

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20504 - L2 Version 2
Chandra X-Ray Center

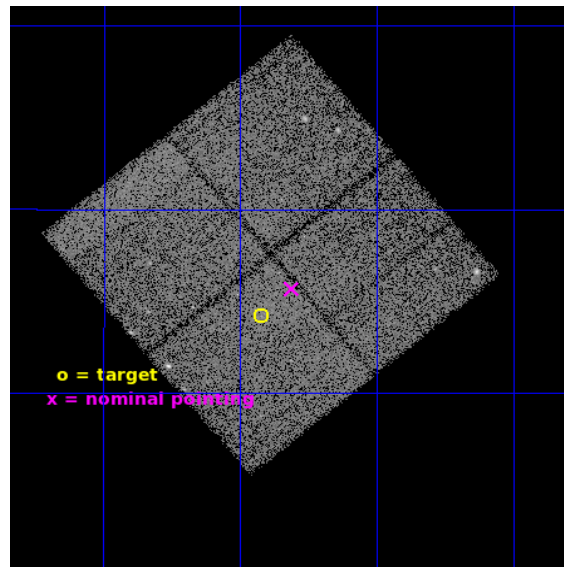
L2 Processing Date : Oct 27 2020

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1 Front

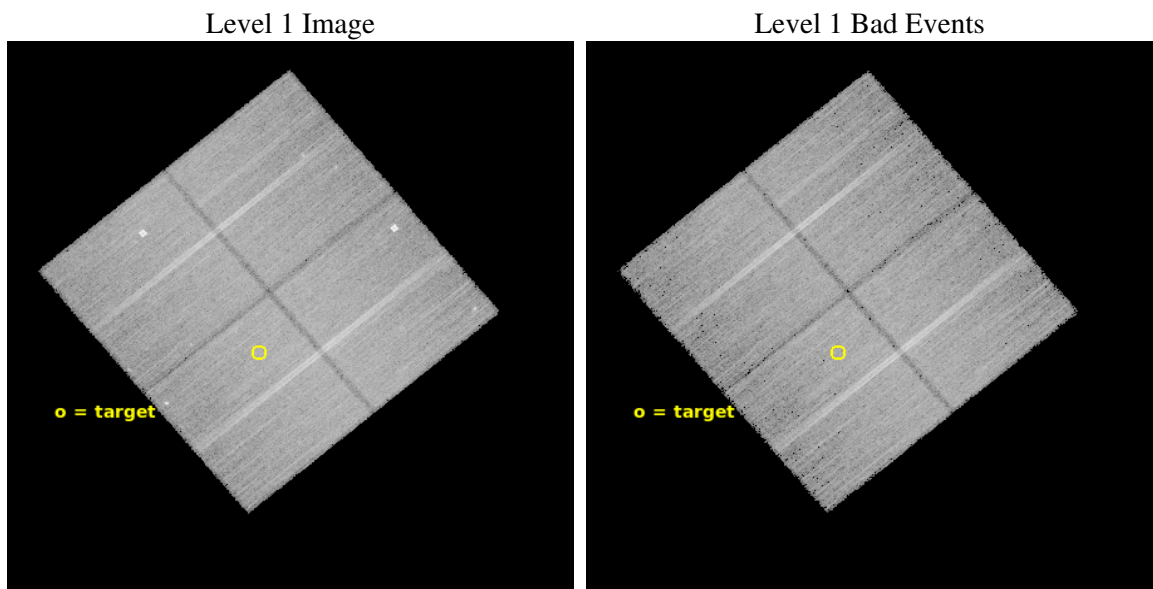
seq_num	801718	Sequence number
obs_id	20504	Observation id
title	Enabling precision cosmology with optically selected galaxy clusters	
observer	Roger Morris	Principal investigator
object	CIG J002855+174412	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	7.23125	Observer's specified target RA [deg]
dec_targ	17.736778	Observer's specified target Dec [deg]
ra_nom	7.2028185722839	Nominal RA [deg]
dec_nom	17.761393053455	Nominal Dec [deg]
roll_nom	140.21715059323	Nominal Roll [deg]
revision	2	Processing version of data
ontime	36077.800277591	Sum of GTIs [s]
livetime	35606.417256874	Livetime [s]
ontime0	36077.800277591	Sum of GTIs [s]
ontime1	36077.800277591	Sum of GTIs [s]
ontime2	36074.65916729	Sum of GTIs [s]
ontime3	36077.800277591	Sum of GTIs [s]
l2events	101859	Number of level 2 events



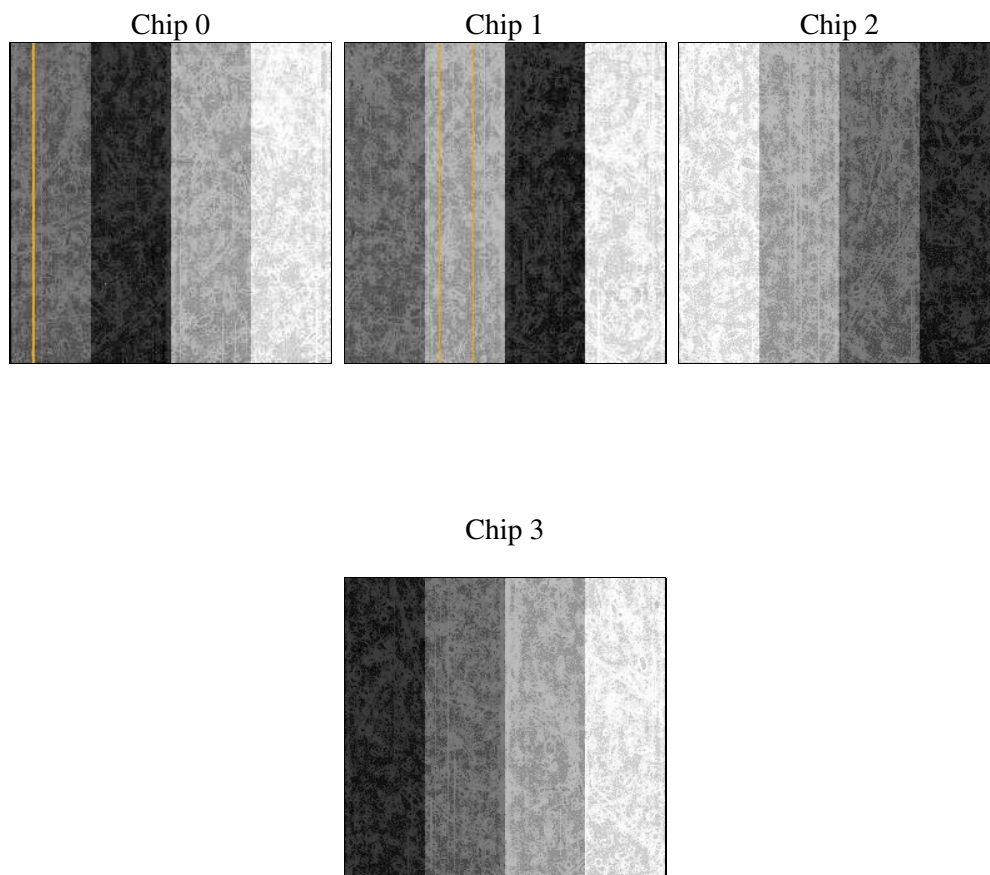
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	36000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	36077.800277591	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	36077.800277591	Sum of GTIs [s]
date	2020-10-27T16:18:44	Date and time of file creation	ontime1	36077.800277591	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	36074.65916729	Sum of GTIs [s]
			ontime3	36077.800277591	Sum of GTIs [s]
			l1events	1066351	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	251002	259186	281396	274767
rejected events	220834	222775	248443	245714
rejected %	87%	85%	88%	89%

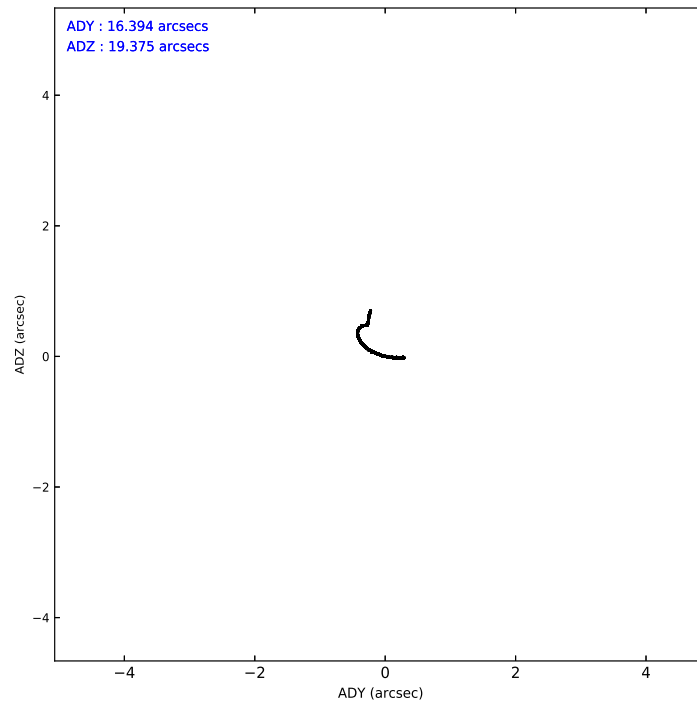
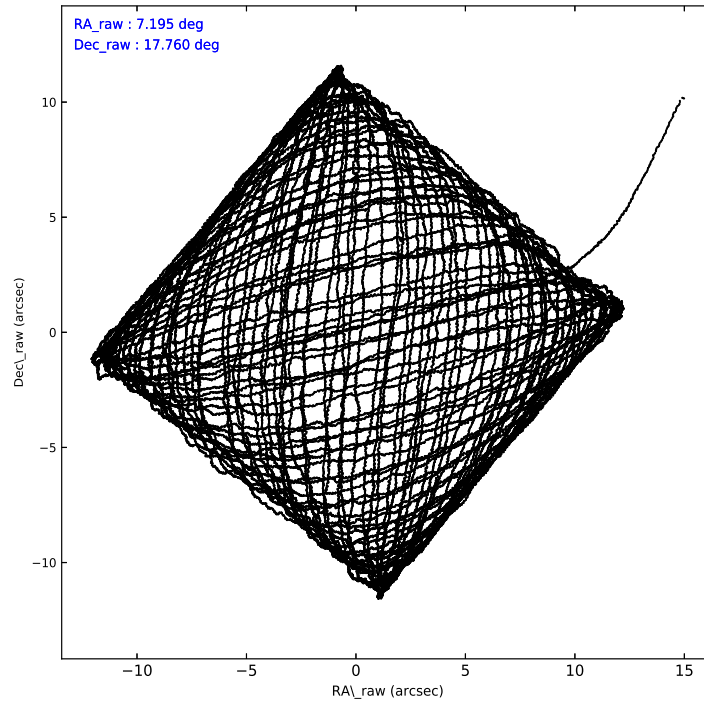
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	10230	14210	14024	10443
	4%	5%	4%	3%
grade 1 events	145	131	201	165
	0%	0%	0%	0%
grade 2 events	7614	8316	7198	6375
	3%	3%	2%	2%
grade 3 events	3019	3104	2870	3020
	1%	1%	1%	1%
grade 4 events	2897	3136	3023	2982
	1%	1%	1%	1%
grade 5 events	11467	11741	10994	12959
	4%	4%	3%	4%
grade 6 events	6411	7649	5843	6237
	2%	2%	2%	2%
grade 7 events	209219	210899	237243	232586
	83%	81%	84%	84%

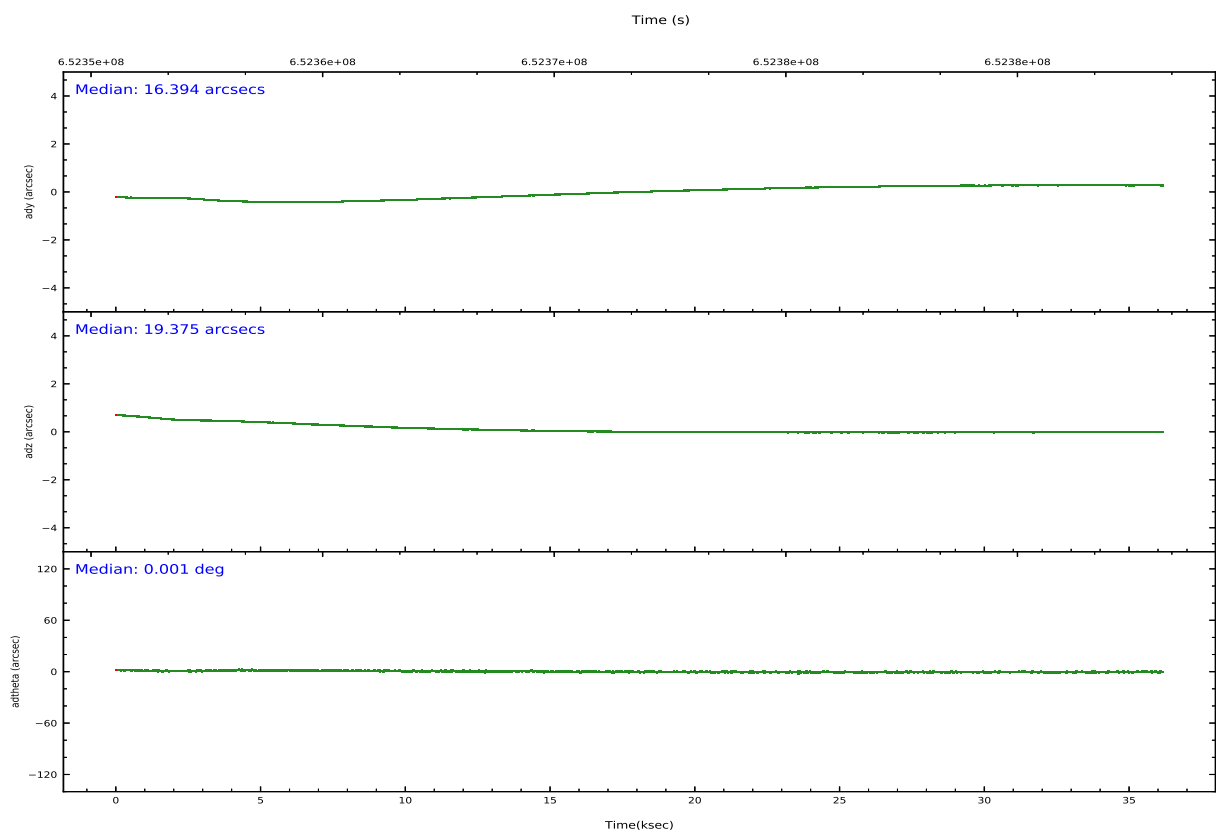
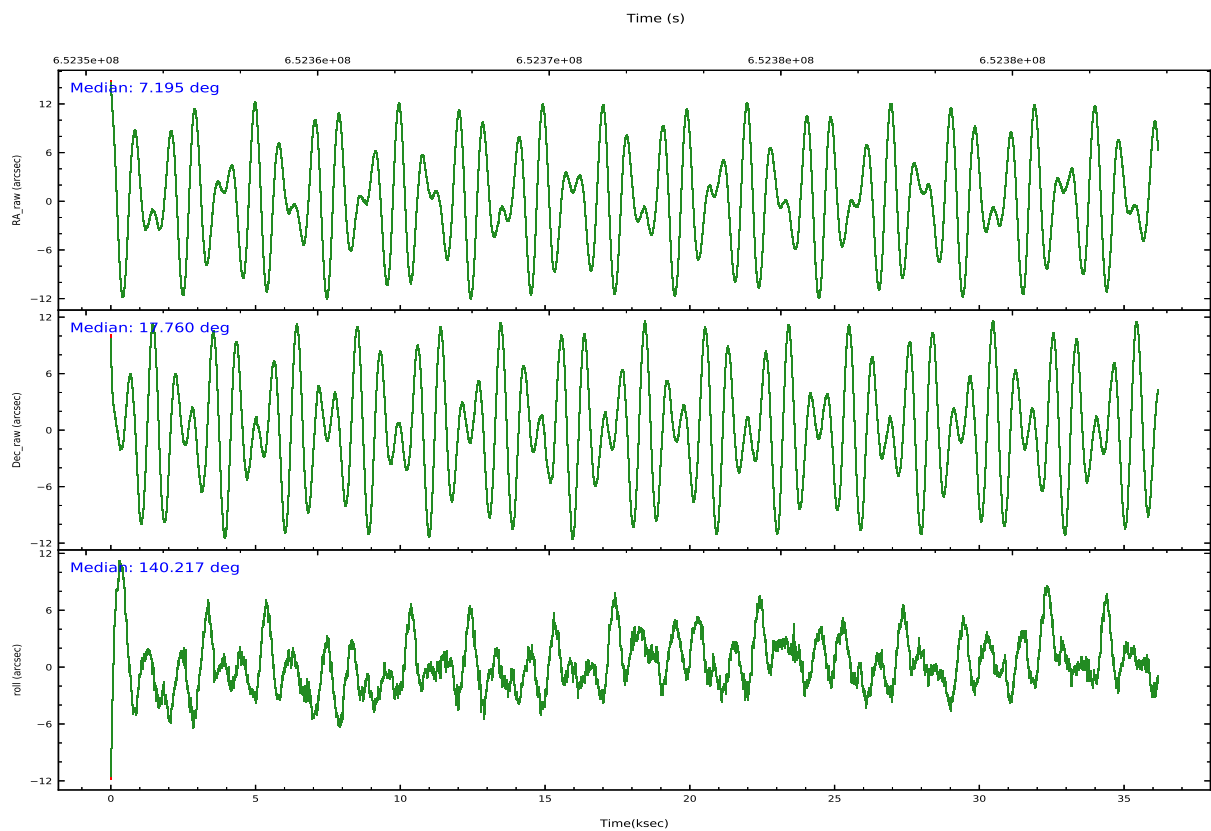
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-0123	ACIS-0123
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	7.223790	7.2028185722839
[deg] Pointing Dec	17.755554	17.761393053455
[deg] Pointing Roll	140.002267	140.21715059323
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-228.472463	-228.4783457680588
[mm] SIM translation stage offset	-5.12	-5.114107234870914
[s] Observation start time (MET)	652353031.184000	652351901.8296
Observation start date	2018-09-03T09:09:22	2018-09-03T08:51:41
[s] Observation end time (MET)	652389031.184000	652389829.3943599
Observation end date	2018-09-03T19:09:22	2018-09-03T19:23:49
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O1	N
CCD S3 on	N	N
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	1	1
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



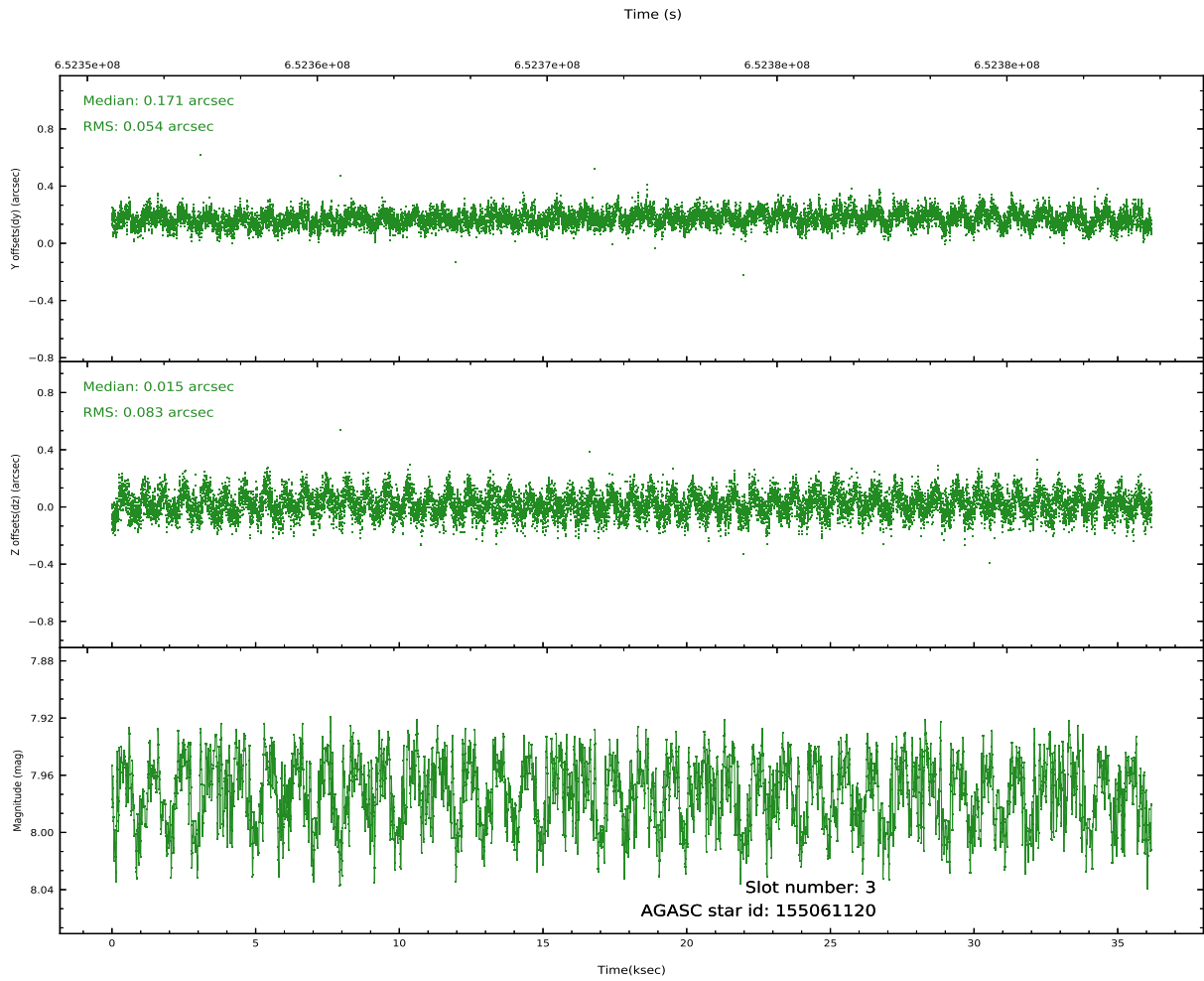
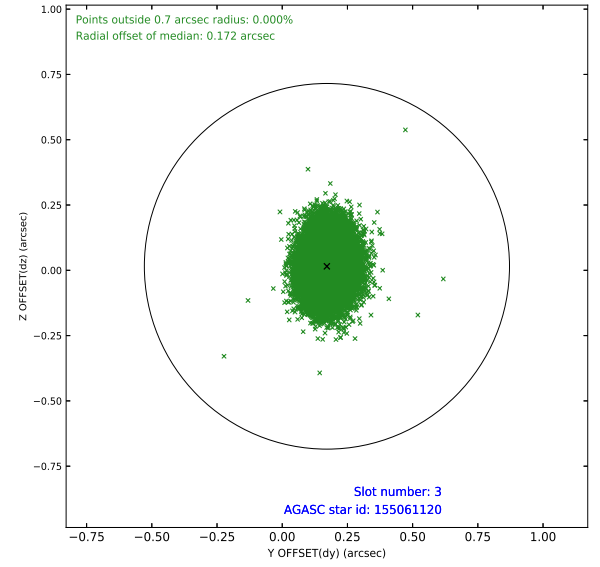
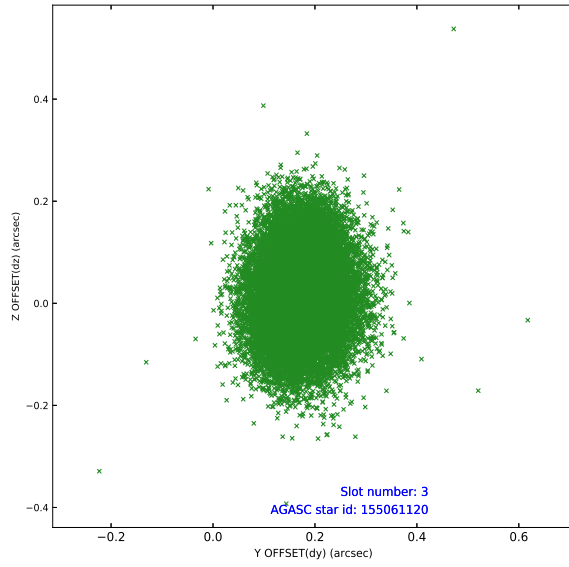


Slot Statistics

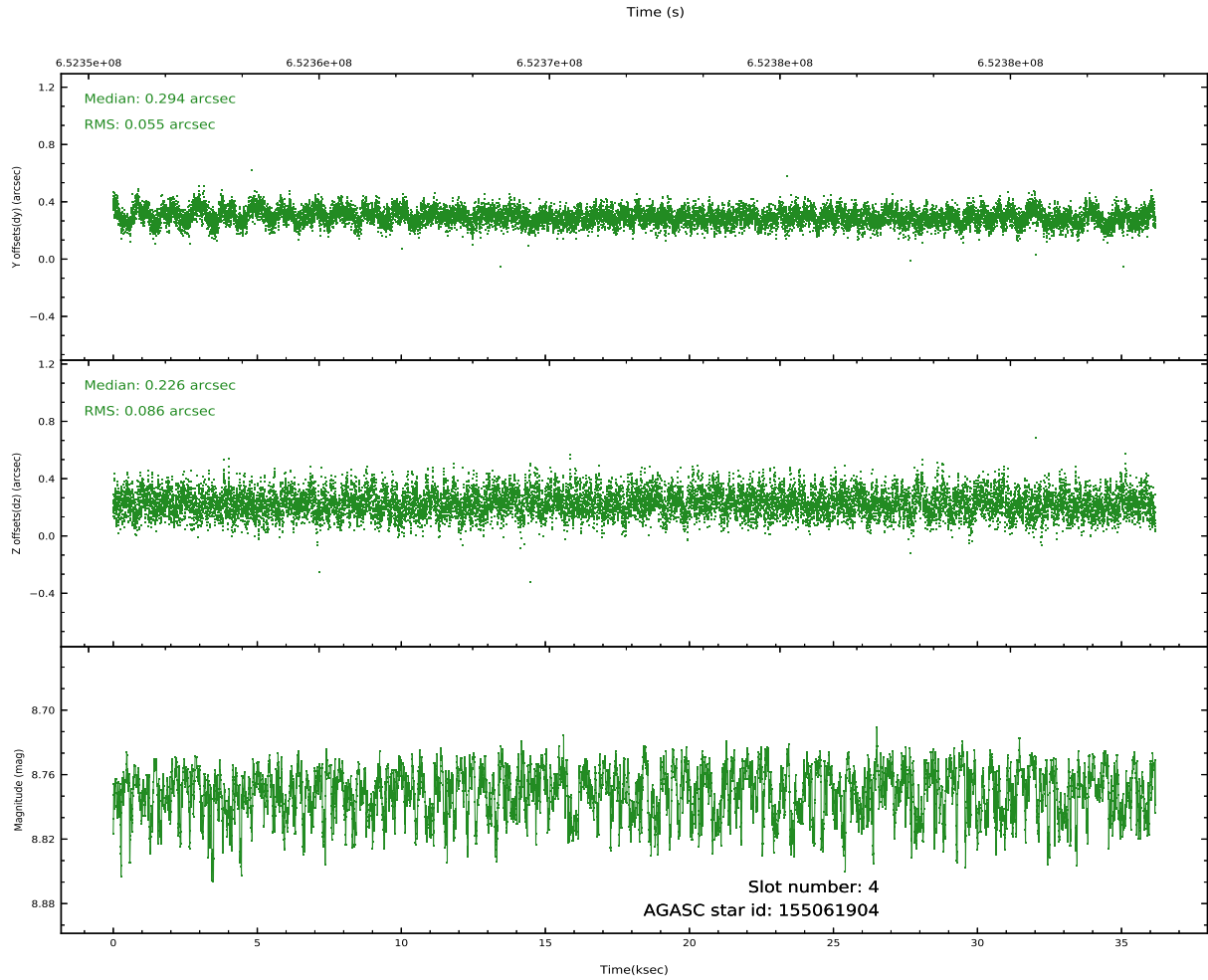
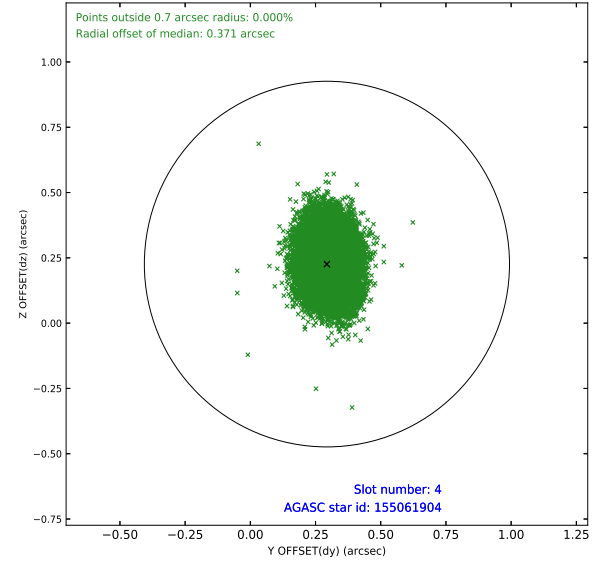
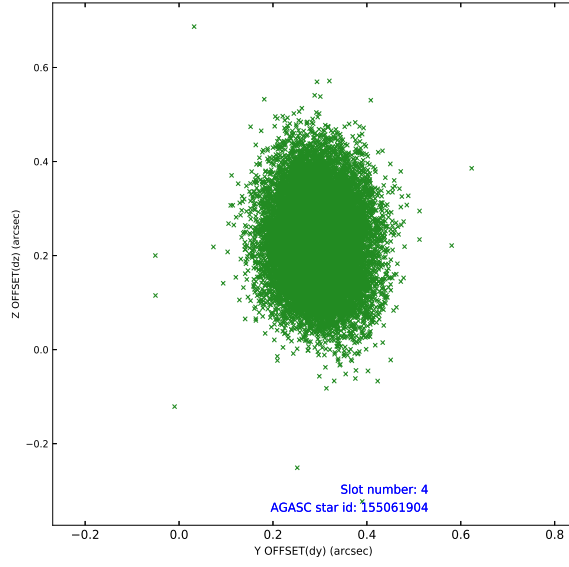
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.16	8824	1.000	0.257	-0.226	0.011	0.018	0.000000	0.000000	923.17	-948
1	FID		ACIS-I-5	7.15	8824	1.000	-0.342	0.203	0.009	0.016	0.000000	0.000000	-1825.43	949
2	FID		ACIS-I-6	7.17	8822	1.000	-0.005	0.093	0.010	0.015	0.000000	0.000000	388.53	1593
3	GUIDE	used	155061120	7.97	17643	1.000	0.171	0.015	0.104	0.170	7.800686	17.776635	-1464.04	-1331
4	GUIDE	used	155061904	8.77	17635	1.000	0.294	0.226	0.107	0.179	7.968593	17.936498	-1531.41	-2141
5	GUIDE	used	155063200	7.75	17645	1.000	0.006	0.152	0.105	0.166	7.430692	17.610780	-878.55	-57
6	GUIDE	used	155064272	8.79	17622	1.000	-0.122	-0.233	0.160	0.243	6.749584	17.903503	1587.89	634
7	GUIDE	used	155061552	9.05	17621	1.000	-0.353	-0.173	0.142	0.228	6.503517	17.983455	2419.62	953

2.4 Star Slots

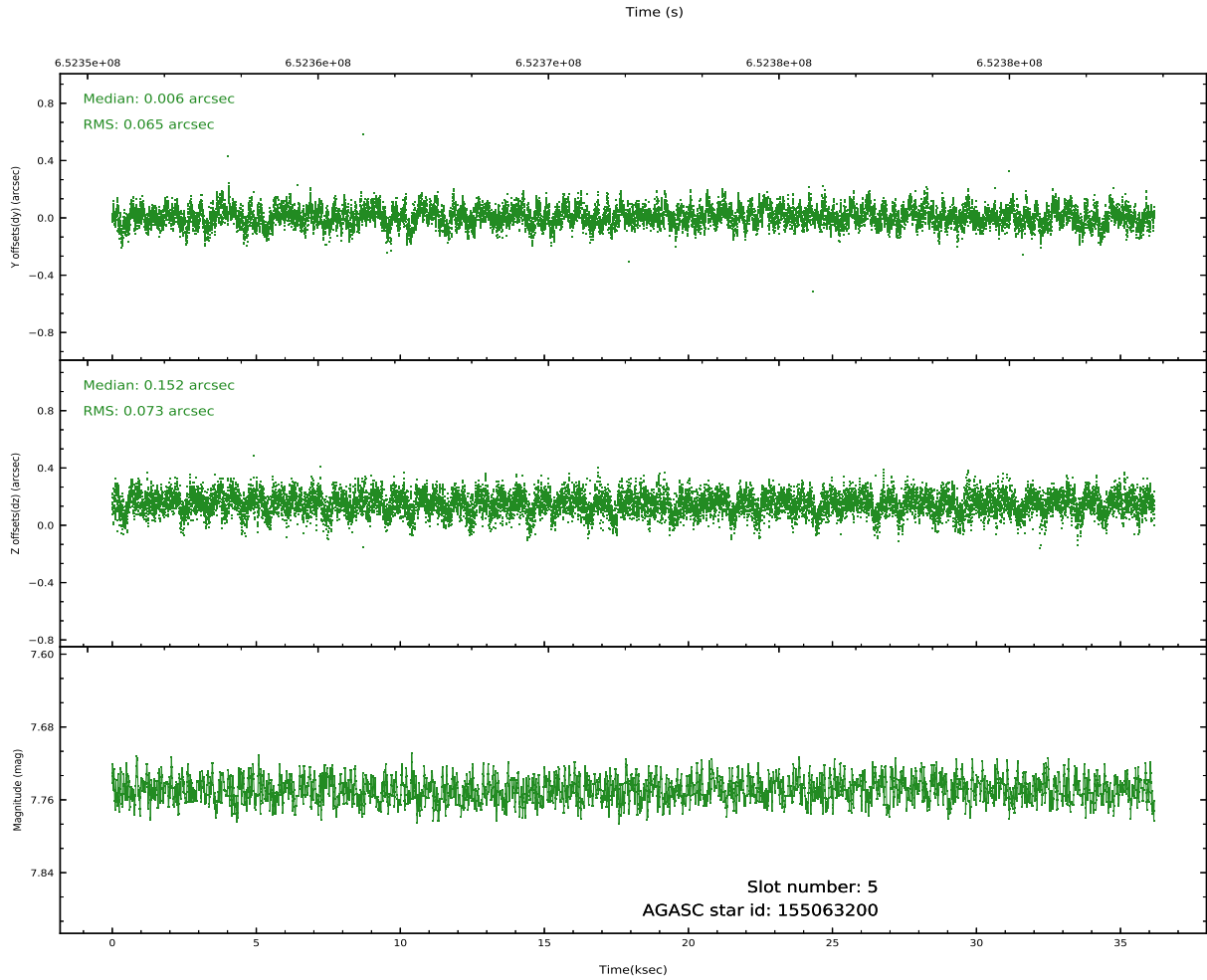
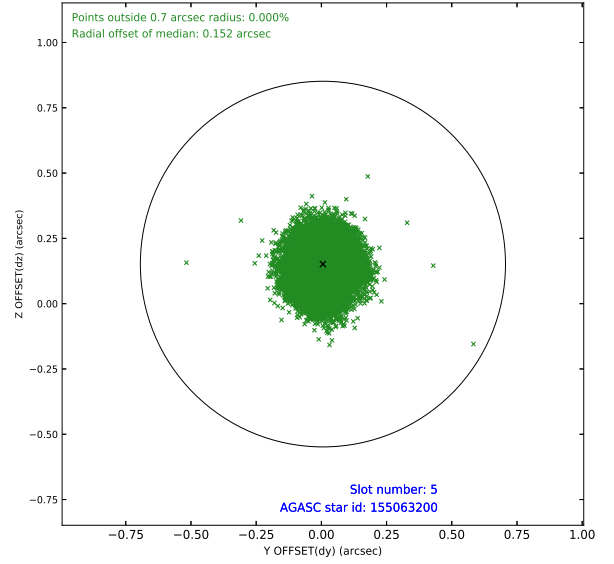
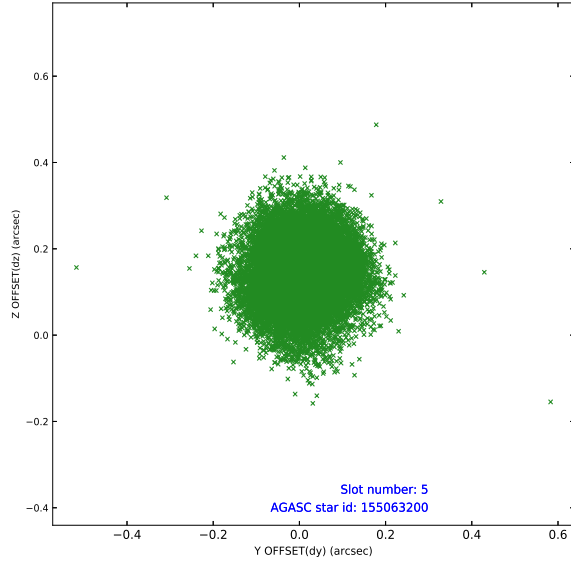
2.4.1 Slot 3



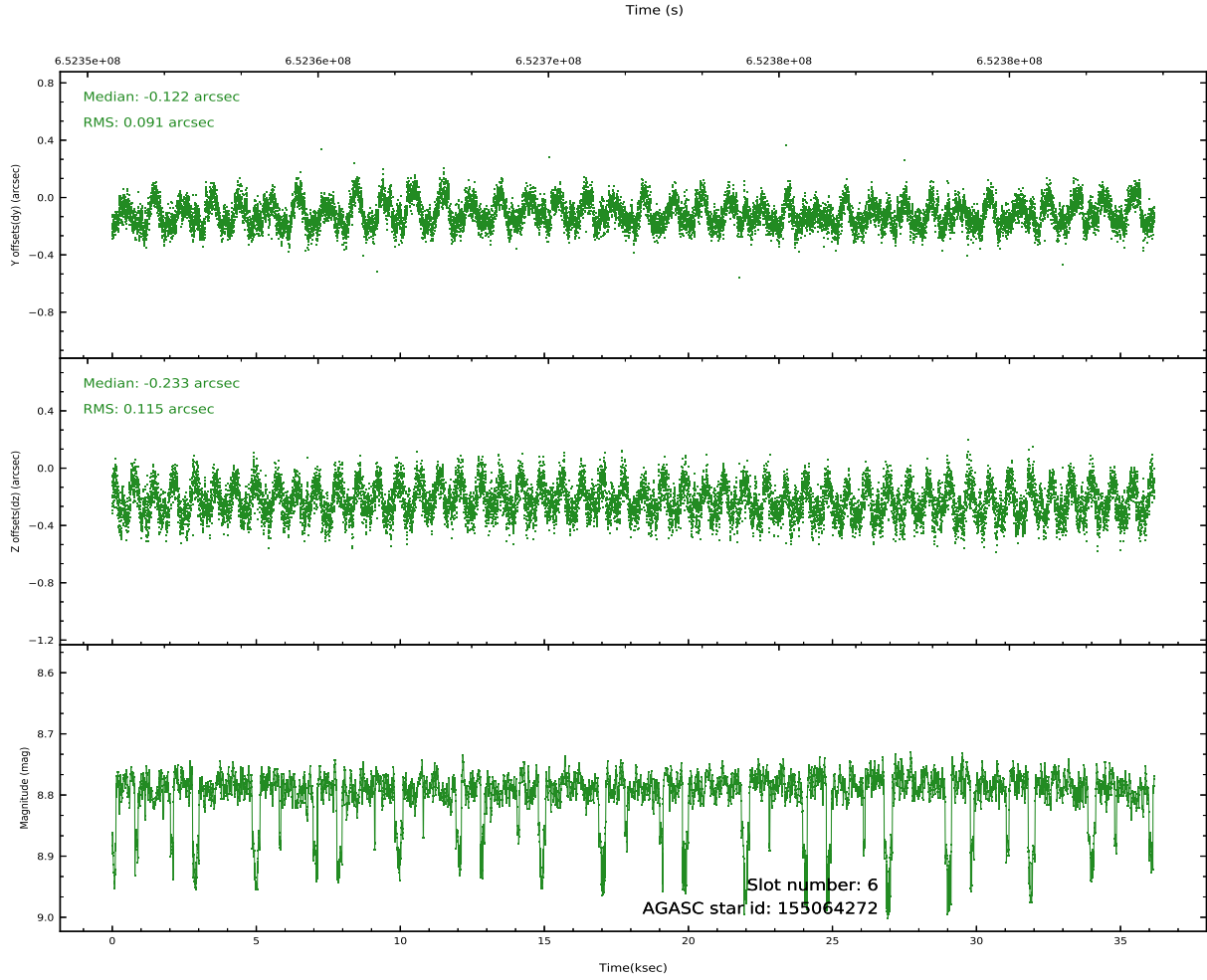
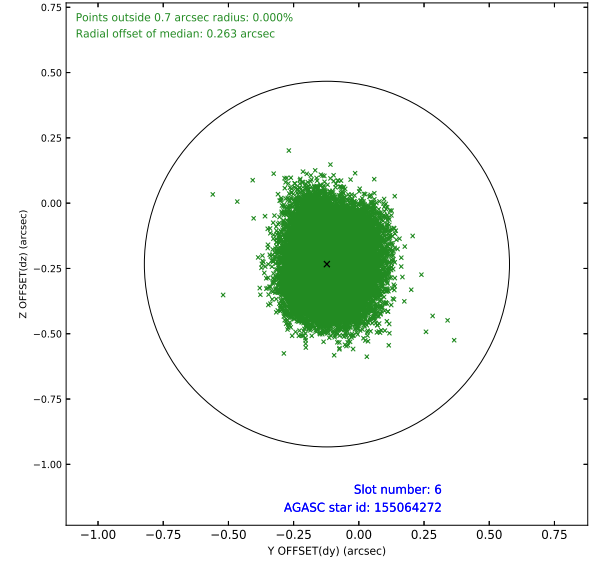
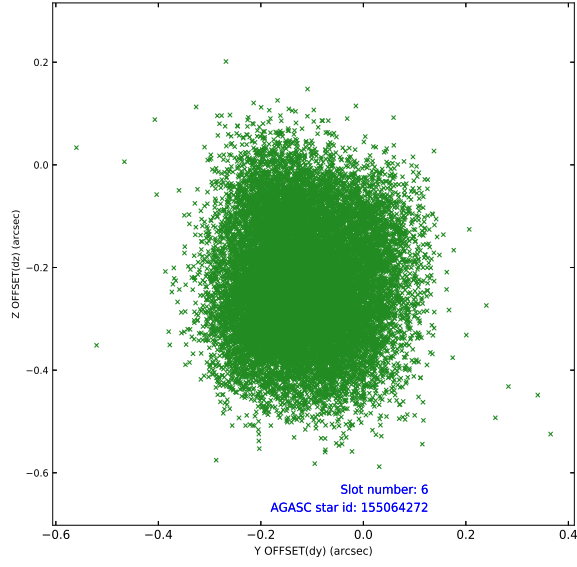
2.4.2 Slot 4



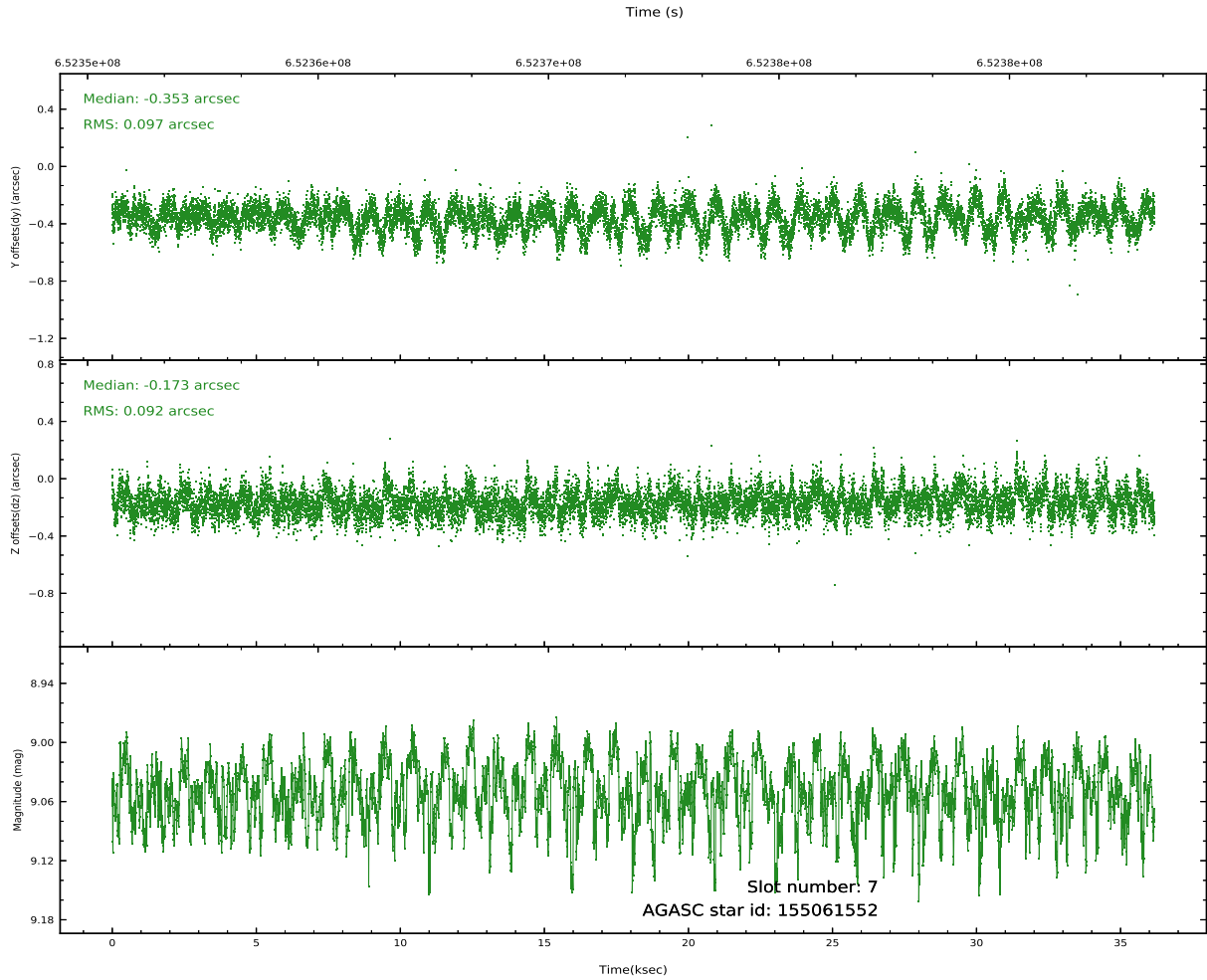
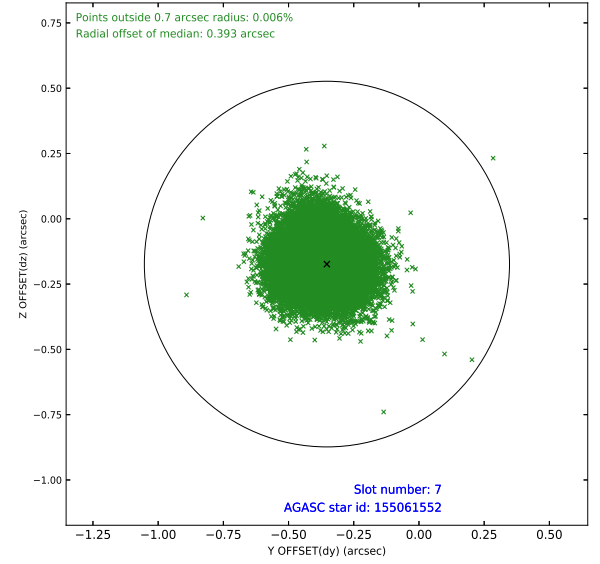
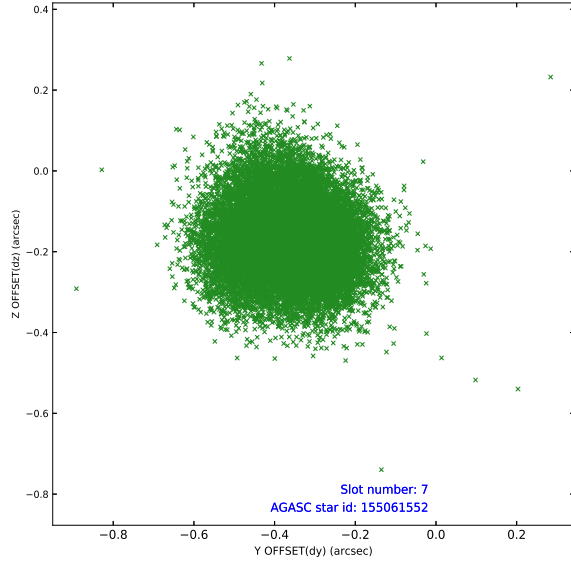
2.4.3 Slot 5



2.4.4 Slot 6

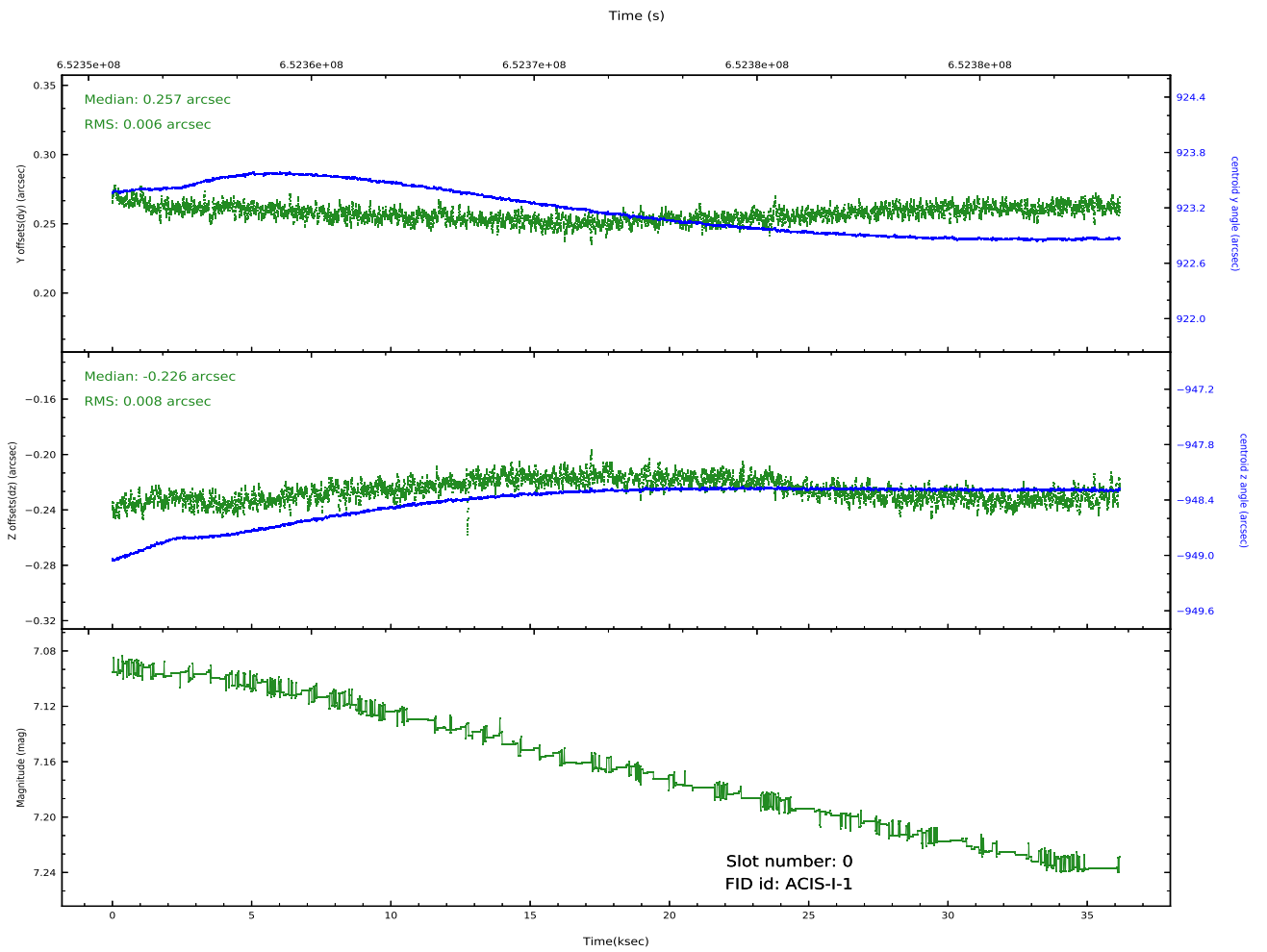
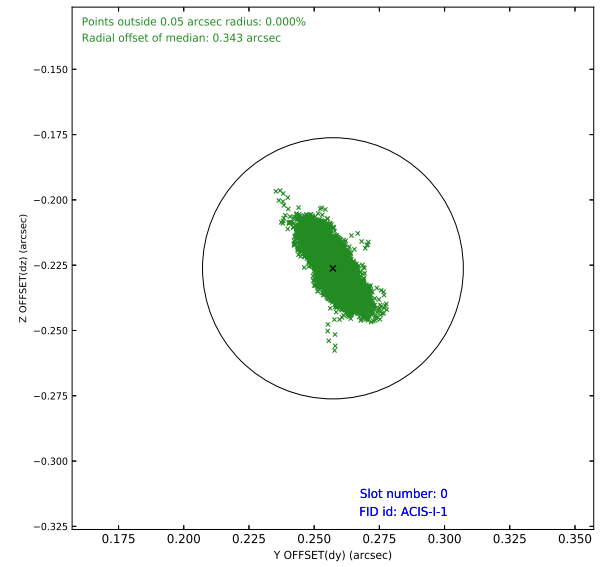
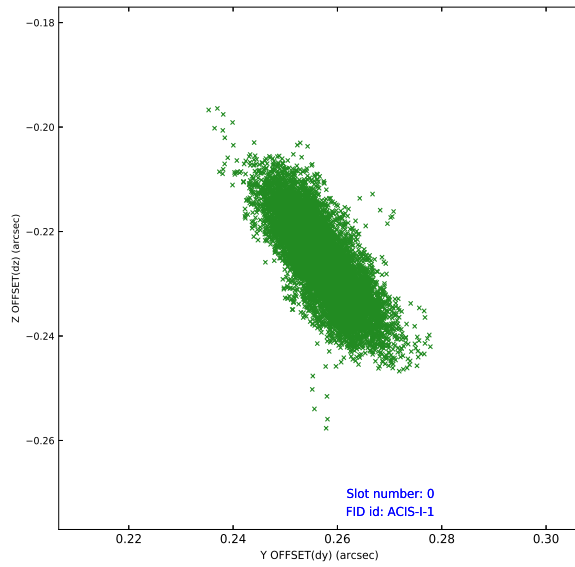


2.4.5 Slot 7

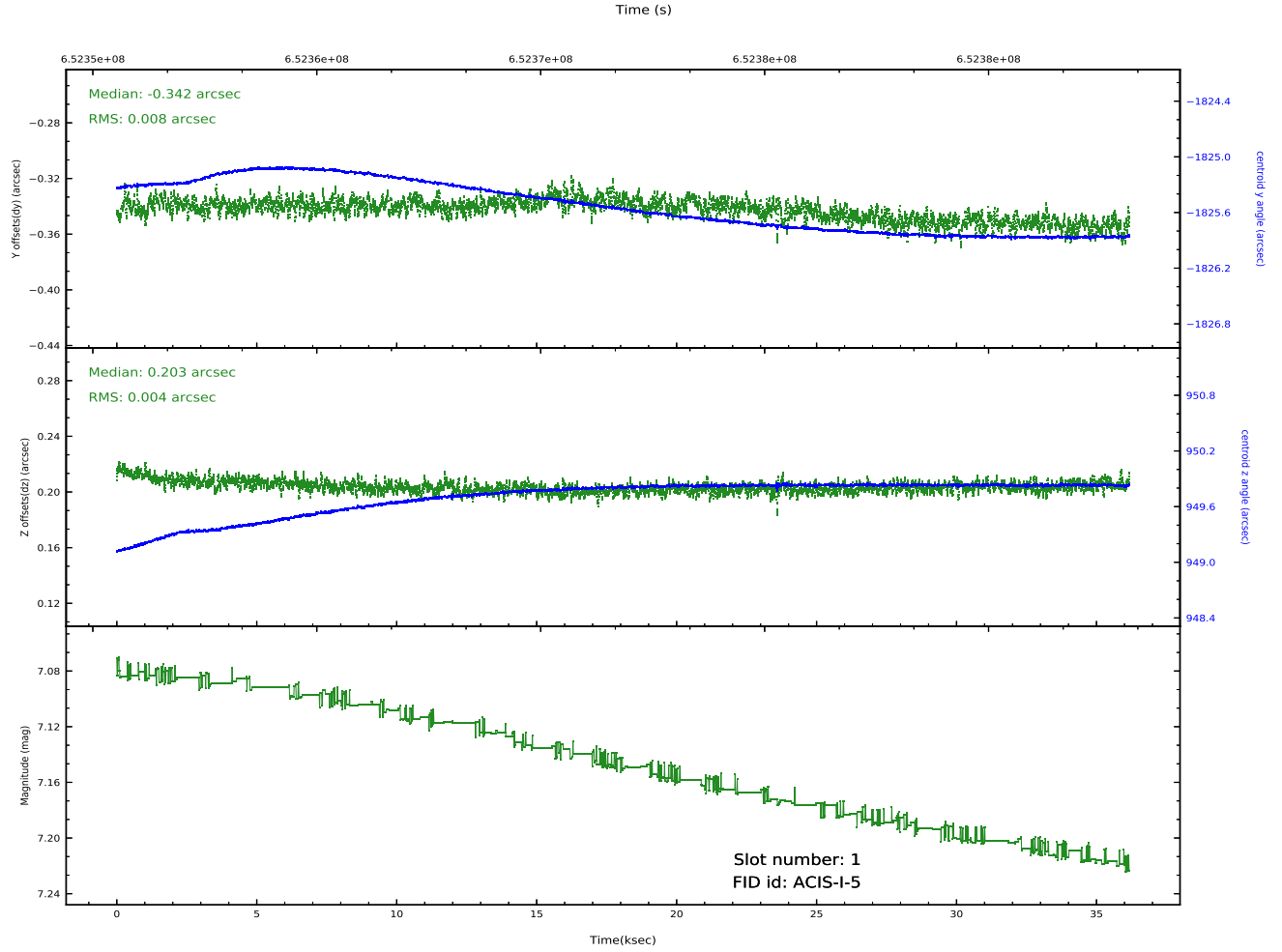
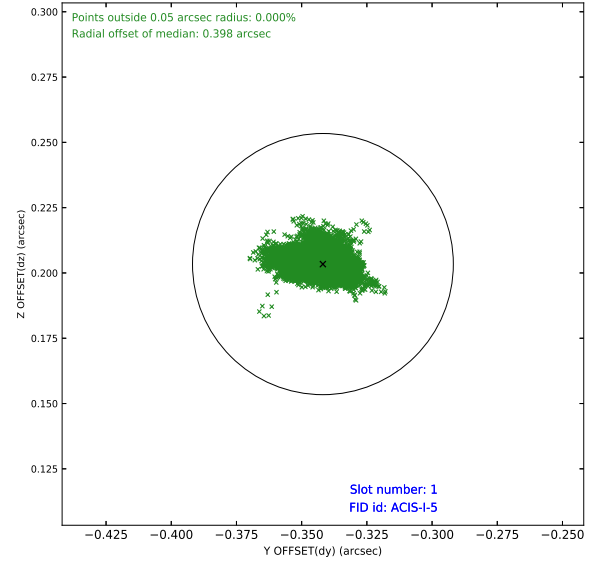
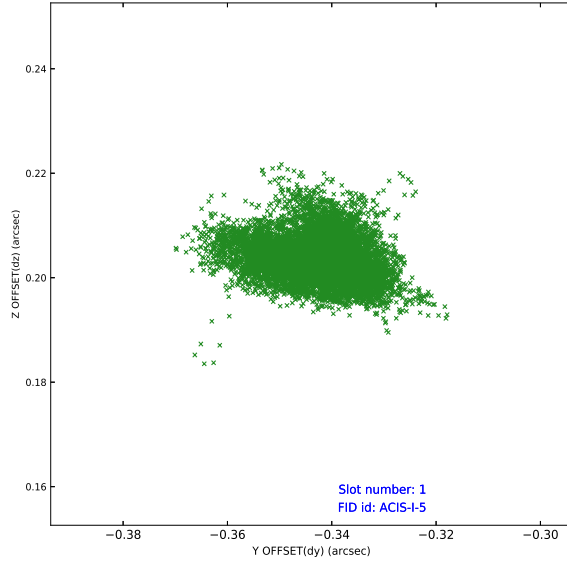


2.5 FID Slots

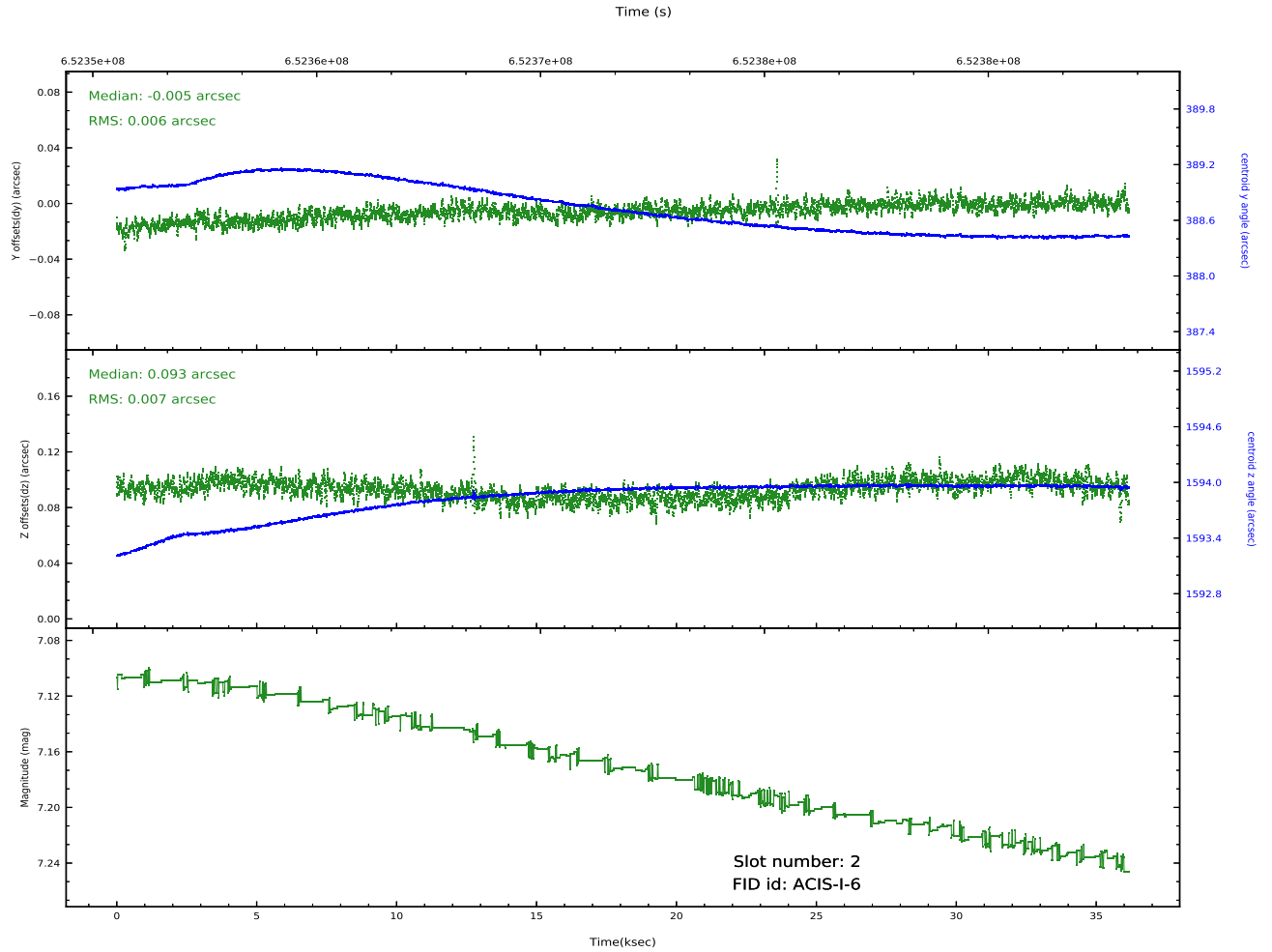
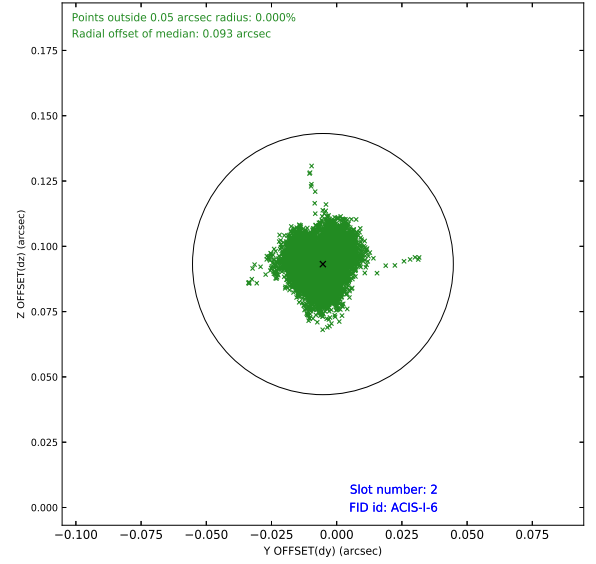
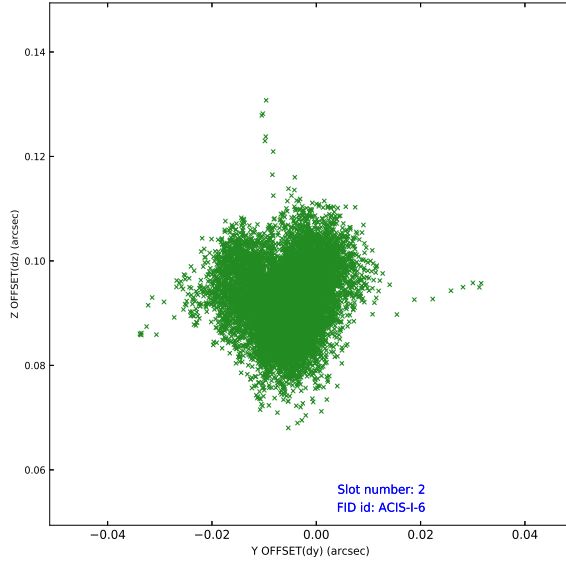
2.5.1 Slot 0



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)	2020.10.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	36.077800277591

A.2 Comments

Optional chip S2 not included.