

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4531 - L2 Version 4
Chandra X-Ray Center

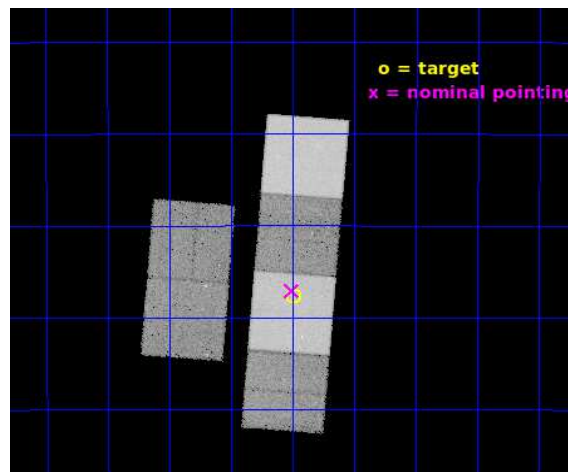
L2 Processing Date : Sep 25 2020

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1 Front

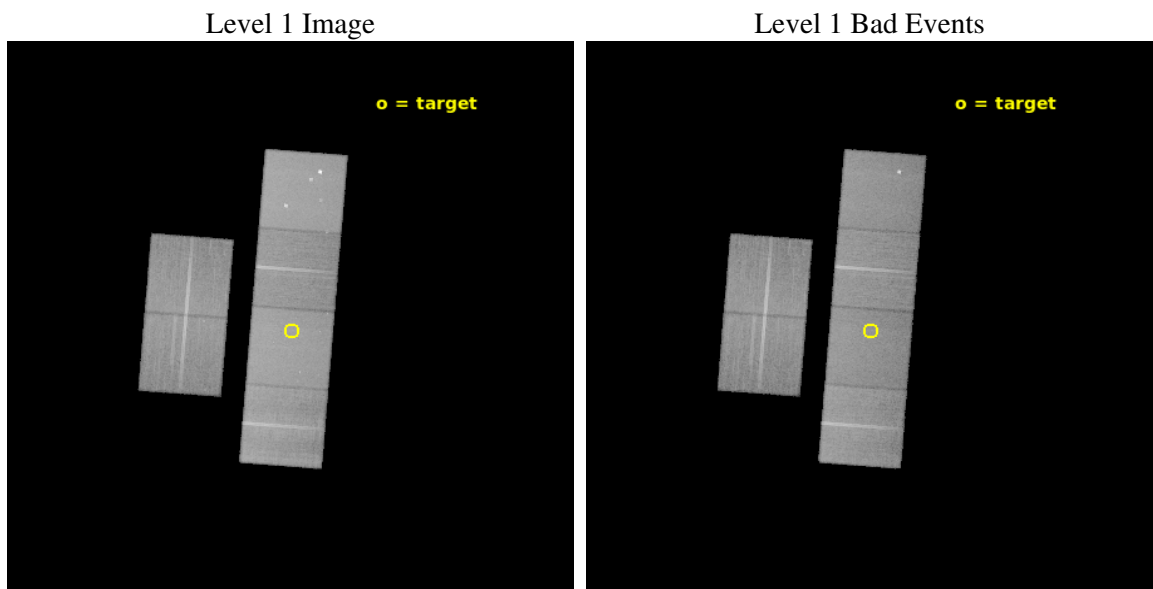
seq_num	300125	Sequence number
obs_id	4531	Observation id
title	A Uniform Study of Globular Cluster X-ray Sources: The Keys to Cluster Dynamical Evolution	Proposal title
observer	Prof. Walter Lewin	Principal investigator
object	NGC 6809	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	294.9975	Observer's specified target RA [deg]
dec_targ	-30.962222	Observer's specified target Dec [deg]
ra_nom	295.00156793889	Nominal RA [deg]
dec_nom	-30.951530161252	Nominal Dec [deg]
roll_nom	94.545040509727	Nominal Roll [deg]
revision	4	Processing version of data
ontime	34156.493075758	Sum of GTIs [s]
livetime	33723.982993862	Livetime [s]
ontime2	34156.534115762	Sum of GTIs [s]
ontime3	34156.369955748	Sum of GTIs [s]
ontime5	34156.452035755	Sum of GTIs [s]
ontime6	34156.410995752	Sum of GTIs [s]
ontime7	34156.493075758	Sum of GTIs [s]
ontime8	34153.087825924	Sum of GTIs [s]
l2events	393890	Number of level 2 events



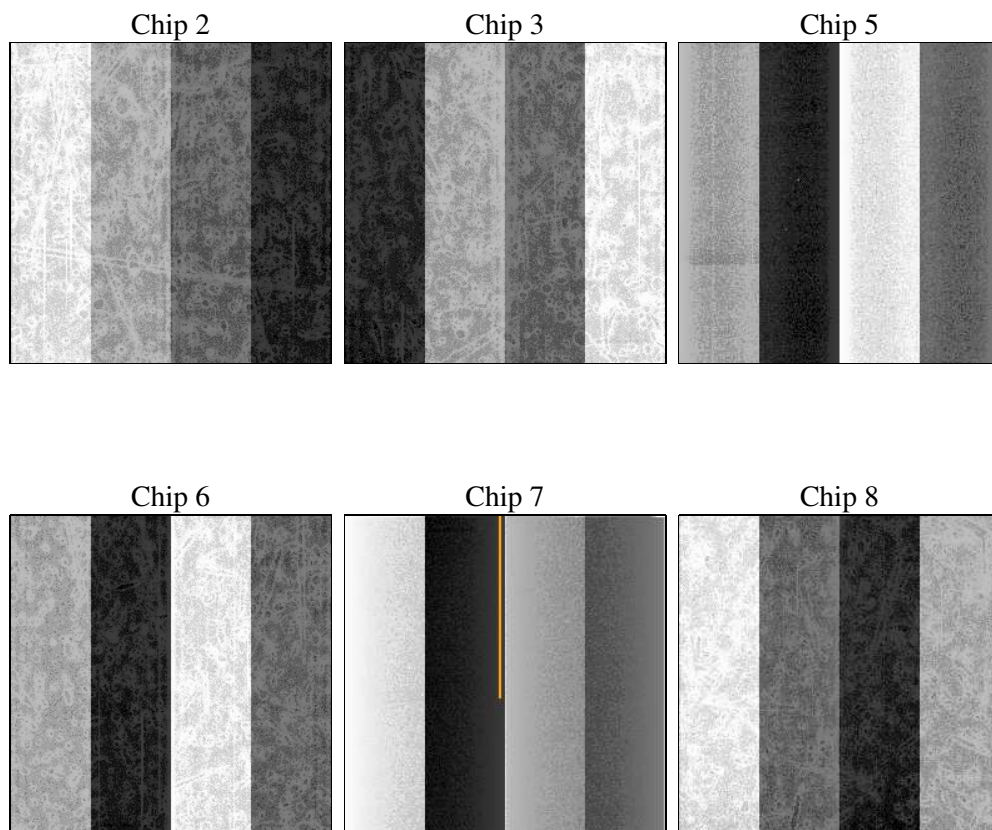
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	34400.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	34156.493075758	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	34156.534115762	Sum of GTIs [s]
date	2020-09-25T19:43:42	Date and time of file creation	ontime3	34156.369955748	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	34156.452035755	Sum of GTIs [s]
			ontime6	34156.410995752	Sum of GTIs [s]
			ontime7	34156.493075758	Sum of GTIs [s]
			ontime8	34153.087825924	Sum of GTIs [s]
			l1events	1738644	Number of level 1 events

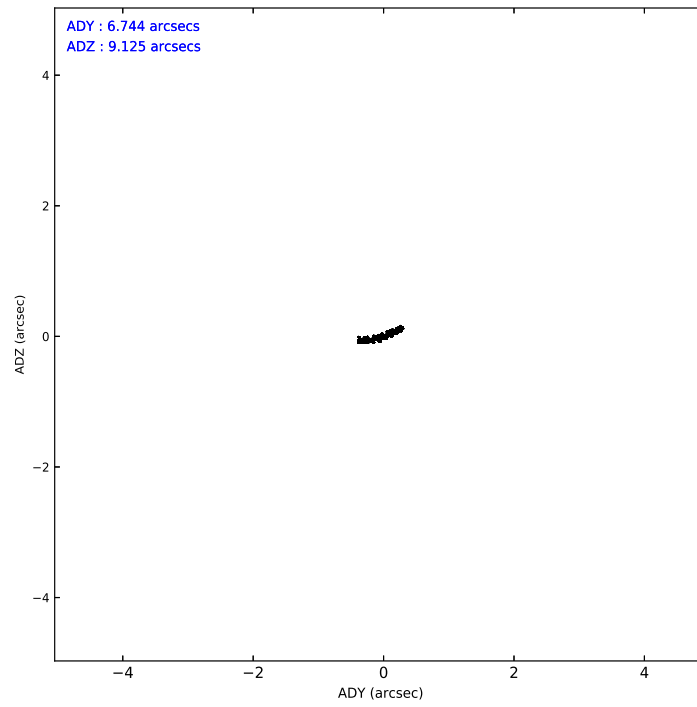
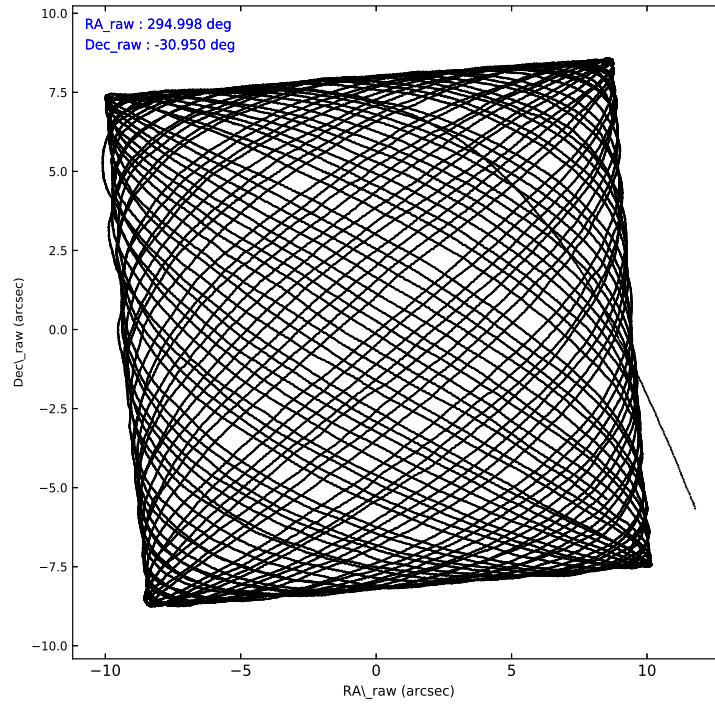
2.1.4 Events

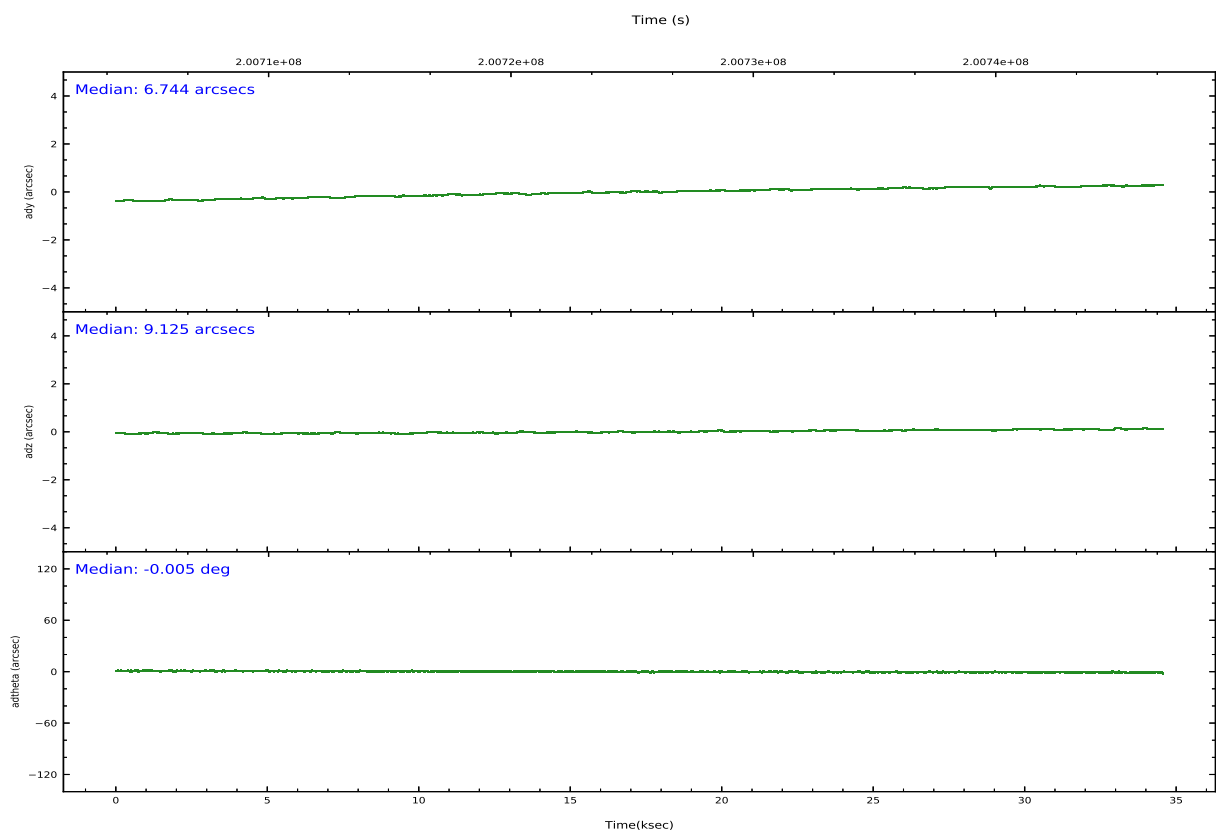
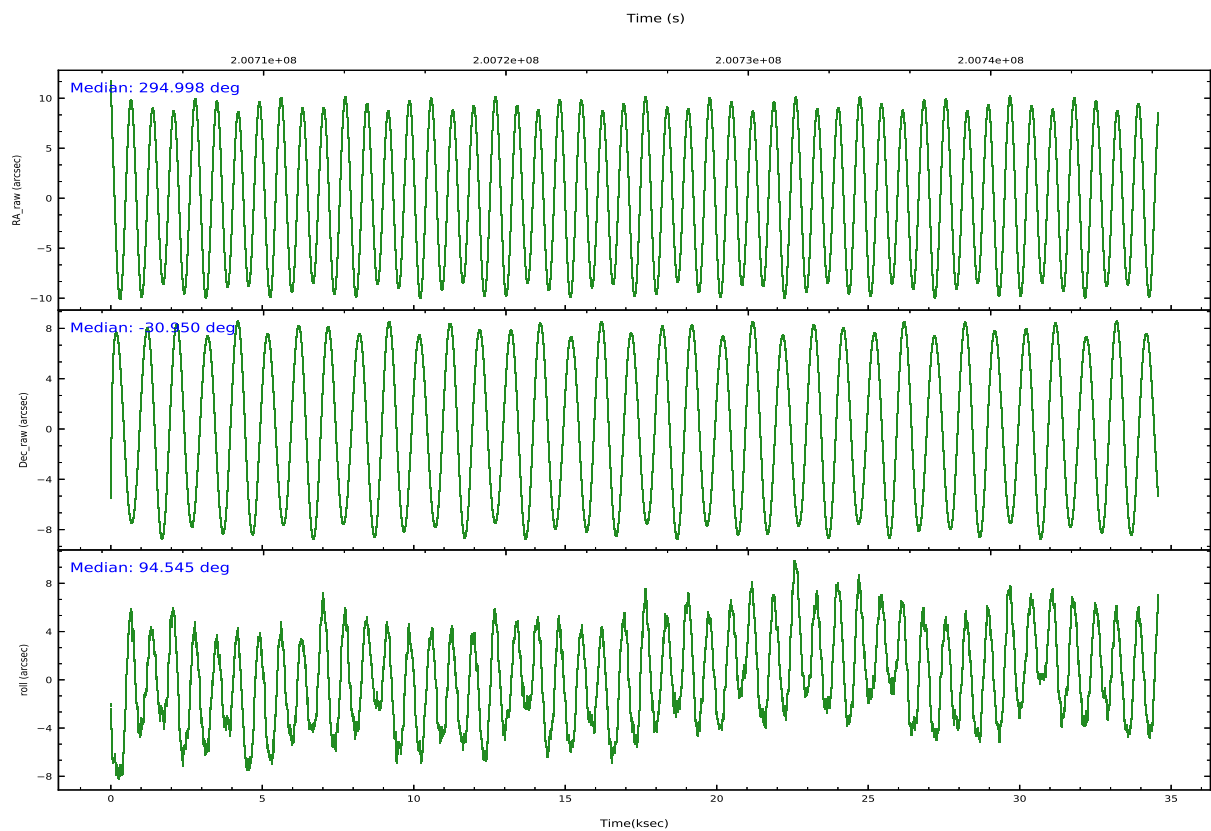
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	246954	233317	371520	246583	331400	308870	grade 0 events	12811	12925	19619	12287	13184	20672
rejected events	217929	204476	199937	216893	193007	243972		5%	5%	5%	4%	3%	6%
rejected %	88%	87%	53%	87%	58%	78%	grade 1 events	169	148	3674	134	301	208
								0%	0%	0%	0%	0%	0%
							grade 2 events	6083	5357	52172	6069	27573	14358
								2%	2%	14%	2%	8%	4%
							grade 3 events	2761	2792	6592	2769	12289	6639
								1%	1%	1%	1%	3%	2%
							grade 4 events	2720	2796	6634	2758	12374	6420
								1%	1%	1%	1%	3%	2%
							grade 5 events	9561	10634	27028	11386	31732	14445
								3%	4%	7%	4%	9%	4%
							grade 6 events	4656	4975	86581	5808	72983	16812
								1%	2%	23%	2%	22%	5%
							grade 7 events	208193	193690	169220	205372	160964	229316
								84%	83%	45%	83%	48%	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	295.016697	295.00156793889	Subarray requested	NONE	NONE
[deg] Pointing Dec	-30.971994	-30.951530161252	Alternating exposures requested	N	N
[deg] Pointing Roll	94.396298	94.545040509727	[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)	200707126.184000	200706228.32287			
Observation start date	2004-05-11T23:57:42	2004-05-11T23:43:48			
[s] Observation end time (MET)	200741526.184000	200742098.19946			
Observation end date	2004-05-12T09:31:02	2004-05-12T09:41:38			
Read mode	TIMED	TIMED			

2.3 Aspect



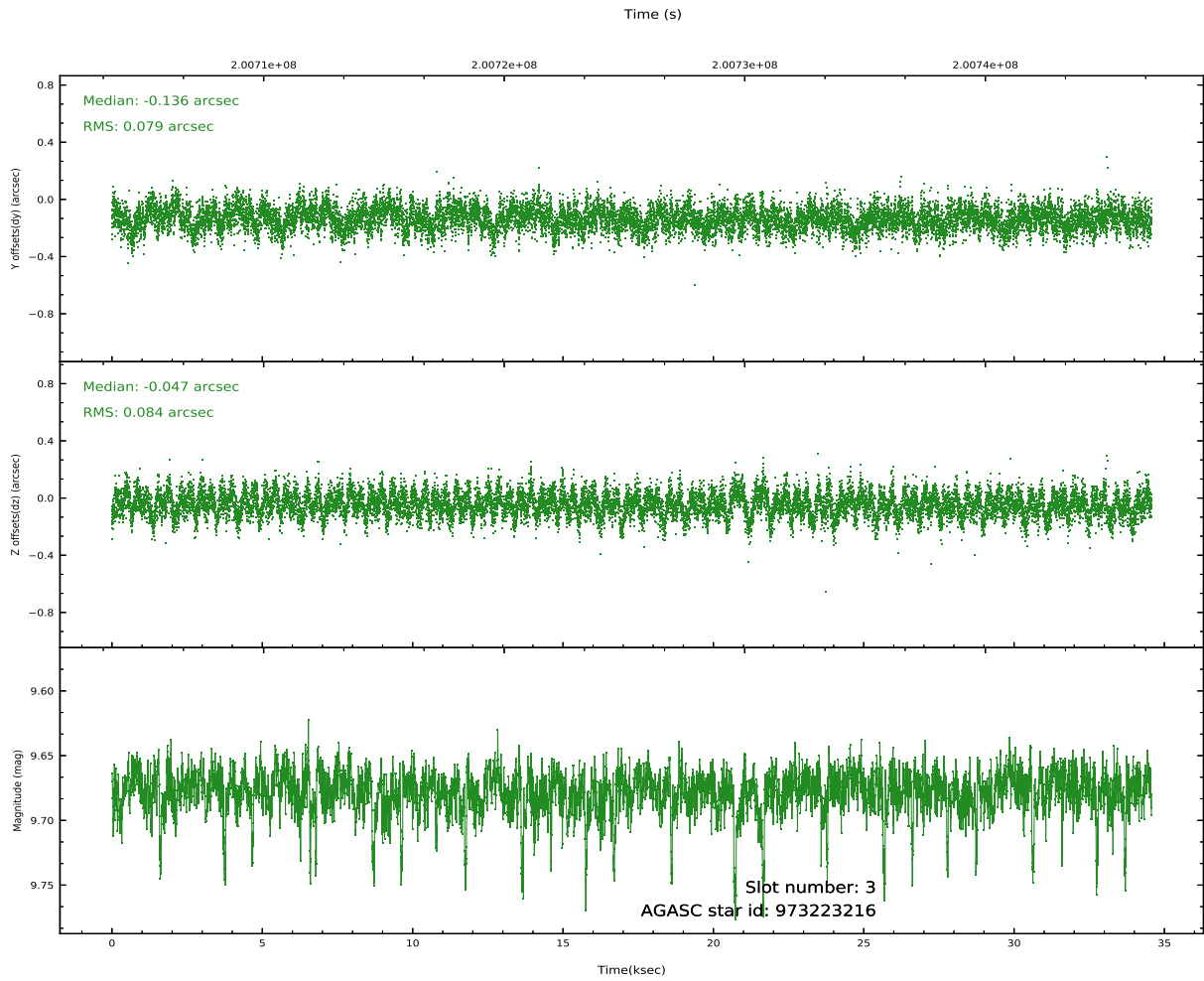
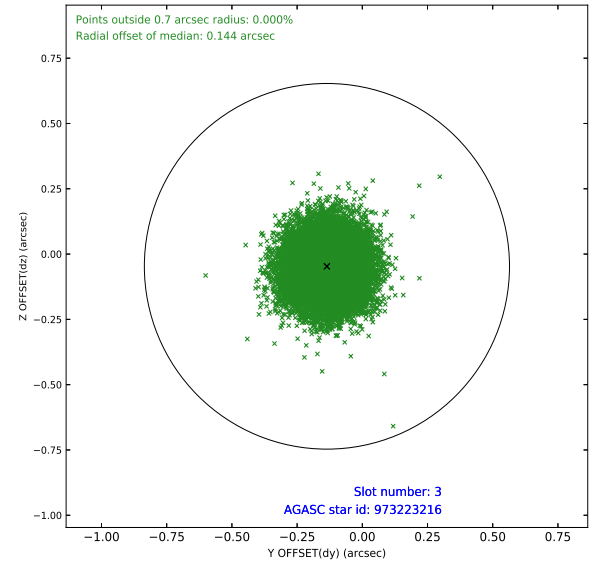
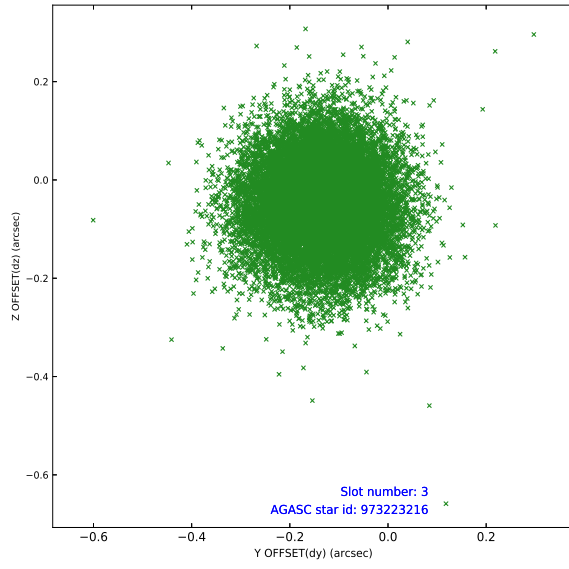


Slot Statistics

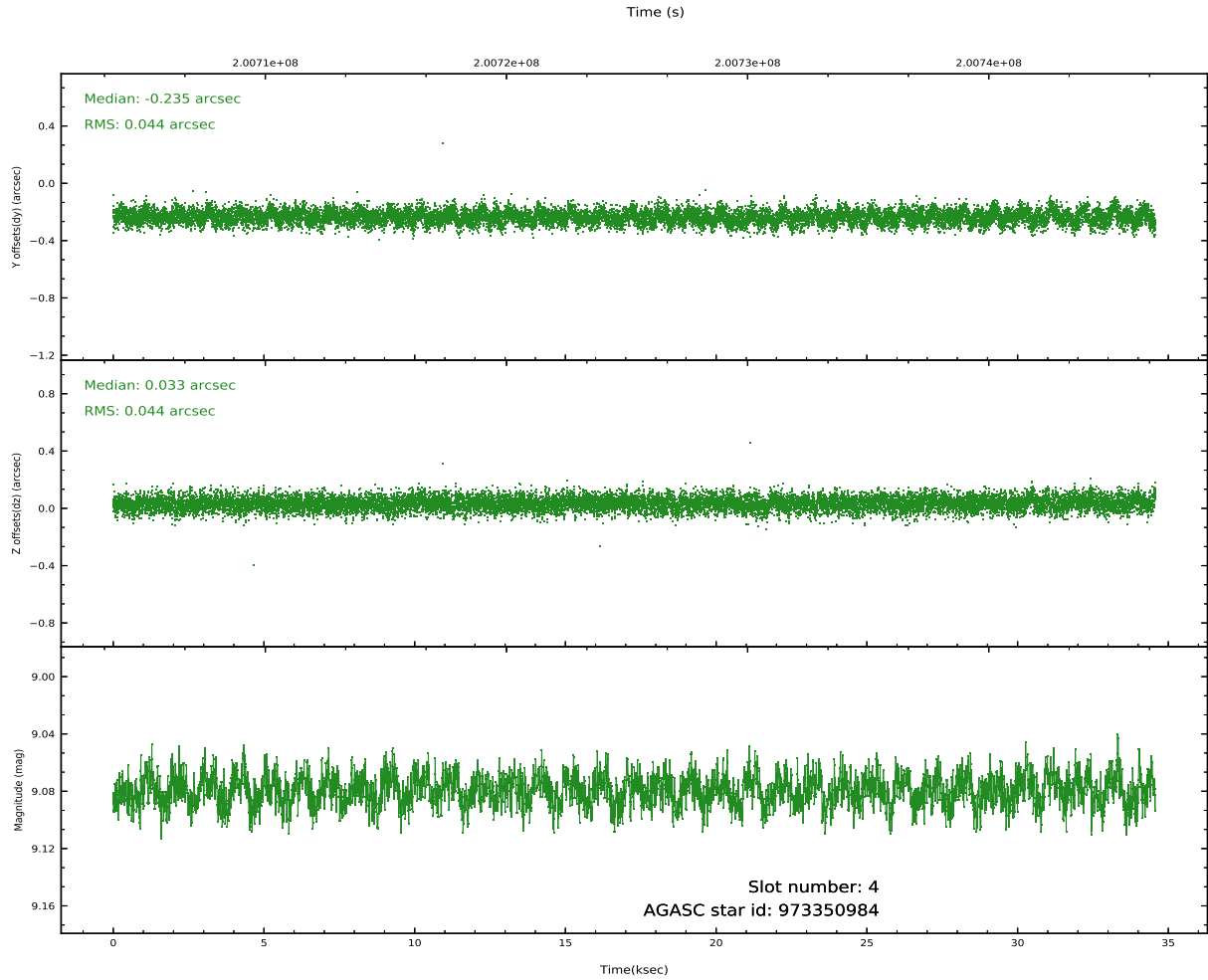
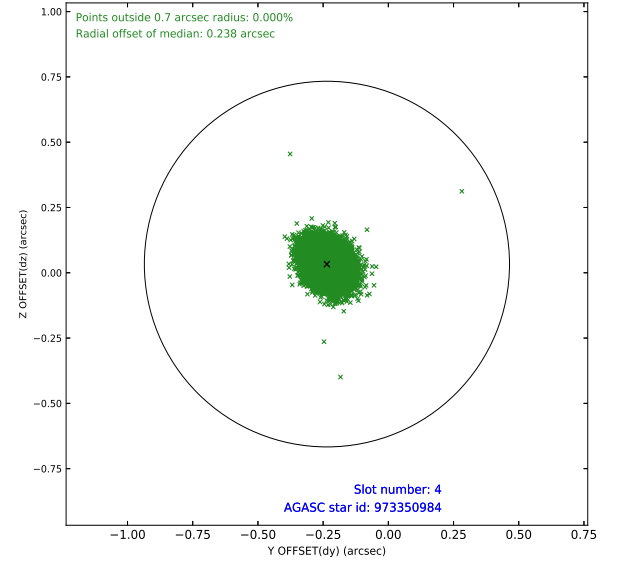
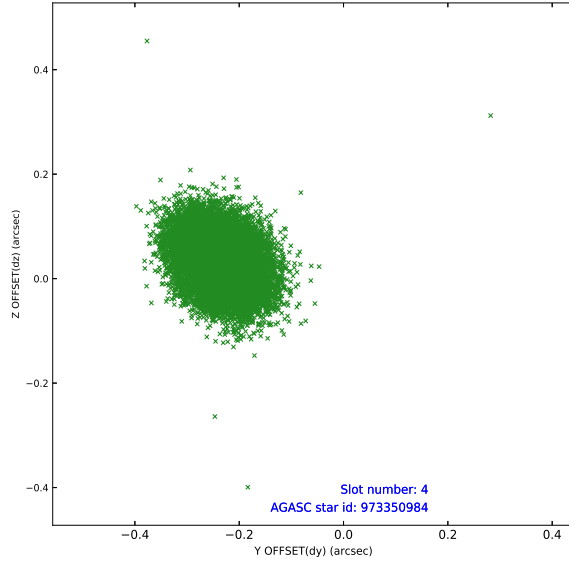
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	8431	1.000	-0.068	-0.071	0.009	0.014	0.000000	0.000000	-759.50	-1730
1	FID		ACIS-S-4	7.20	8432	1.000	0.130	0.052	0.009	0.016	0.000000	0.000000	2153.92	178
2	FID		ACIS-S-5	7.23	8432	1.000	-0.094	0.028	0.008	0.013	0.000000	0.000000	-1812.35	171
3	GUIDE	used	973223216	9.68	16848	1.000	-0.136	-0.047	0.123	0.198	294.283723	-30.379145	2295.09	2106
4	GUIDE	used	973350984	9.08	16858	1.000	-0.235	0.033	0.066	0.109	295.430415	-30.606374	1211.97	-1378
5	GUIDE	used	973355576	9.20	16856	1.000	0.174	-0.183	0.095	0.152	294.864100	-31.349834	-1320.18	571
6	GUIDE	used	973355664	9.36	16788	1.000	0.042	0.151	0.113	0.183	295.809477	-31.112987	-701.78	-2396
7	GUIDE	used	973357344	9.08	16855	1.000	0.157	0.057	0.081	0.133	295.087173	-31.269269	-1083.45	-134

2.4 Star Slots

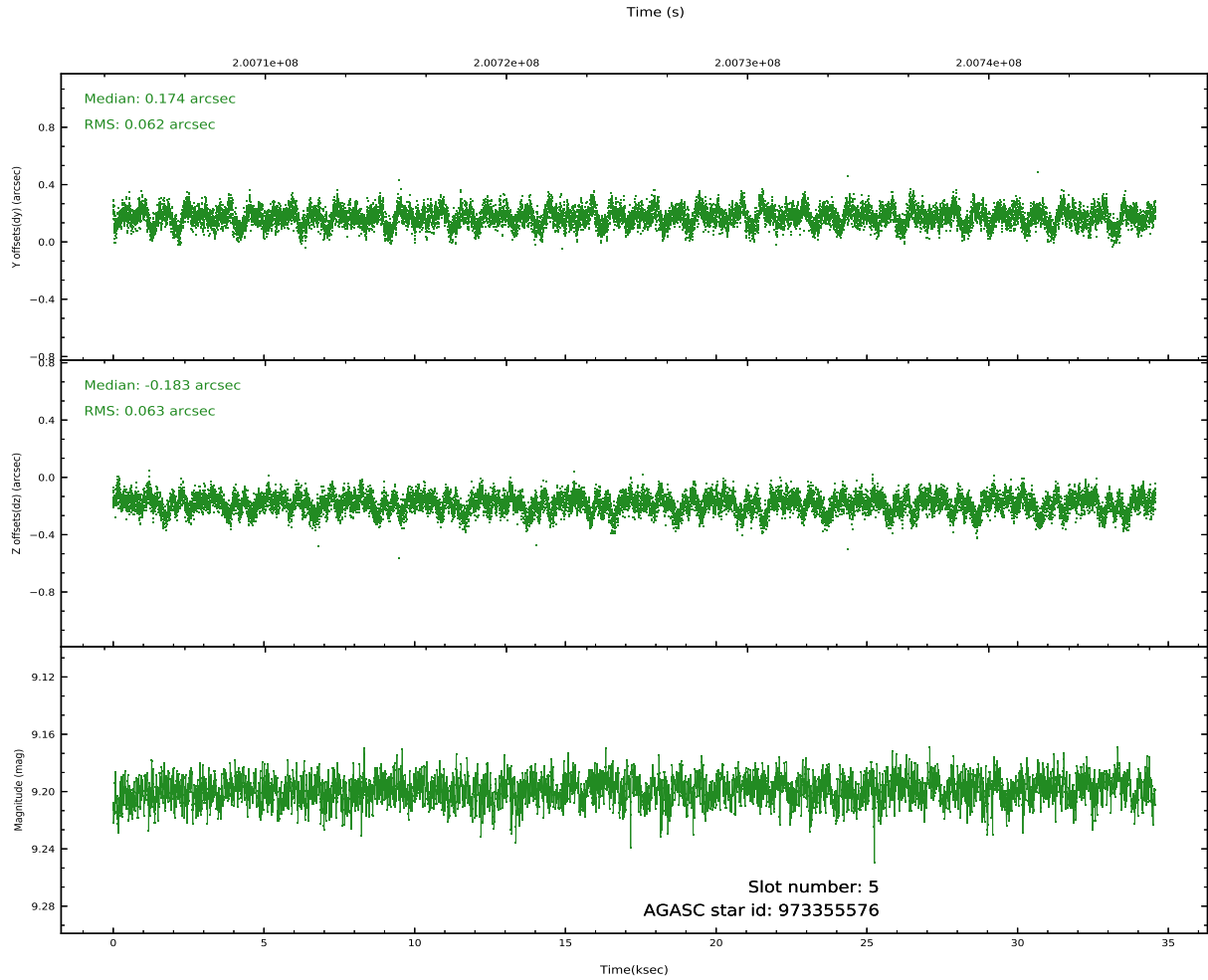
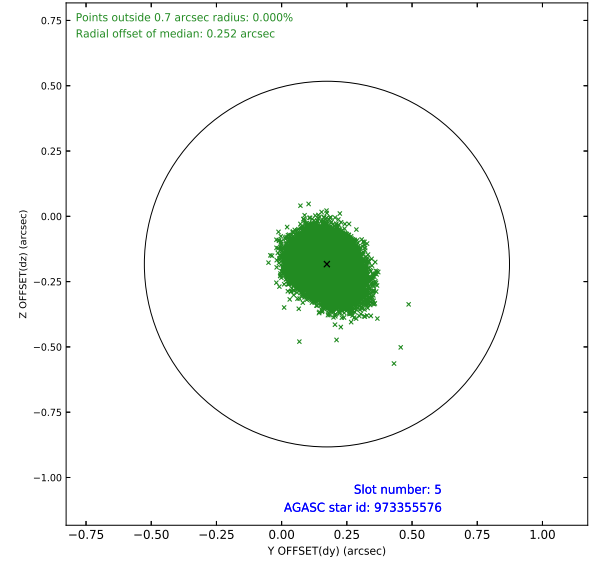
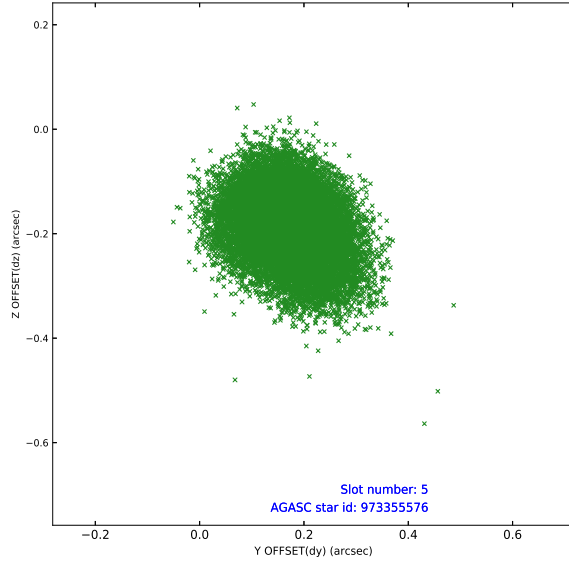
2.4.1 Slot 3



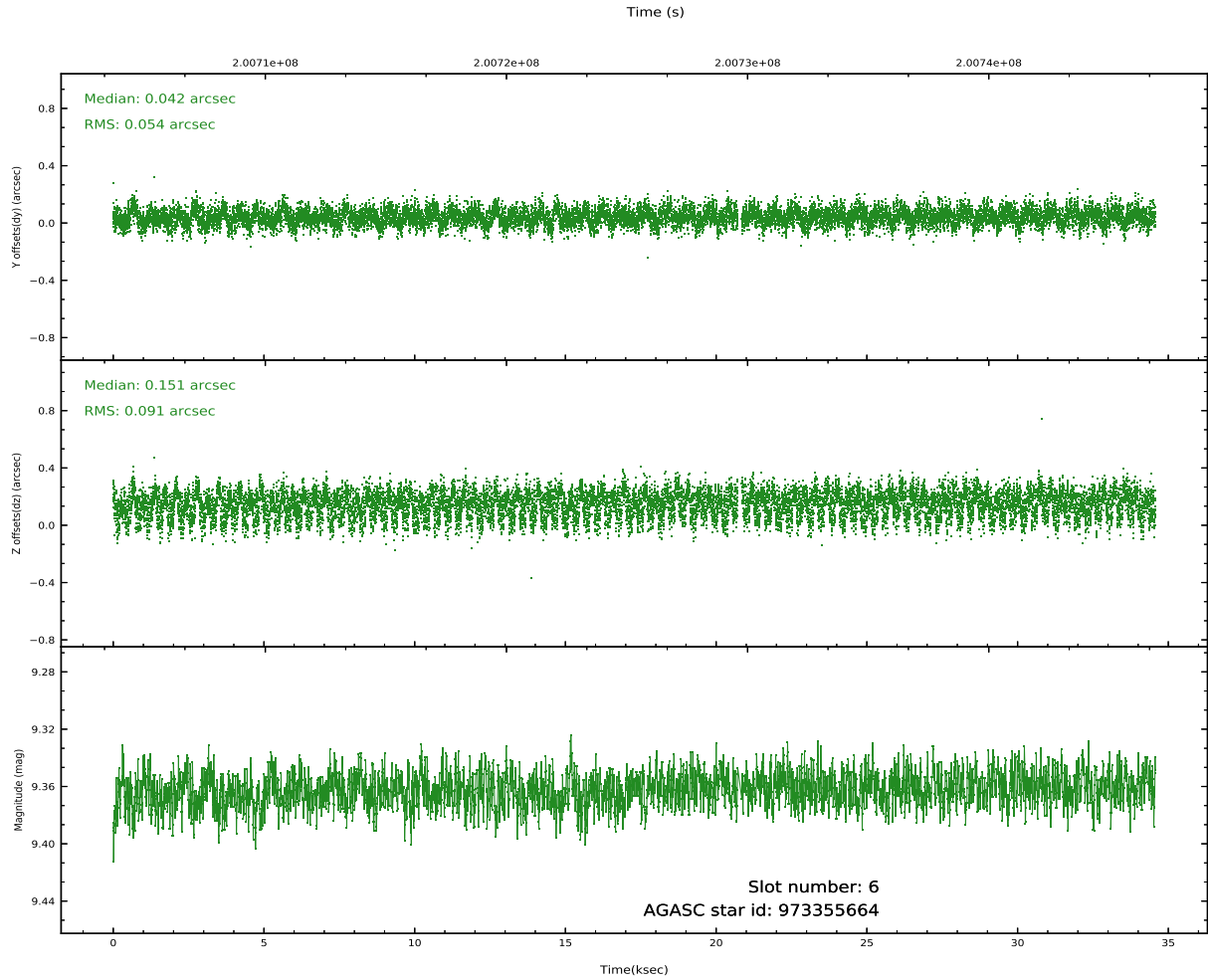
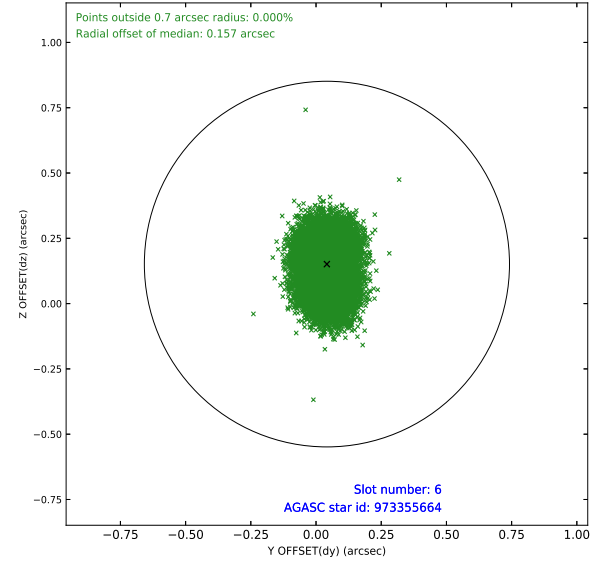
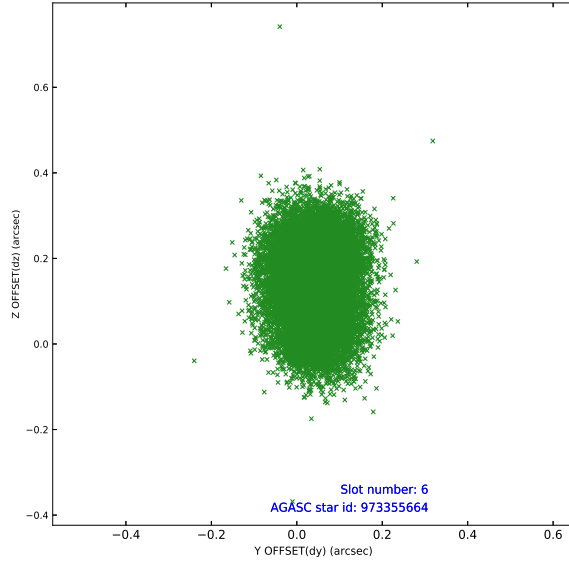
2.4.2 Slot 4



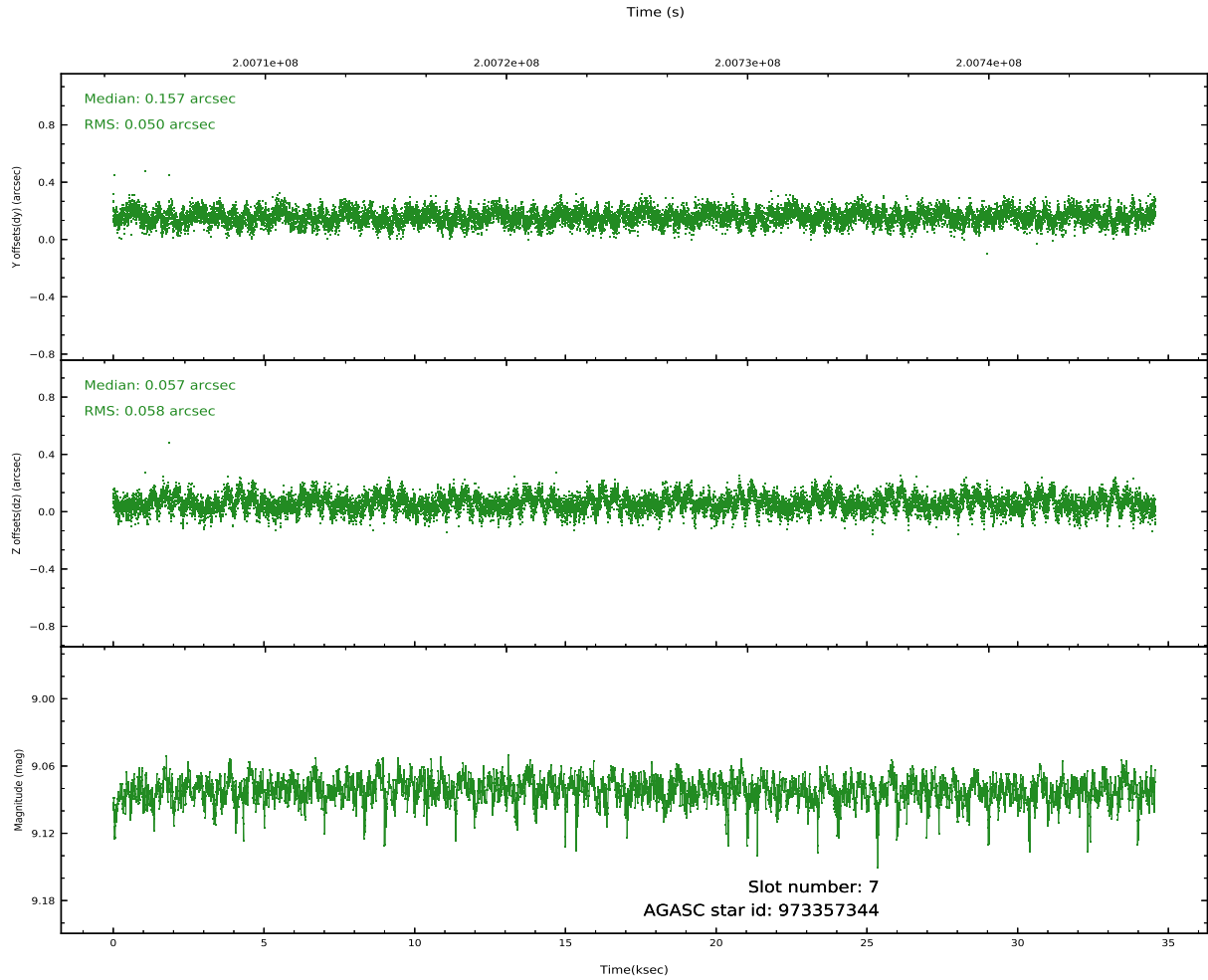
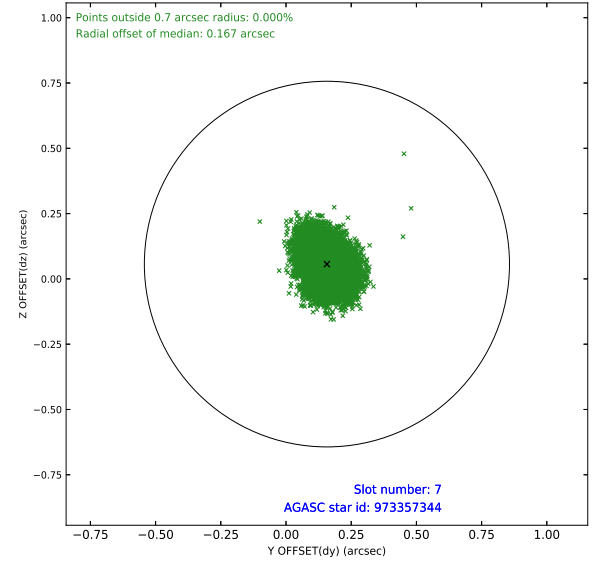
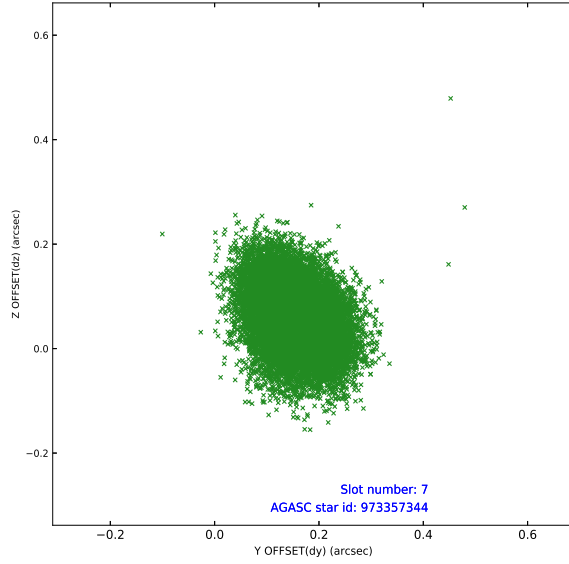
2.4.3 Slot 5



2.4.4 Slot 6

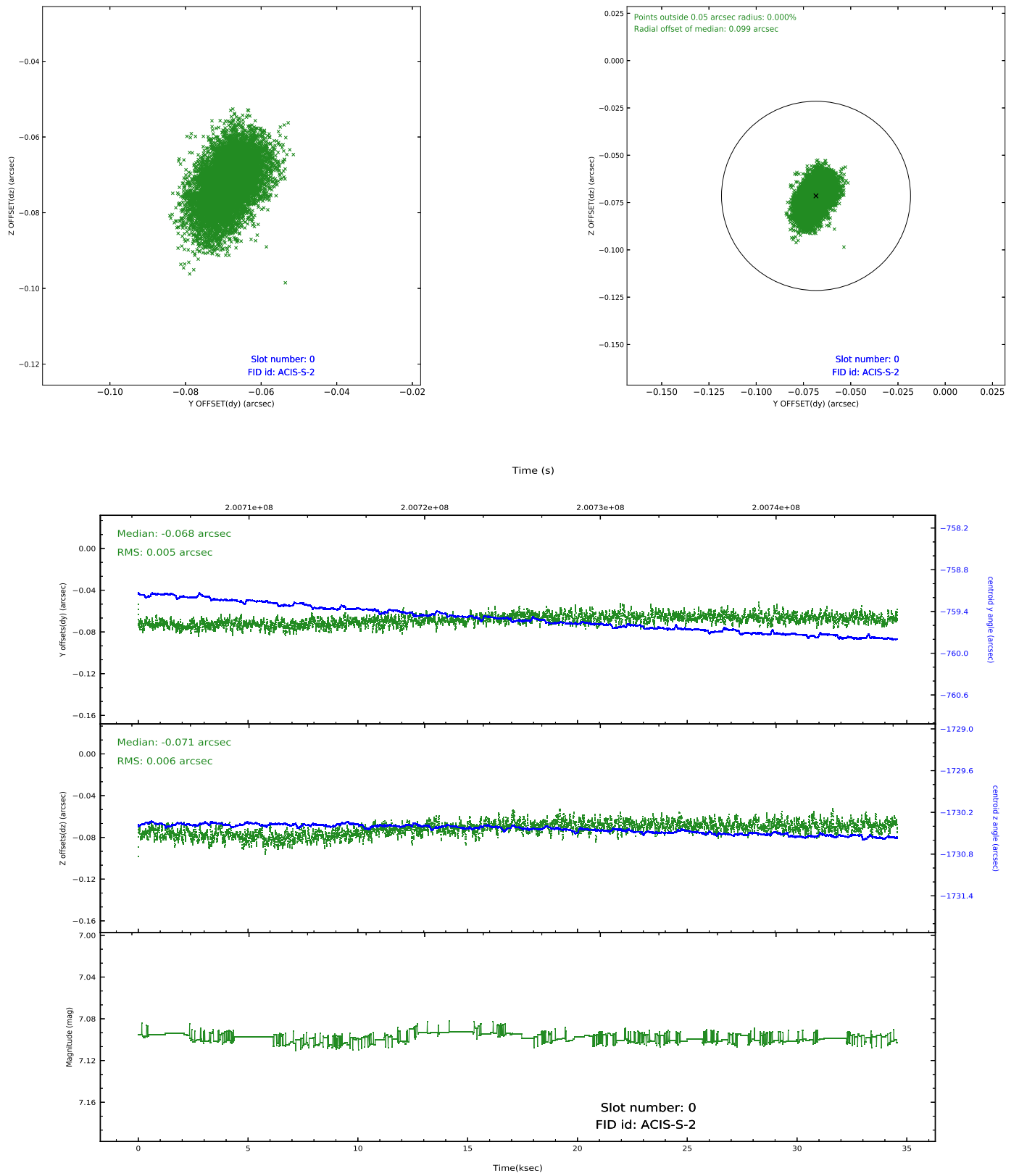


2.4.5 Slot 7

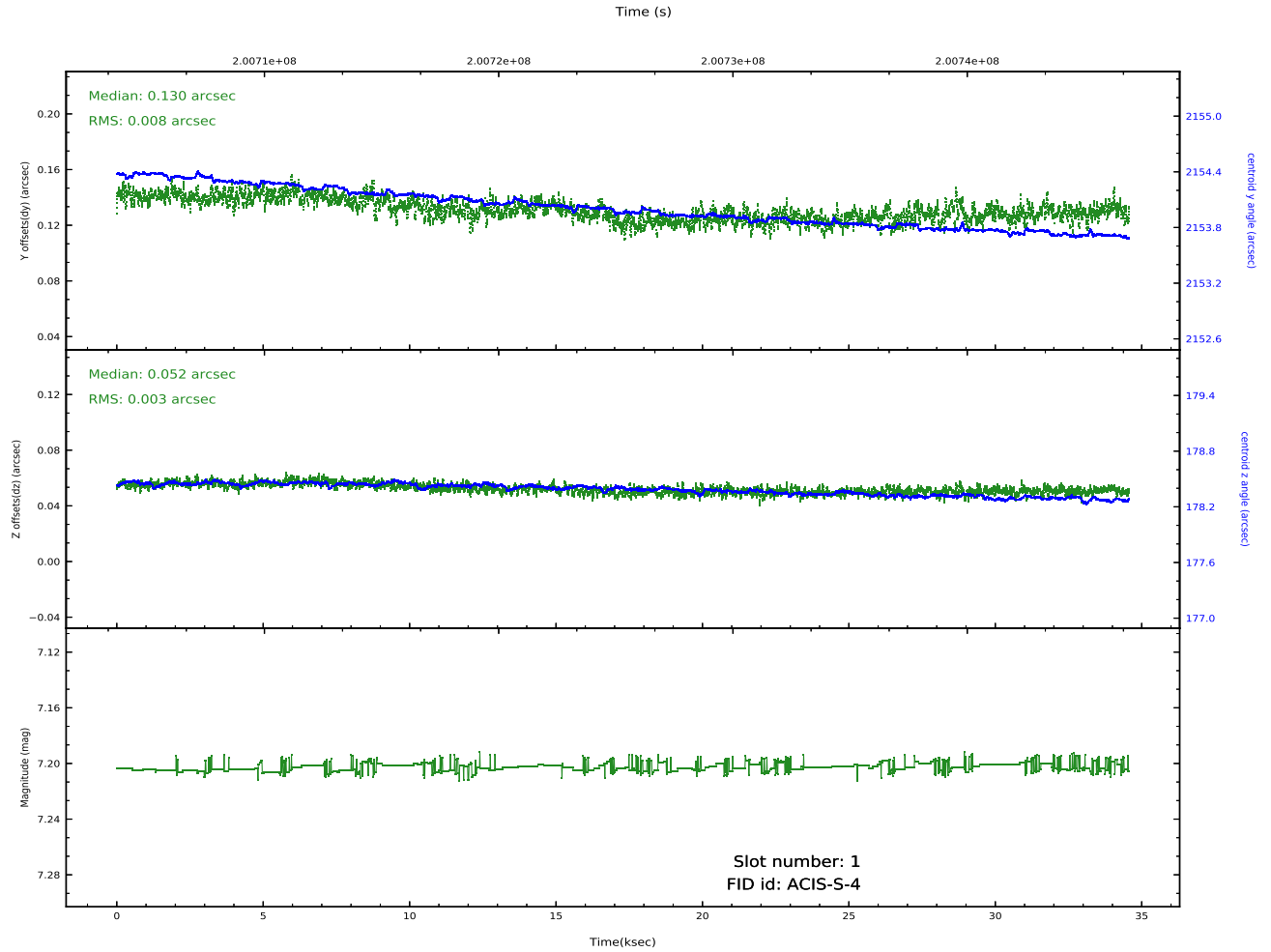
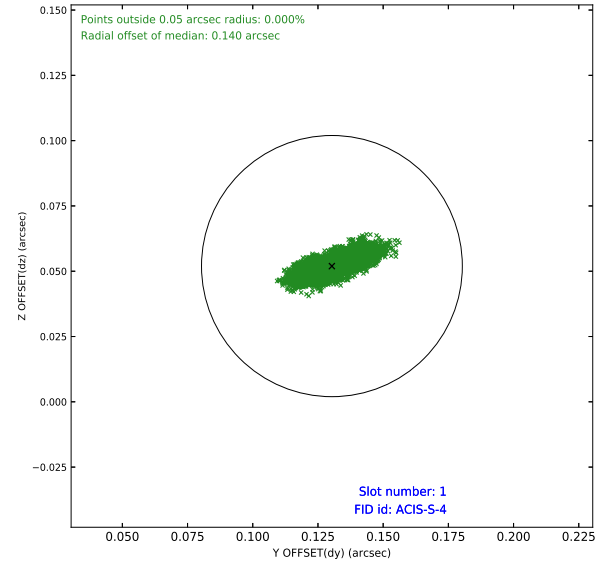
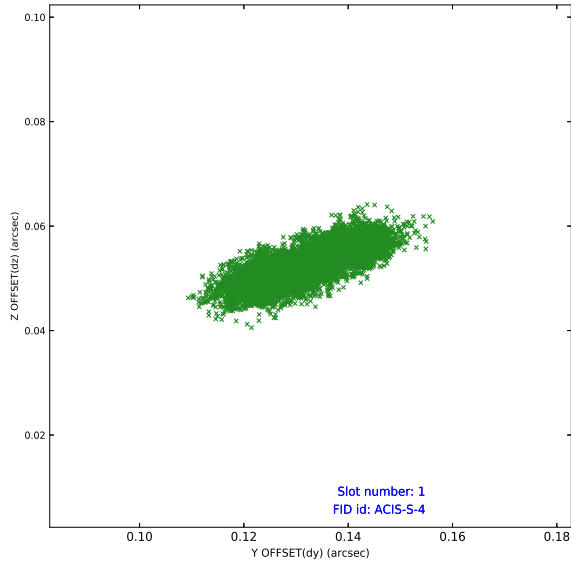


2.5 FID Slots

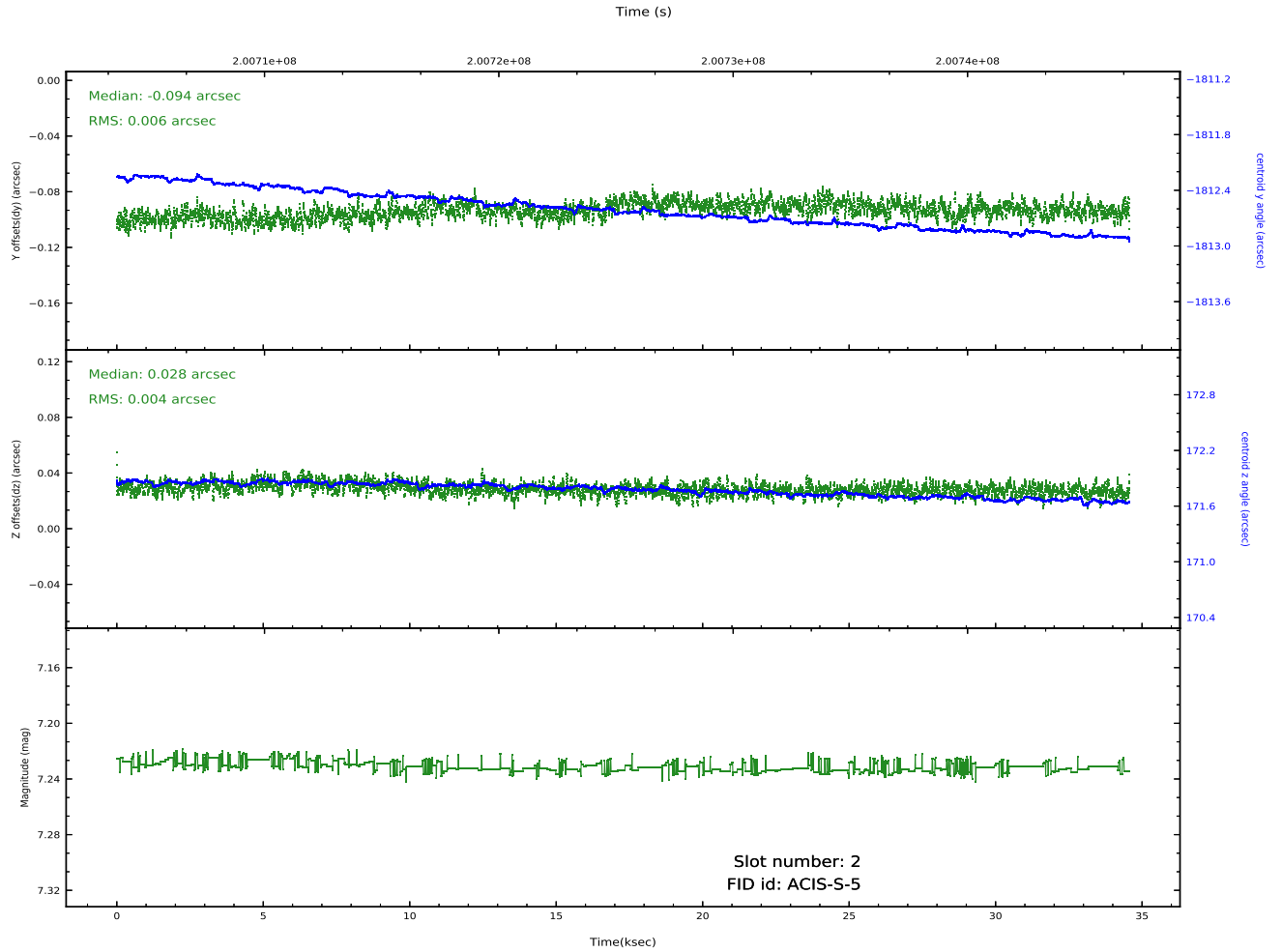
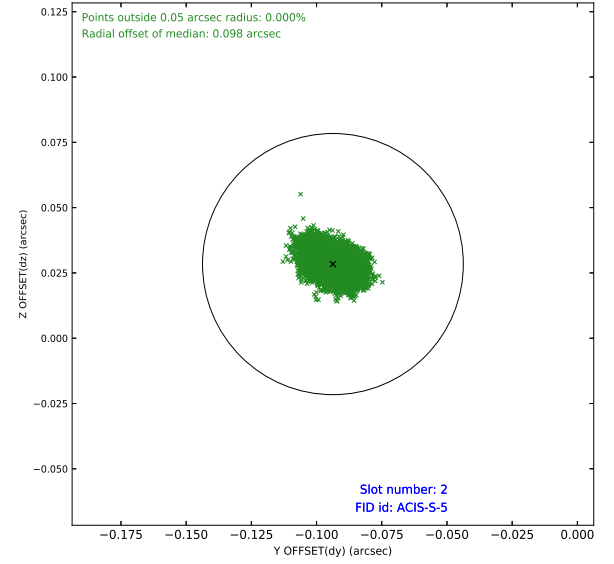
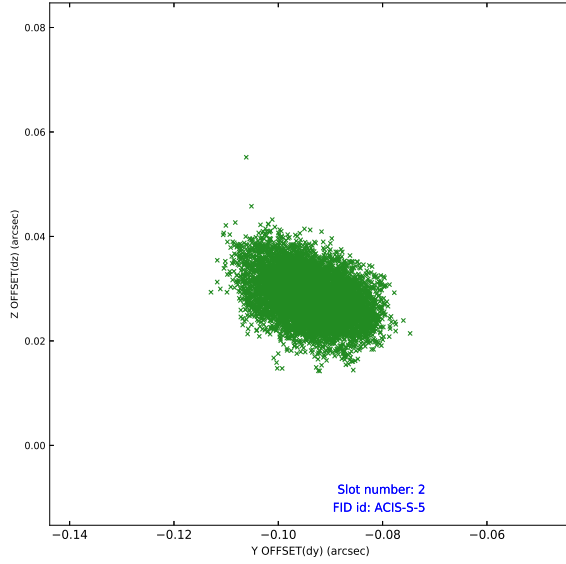
2.5.1 Slot 0



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)	2020.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	34.156

A.2 Comments

Joint proposal with HST.