

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20460 - L2 Version 2
Chandra X-Ray Center

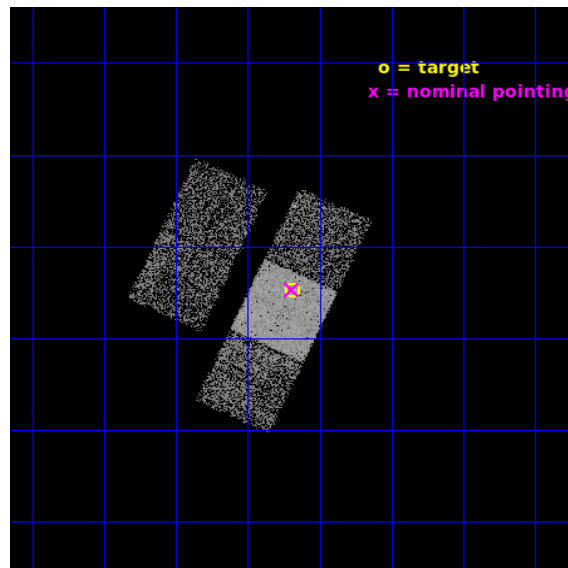
L2 Processing Date : Oct 25 2020

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1 Front

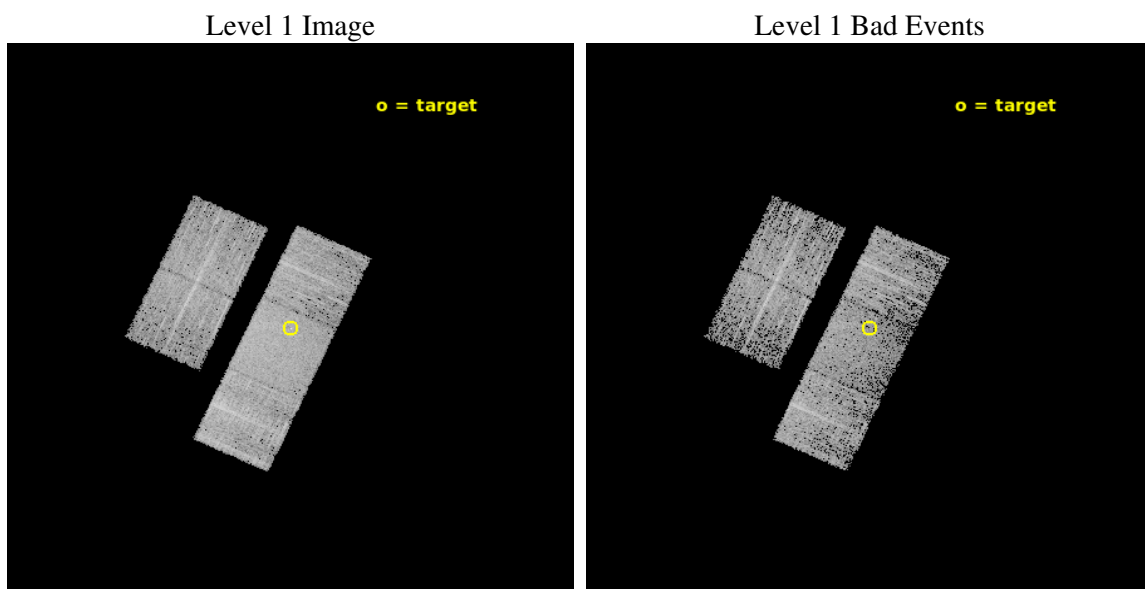
seq_num	703563	Sequence number
obs_id	20460	Observation id
title	Understanding AGN Accretion State Transitions with a Statistical Sample of Changing-Look Quasars	Proposal title
observer	John Ruan	Principal investigator
object	SDSS J002311.06+003517.5	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	5.79625	Observer's specified target RA [deg]
dec_targ	0.588194	Observer's specified target Dec [deg]
ra_nom	5.7981886269647	Nominal RA [deg]
dec_nom	0.58852401179538	Nominal Dec [deg]
roll_nom	114.92330010134	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4060.5608154535	Sum of GTIs [s]
livetime	4007.5065990582	Livetime [s]
ontime2	4060.3966554403	Sum of GTIs [s]
ontime3	4060.4787354469	Sum of GTIs [s]
ontime6	4060.5197755098	Sum of GTIs [s]
ontime7	4060.5608154535	Sum of GTIs [s]
ontime8	4060.4376955032	Sum of GTIs [s]
l2events	29312	Number of level 2 events



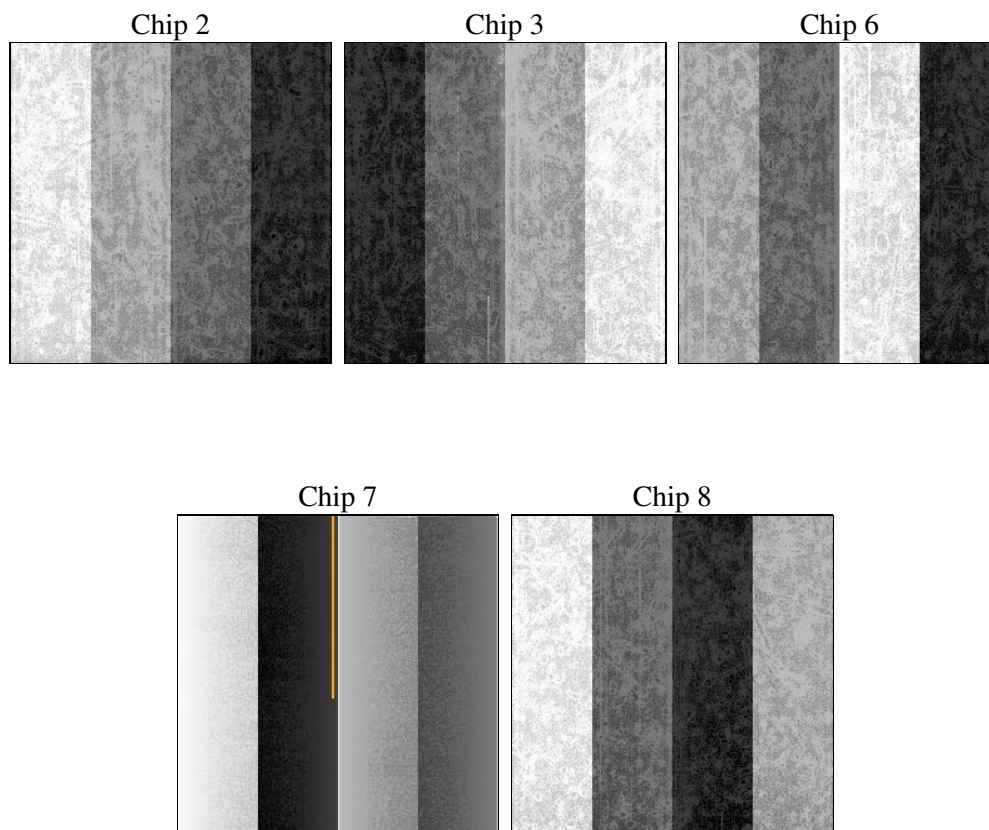
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	4060.5608154535	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	4060.3966554403	Sum of GTIs [s]
date	2020-10-25T23:03:57	Date and time of file creation	ontime3	4060.4787354469	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	4060.5197755098	Sum of GTIs [s]
			ontime7	4060.5608154535	Sum of GTIs [s]
			ontime8	4060.4376955032	Sum of GTIs [s]
			l1events	167246	Number of level 1 events

2.1.4 Events

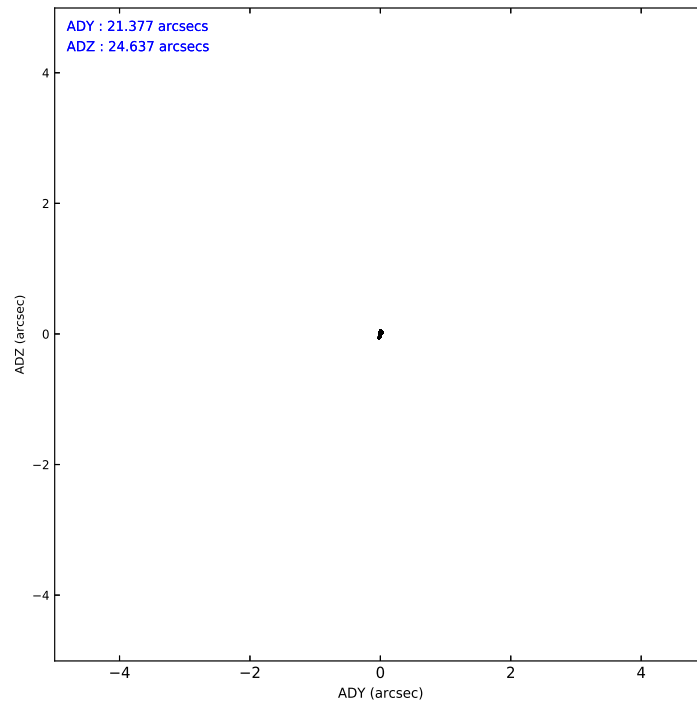
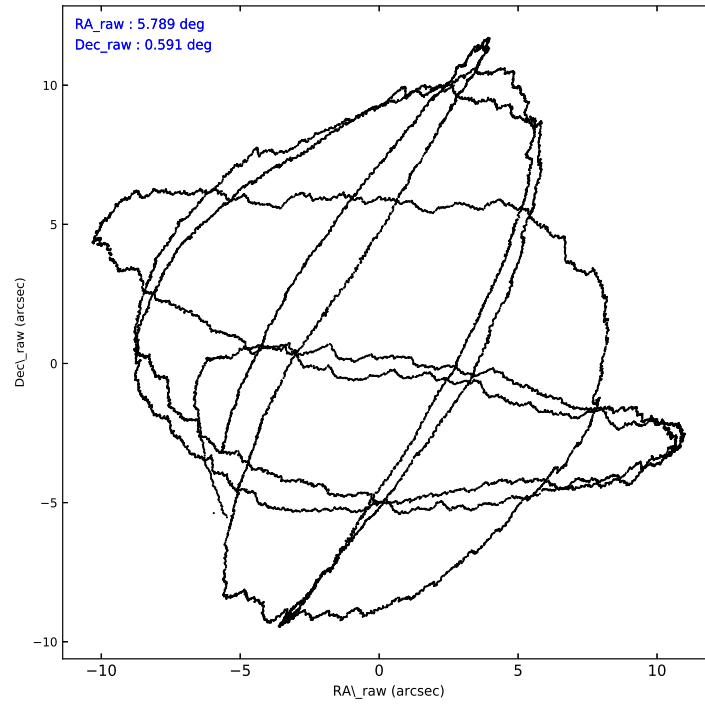
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	29475	27526	30233	39212	40800
rejected events	26132	24294	26672	21882	29289
rejected %	88%	88%	88%	55%	71%

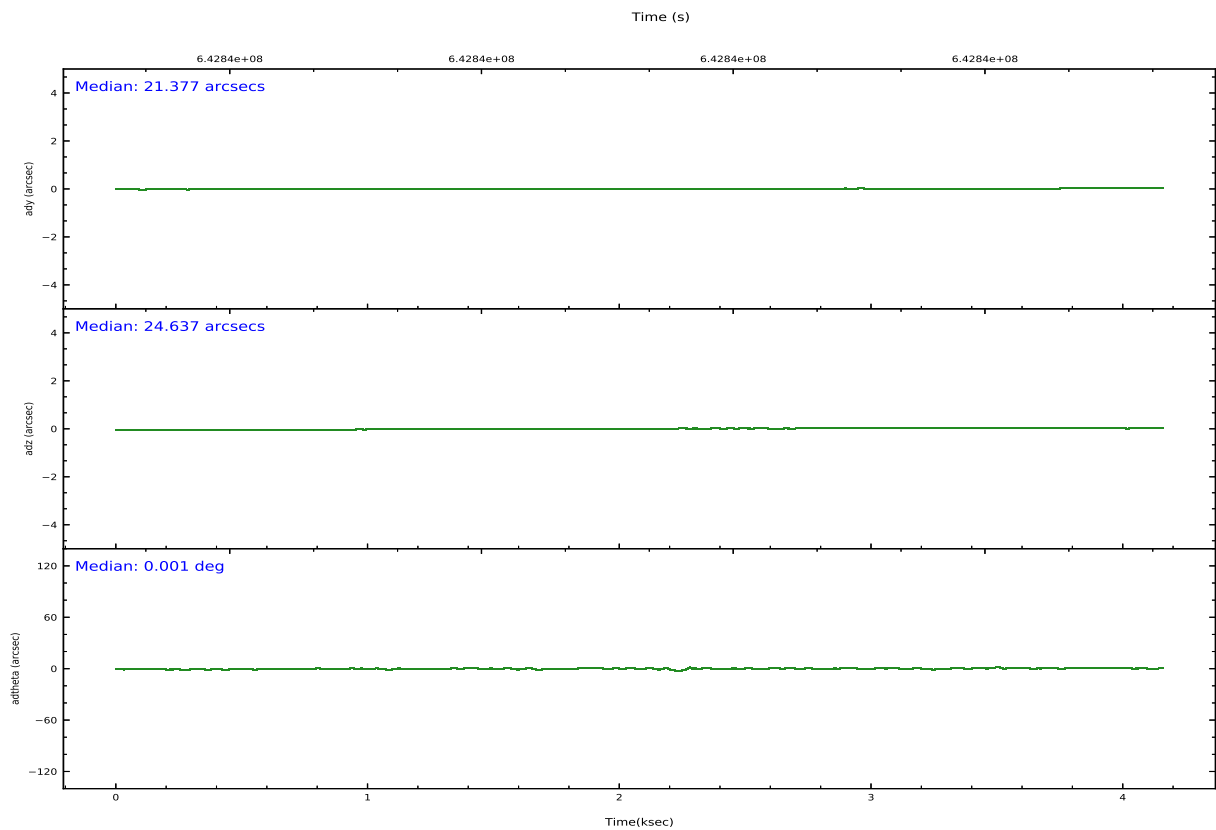
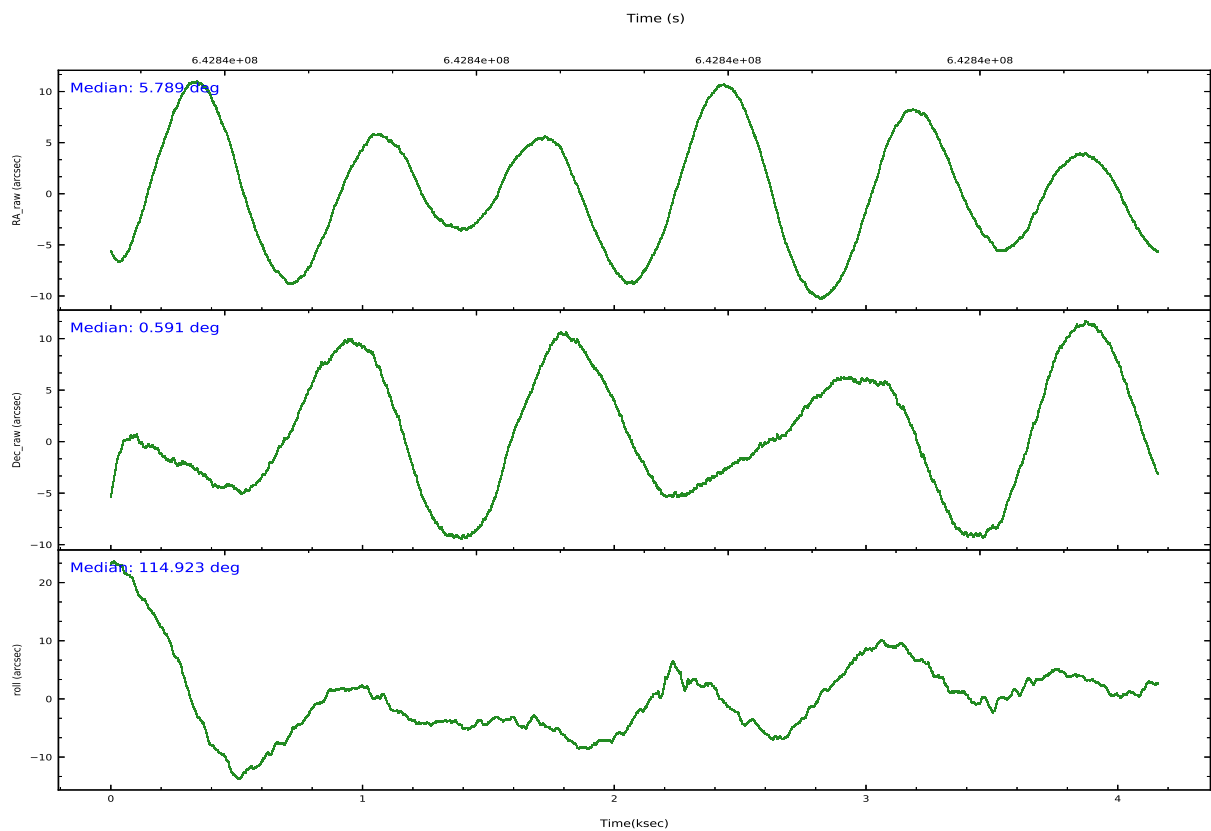
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	1132	1214	1245	1569	3376
	3%	4%	4%	4%	8%
grade 1 events	10	14	22	45	39
	0%	0%	0%	0%	0%
grade 2 events	860	679	827	3764	2785
	2%	2%	2%	9%	6%
grade 3 events	339	334	329	1407	1170
	1%	1%	1%	3%	2%
grade 4 events	331	338	346	1402	1052
	1%	1%	1%	3%	2%
grade 5 events	1206	1475	1453	3985	2219
	4%	5%	4%	10%	5%
grade 6 events	687	668	816	9198	3144
	2%	2%	2%	23%	7%
grade 7 events	24910	22804	25195	17842	27015
	84%	82%	83%	45%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	5.811792	5.7981886269647	CCD I2 on	O1	Y
[deg] Pointing Dec	0.575609	0.5885240117953801	CCD I3 on	O2	Y
[deg] Pointing Roll	114.773987	114.92330010134	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	642840708.184000	642839621.9536	CCD S5 on	N	N
Observation start date	2018-05-16T06:50:39	2018-05-16T06:33:41	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	642844708.184000	642845754.01647	On-chip summing requested	N	N
Observation end date	2018-05-16T07:57:19	2018-05-16T08:15:54	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



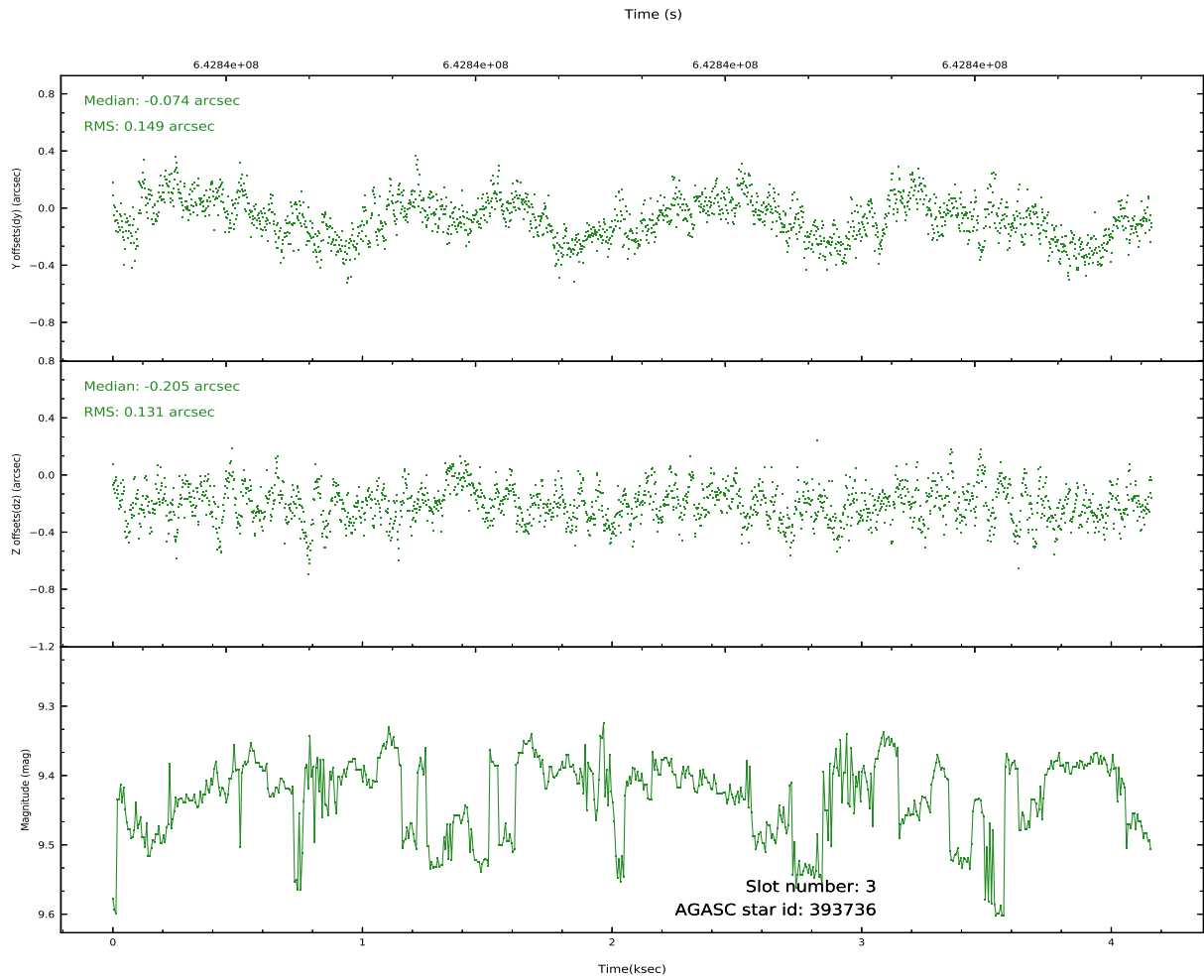
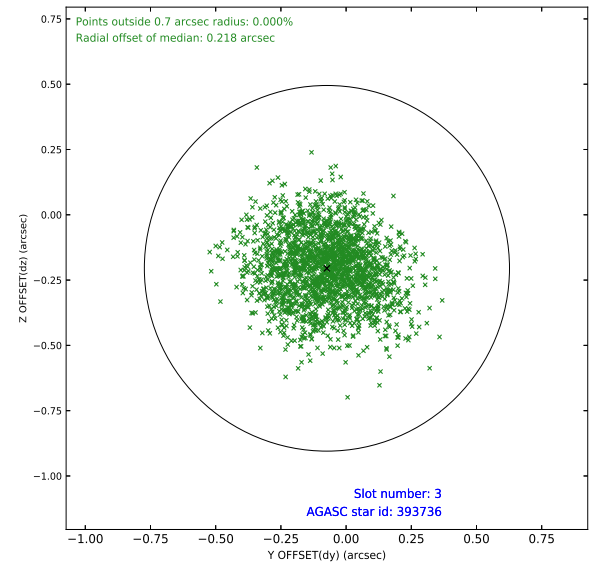
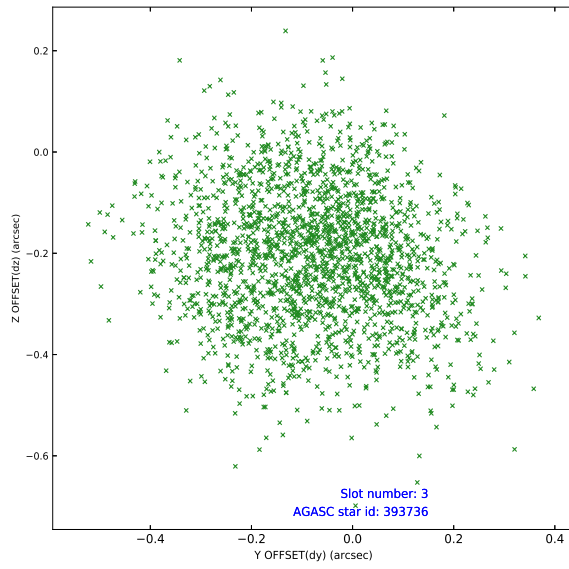


Slot Statistics

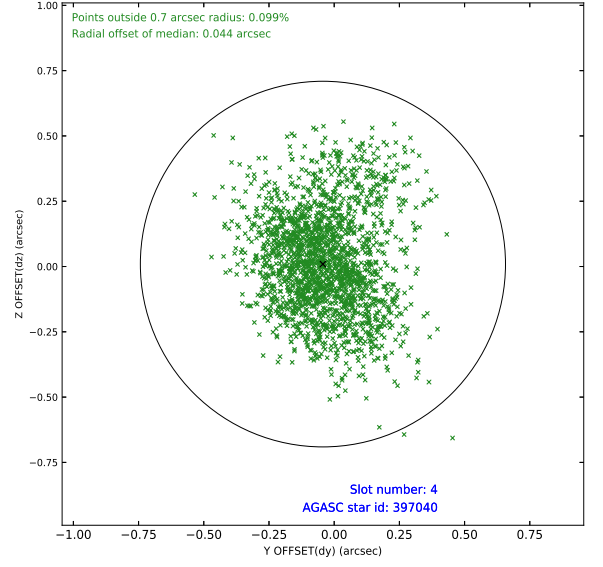
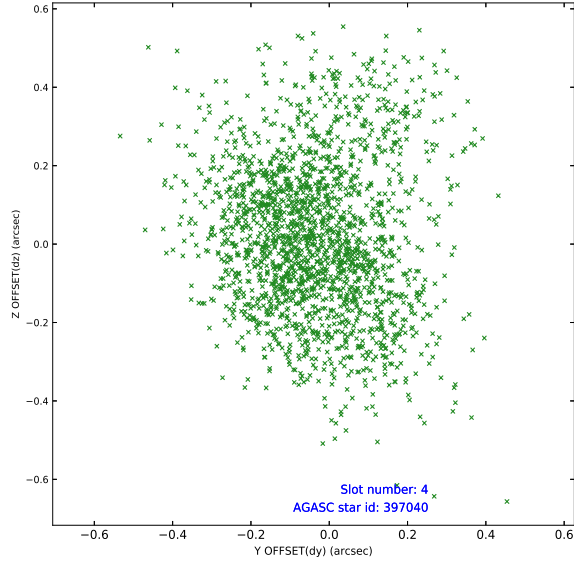
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.97	1015	1.000	0.065	0.055	0.005	0.009	0.000000	0.000000	-774.61	-1746
1	FID		ACIS-S-4	7.06	1015	1.000	0.018	-0.076	0.007	0.014	0.000000	0.000000	2138.09	160
2	FID		ACIS-S-6	7.22	1015	1.000	-0.111	0.029	0.007	0.013	0.000000	0.000000	389.32	799
3	GUIDE	used	393736	9.42	2027	1.000	-0.074	-0.205	0.213	0.337	5.451317	0.917193	1659.97	663
4	GUIDE	used	397040	9.73	2026	1.000	-0.043	0.009	0.257	0.433	5.943865	1.221961	1914.71	-1405
5	GUIDE	used	400168	8.52	2030	1.000	0.112	-0.031	0.201	0.314	5.954771	0.121905	-1697.47	216
6	GUIDE	used	402160	8.35	2028	1.000	0.152	0.408	0.136	0.237	6.512670	0.437560	-1509.05	-2078
7	GUIDE	used	611454728	7.52	2030	1.000	-0.148	-0.196	0.174	0.282	5.463672	-0.004442	-1371.94	2011

2.4 Star Slots

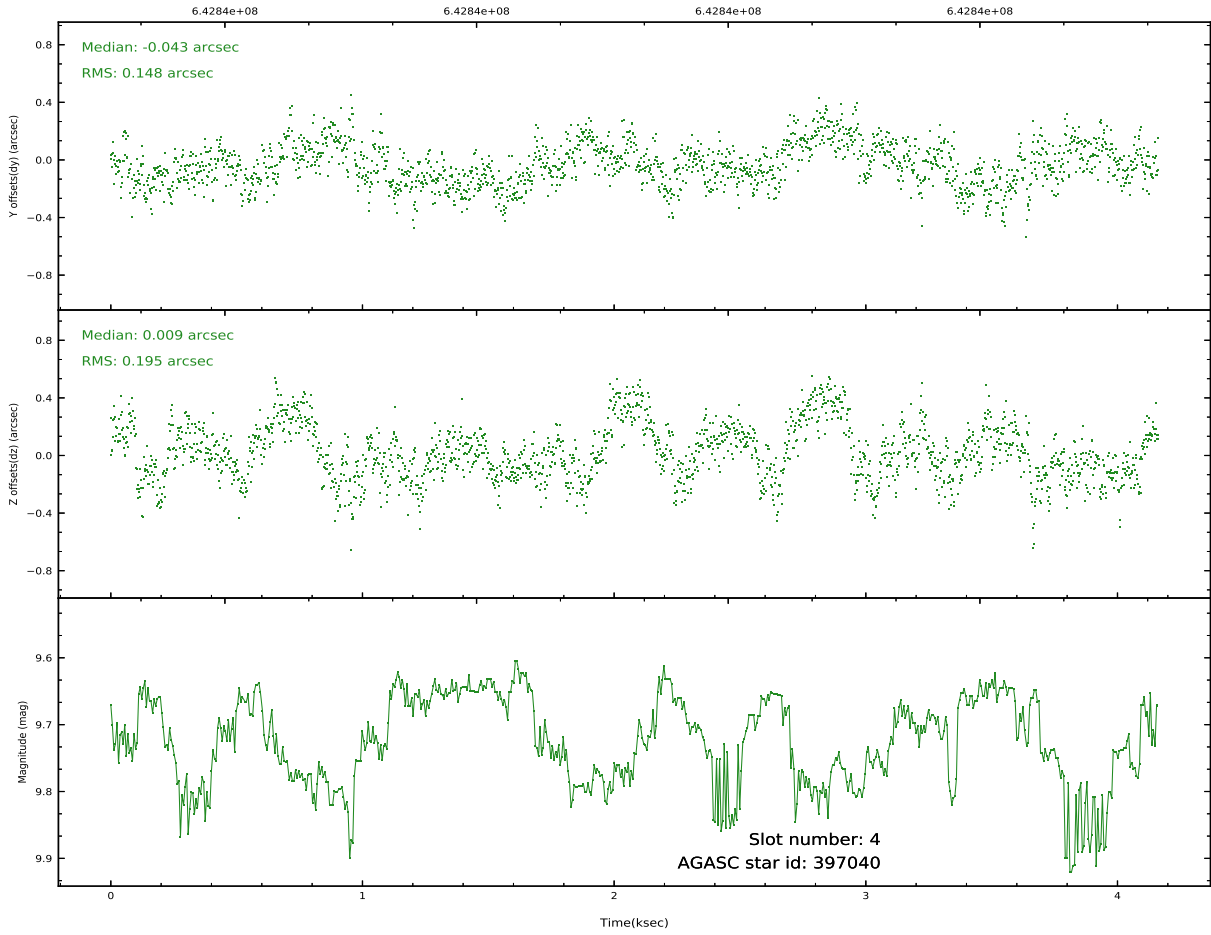
2.4.1 Slot 3



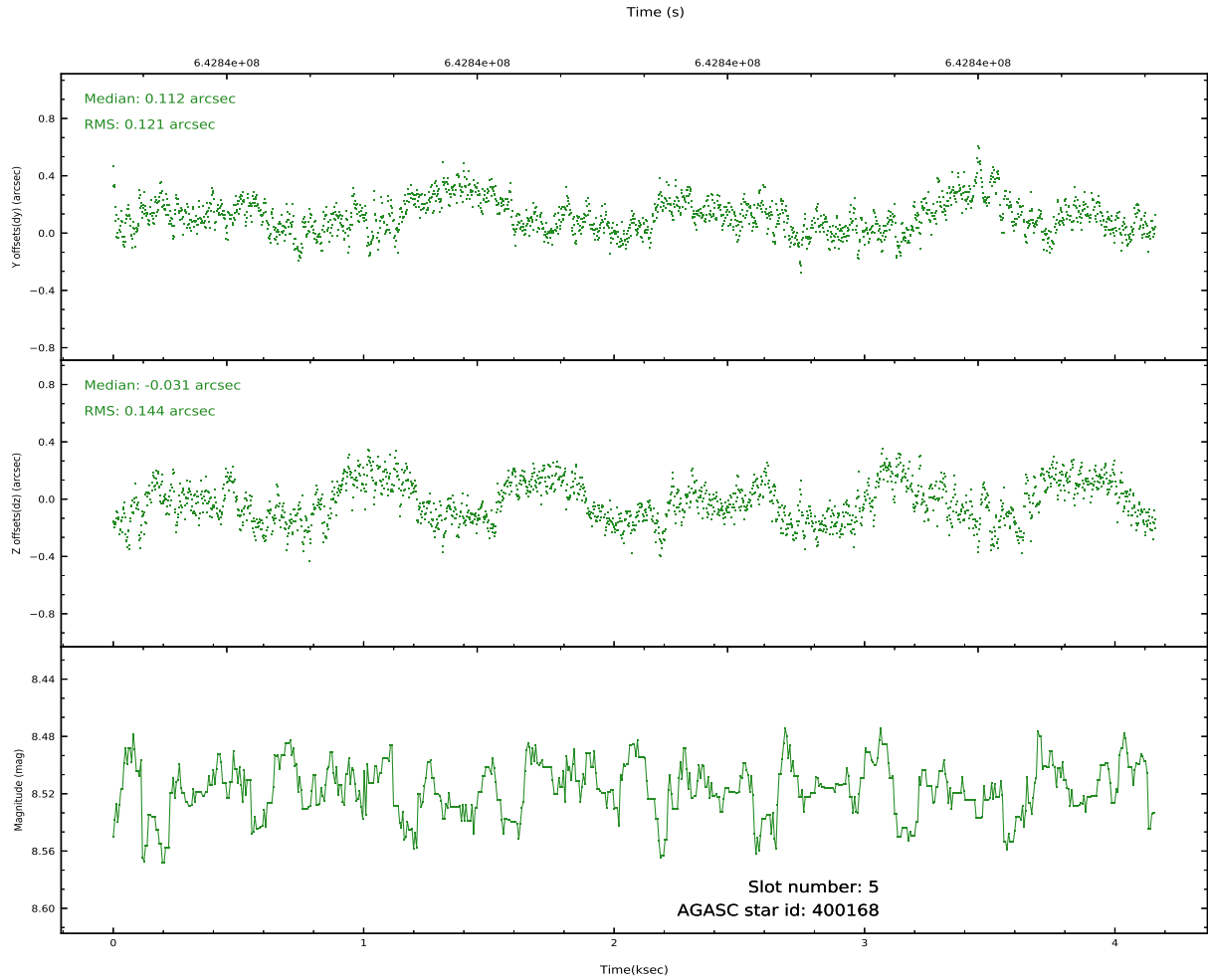
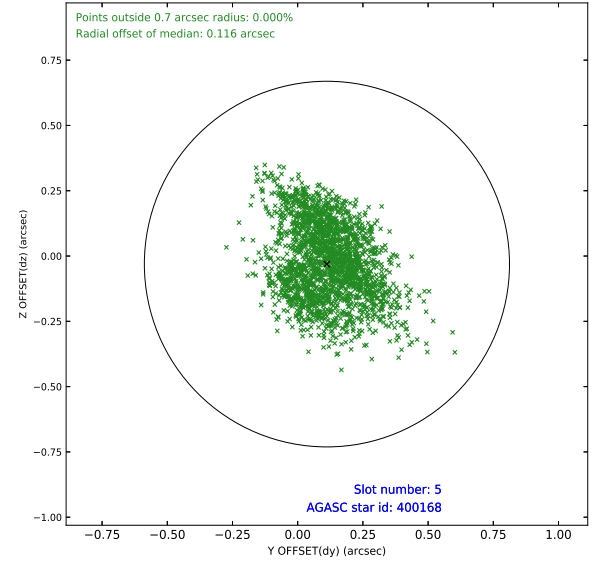
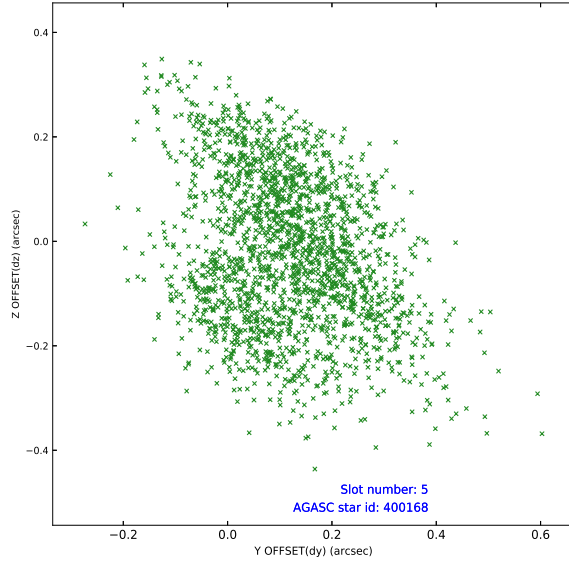
2.4.2 Slot 4



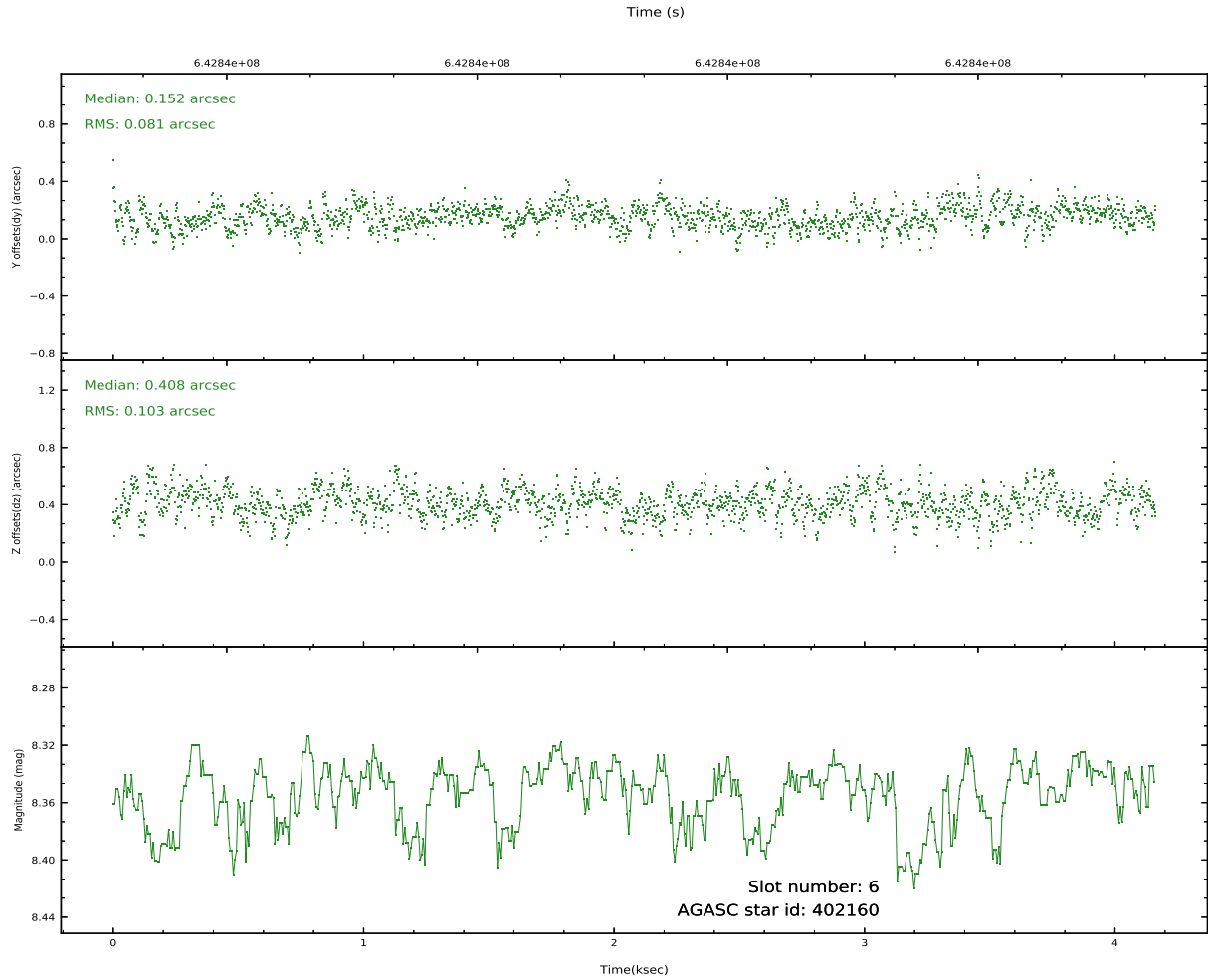
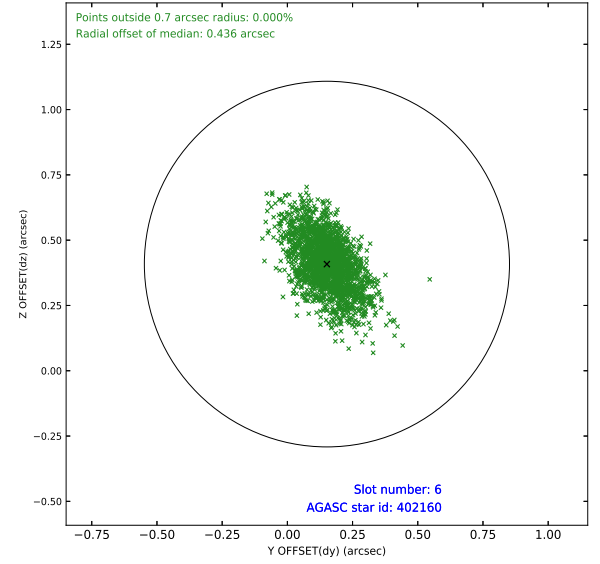
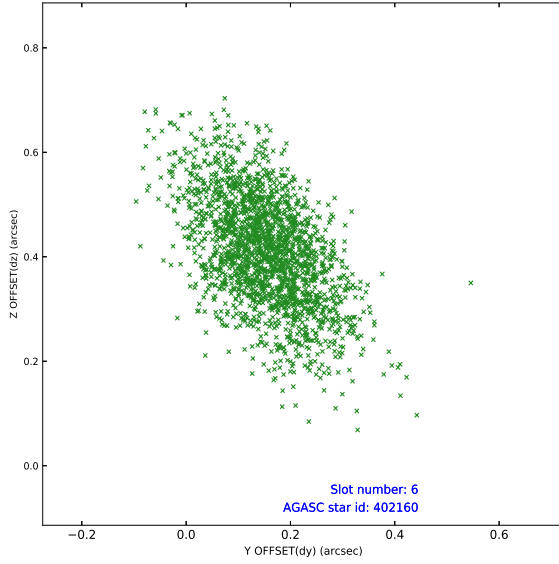
Time (s)



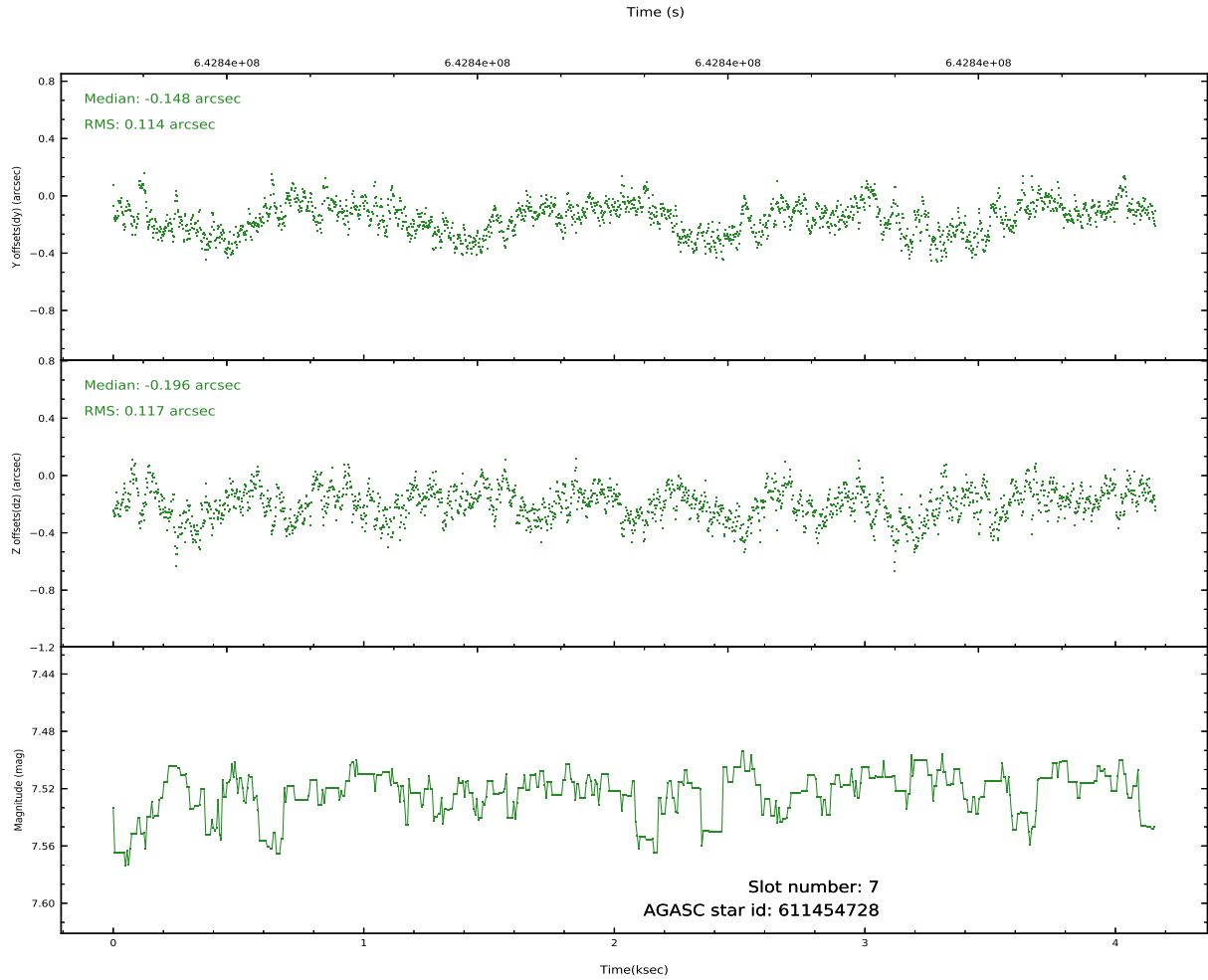
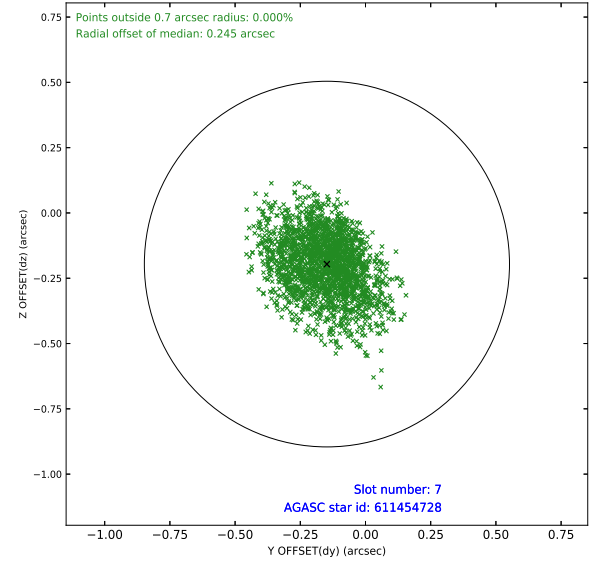
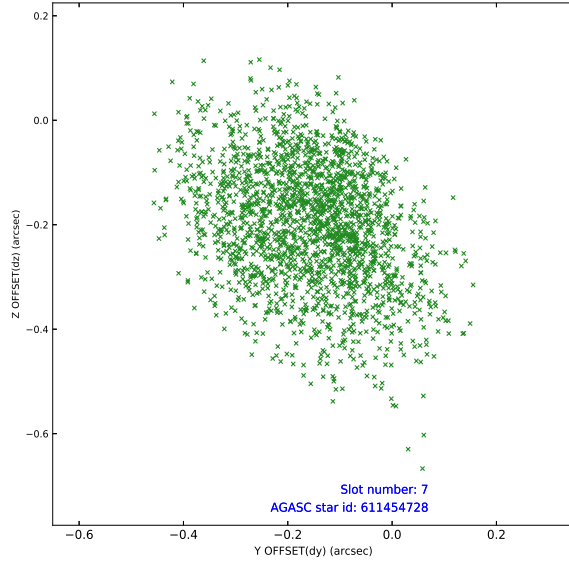
2.4.3 Slot 5



2.4.4 Slot 6

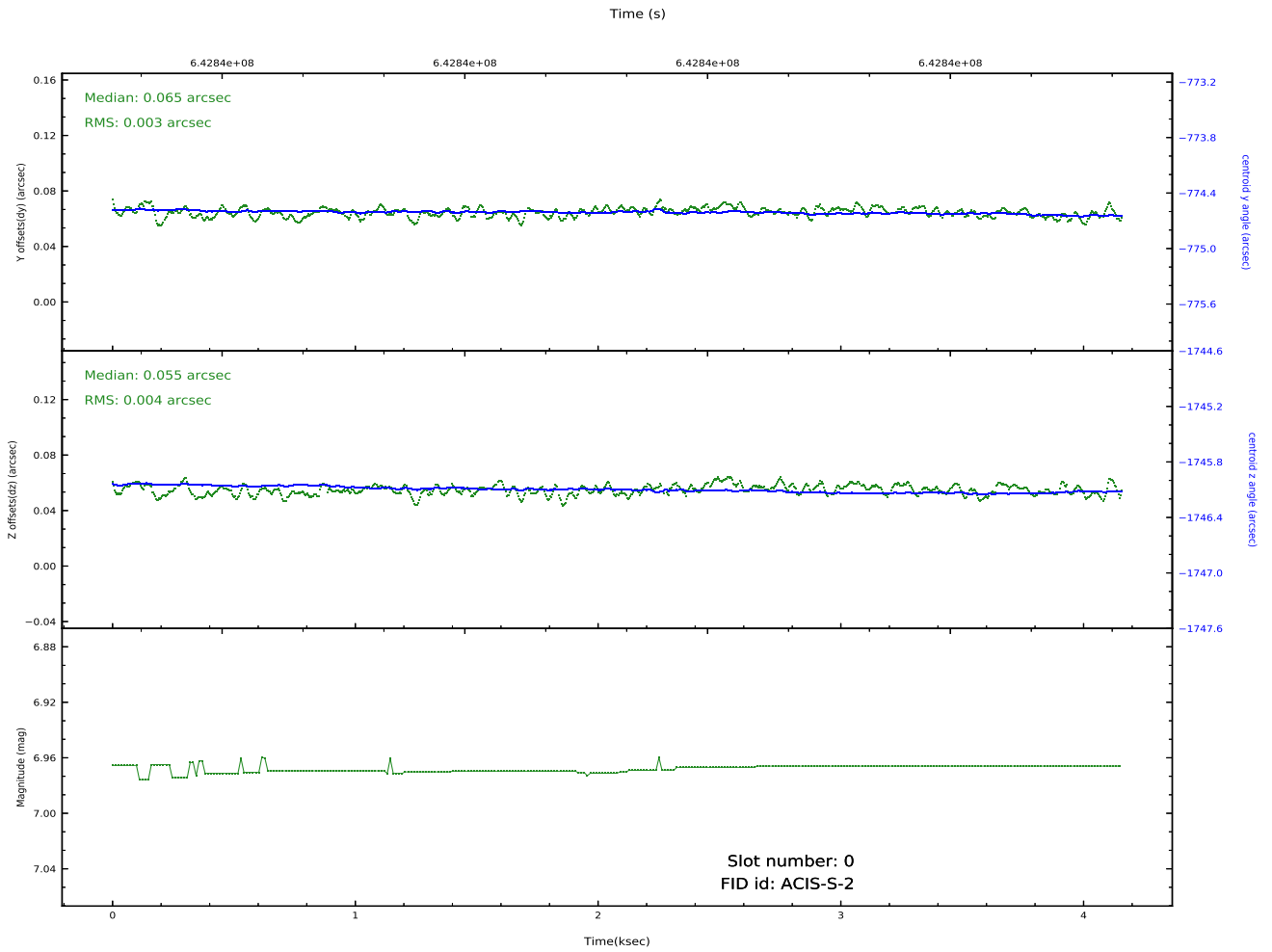
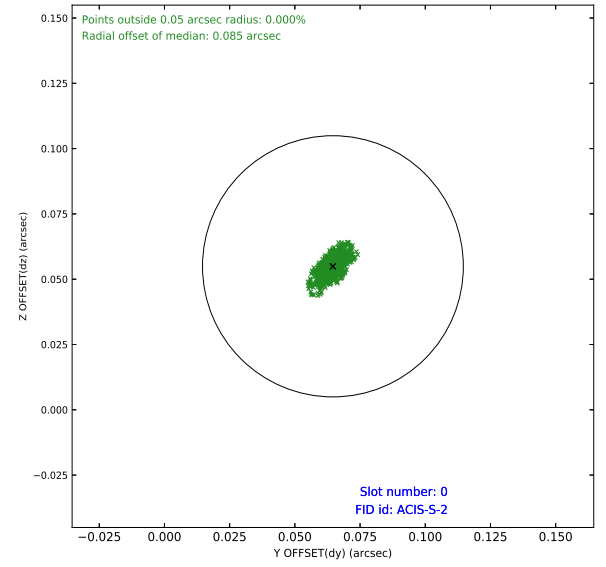
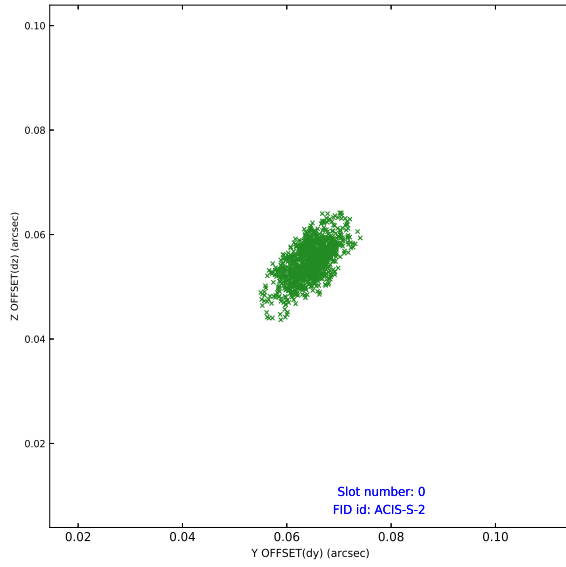


2.4.5 Slot 7

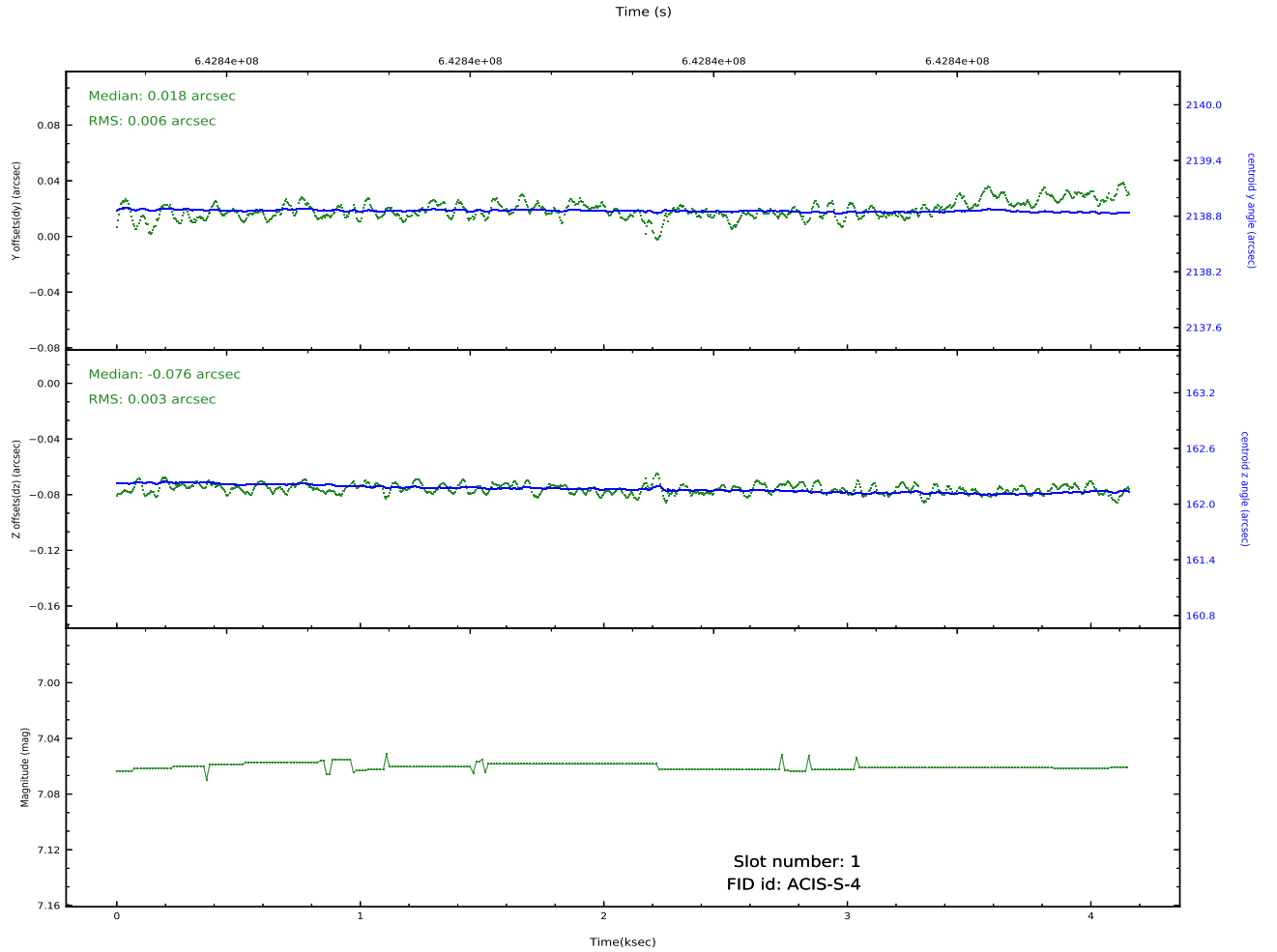
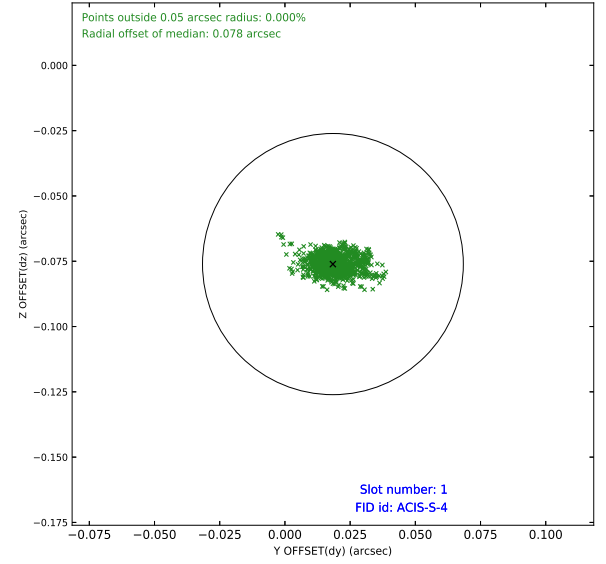
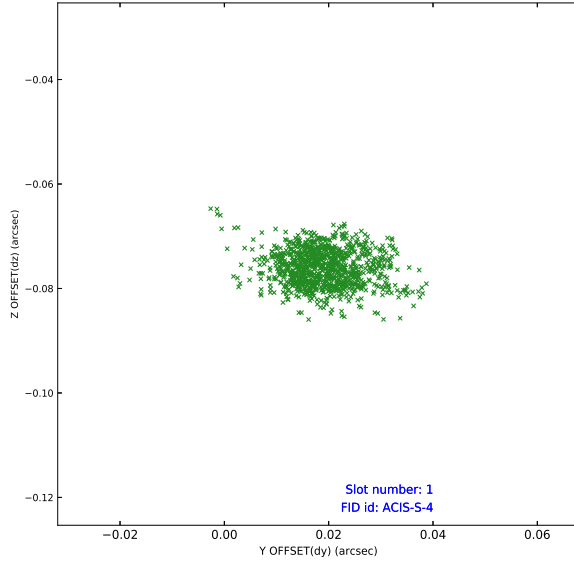


2.5 FID Slots

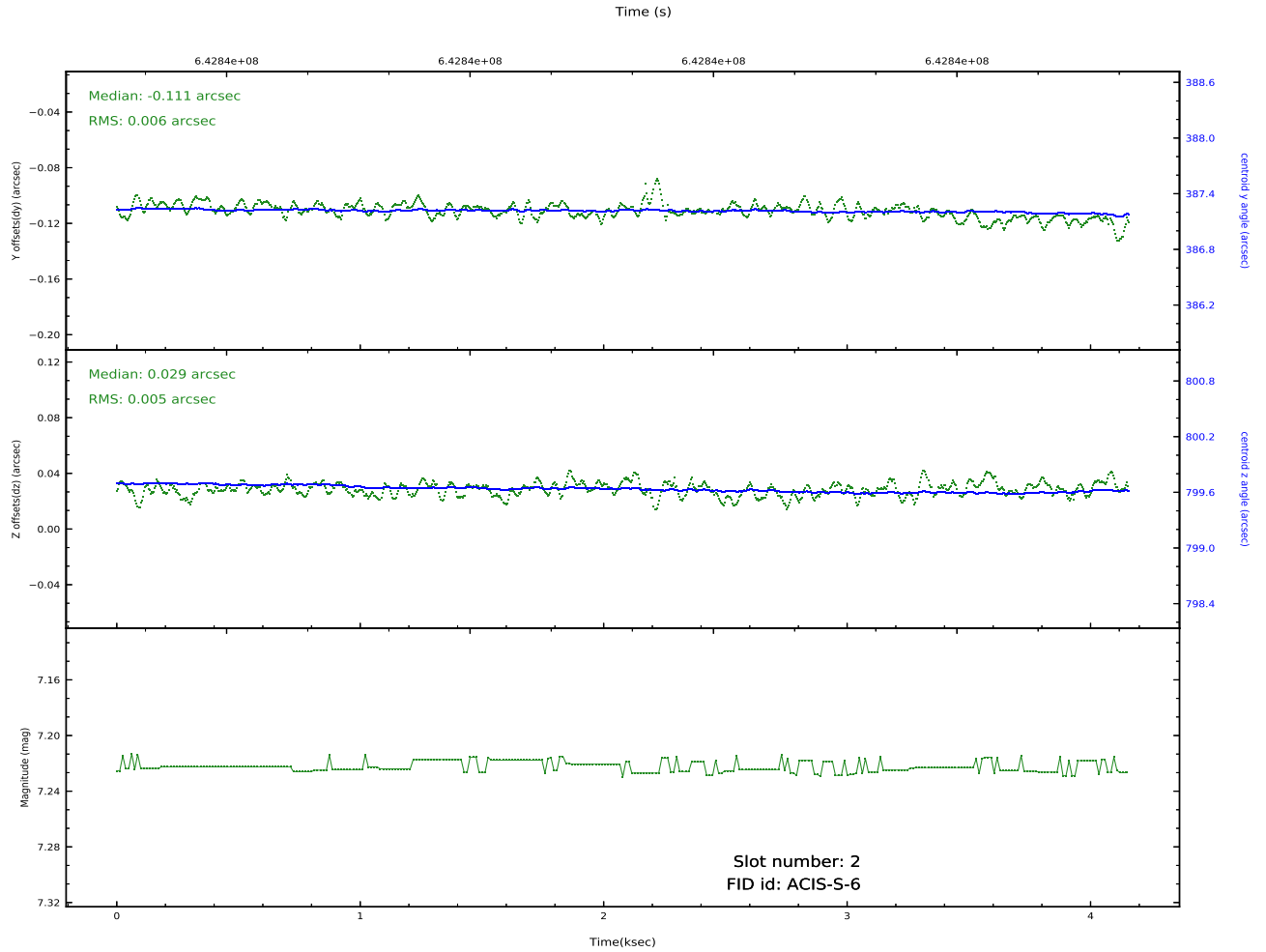
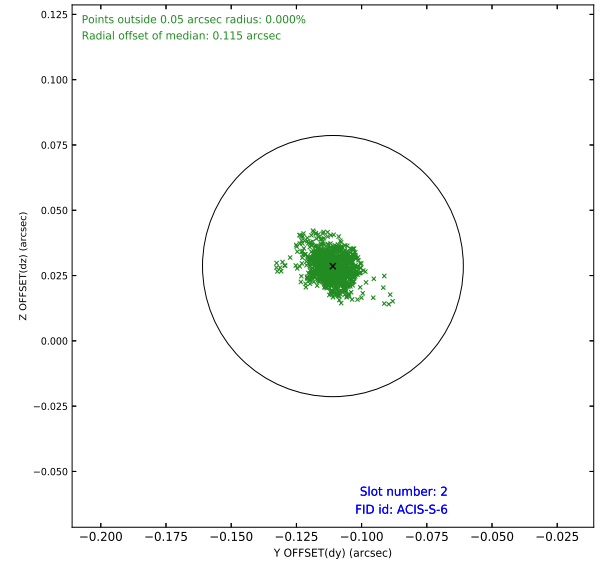
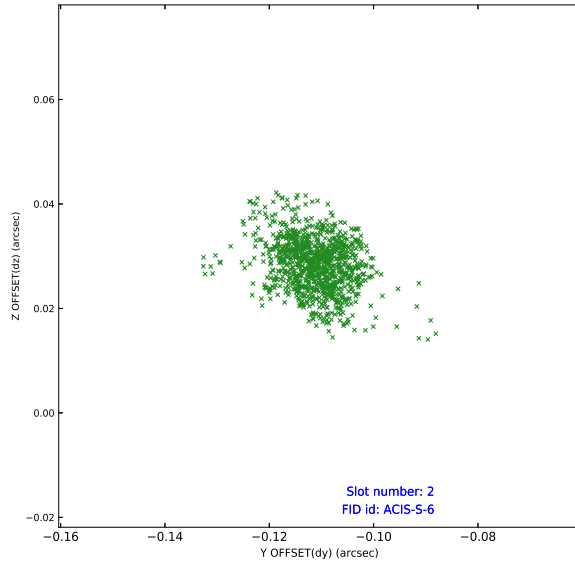
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.0605608195066

A.2 Comments