

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5937 - L2 Version 4
Chandra X-Ray Center

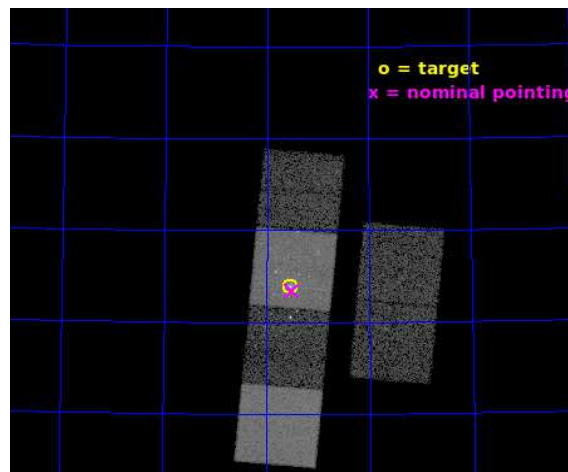
L2 Processing Date : Oct 8 2020

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1 Front

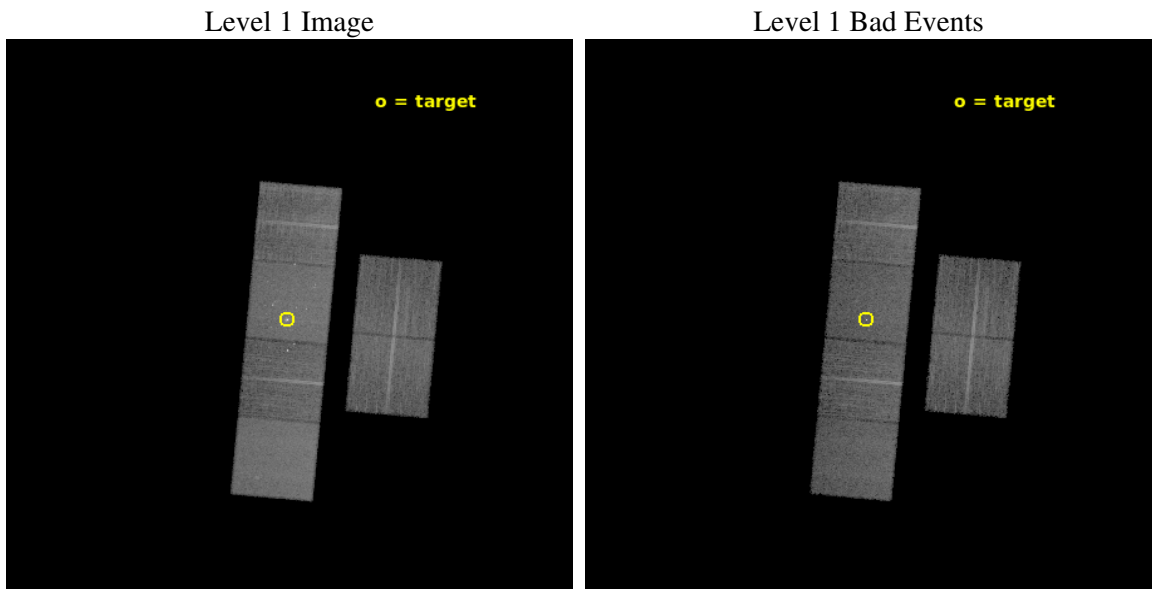
seq_num	600456	Sequence number
obs_id	5937	Observation id
title	An Unprecedented View of a Galaxy's Dynamic X-ray Source Population	
observer	David Pooley	Principal investigator
object	M81	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.888333	Observer's specified target RA [deg]
dec_targ	69.065306	Observer's specified target Dec [deg]
ra_nom	148.8772148462	Nominal RA [deg]
dec_nom	69.057311094488	Nominal Dec [deg]
roll_nom	275.16135882253	Nominal Roll [deg]
revision	4	Processing version of data
ontime	12159.9999547	Sum of GTIs [s]
livetime	12006.022713401	Livetime [s]
ontime2	12159.9999547	Sum of GTIs [s]
ontime3	12159.9999547	Sum of GTIs [s]
ontime5	12159.9999547	Sum of GTIs [s]
ontime6	12159.9999547	Sum of GTIs [s]
ontime7	12159.9999547	Sum of GTIs [s]
ontime8	12159.9999547	Sum of GTIs [s]
l2events	152719	Number of level 2 events



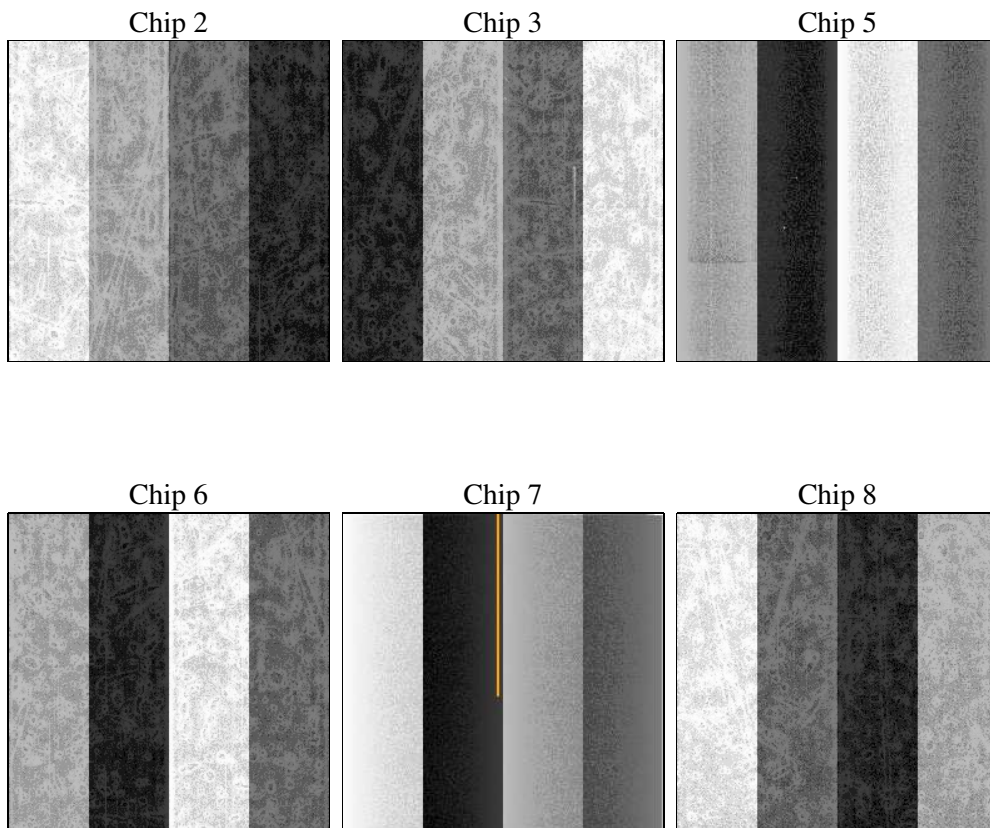
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	12159.9999547	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	12159.9999547	Sum of GTIs [s]
date	2020-10-08T18:25:38	Date and time of file creation	ontime3	12159.9999547	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	12159.9999547	Sum of GTIs [s]
			ontime6	12159.9999547	Sum of GTIs [s]
			ontime7	12159.9999547	Sum of GTIs [s]
			ontime8	12159.9999547	Sum of GTIs [s]
			l1events	654626	Number of level 1 events

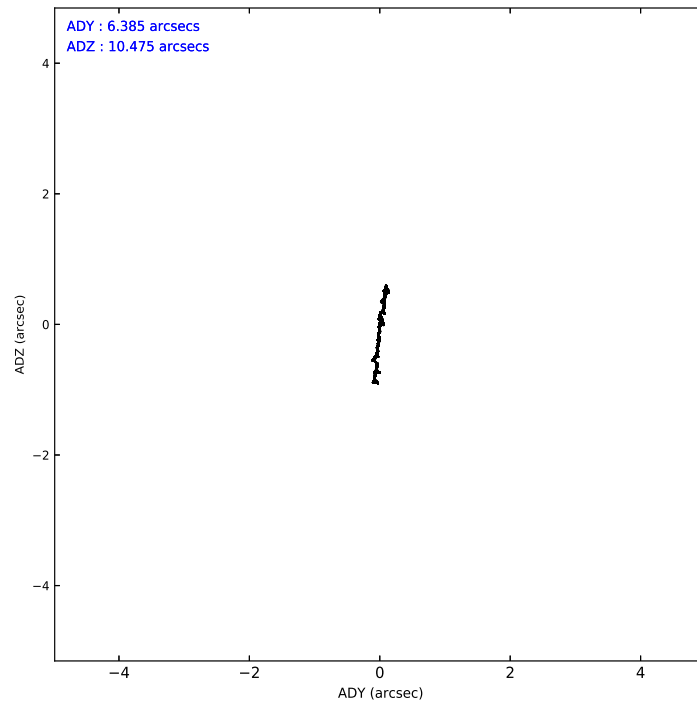
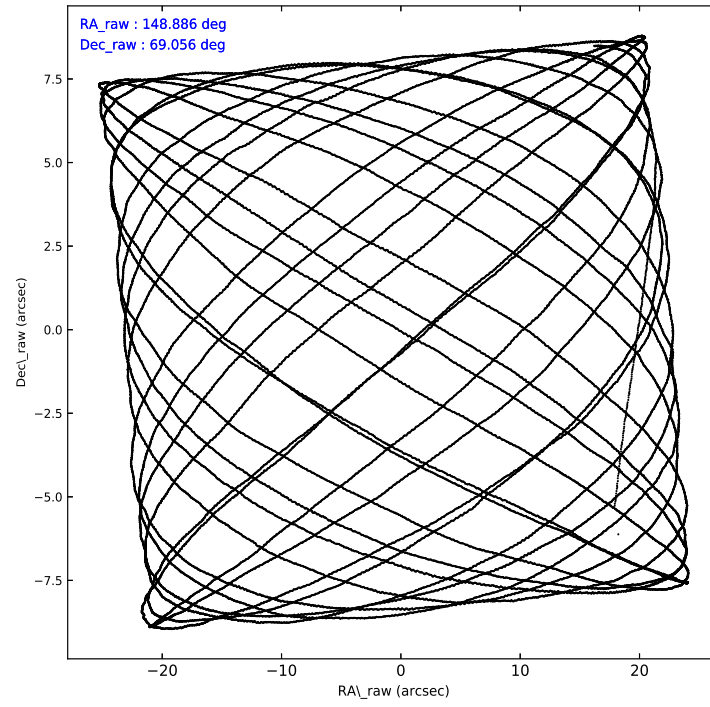
2.1.4 Events

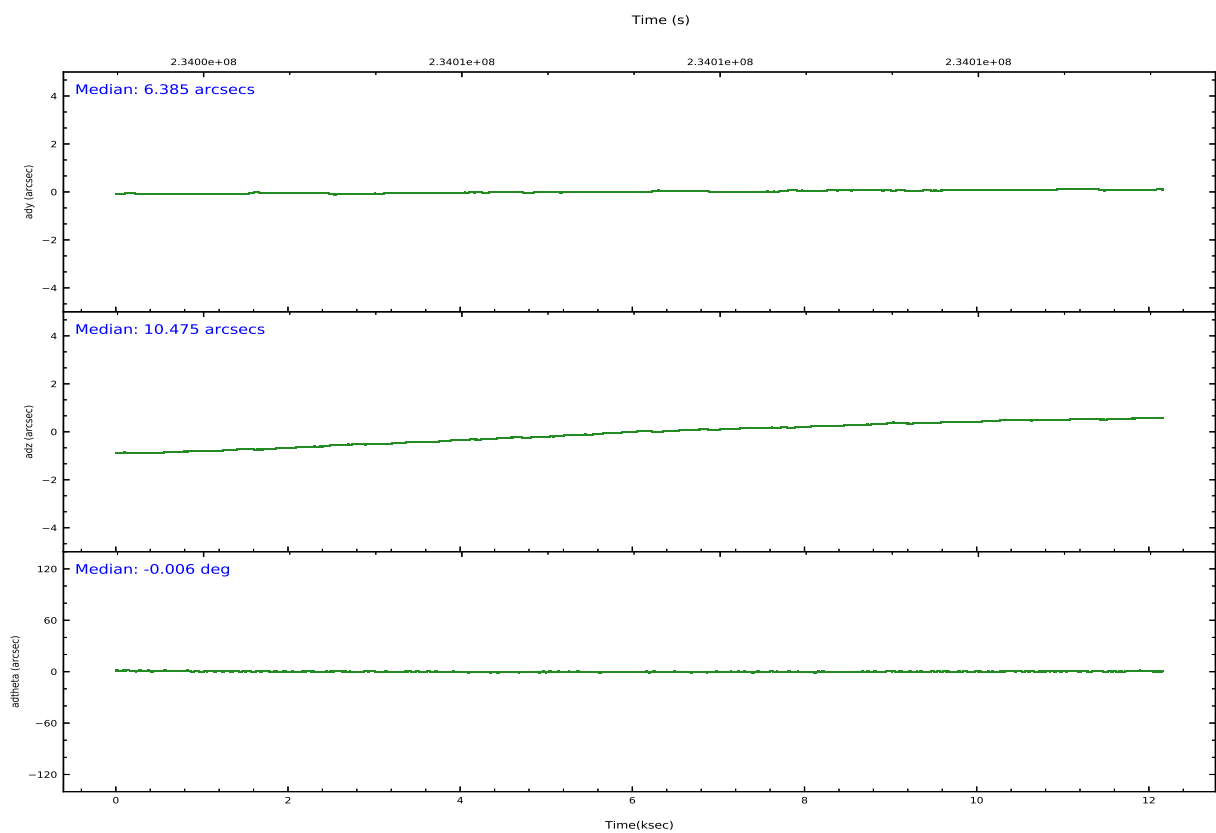
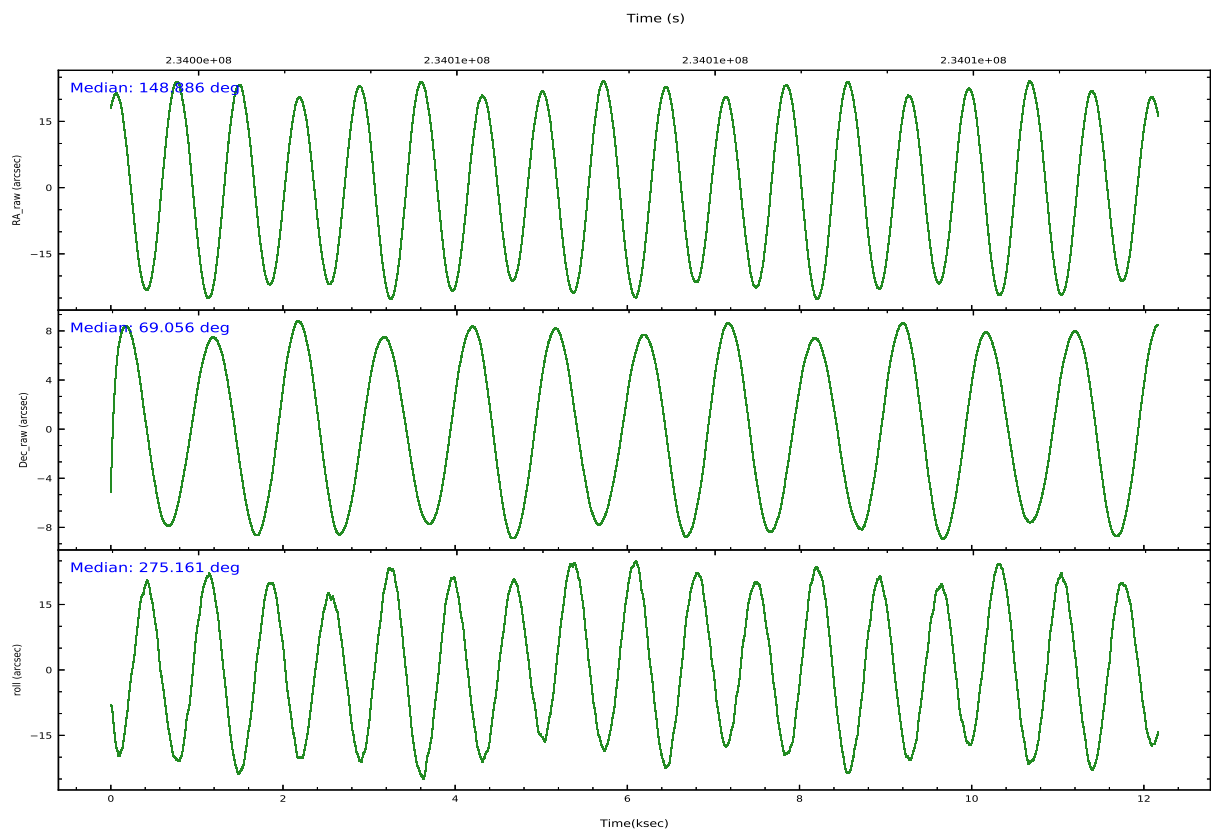
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	93603	85911	133460	92571	135810	113271	grade 0 events	4681	4639	3619	5977	6829	7451
rejected events	83035	75675	75371	79726	77419	89912		5%	5%	2%	6%	5%	6%
rejected %	88%	88%	56%	86%	57%	79%	grade 1 events	51	49	160	96	204	81
								0%	0%	0%	0%	0%	0%
							grade 2 events	2184	2016	18037	2590	12292	5122
								2%	2%	13%	2%	9%	4%
							grade 3 events	1007	1031	2223	1071	5319	2575
								1%	1%	1%	1%	3%	2%
							grade 4 events	1040	1031	2093	1030	5255	2342
								1%	1%	1%	1%	3%	2%
							grade 5 events	3684	4077	9483	4134	12190	5491
								3%	4%	7%	4%	8%	4%
							grade 6 events	1827	1766	33237	2379	29835	6291
								1%	2%	24%	2%	21%	5%
							grade 7 events	79129	71302	64608	75294	63886	83918
								84%	82%	48%	81%	47%	74%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	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	148.841248	148.8772148462	Subarray requested	NONE	NONE
[deg] Pointing Dec	69.077716	69.057311094488	Alternating exposures requested	N	N
[deg] Pointing Roll	275.043974	275.16135882253	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	234003145.184000	234001972.60503			
Observation start date	2005-06-01T08:51:21	2005-06-01T08:32:52			
[s] Observation end time (MET)	234015145.184000	234016298.51818			
Observation end date	2005-06-01T12:11:21	2005-06-01T12:31:38			
Read mode	TIMED	TIMED			

2.3 Aspect



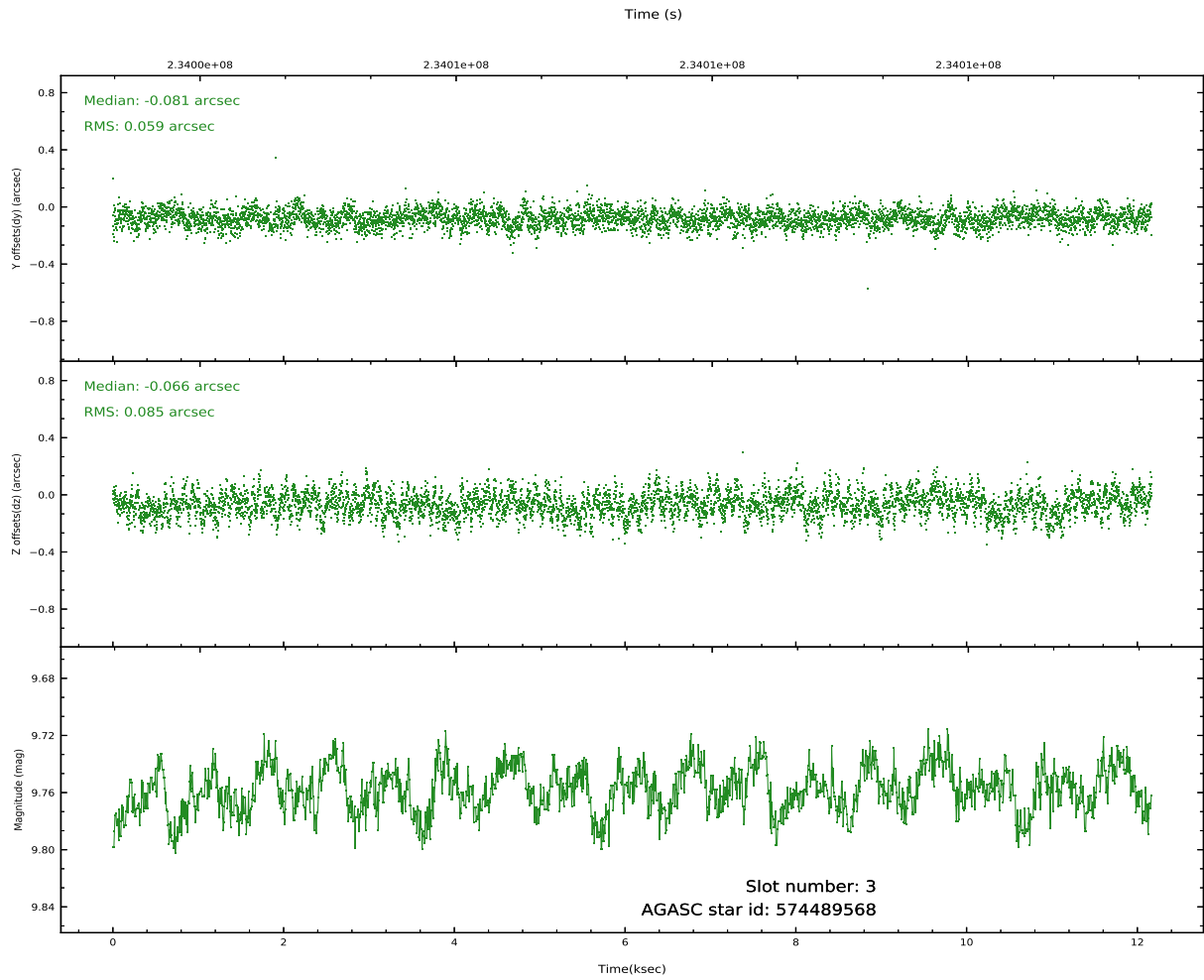
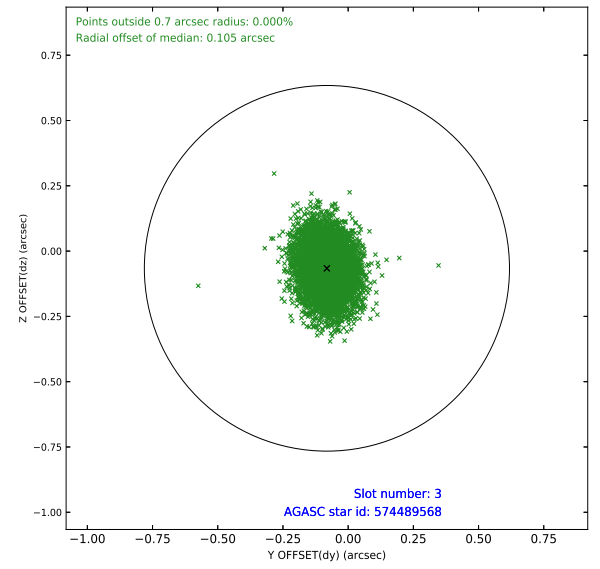
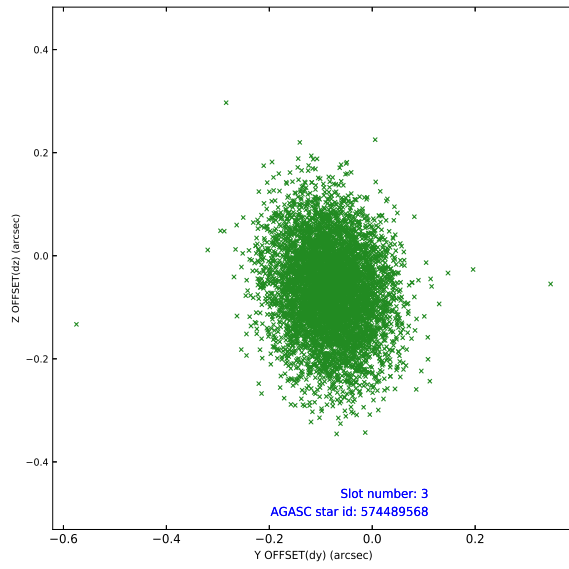


Slot Statistics

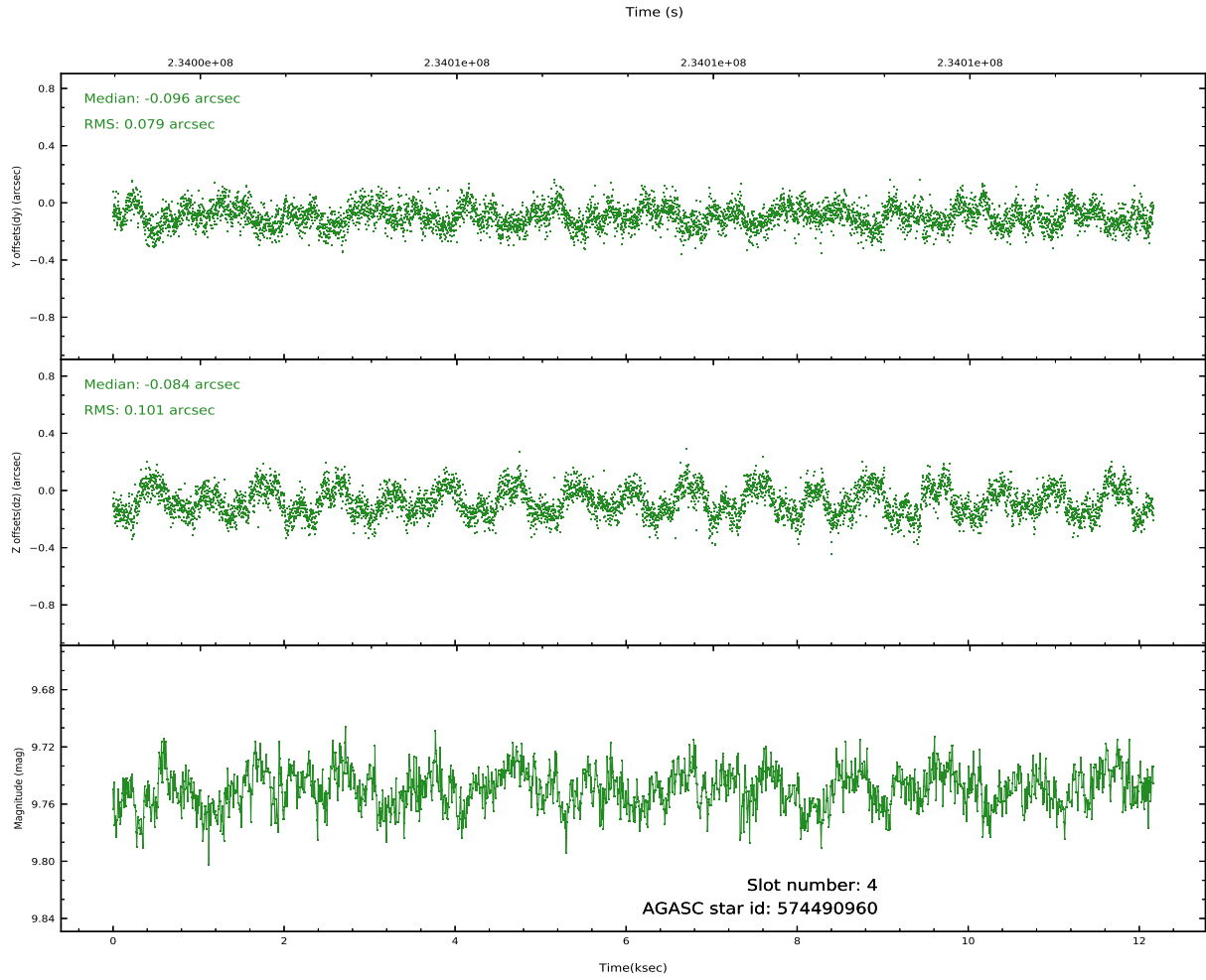
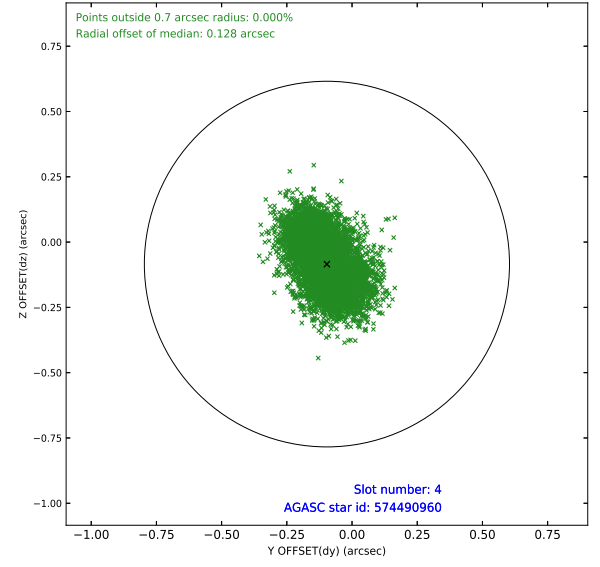
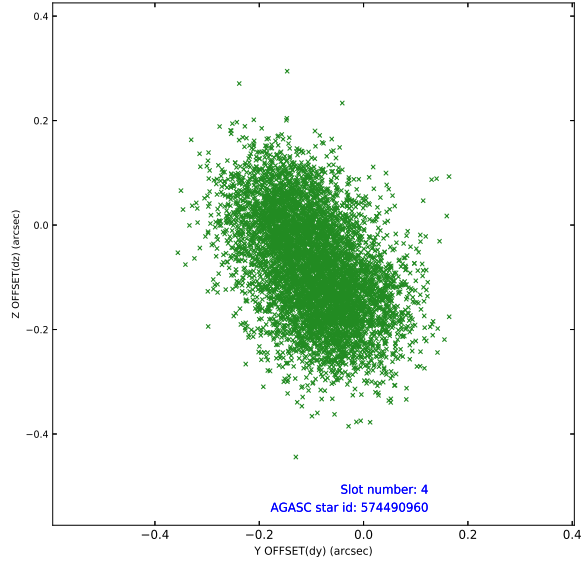
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	2968	1.000	-0.096	-0.059	0.010	0.018	0.000000	0.000000	-759.17	-1731
1	FID		ACIS-S-4	7.21	2968	1.000	0.158	0.062	0.008	0.014	0.000000	0.000000	2154.12	176
2	FID		ACIS-S-5	7.23	2968	1.000	-0.093	0.005	0.009	0.017	0.000000	0.000000	-1811.54	170
3	GUIDE	used	574489568	9.76	5931	1.000	-0.081	-0.066	0.109	0.180	147.223974	69.438157	-1498.83	-1920
4	GUIDE	used	574490960	9.75	5932	1.000	-0.096	-0.084	0.138	0.218	148.185918	69.658768	-2159.95	-633
5	GUIDE	used	574491280	9.36	5935	1.000	-0.072	0.009	0.093	0.163	148.611567	69.450135	-1361.14	-172
6	GUIDE	used	574497600	10.44	5934	1.000	0.076	-0.042	0.189	0.310	147.824120	68.451903	2115.28	-1536
7	GUIDE	used	574496360	9.46	5931	1.000	0.171	0.184	0.118	0.192	150.806604	68.529829	2151.99	2409

2.4 Star Slots

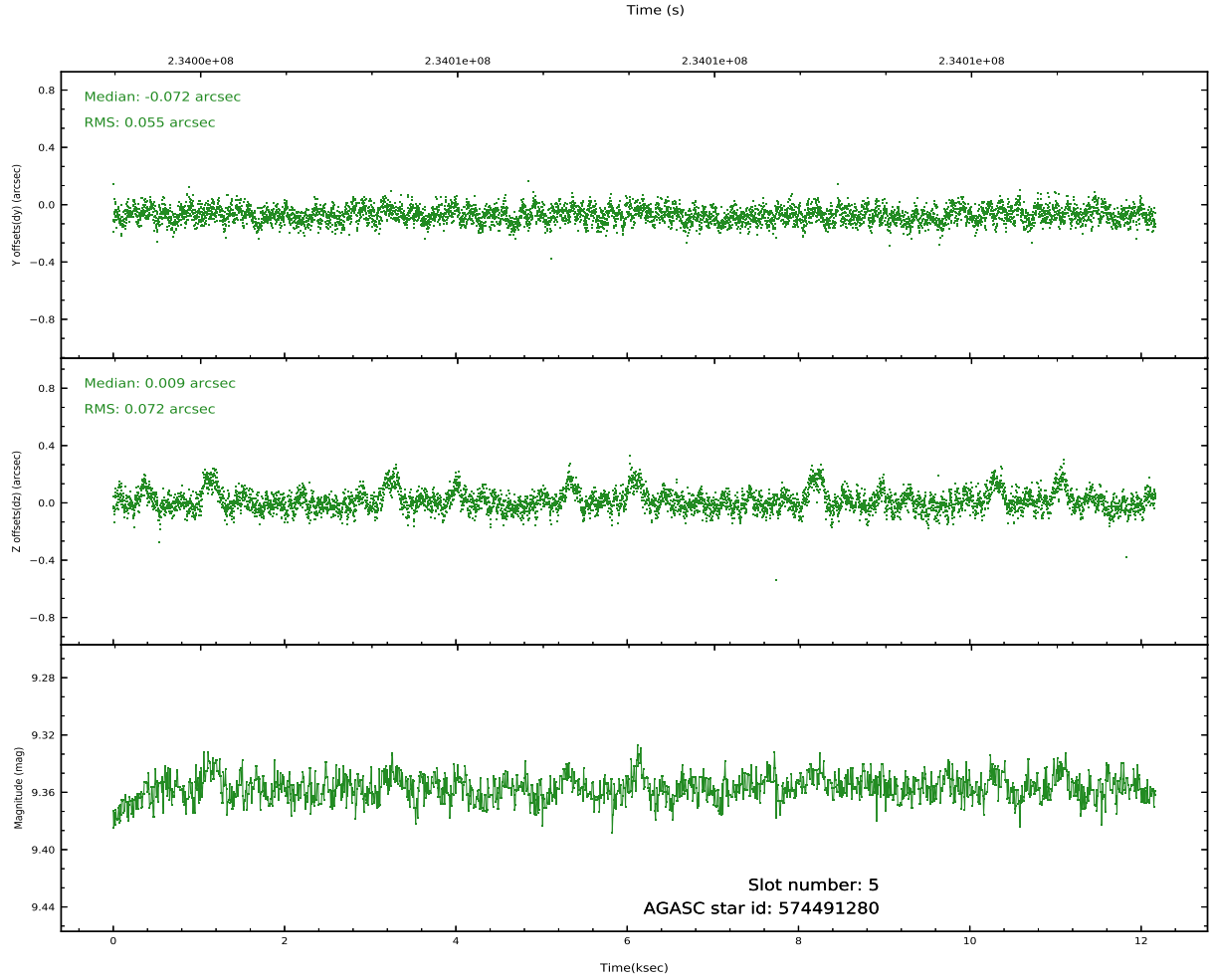
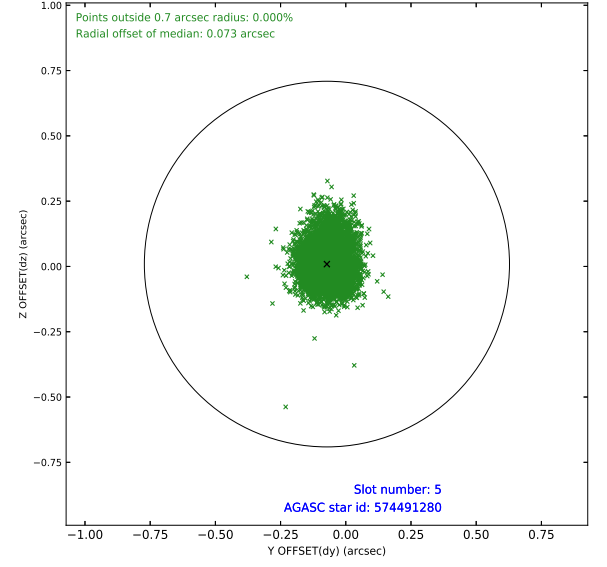
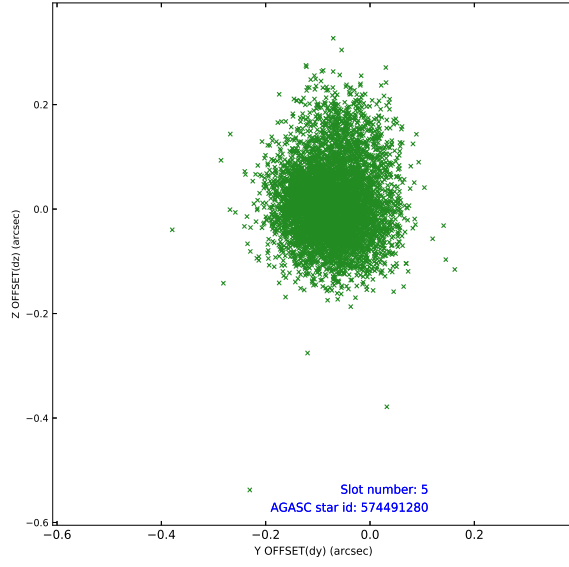
2.4.1 Slot 3



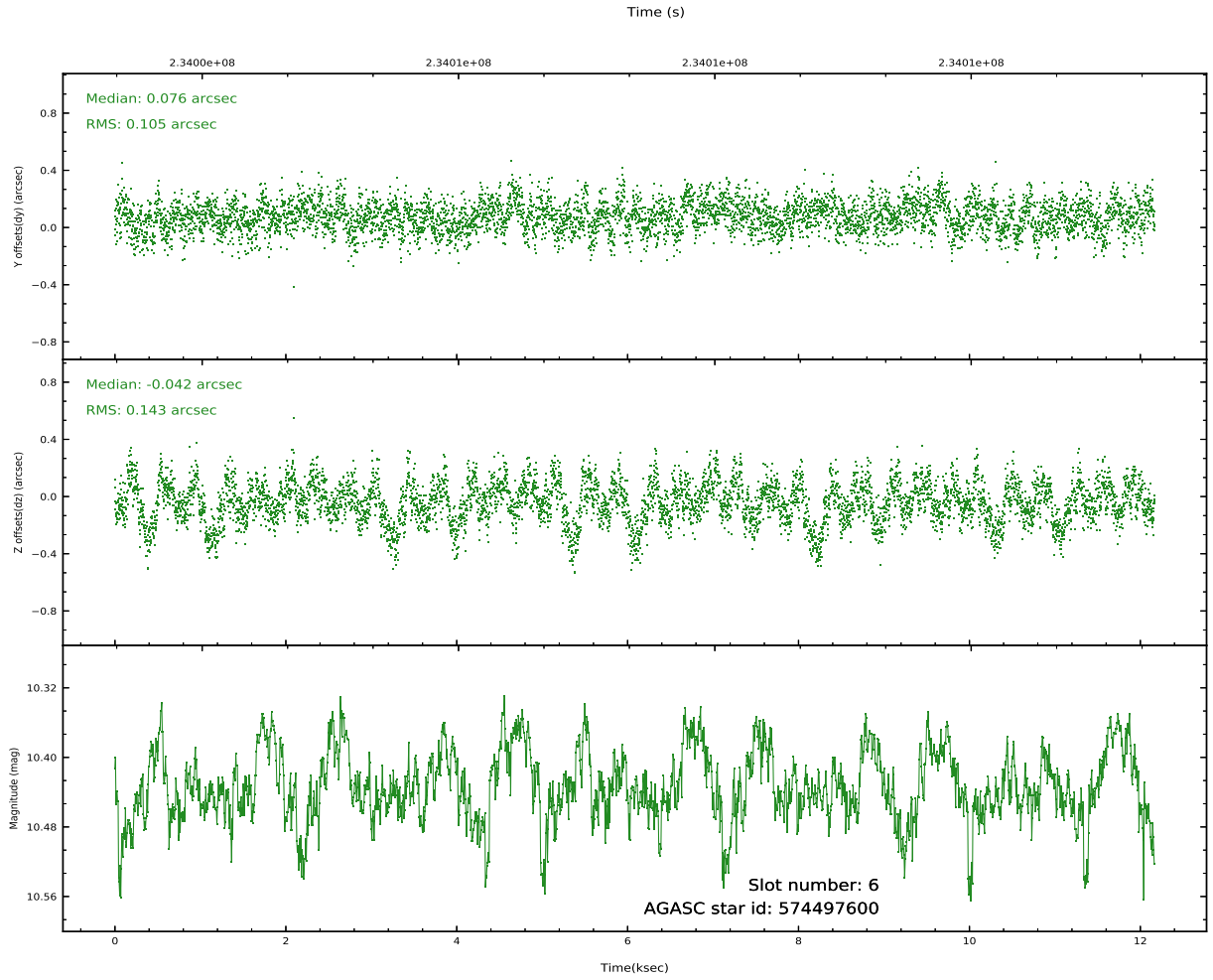
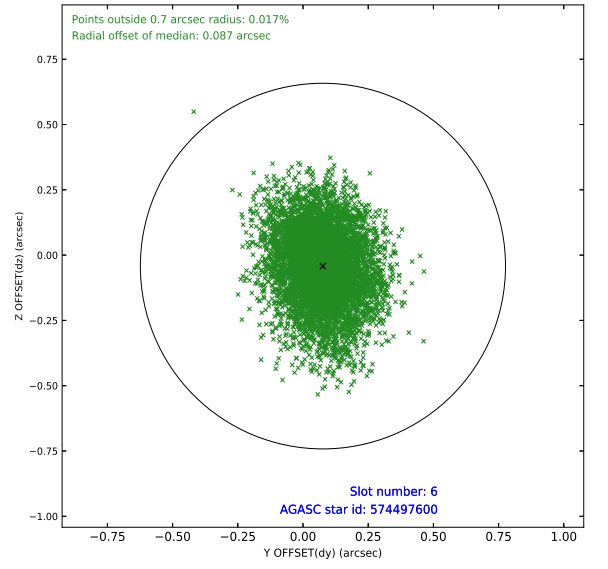
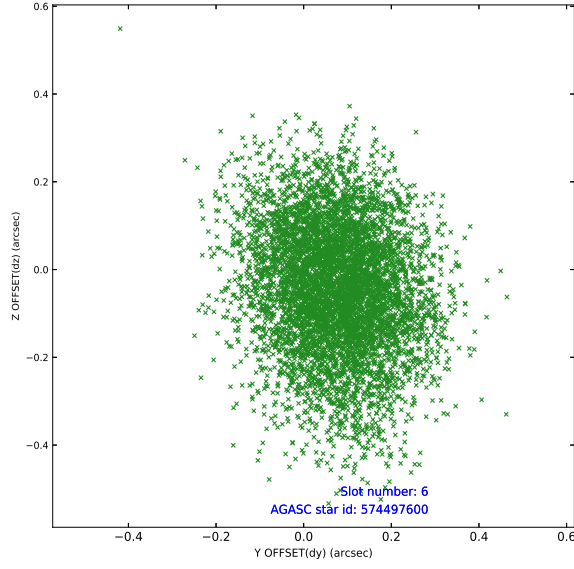
2.4.2 Slot 4



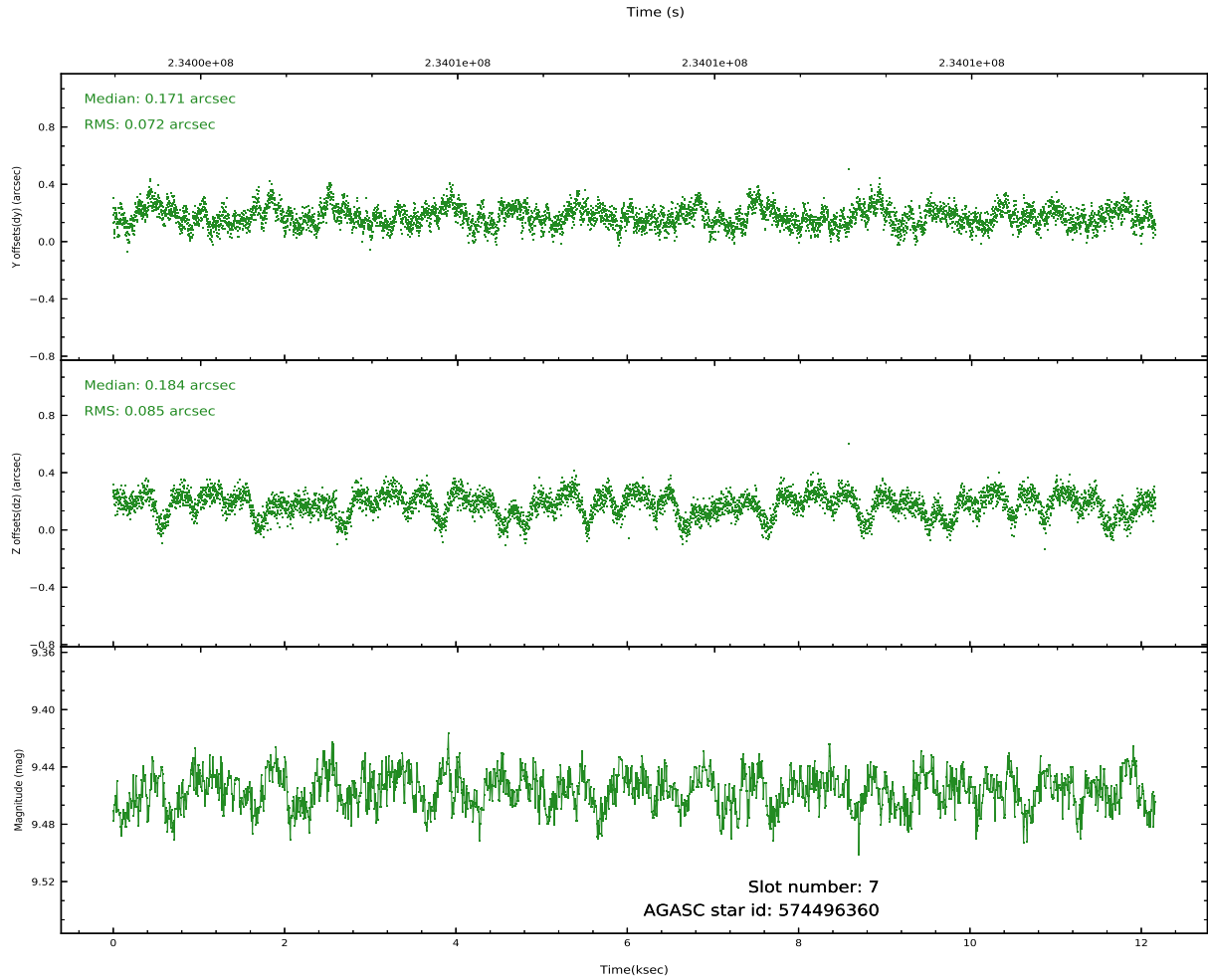
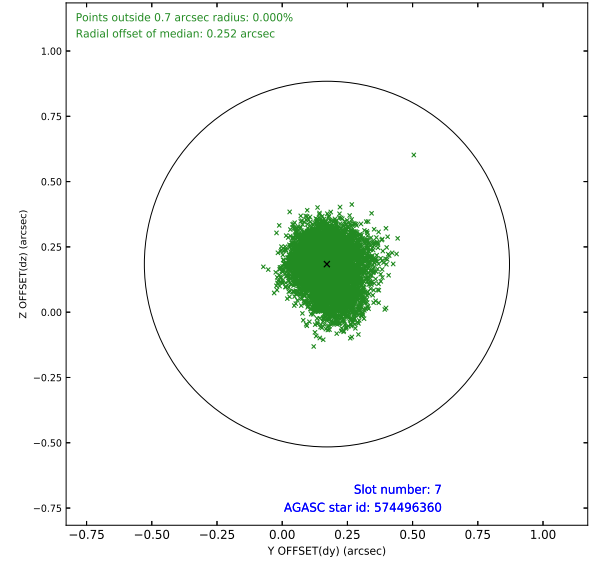
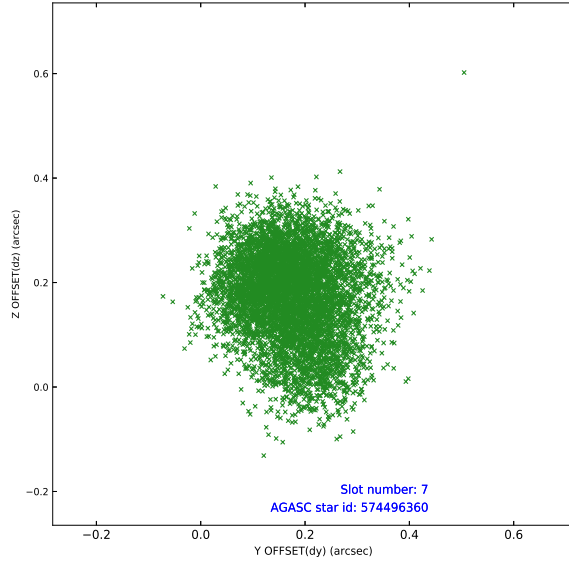
2.4.3 Slot 5



2.4.4 Slot 6

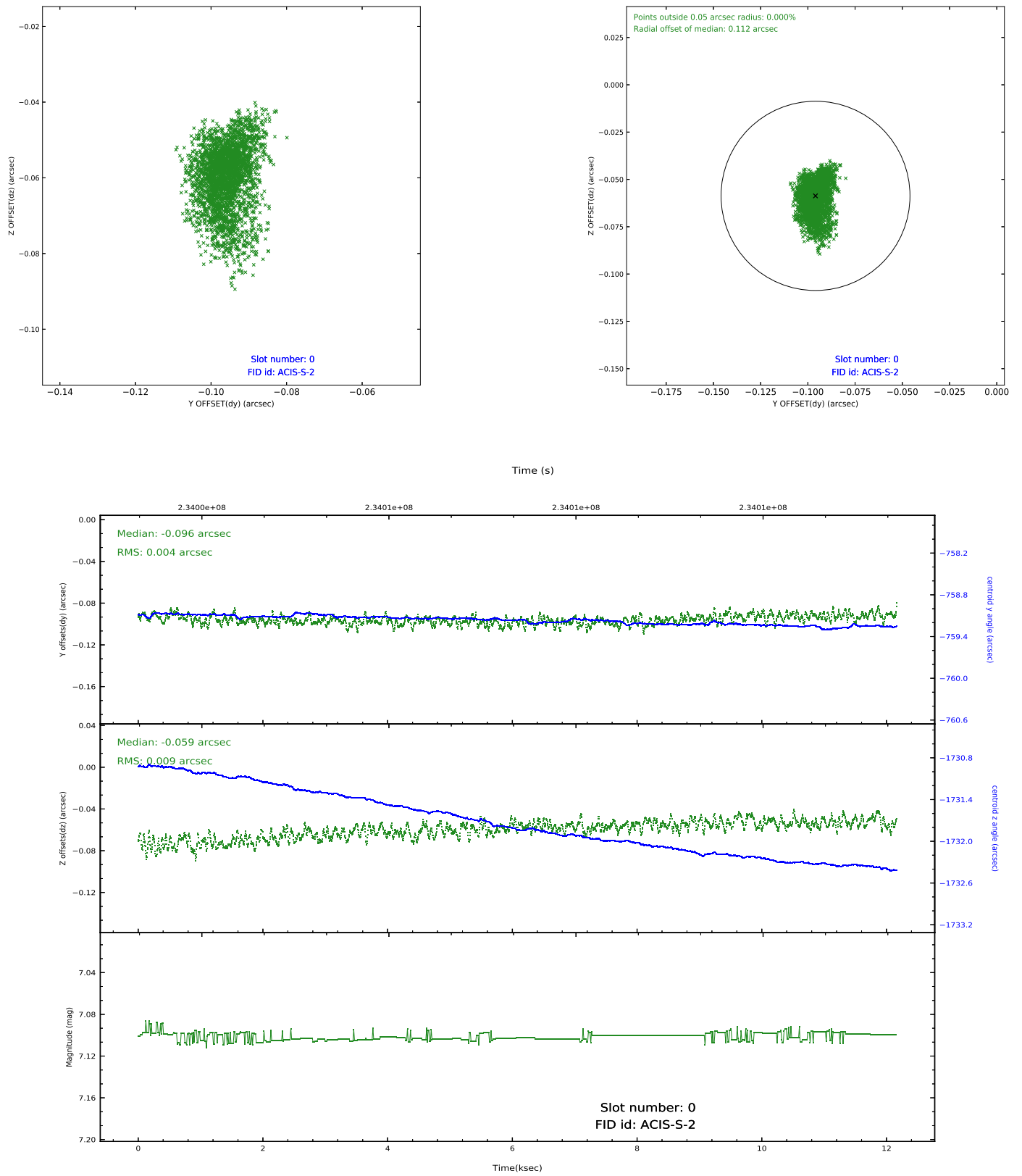


2.4.5 Slot 7

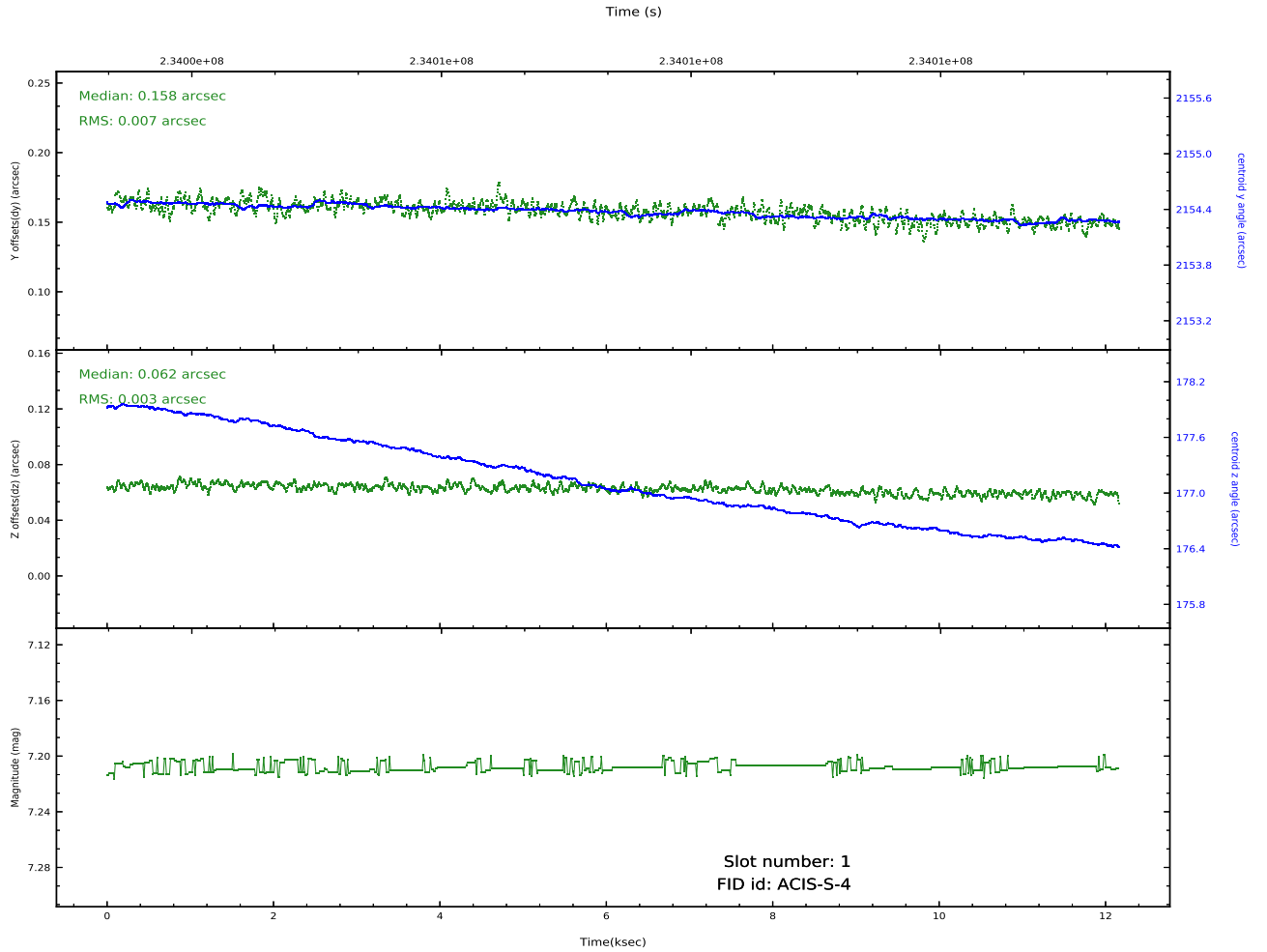
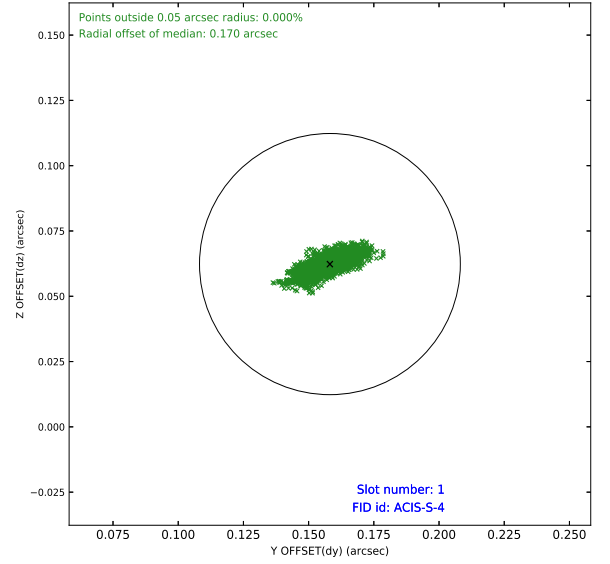
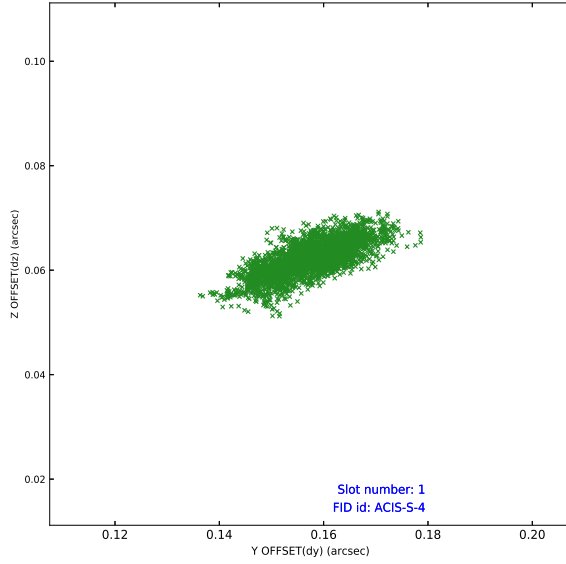


2.5 FID Slots

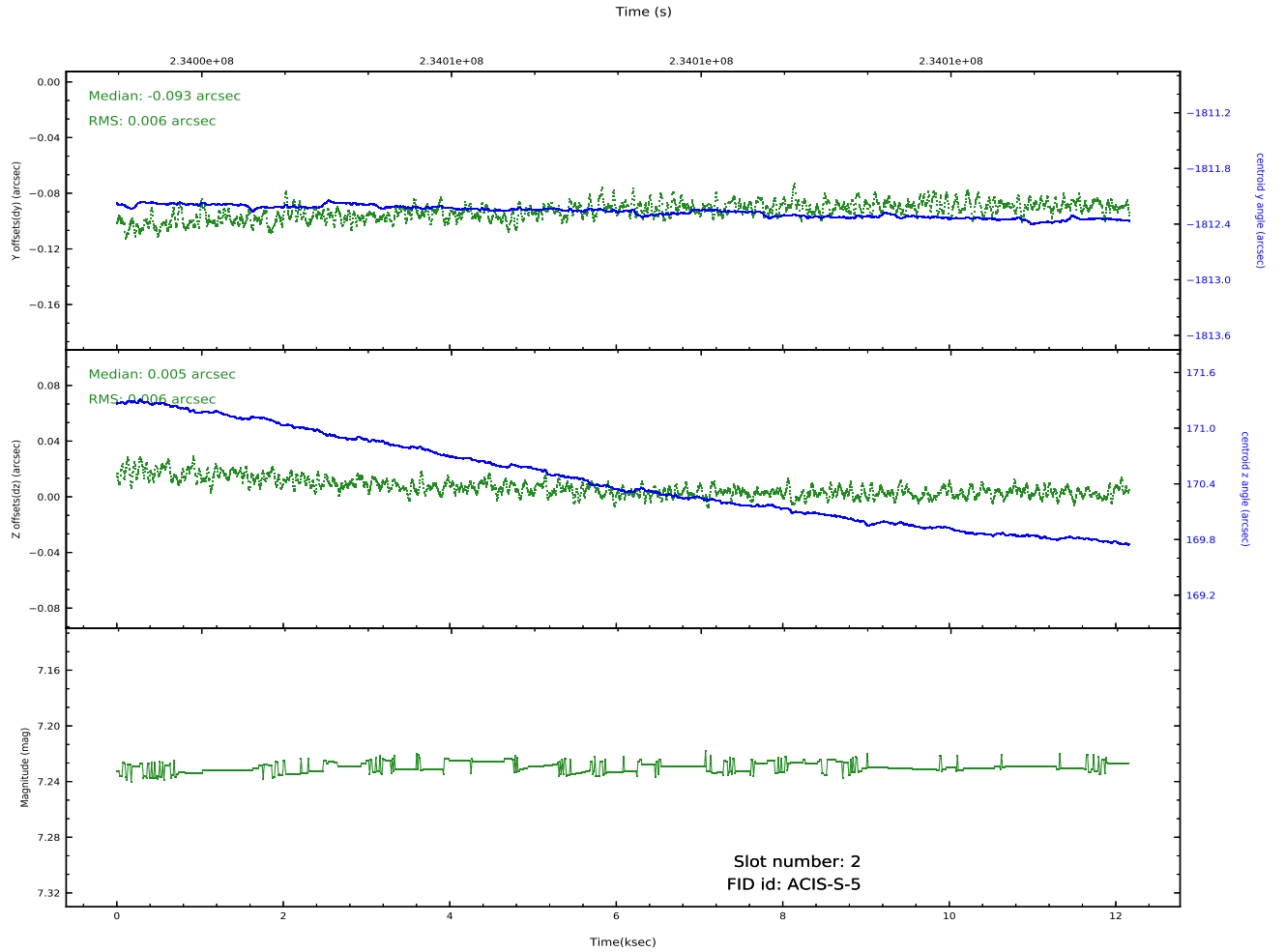
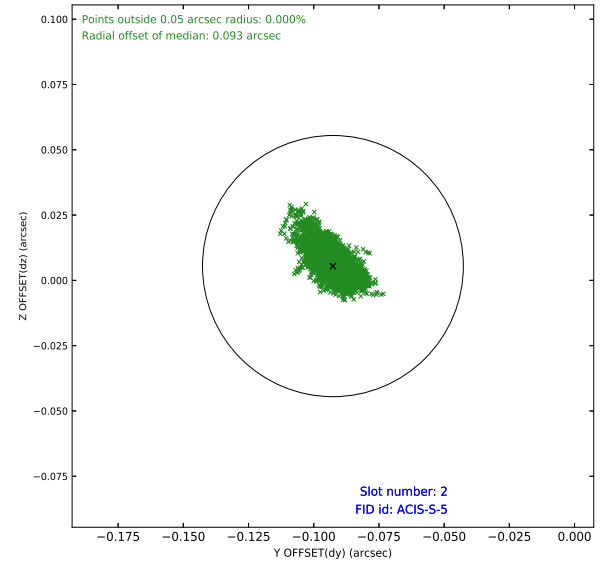
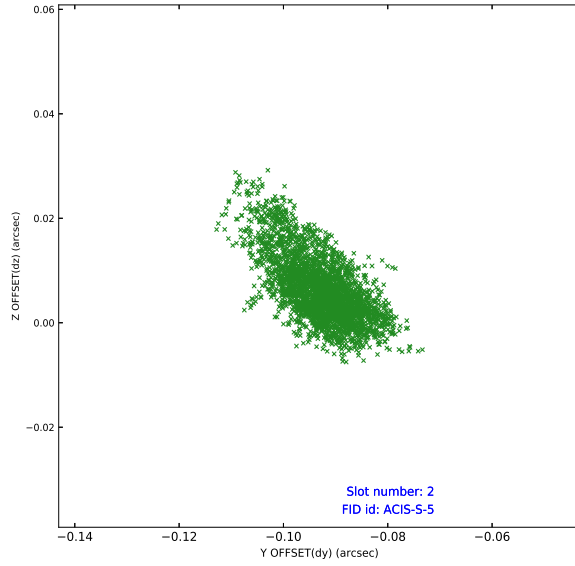
2.5.1 Slot 0



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)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.15999

A.2 Comments