

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6080 - L2 Version 4
Chandra X-Ray Center

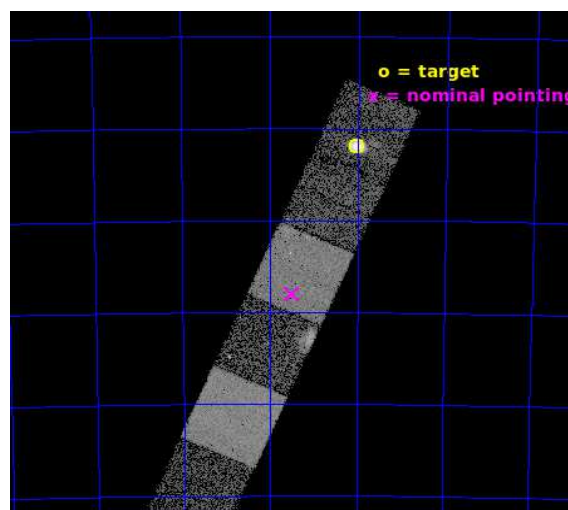
L2 Processing Date : Oct 5 2020

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1 Front

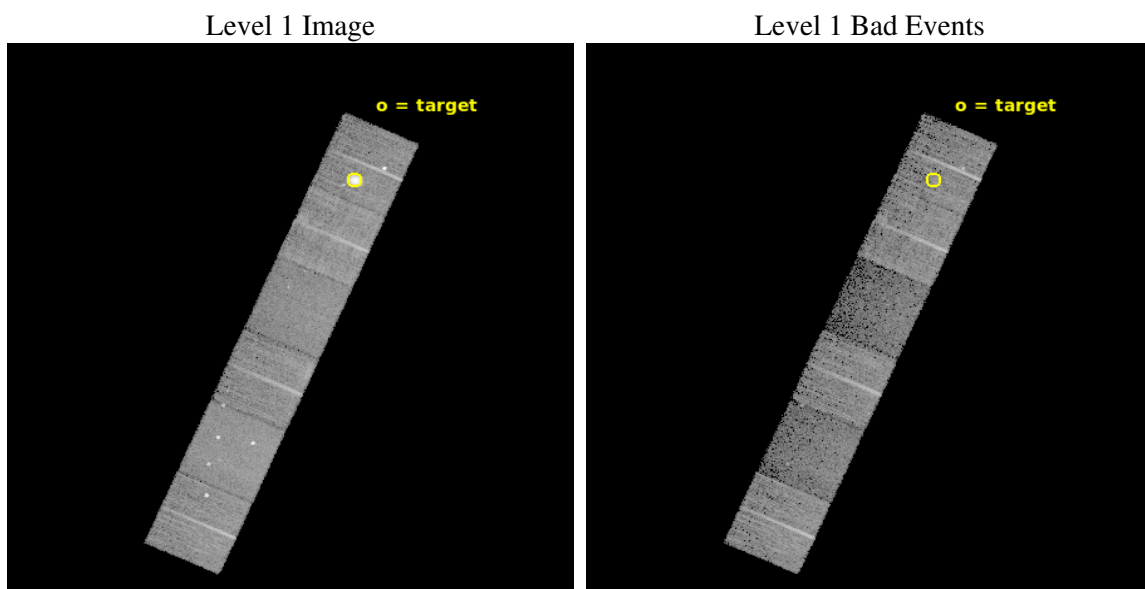
seq_num	590407	Sequence number
obs_id	6080	Observation id
title	AO6A ACIS-S Calibration Observations of E0102-72	Proposal title
observer	CXC Calibration	Principal investigator
object	E0102-72.3	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.01	Observer's specified target RA [deg]
dec_targ	-72.032028	Observer's specified target Dec [deg]
ra_nom	16.374755028936	Nominal RA [deg]
dec_nom	-72.299831783528	Nominal Dec [deg]
roll_nom	293.9853300931	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7753.0410155356	Sum of GTIs [s]
livetime	7654.867341876	Livetime [s]
ontime4	7753.2462155223	Sum of GTIs [s]
ontime5	7753.1641355157	Sum of GTIs [s]
ontime6	7753.1230955124	Sum of GTIs [s]
ontime7	7753.205175519	Sum of GTIs [s]
ontime8	7749.8410852253	Sum of GTIs [s]
ontime9	7753.0410155356	Sum of GTIs [s]
l2events	87453	Number of level 2 events



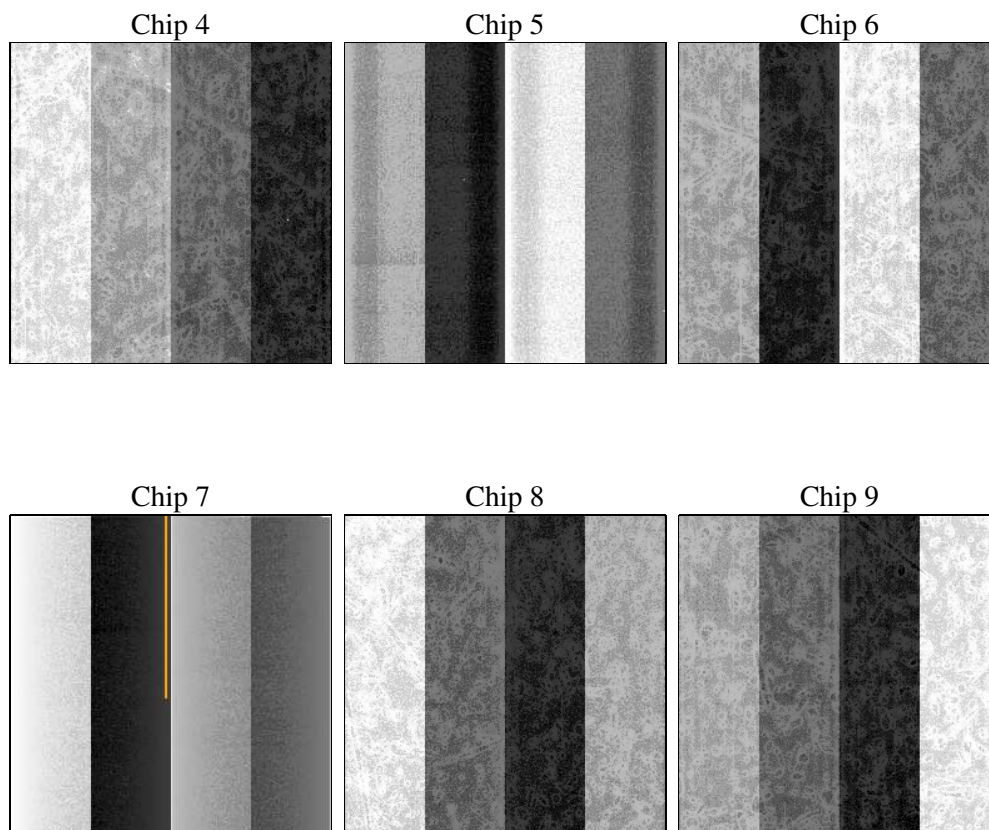
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	7753.0410155356	Sum of GTIs [s]
caldsver	4.9.2	 	ontime4	7753.2462155223	Sum of GTIs [s]
date	2020-10-05T17:52:27	Date and time of file creation	ontime5	7753.1641355157	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	7753.1230955124	Sum of GTIs [s]
			ontime7	7753.205175519	Sum of GTIs [s]
			ontime8	7749.8410852253	Sum of GTIs [s]
			ontime9	7753.0410155356	Sum of GTIs [s]
			l1events	344333	Number of level 1 events

2.1.4 Events

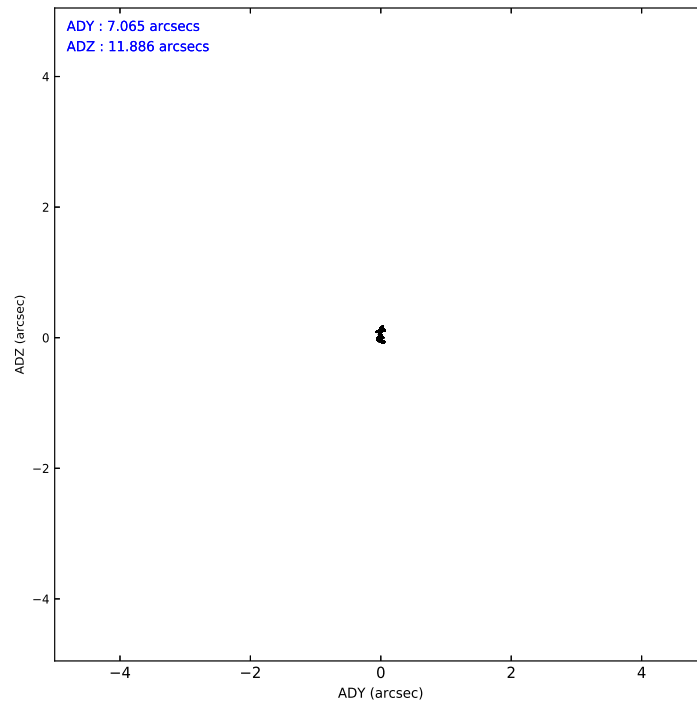
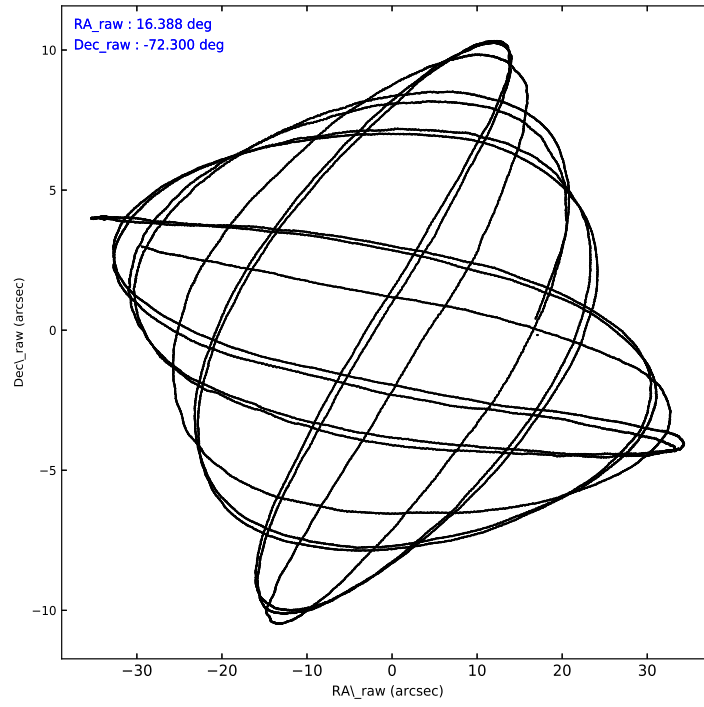
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	56747	60454	51035	45160	61904	69033	grade 0 events	3540	6057	3145	2390	4342	19723
rejected events	50150	27310	44618	22583	47484	41963		6%	10%	6%	5%	7%	28%
rejected %	88%	45%	87%	50%	76%	60%	grade 1 events	65	195	29	54	42	377
								0%	0%	0%	0%	0%	0%
							grade 2 events	1164	8920	1171	4815	3052	4657
								2%	14%	2%	10%	4%	6%
							grade 3 events	577	1448	547	2224	1671	831
								1%	2%	1%	4%	2%	1%
							grade 4 events	520	1463	602	2203	1495	782
								0%	2%	1%	4%	2%	1%
							grade 5 events	1545	4860	1665	4747	2383	1847
								2%	8%	3%	10%	3%	2%
							grade 6 events	804	15286	956	10961	3867	1097
								1%	25%	1%	24%	6%	1%
							grade 7 events	48532	22225	42920	17766	45052	39719
								85%	36%	84%	39%	72%	57%

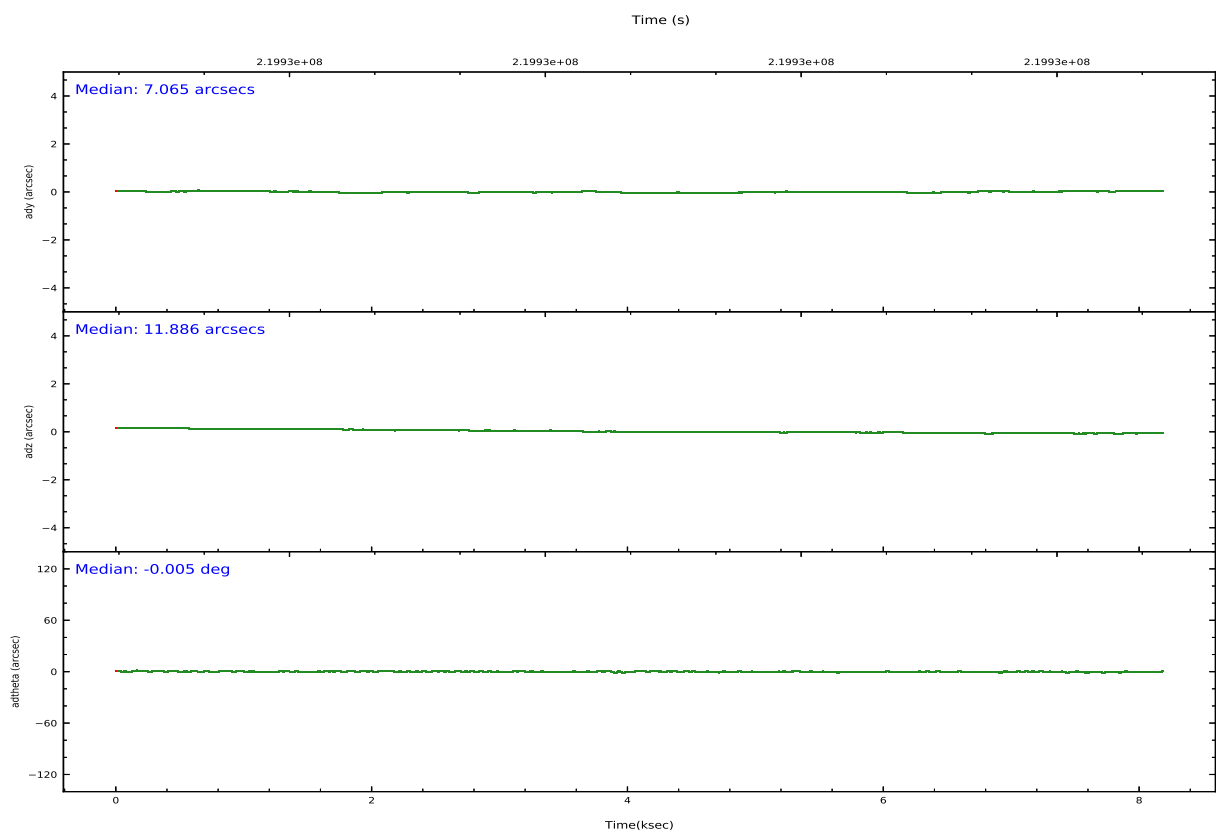
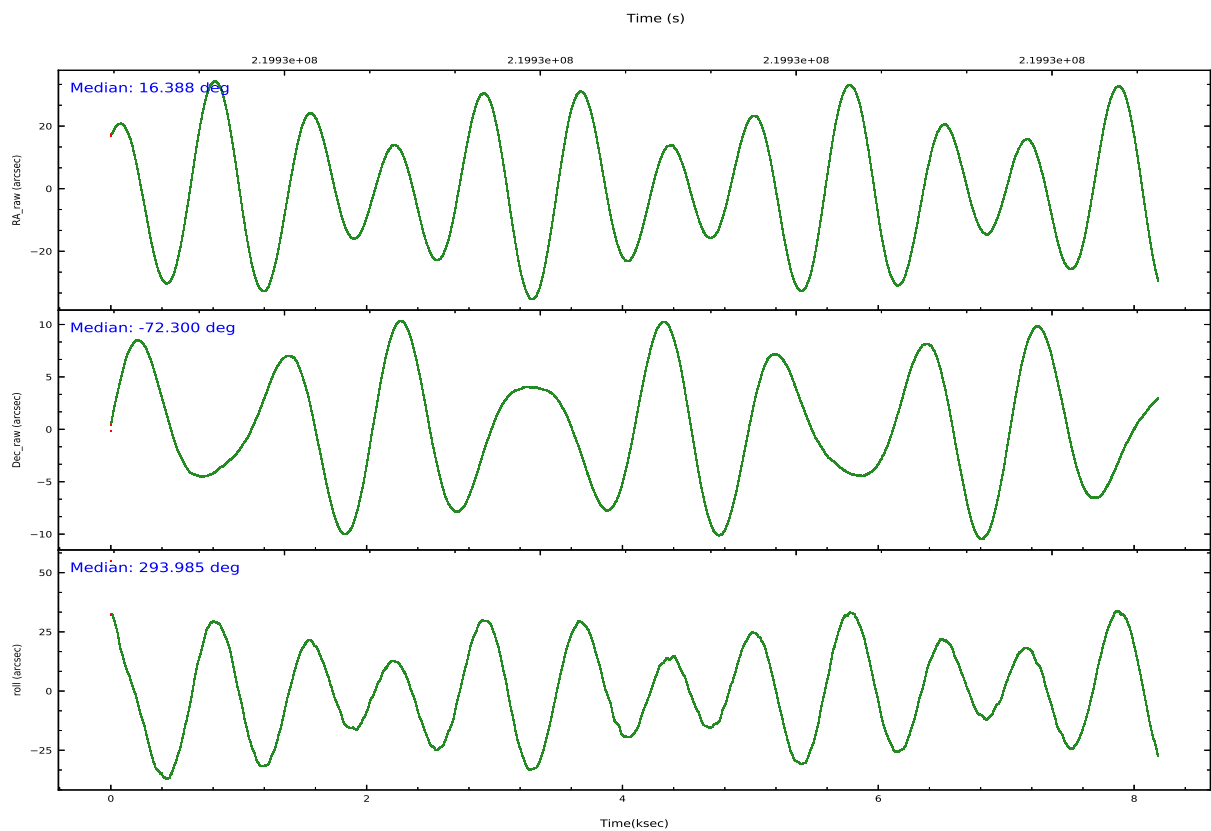
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	16.314719	16.374755028936
[deg] Pointing Dec	-72.284628	-72.29983178352801
[deg] Pointing Roll	293.765212	293.9853300931
[s] Window start time (MET)	215654464.184000	215654464.184000
[s] Window stop time (MET)	220838464.184000	220838464.184000
[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)	219926830.184000	219926454.15453
Observation start date	2004-12-20T10:46:06	2004-12-20T10:40:54
[s] Observation end time (MET)	219934830.184000	219935676.59244
Observation end date	2004-12-20T12:59:26	2004-12-20T13:14:36
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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	3.2

2.3 Aspect



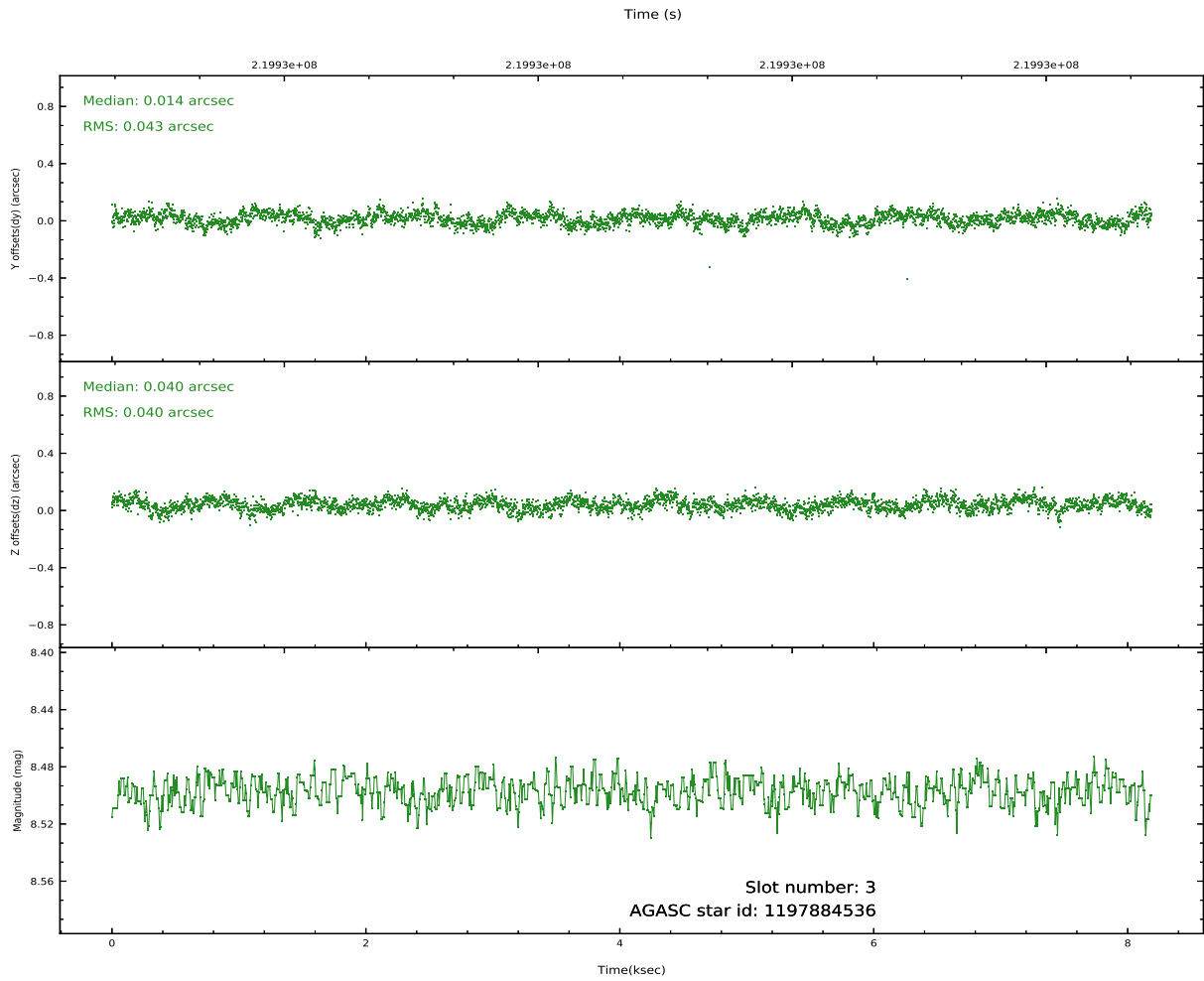
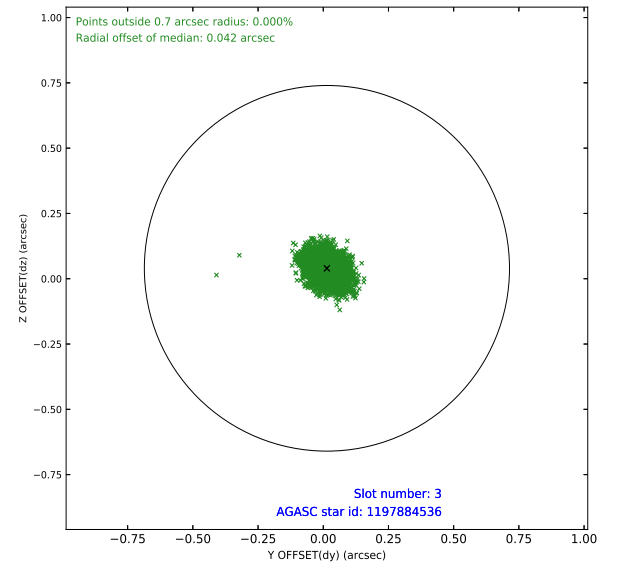
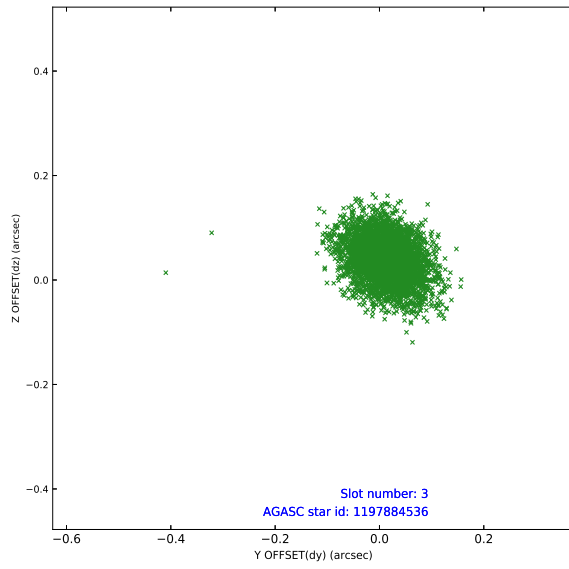


Slot Statistics

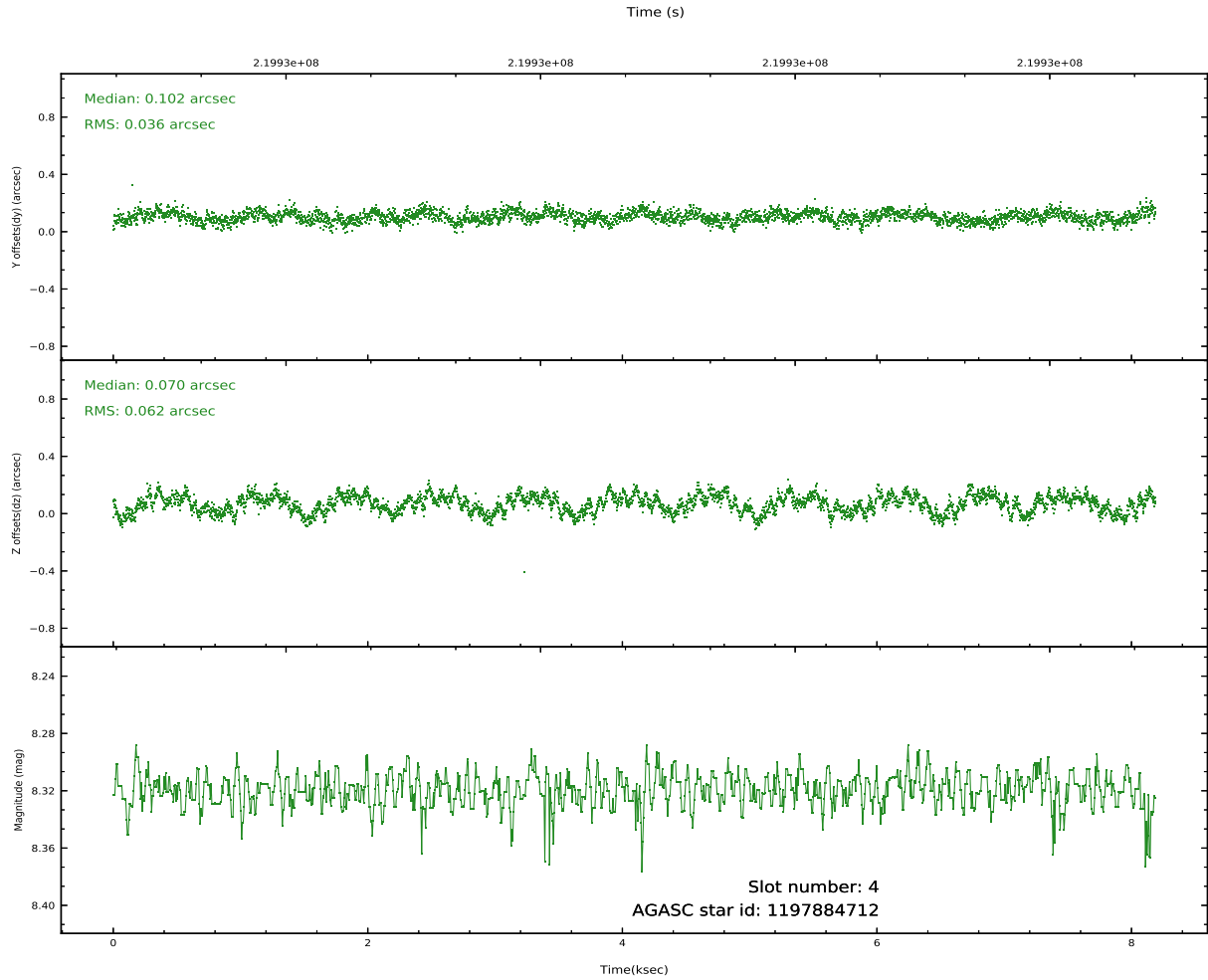
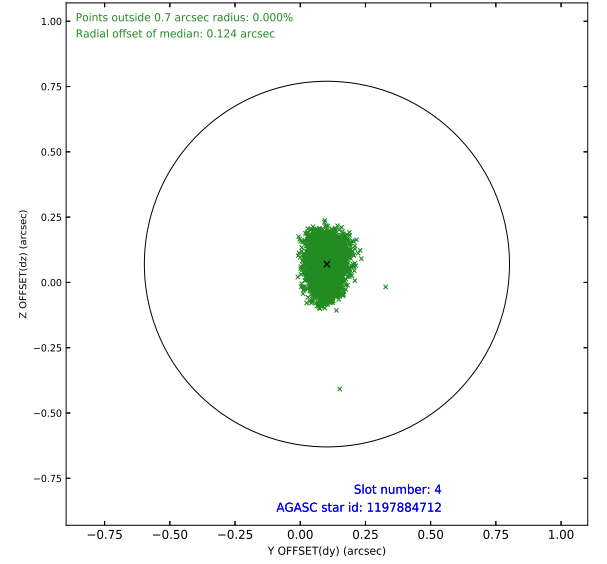
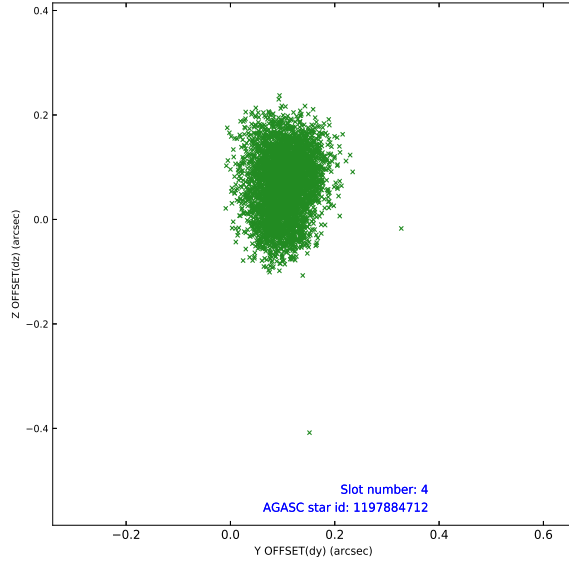
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1998	1.000	-0.057	-0.057	0.007	0.012	0.000000	0.000000	-759.84	-1733
1	FID		ACIS-S-4	7.20	1998	1.000	0.124	0.043	0.006	0.011	0.000000	0.000000	2153.27	174
2	FID		ACIS-S-5	7.23	1998	1.000	-0.099	0.023	0.007	0.013	0.000000	0.000000	-1811.88	169
3	GUIDE	used	1197884536	8.50	3995	1.000	0.014	0.040	0.062	0.101	17.160729	-71.835289	-1091.75	1518
4	GUIDE	used	1197884712	8.32	3993	1.000	0.102	0.070	0.077	0.122	16.087398	-72.252690	-205.10	-181
5	GUIDE	used	1197885104	9.35	3983	1.000	0.042	0.041	0.097	0.153	17.845067	-72.189368	385.00	1671
6	GUIDE	used	1197885328	7.23	3995	1.000	-0.092	-0.108	0.047	0.077	16.283090	-71.733943	-1828.57	766
7	GUIDE	used	1198189696	7.37	3993	1.000	-0.071	-0.036	0.061	0.097	15.223750	-72.697522	899.59	-1671

2.4 Star Slots

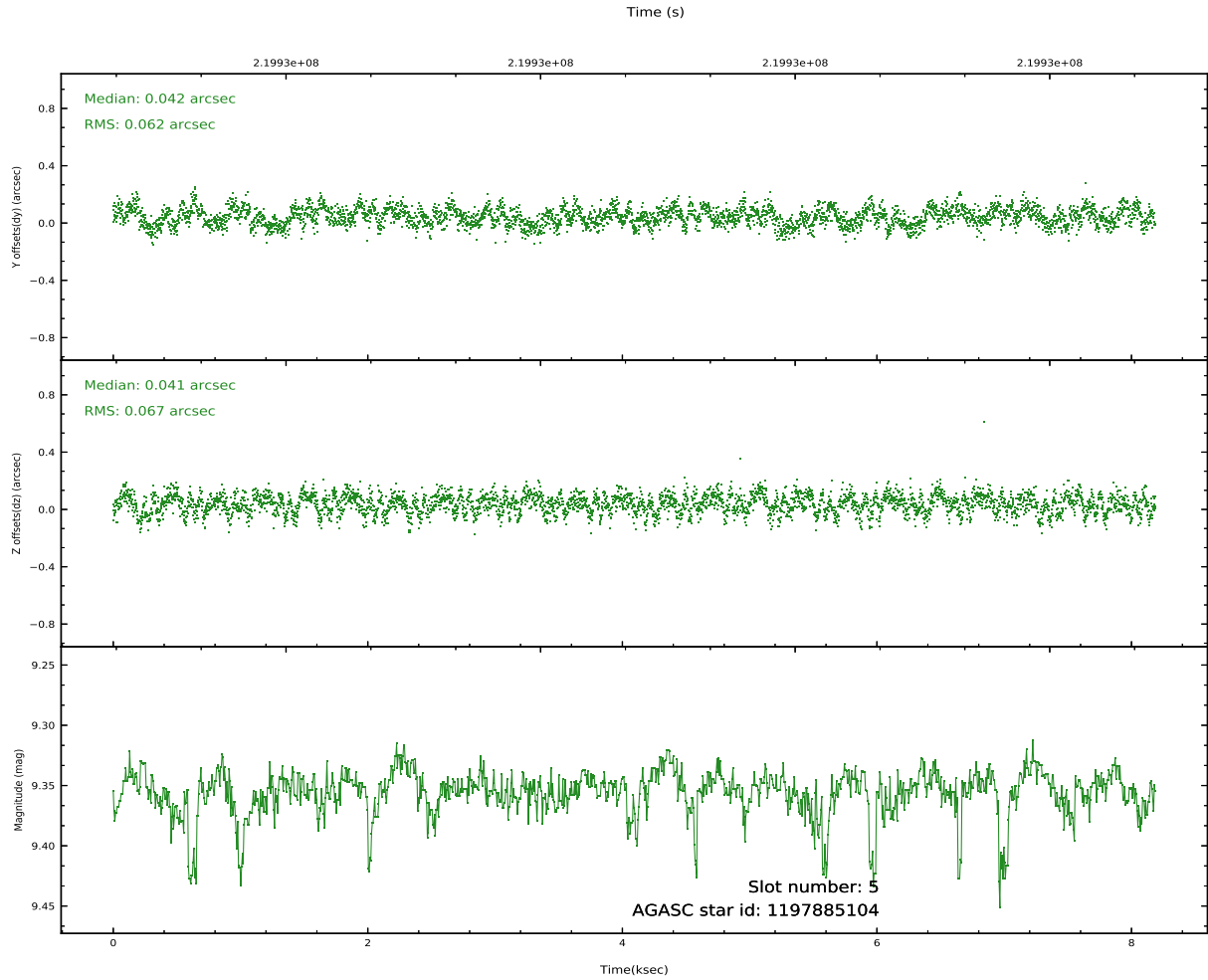
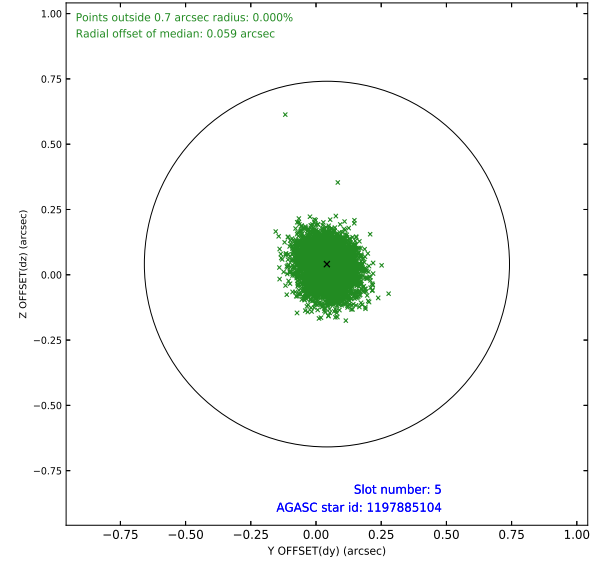
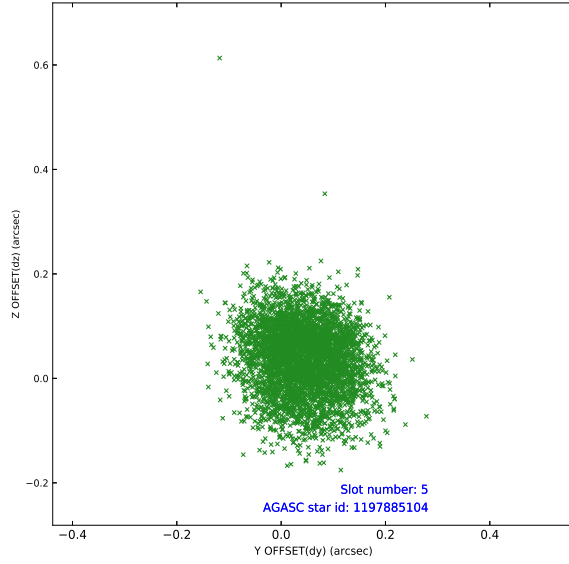
2.4.1 Slot 3



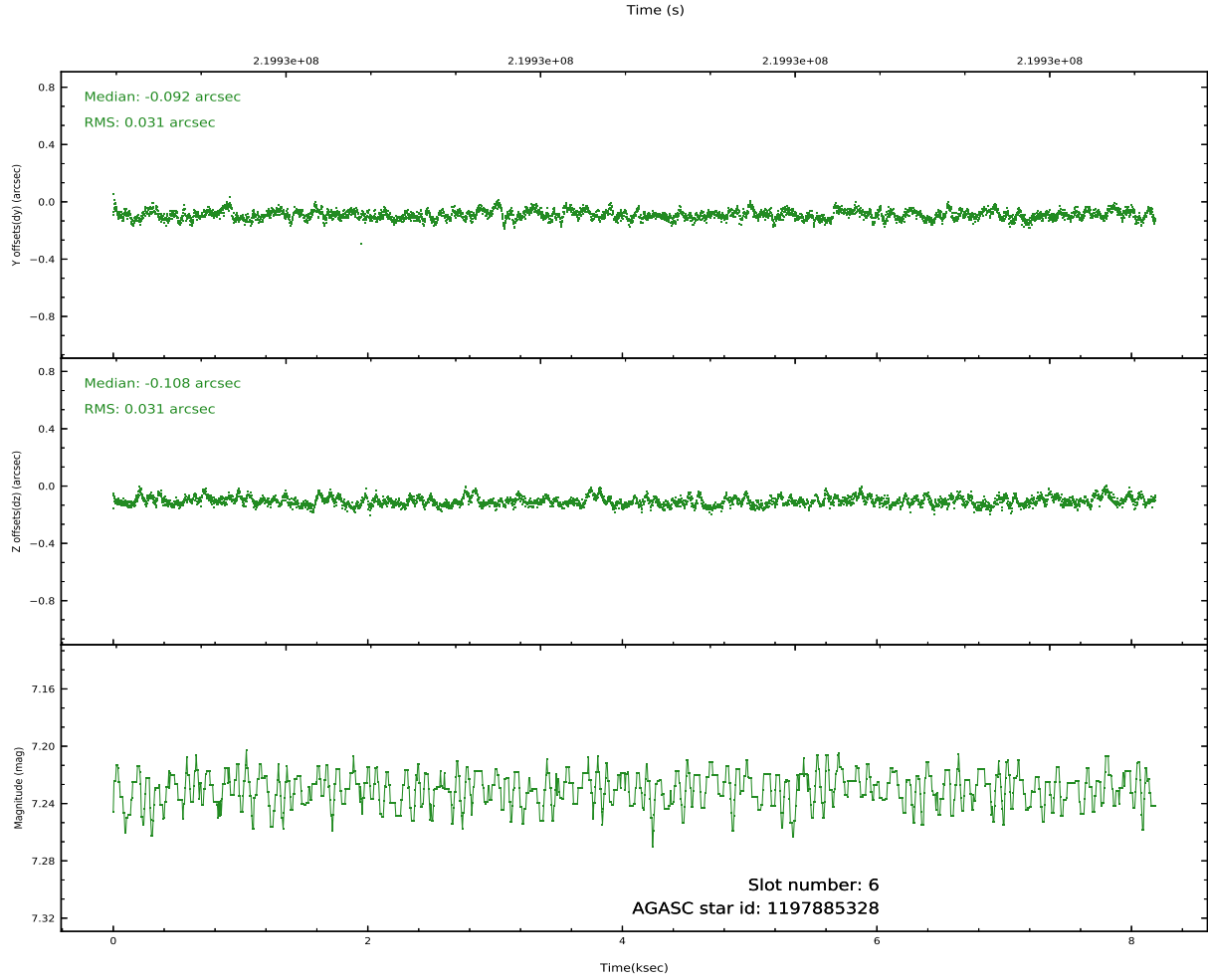
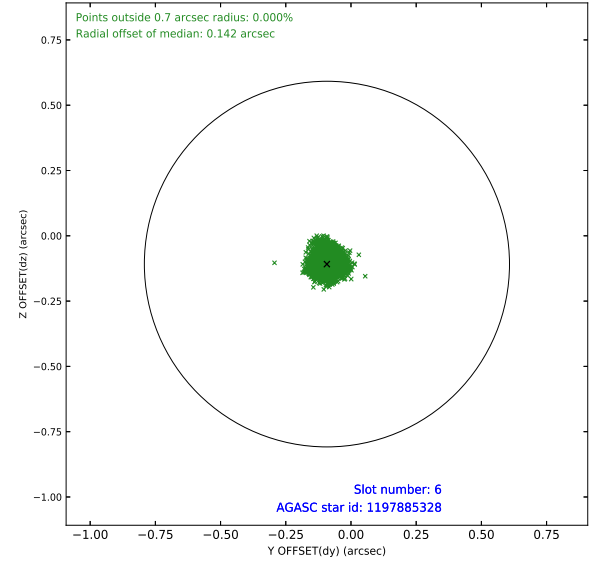
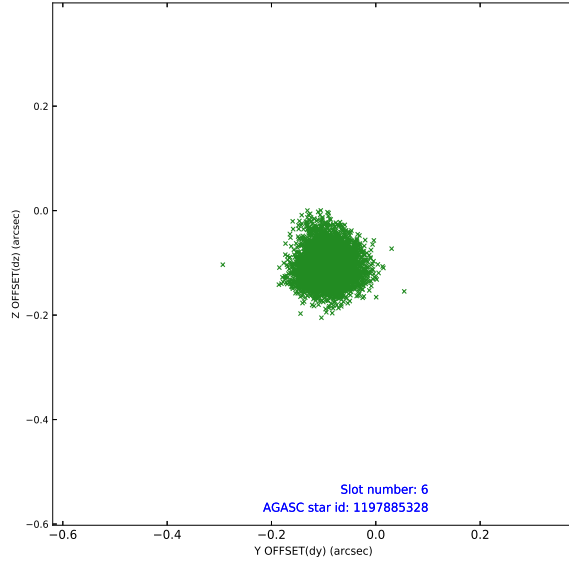
2.4.2 Slot 4



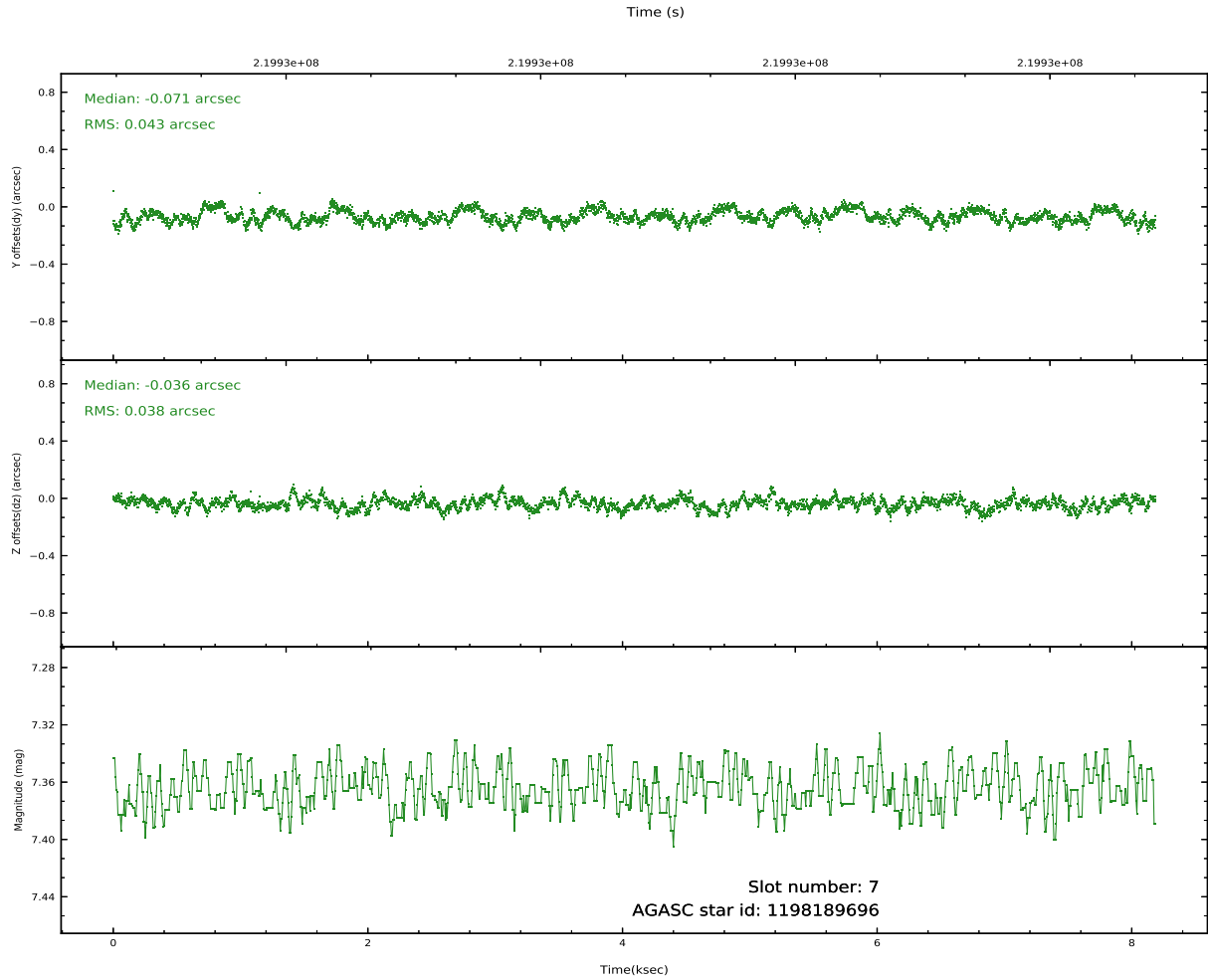
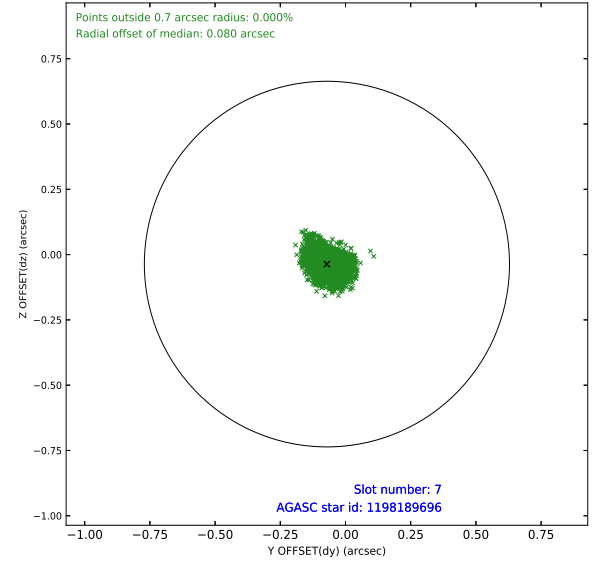
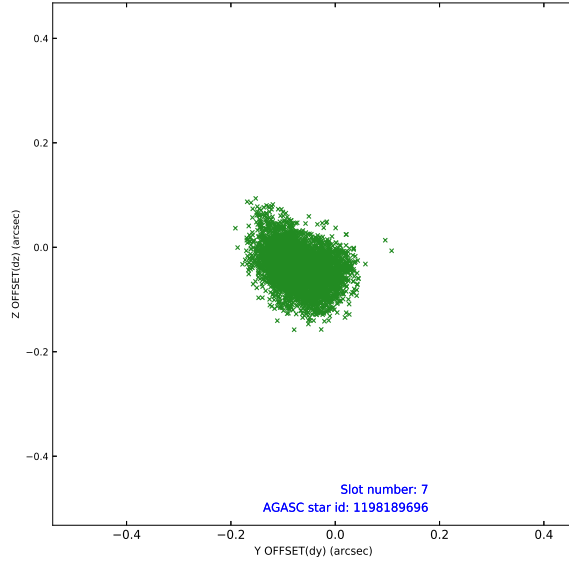
2.4.3 Slot 5



2.4.4 Slot 6

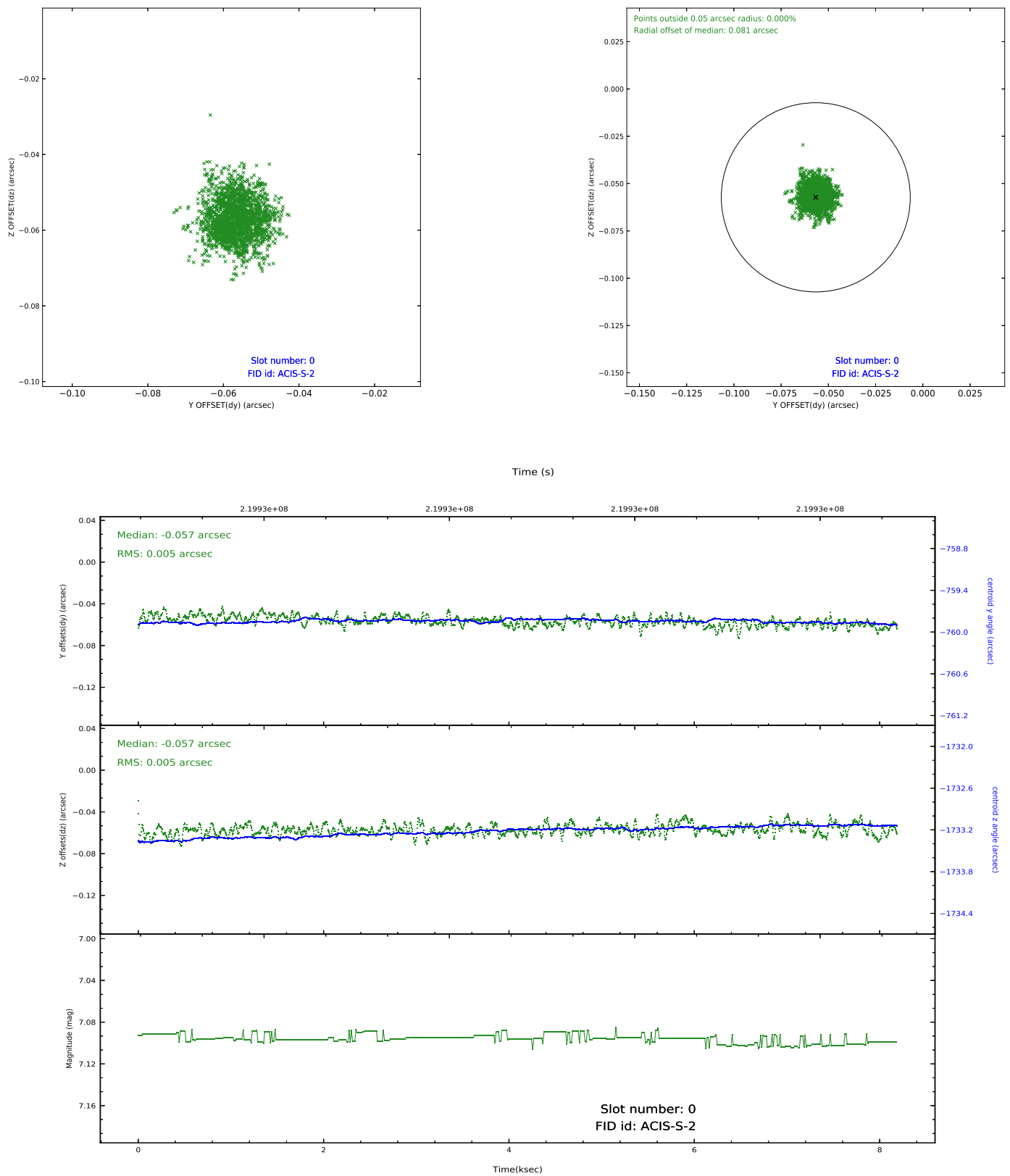


2.4.5 Slot 7

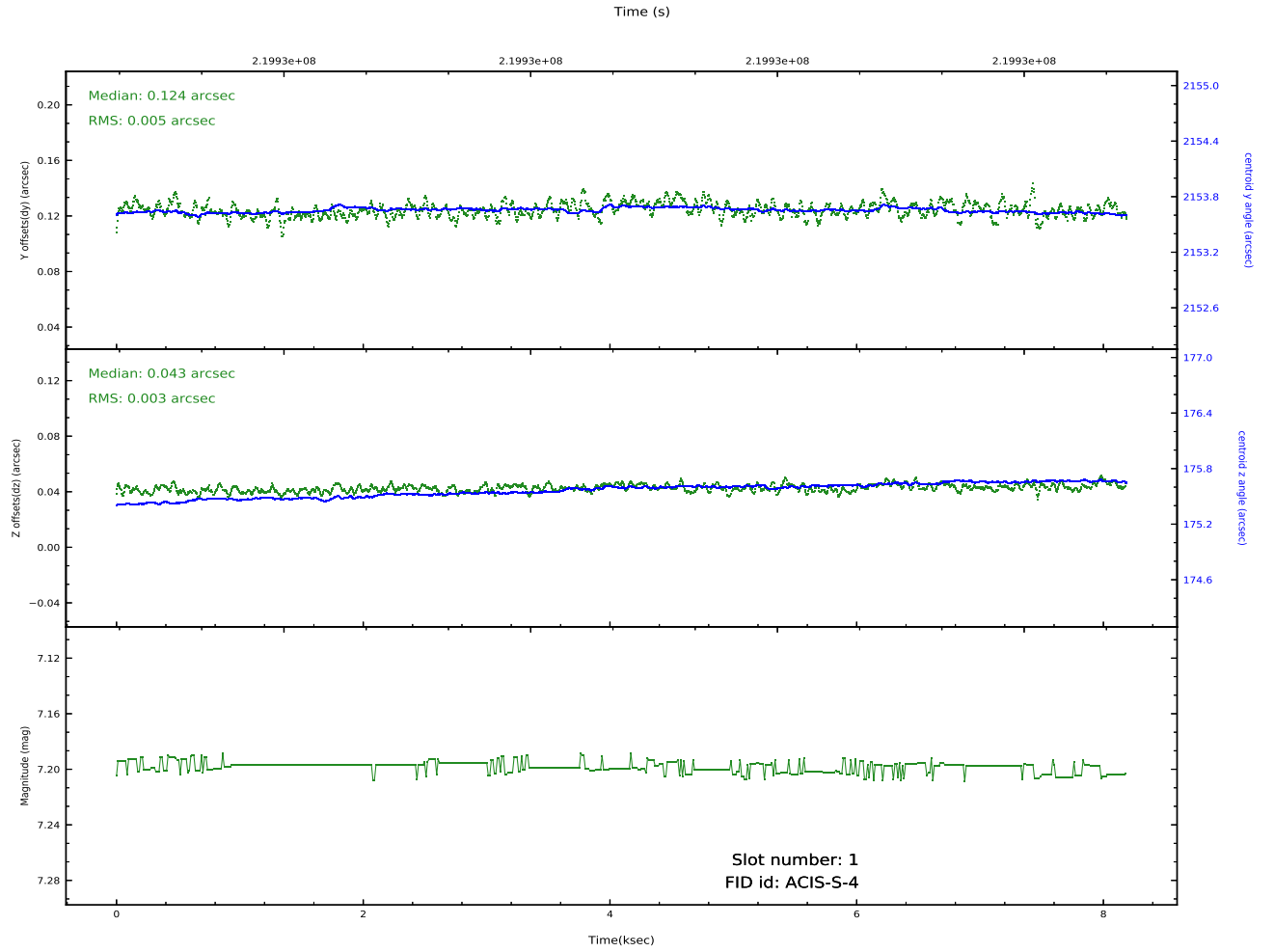
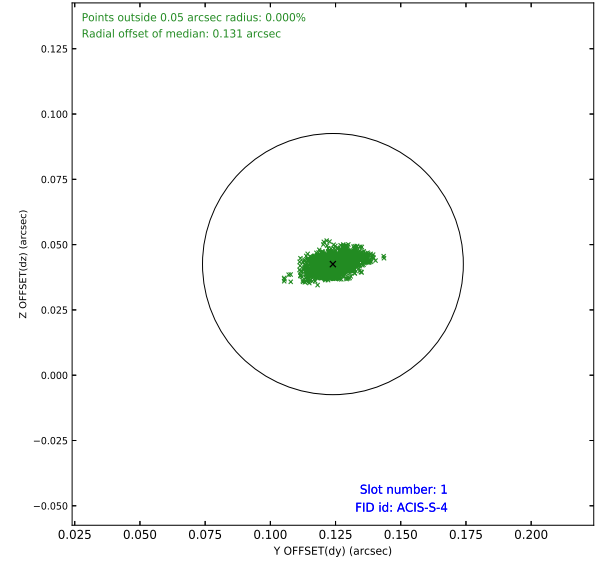
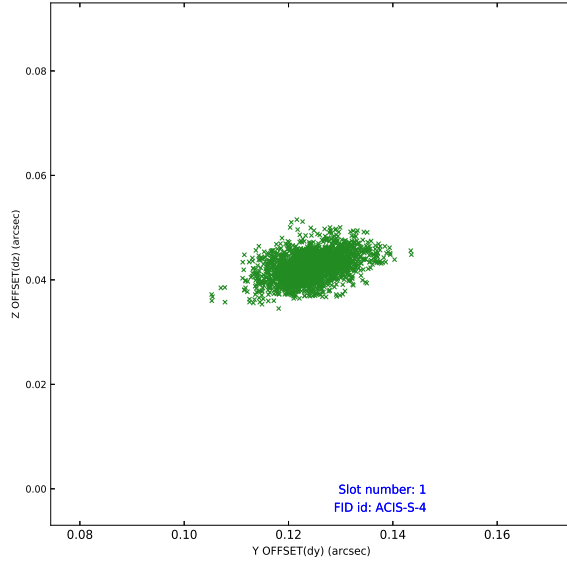


2.5 FID Slots

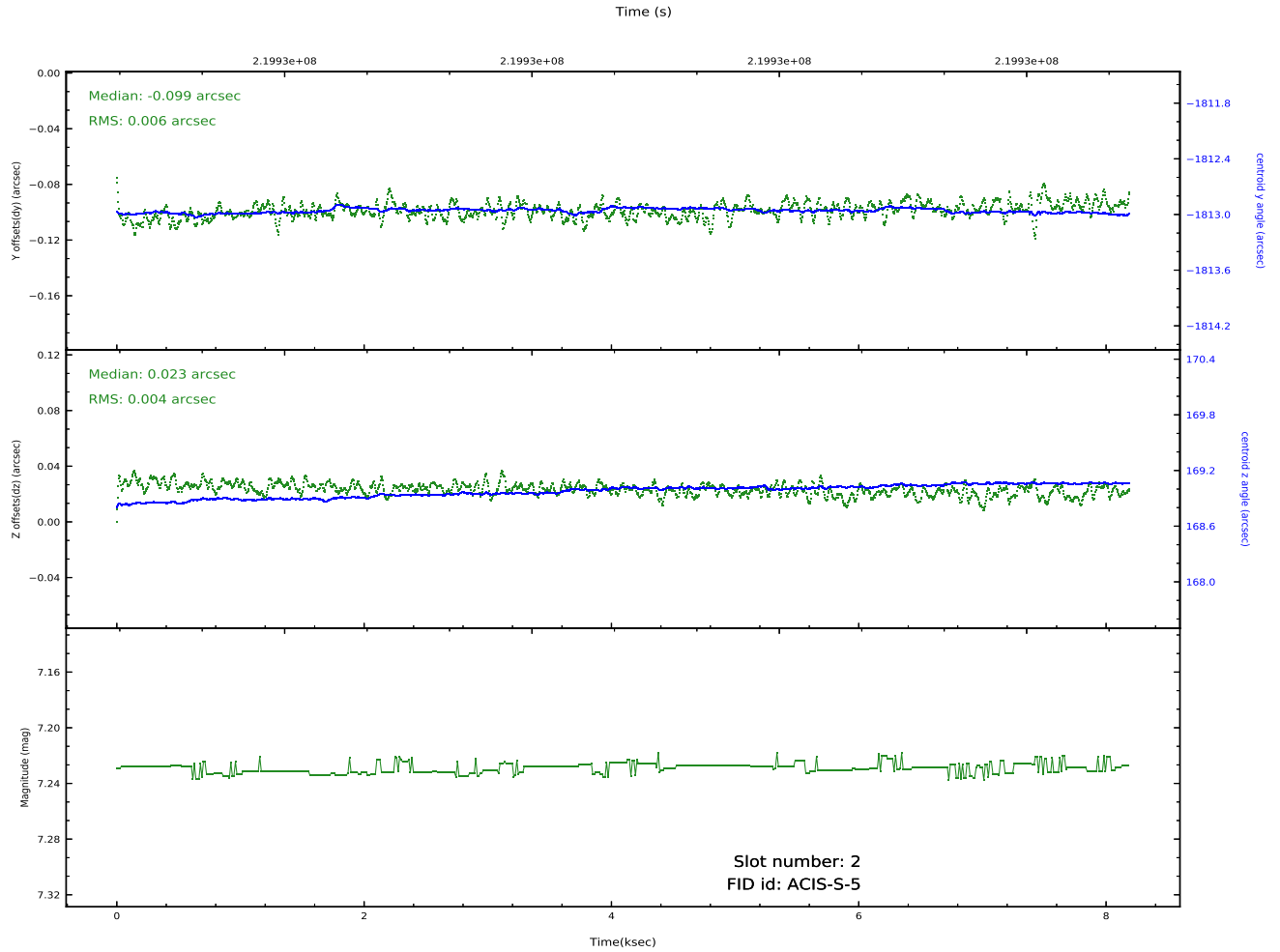
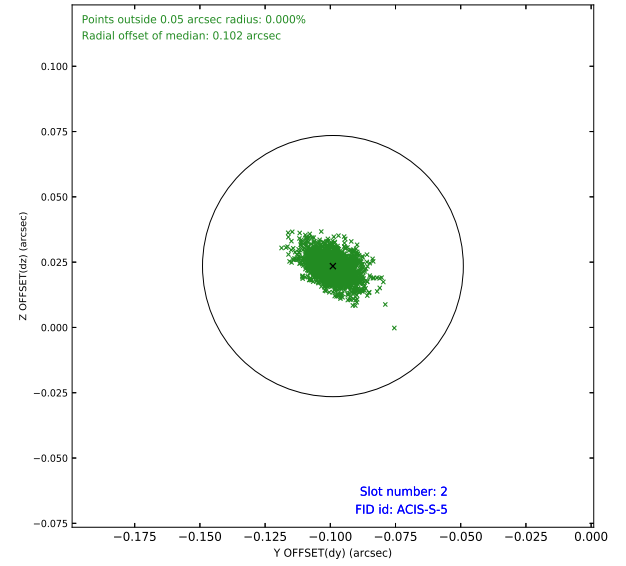
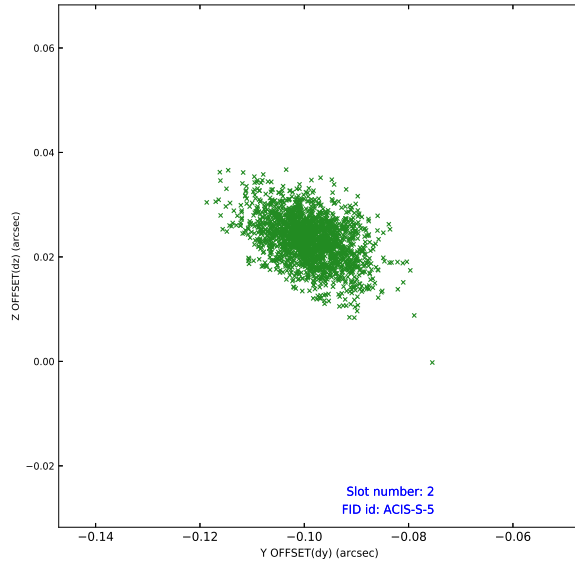
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.753599

A.2 Comments

Window constraint satisfied.