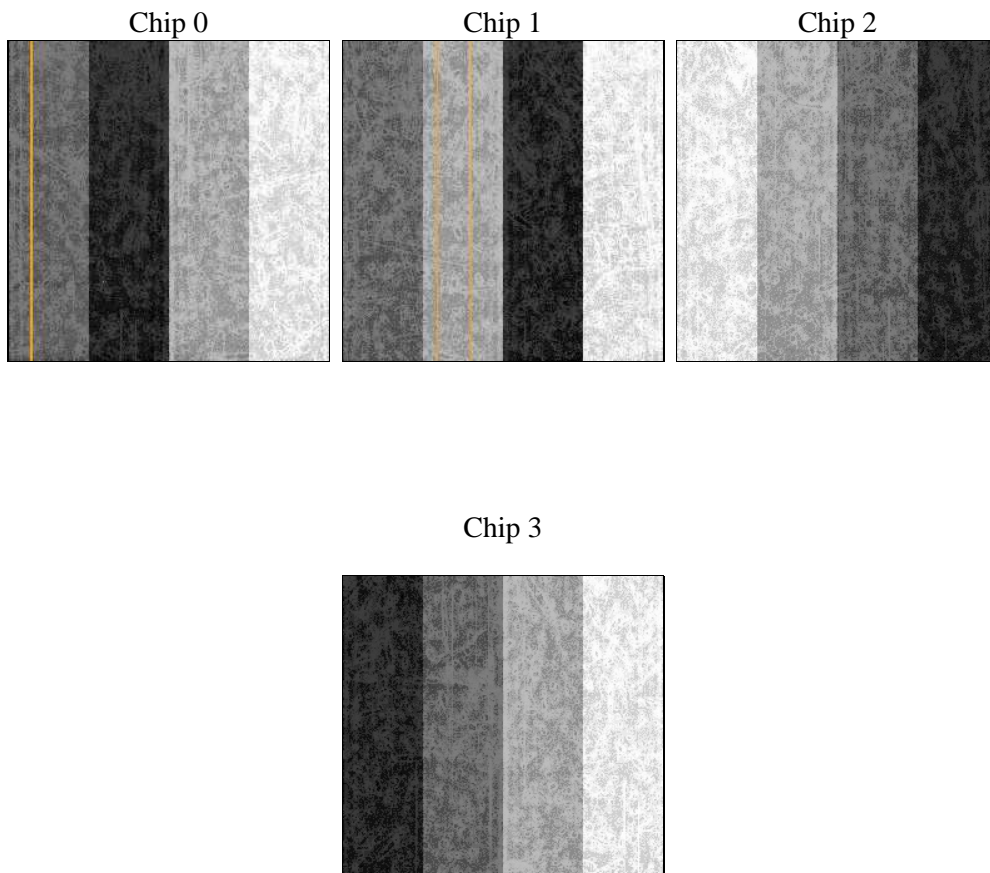
2 OBI

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	10.7.1	Processing system revision	ontime	5080.900039196	Sum of GTIs [s]
caldsver	4.8.3	 	ontime0	5080.900039196	Sum of GTIs [s]
date	2019-05-27T13:18:13	Date and time of file creation	ontime1	5077.7590290308	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5080.900039196	Sum of GTIs [s]
			ontime3	5080.900039196	Sum of GTIs [s]
			l1events	148039	Number of level 1 events

2.1.4 Events

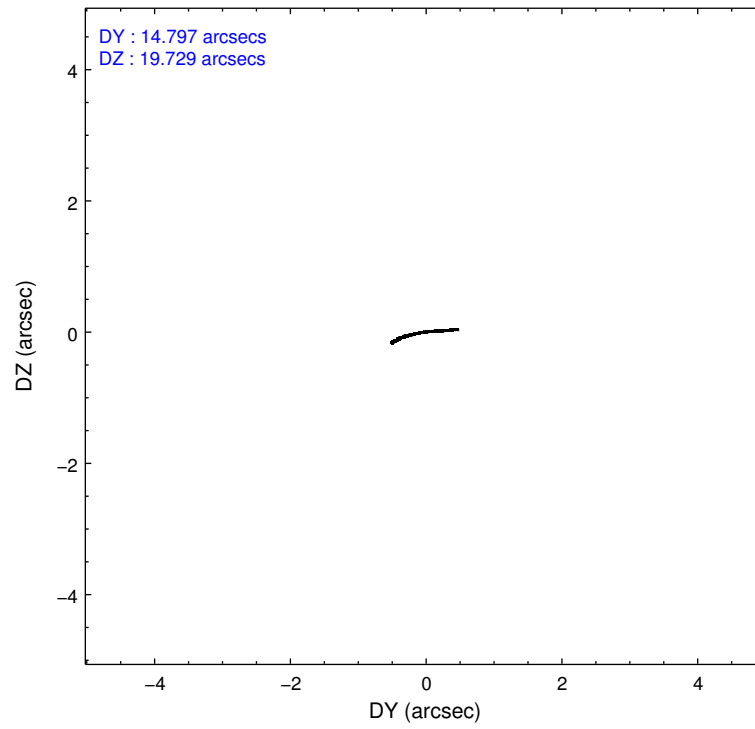
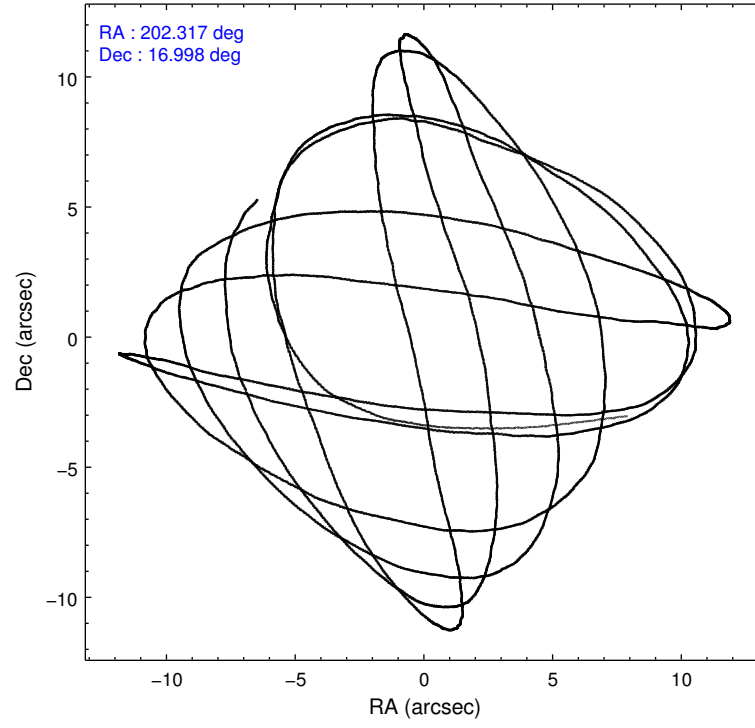
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	35236	36706	38311	37786
rejected events	30909	31683	34070	33489
rejected %	87%	86%	88%	88%

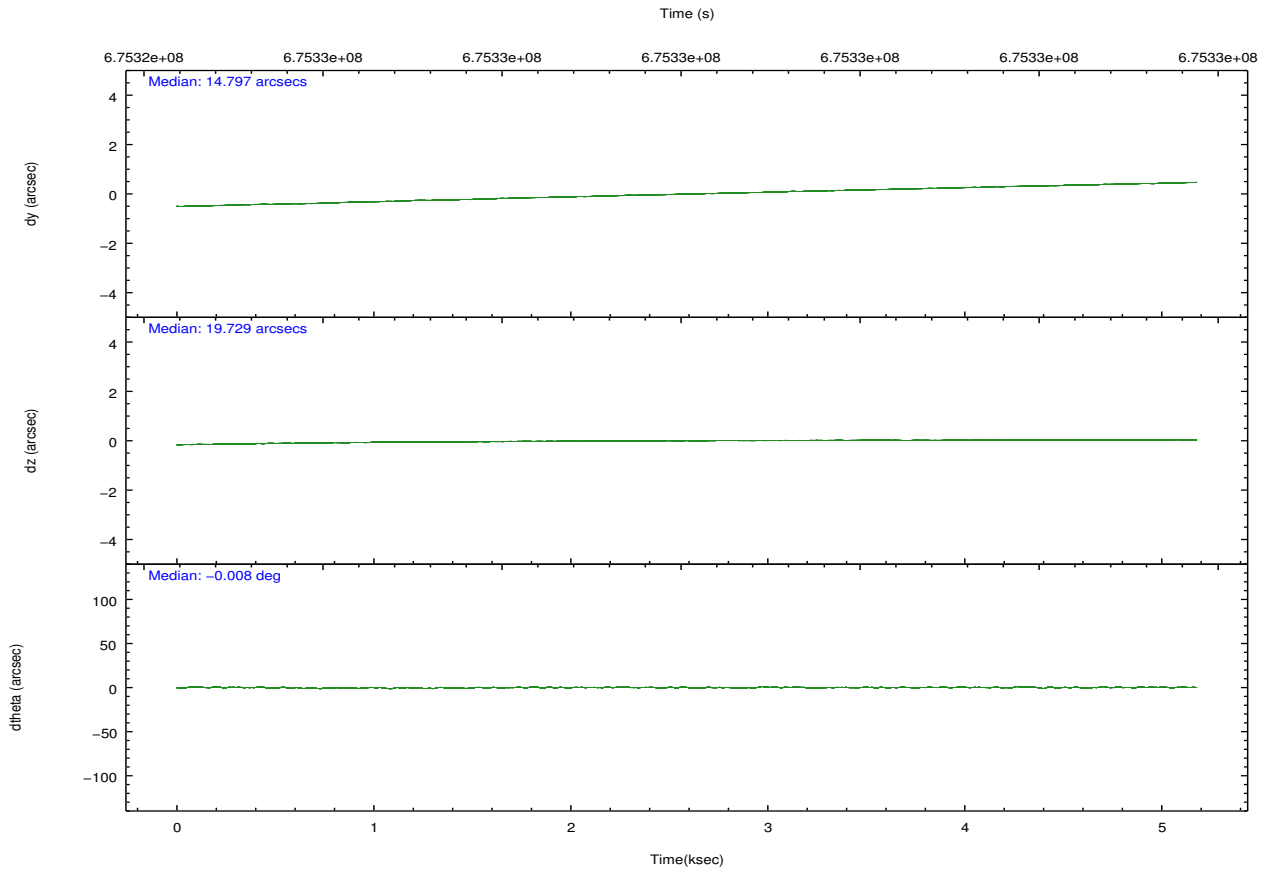
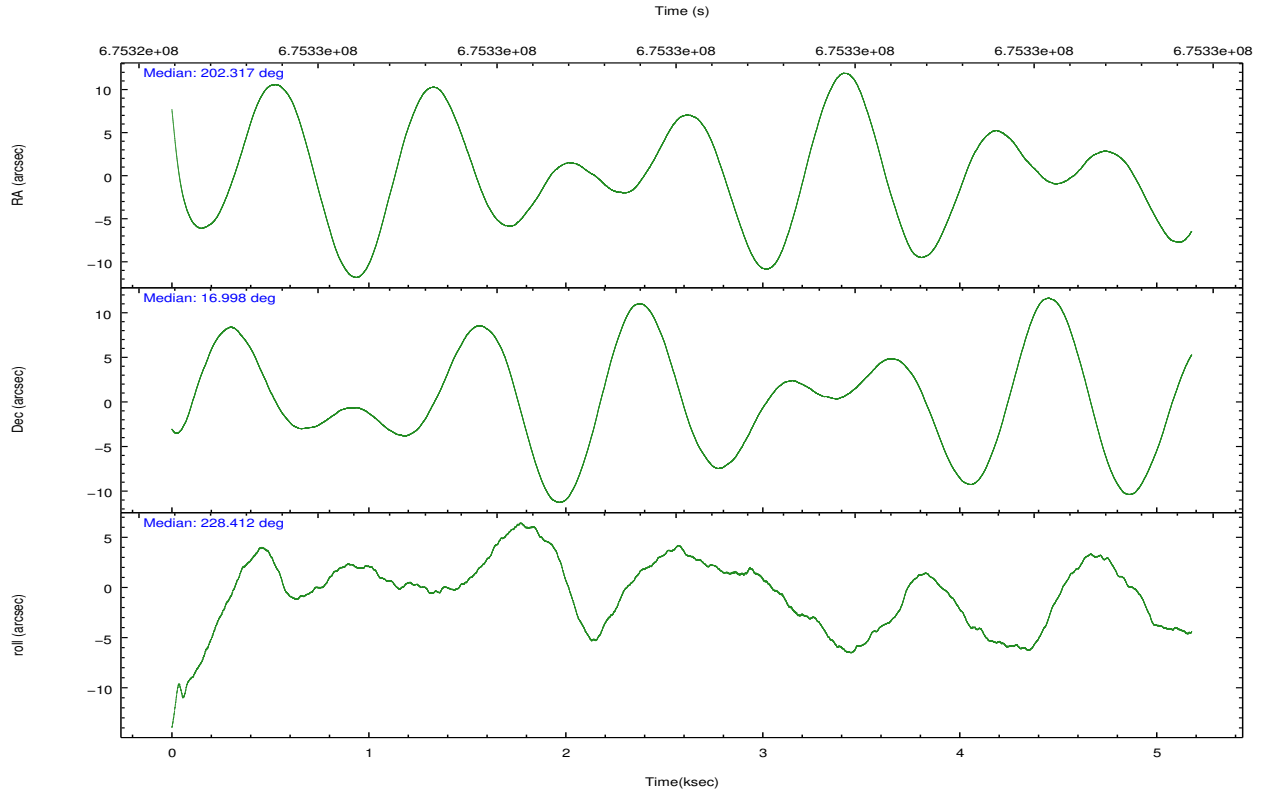
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1489	1725	1495	1623
	4%	4%	3%	4%
grade 1 events	29	21	32	25
	0%	0%	0%	0%
grade 2 events	1126	1263	1139	943
	3%	3%	2%	2%
grade 3 events	420	460	376	394
	1%	1%	0%	1%
grade 4 events	423	476	412	453
	1%	1%	1%	1%
grade 5 events	1662	1829	1531	1734
	4%	4%	3%	4%
grade 6 events	870	1103	820	887
	2%	3%	2%	2%
grade 7 events	29217	29829	32506	31727
	82%	81%	84%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	202.323055	202.3173273186526	Subarray requested	NONE	NONE
[deg] Pointing Dec	17.025585	16.99852115584595	Alternating exposures requested	N	N
[deg] Pointing Roll	228.198861	228.4092400401819	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	675325631.184000	675324677.85546			
Observation start date	2019-05-27T06:26:02	2019-05-27T06:11:17			
[s] Observation end time (MET)	675330631.184000	675331314.73085			
Observation end date	2019-05-27T07:49:22	2019-05-27T08:01:54			
Read mode	TIMED	TIMED			

2.3 Aspect



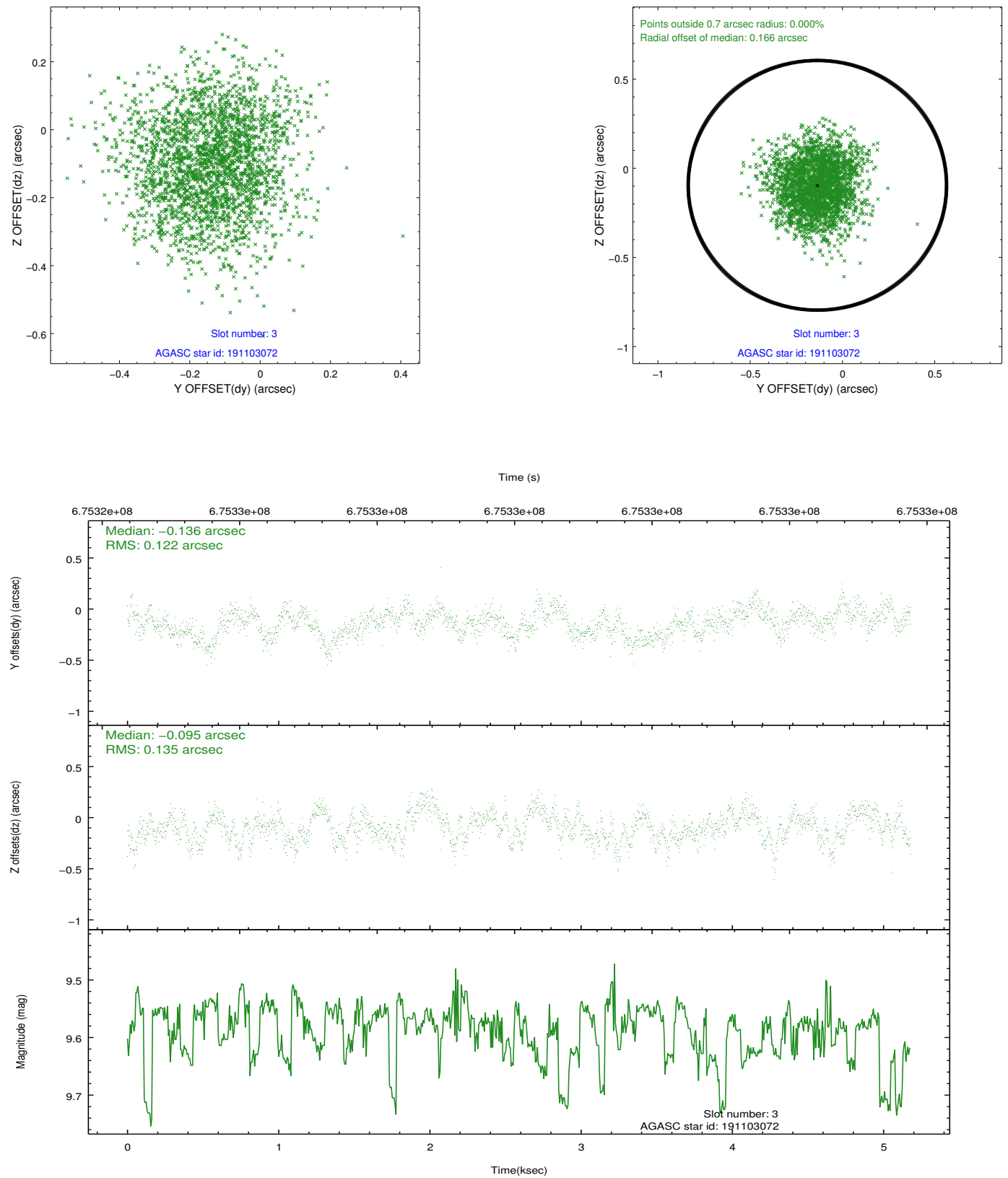


Slot Statistics

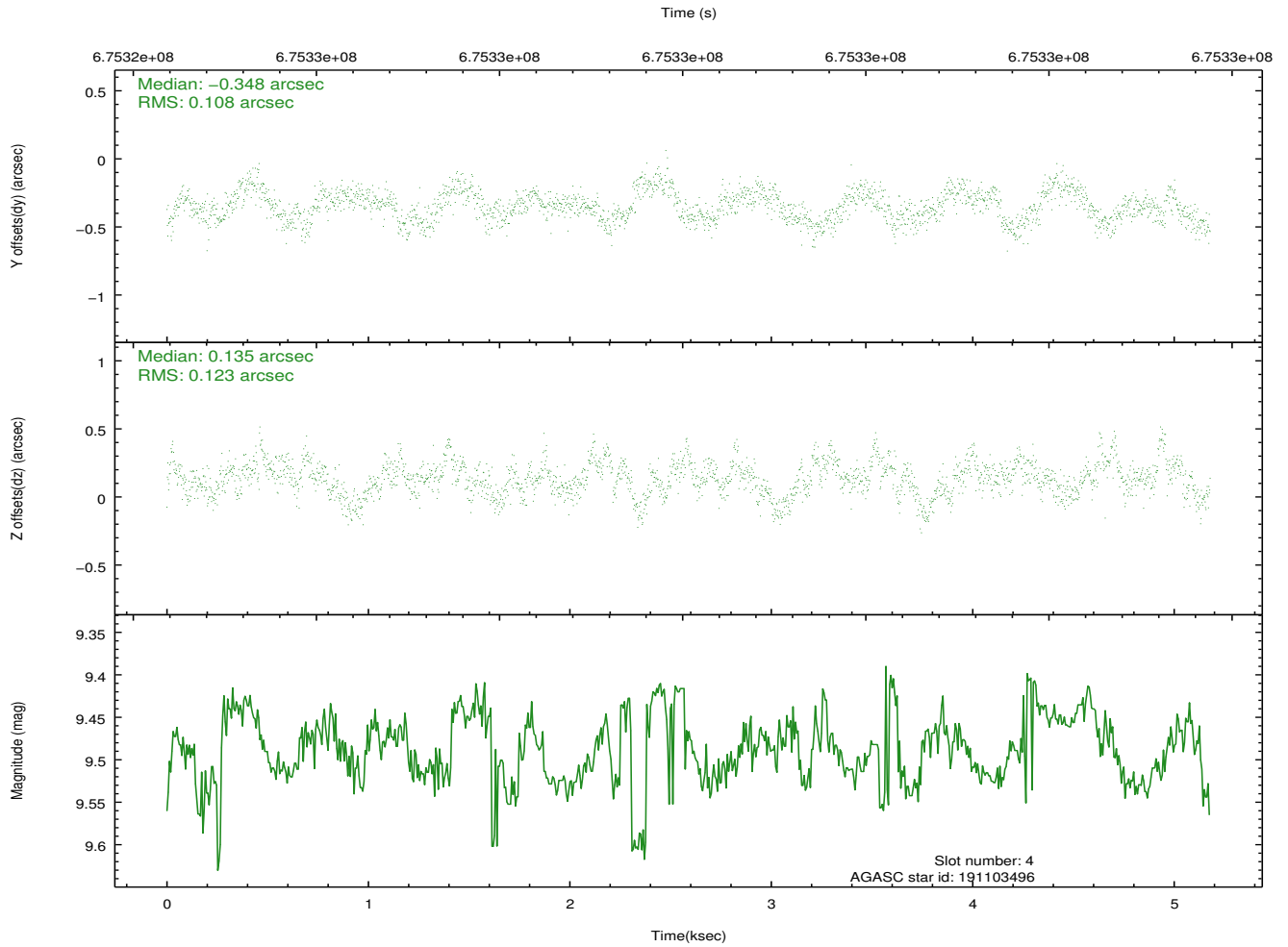
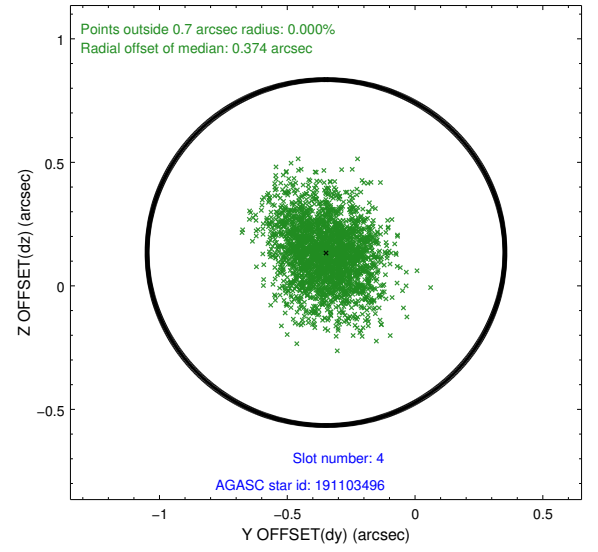
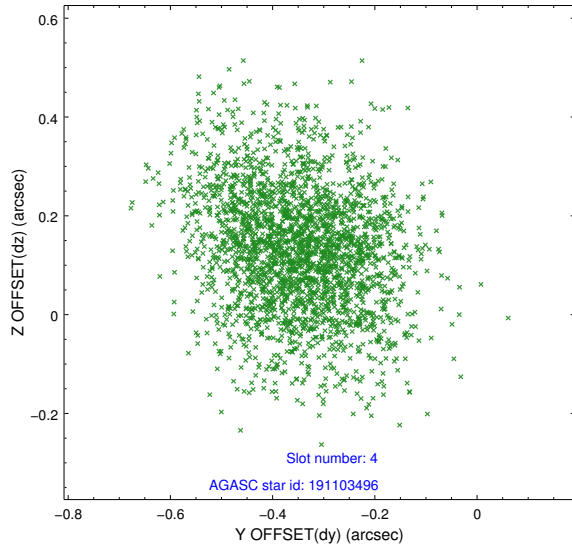
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.16	1263	1.000	0.075	-0.036	0.010	0.019	0.000000	0.000000	924.85	-843
1	FID		ACIS-I-5	7.14	1263	1.000	-0.480	-0.000	0.010	0.017	0.000000	0.000000	-1823.38	1053
2	FID		ACIS-I-6	7.15	1262	1.000	0.316	0.106	0.010	0.018	0.000000	0.000000	389.08	1699
3	GUIDE	used	191103072	9.58	2521	1.000	-0.136	-0.095	0.195	0.311	202.484479	16.693912	519.03	1209
4	GUIDE	used	191103496	9.49	2526	1.000	-0.348	0.135	0.173	0.288	202.613087	16.725488	138.28	1465
5	GUIDE	used	191107768	8.14	2523	1.000	0.368	0.037	0.220	0.347	201.685100	16.948651	1667.57	-1456
6	GUIDE	used	191108384	9.84	2490	1.000	0.099	-0.360	0.344	0.557	202.085004	16.356790	2343.71	989
7	GUIDE	used	191242208	8.83	2520	1.000	0.012	0.240	0.125	0.203	202.960054	17.131294	-1745.70	1377

2.4 Star Slots

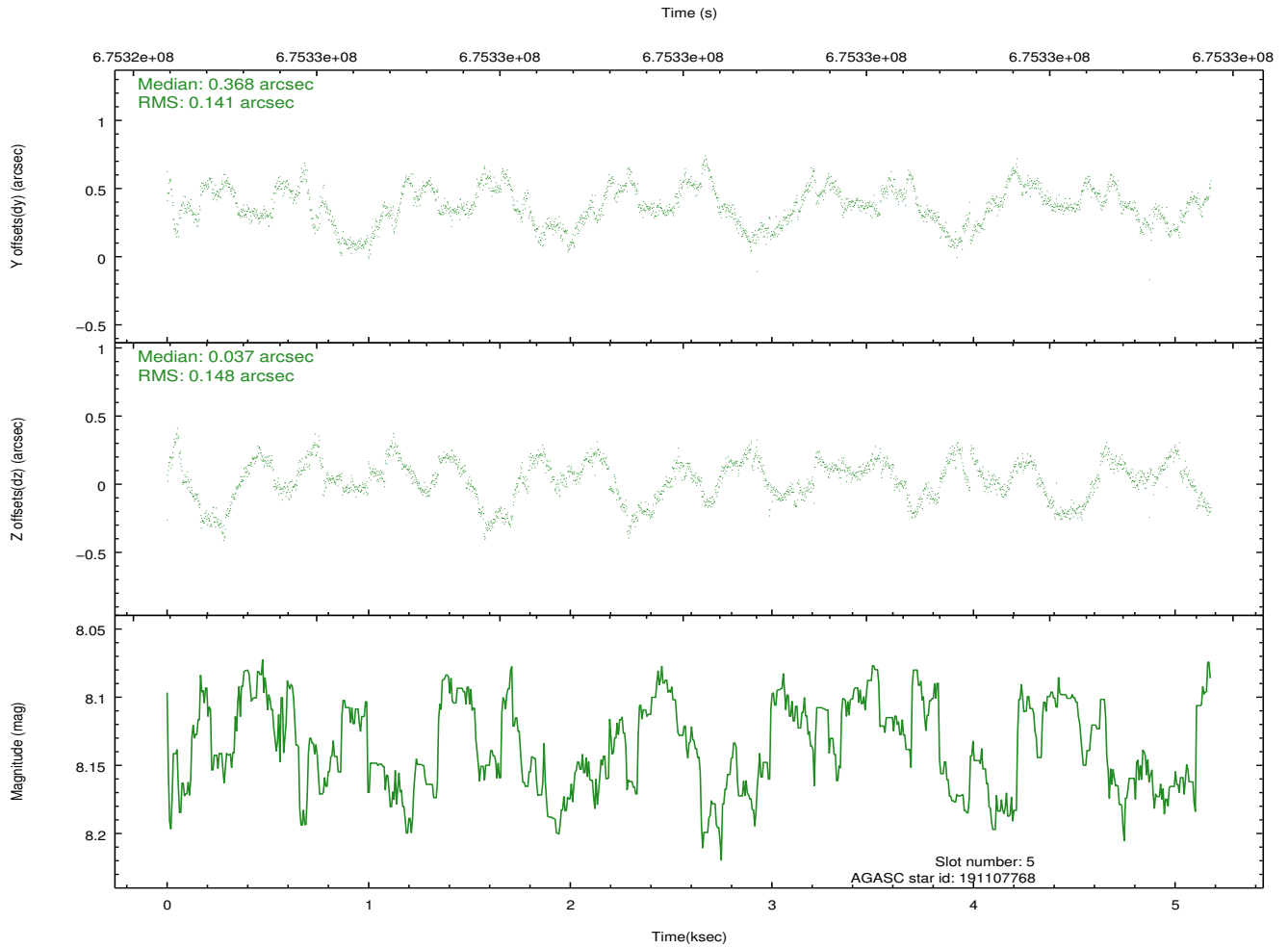
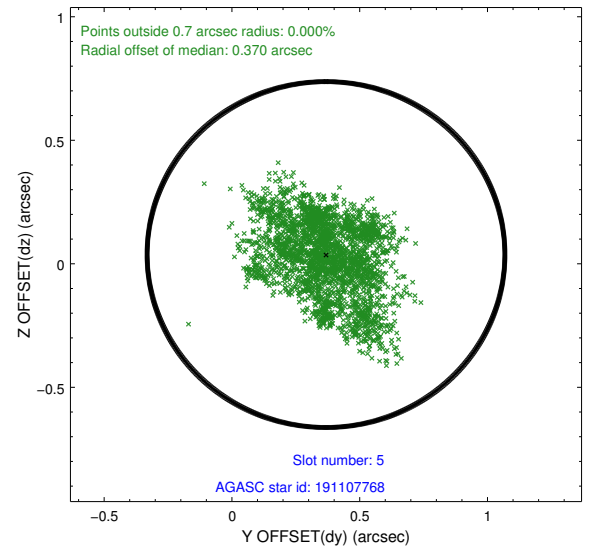
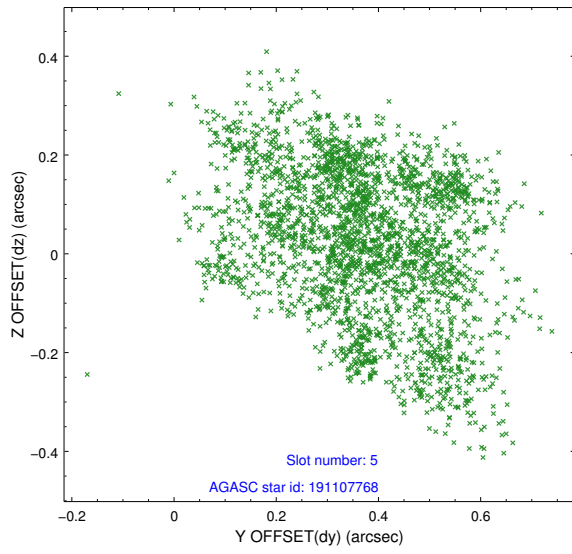
2.4.1 Slot 3



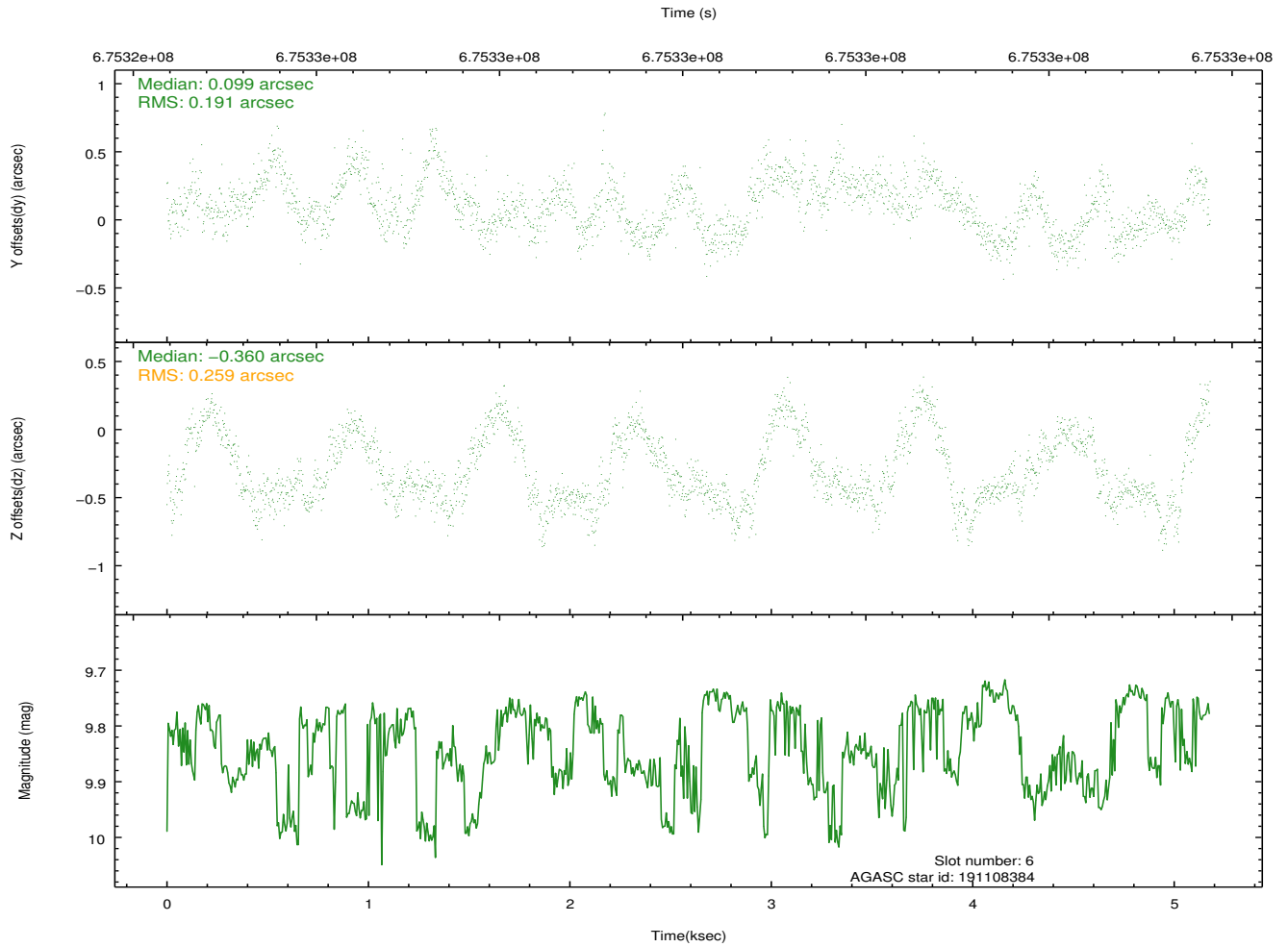
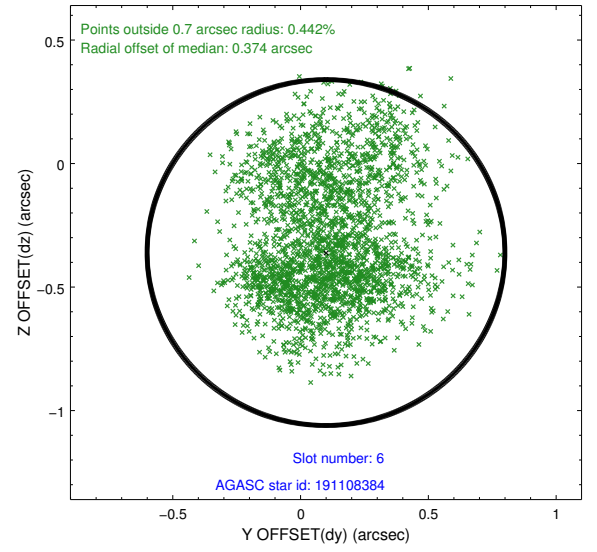
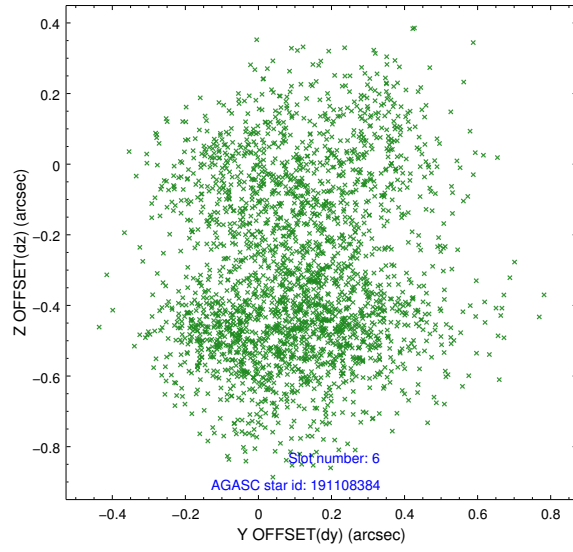
2.4.2 Slot 4



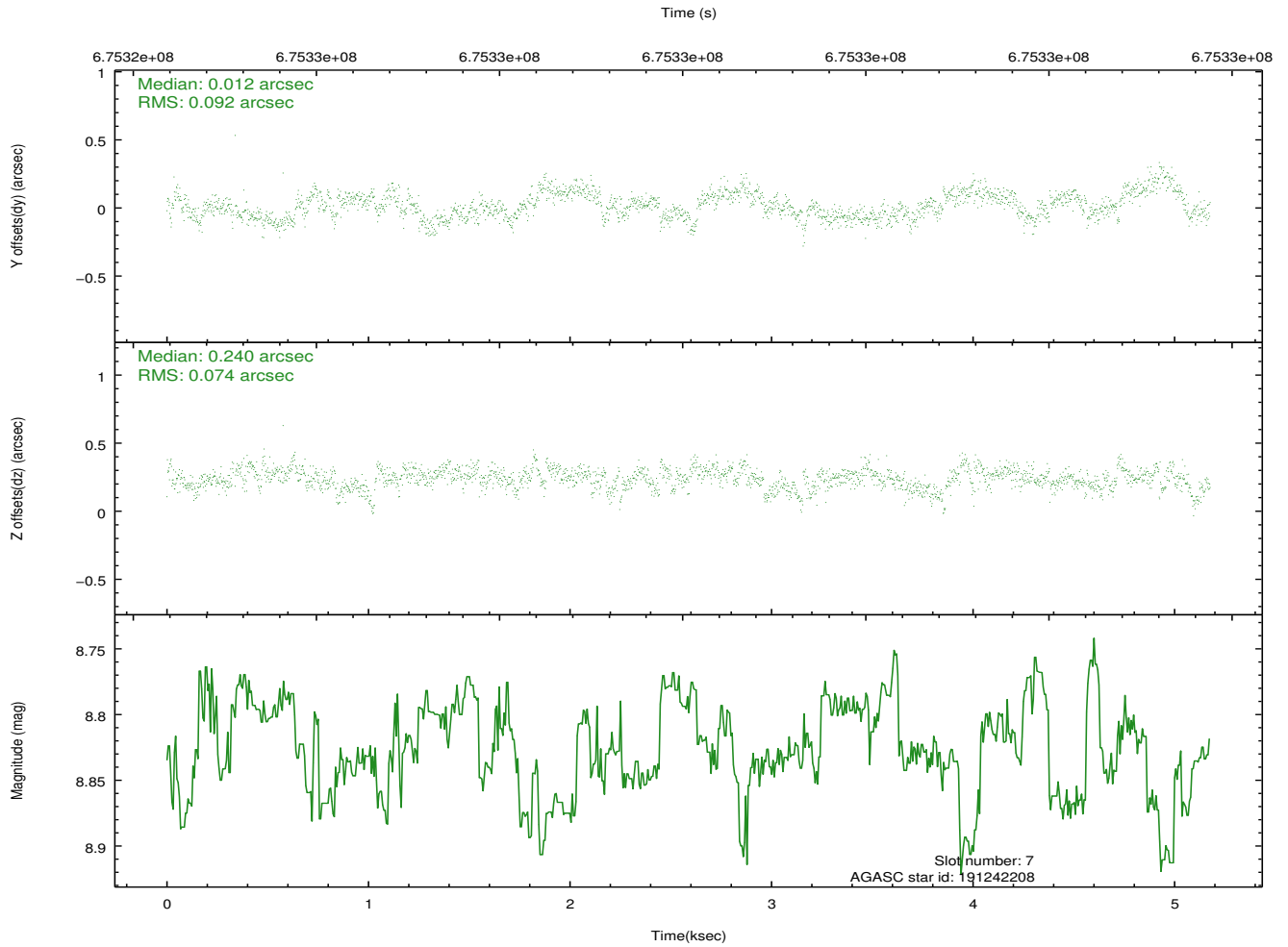
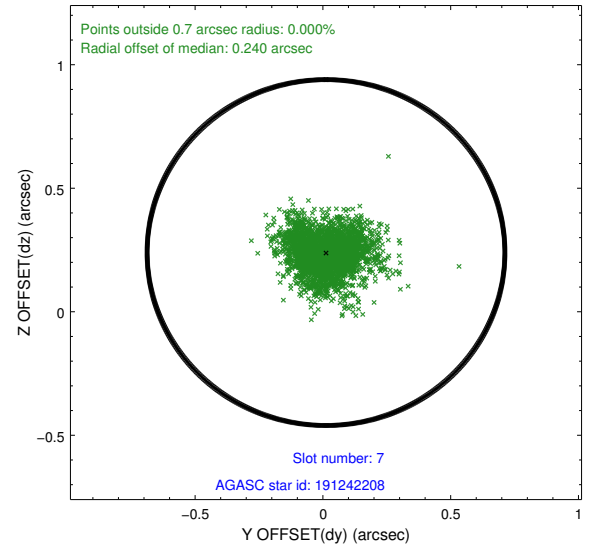
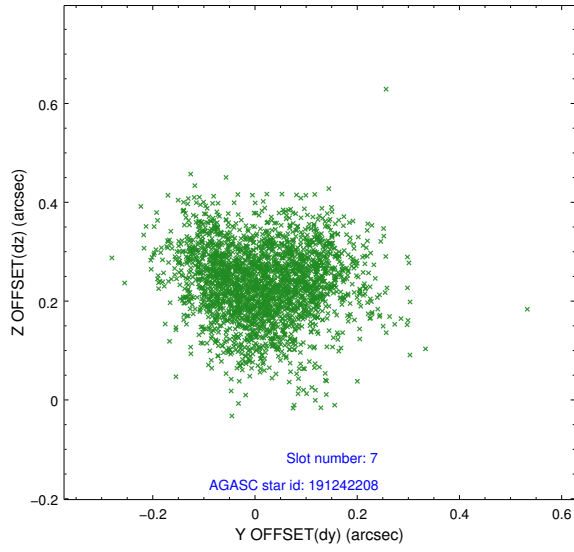
2.4.3 Slot 5



2.4.4 Slot 6

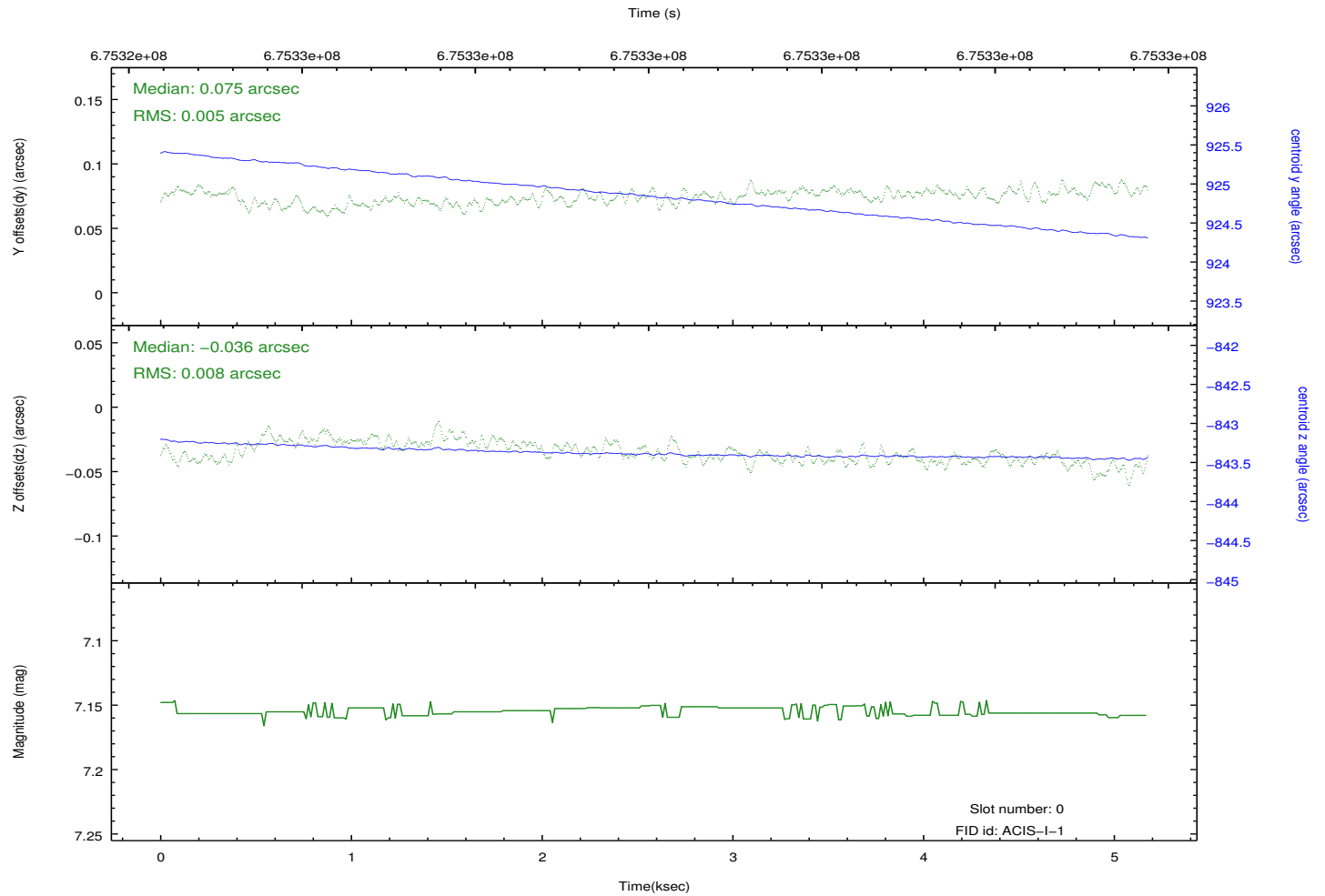
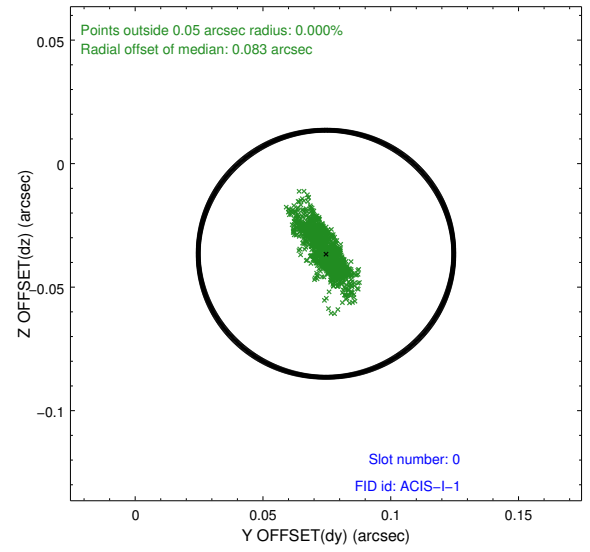
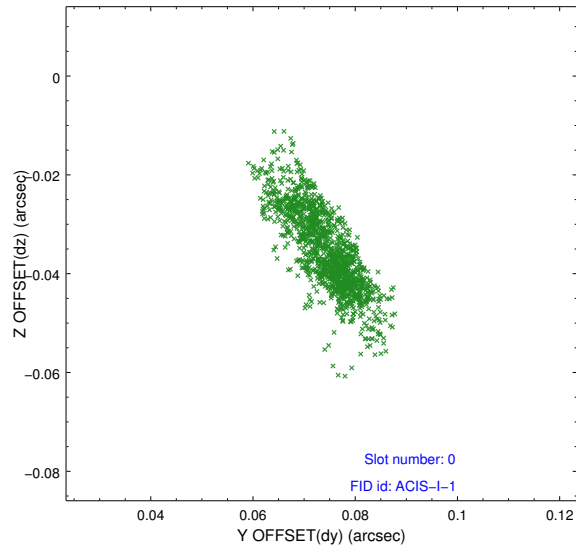


2.4.5 Slot 7

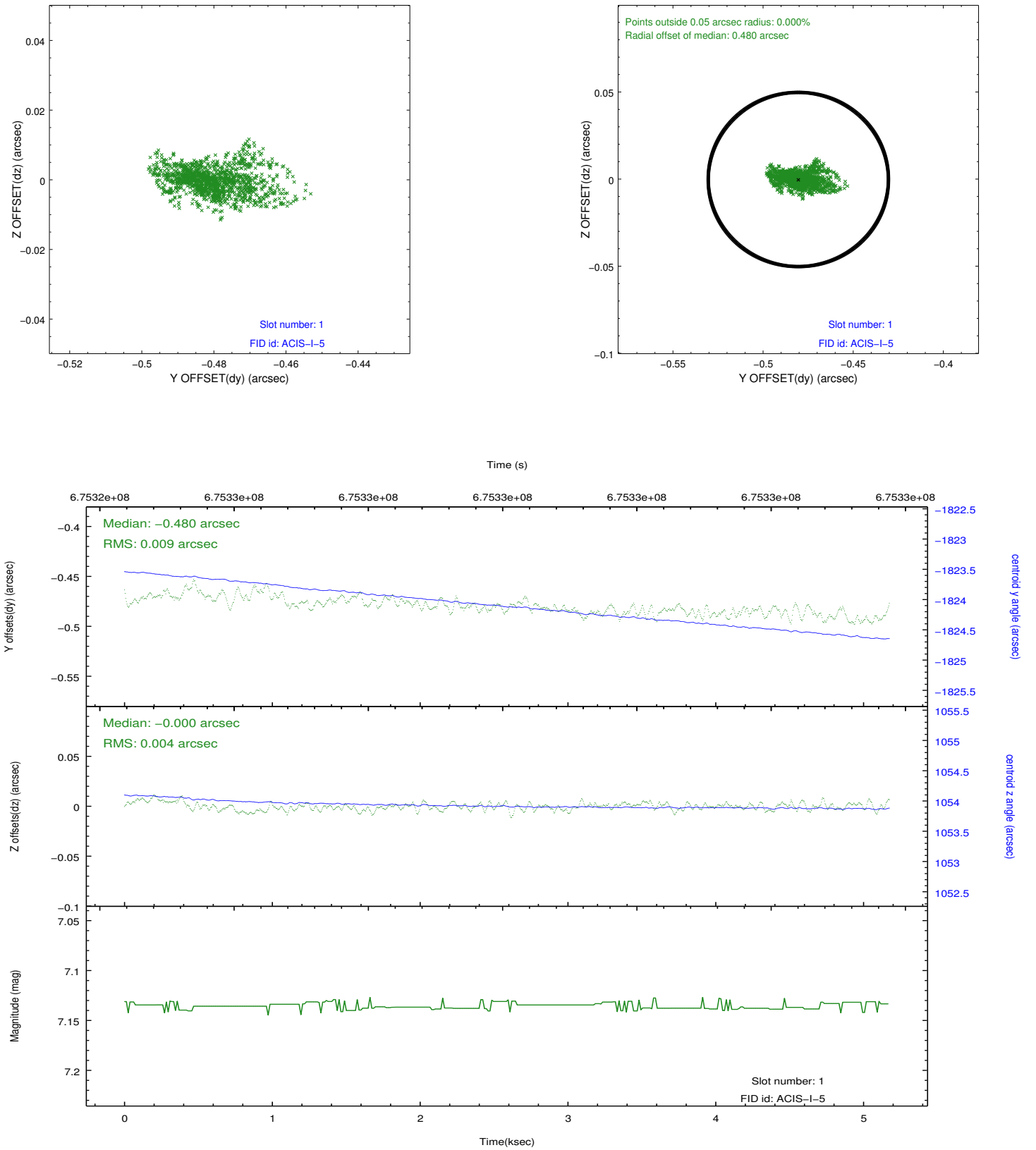


2.5 FID Slots

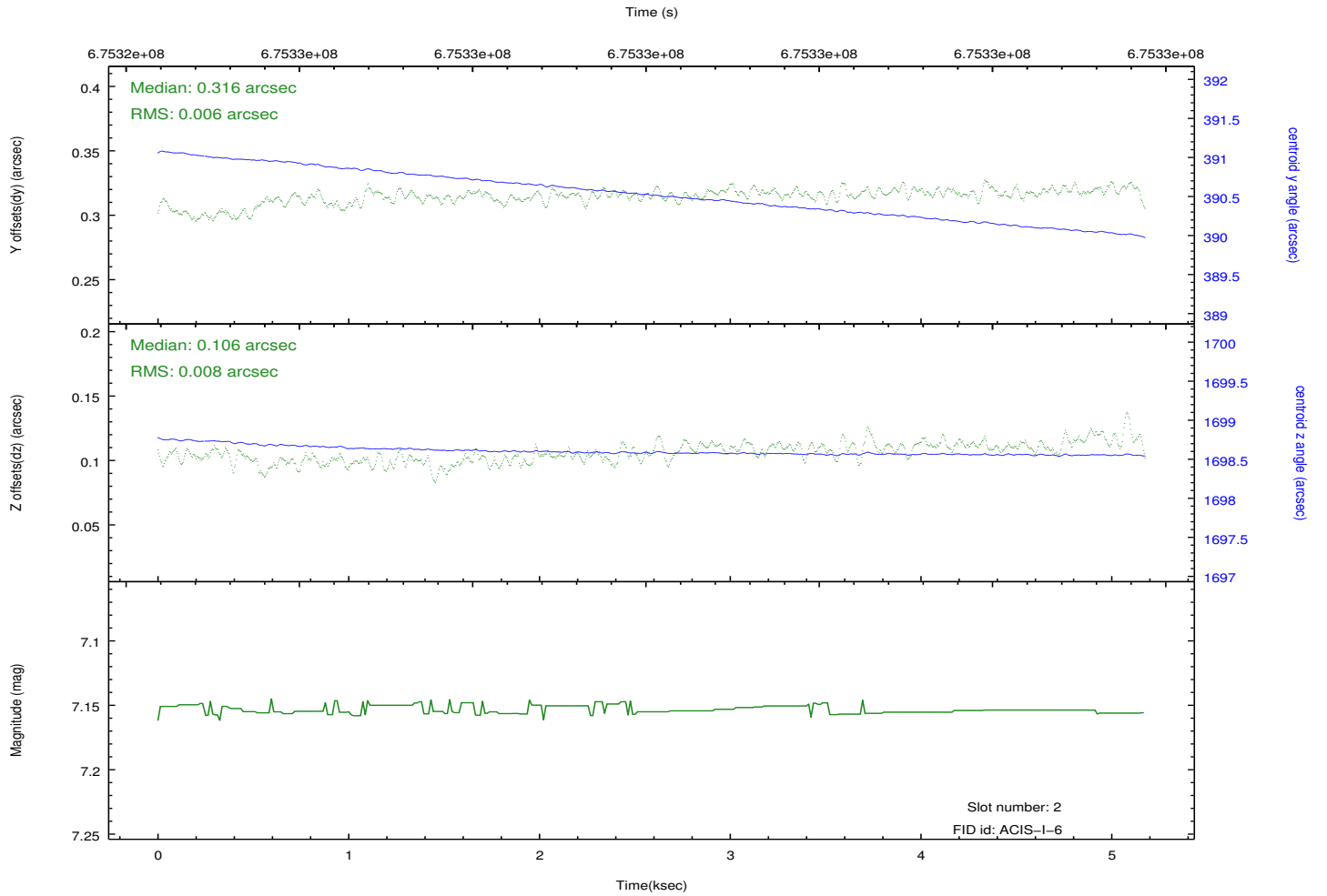
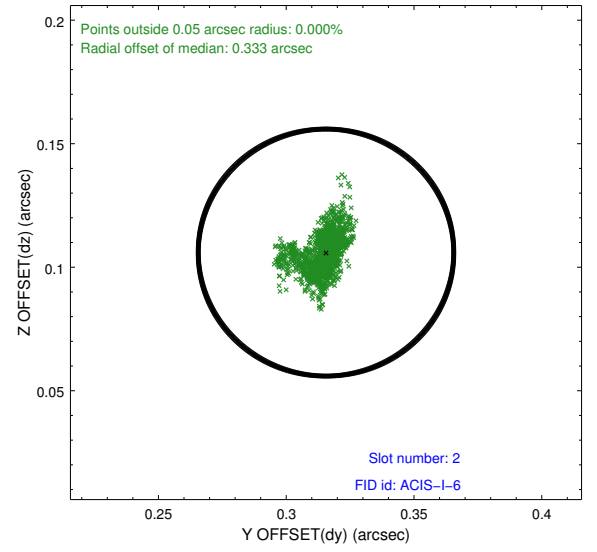
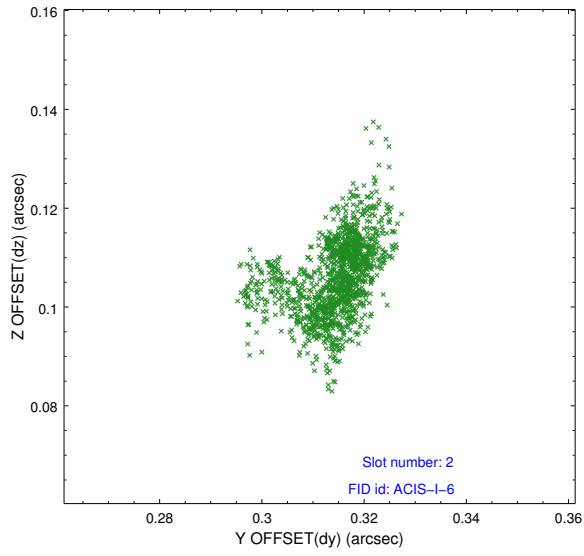
2.5.1 Slot 0



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)	2019.05.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.080900039196

A.2 Comments

Joint proposal with HST.