

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5393 - L2 Version 4
Chandra X-Ray Center

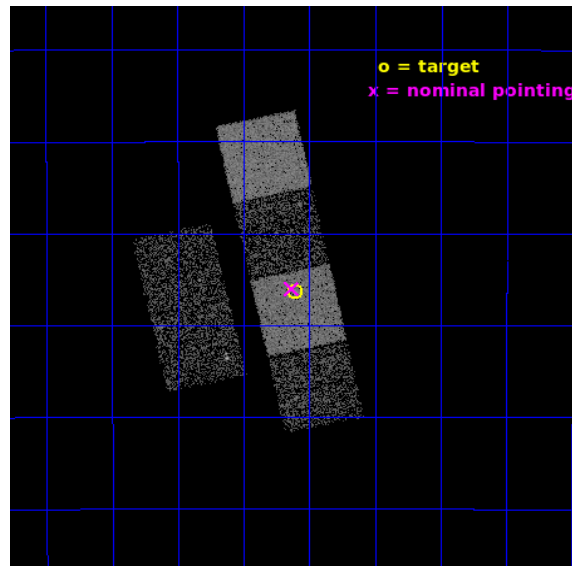
L2 Processing Date : Oct 7 2020

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1 Front

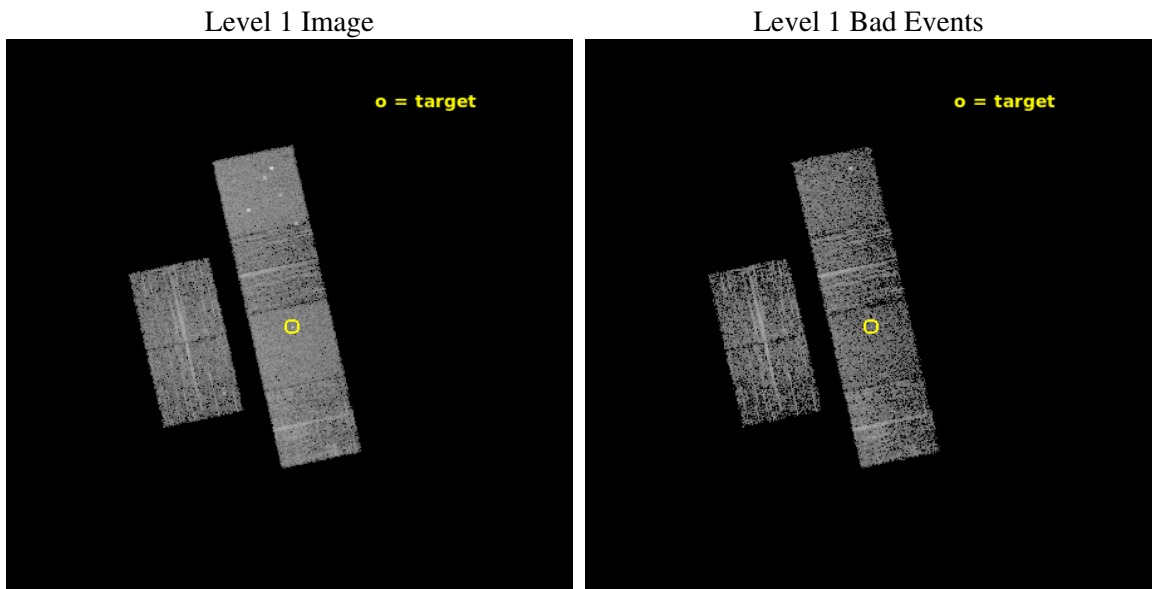
seq_num	200328	Sequence number
obs_id	5393	Observation id
title	The puzzle of X-ray emission from magnetic stars without convective envelopes	Proposal title
observer	J rgen Schmitt	Principal investigator
object	HD 144334	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	241.526667	Observer's specified target RA [deg]
dec_targ	-23.606306	Observer's specified target Dec [deg]
ra_nom	241.5331581507	Nominal RA [deg]
dec_nom	-23.600368719436	Nominal Dec [deg]
roll_nom	77.710991047875	Nominal Roll [deg]
revision	4	Processing version of data
ontime	2953.599988997	Sum of GTIs [s]
livetime	2916.1997274919	Livetime [s]
ontime2	2953.599988997	Sum of GTIs [s]
ontime3	2953.599988997	Sum of GTIs [s]
ontime5	2953.599988997	Sum of GTIs [s]
ontime6	2953.599988997	Sum of GTIs [s]
ontime7	2953.599988997	Sum of GTIs [s]
ontime8	2953.599988997	Sum of GTIs [s]
l2events	37187	Number of level 2 events



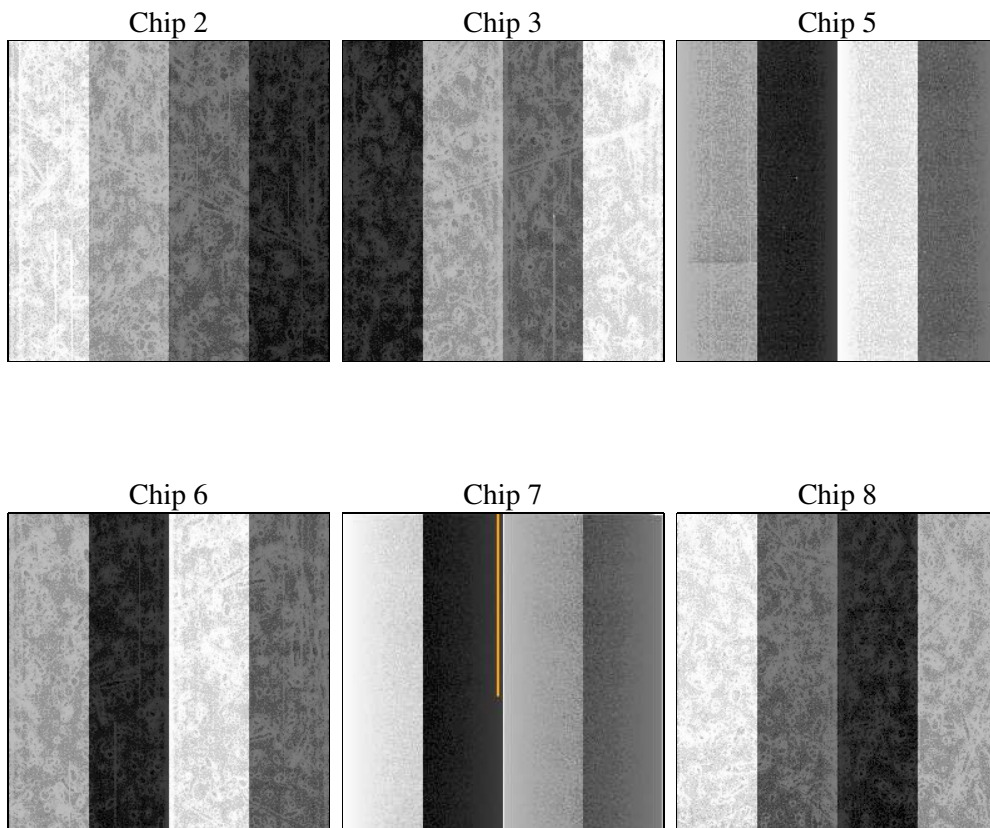
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	2953.599988997	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	2953.599988997	Sum of GTIs [s]
date	2020-10-07T10:34:16	Date and time of file creation	ontime3	2953.599988997	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	2953.599988997	Sum of GTIs [s]
			ontime6	2953.599988997	Sum of GTIs [s]
			ontime7	2953.599988997	Sum of GTIs [s]
			ontime8	2953.599988997	Sum of GTIs [s]
			l1events	160896	Number of level 1 events

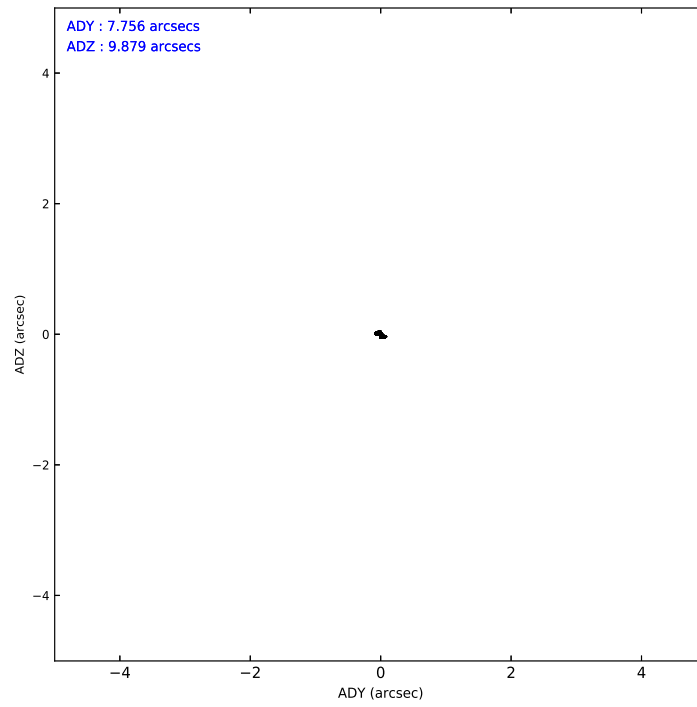
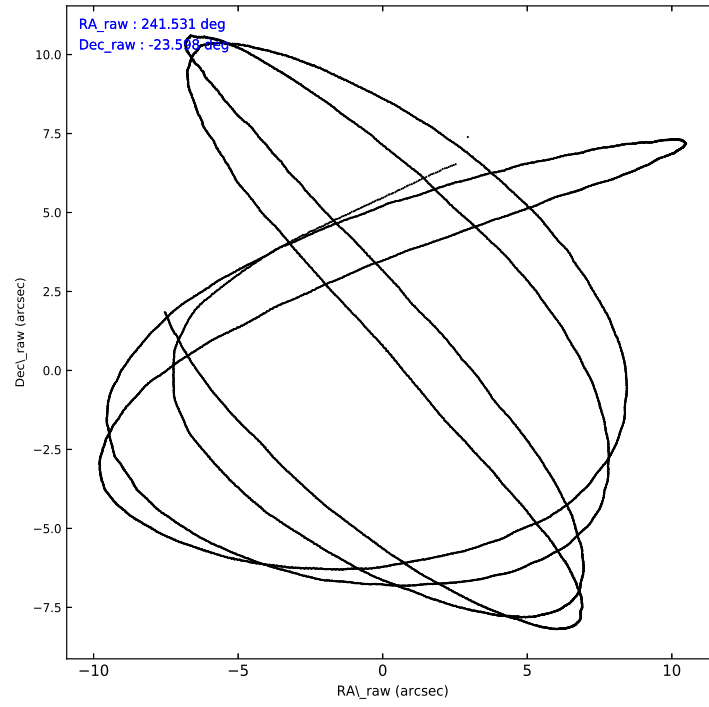
2.1.4 Events

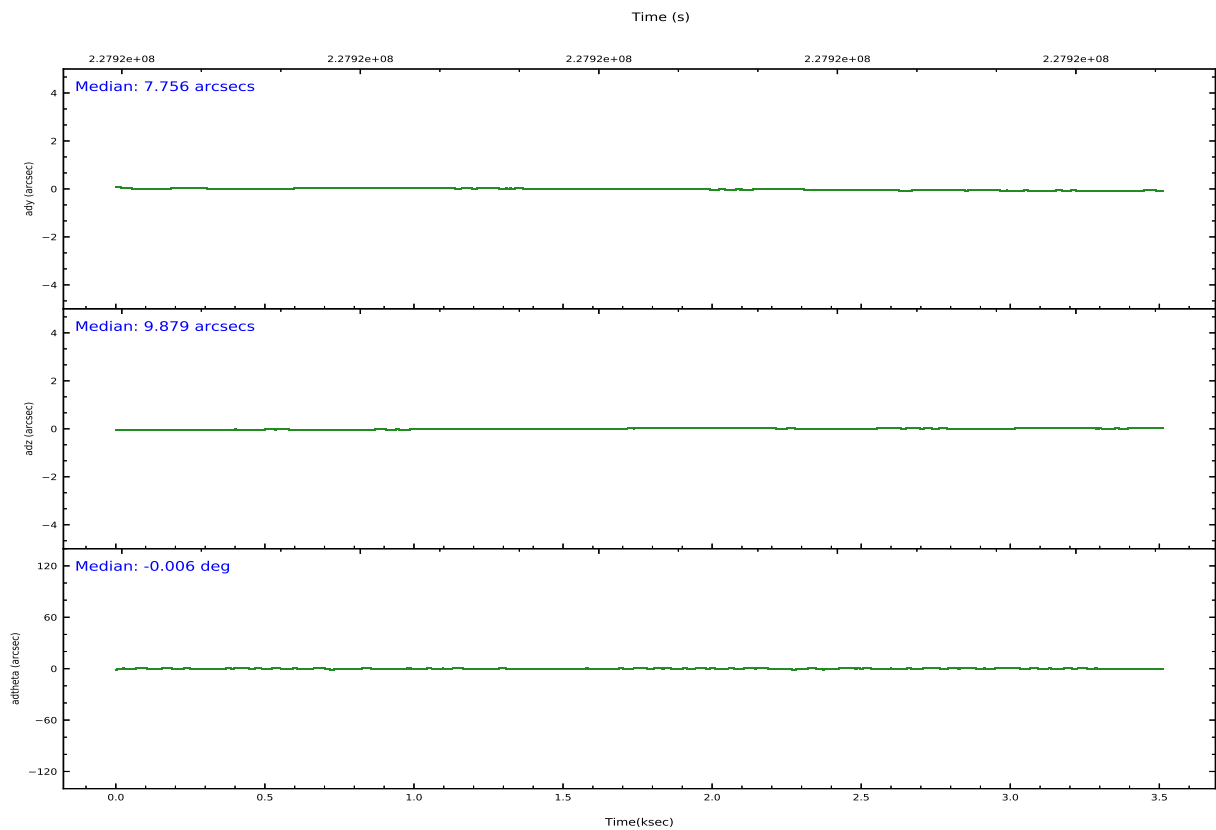
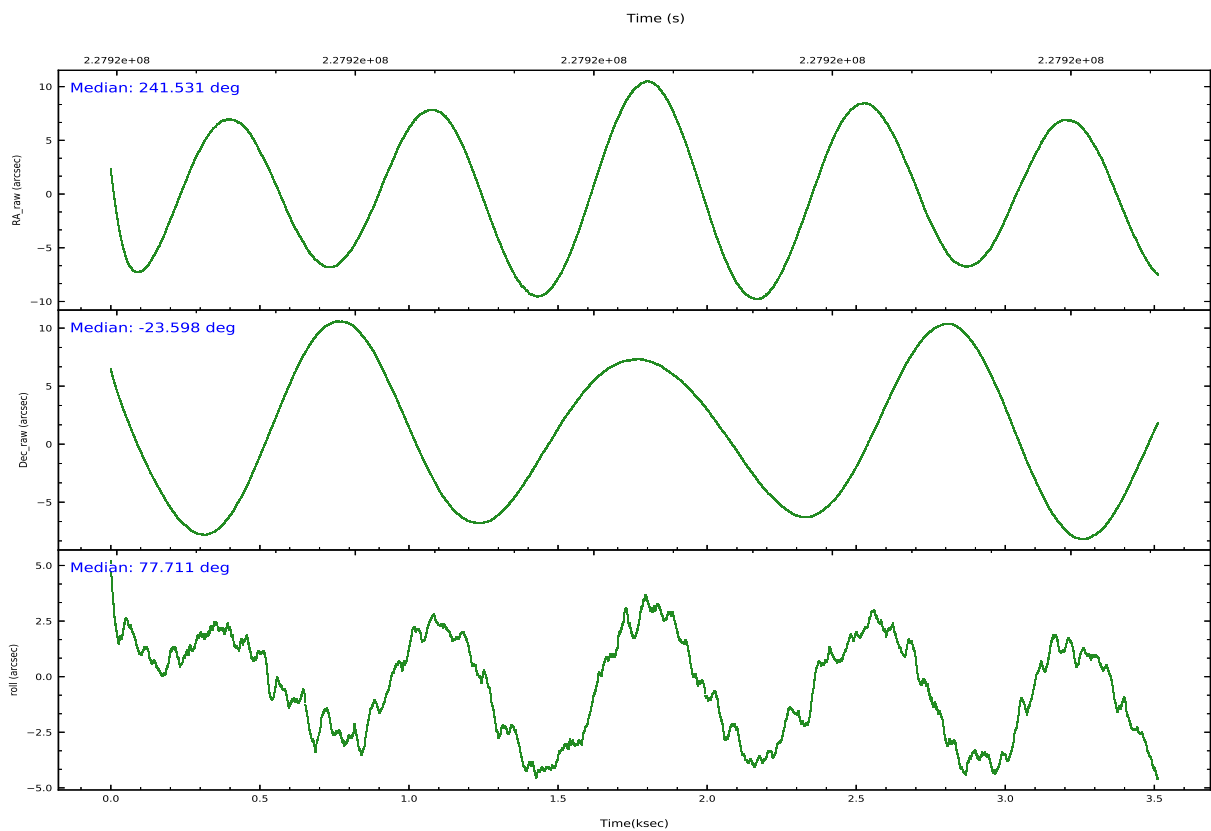
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	23818	20764	34596	22891	30523	28304	grade 0 events	1274	1349	2254	1199	1304	1986
rejected events	20980	17997	18174	20081	17344	22216		5%	6%	6%	5%	4%	7%
rejected %	88%	86%	52%	87%	56%	78%	grade 1 events	14	12	62	8	47	13
								0%	0%	0%	0%	0%	0%
							grade 2 events	586	509	4846	551	2623	1296
								2%	2%	14%	2%	8%	4%
							grade 3 events	261	272	617	250	1212	623
								1%	1%	1%	1%	3%	2%
							grade 4 events	253	245	592	264	1159	577
								1%	1%	1%	1%	3%	2%
							grade 5 events	859	996	2476	1048	2886	1355
								3%	4%	7%	4%	9%	4%
							grade 6 events	466	393	8123	549	6904	1623
								1%	1%	23%	2%	22%	5%
							grade 7 events	20105	16988	15626	19022	14388	20831
								84%	81%	45%	83%	47%	73%

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	241.540117	241.5331581507	Subarray requested	NONE	NONE
[deg] Pointing Dec	-23.623191	-23.600368719436	Alternating exposures requested	N	N
[deg] Pointing Roll	77.557436	77.710991047875	[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	-190.145094680475			
[mm] SIM translation stage offset	0	0.01257209746719923			
[s] Observation start time (MET)	227917292.184000	227916166.54067			
Observation start date	2005-03-22T22:20:28	2005-03-22T22:02:46			
[s] Observation end time (MET)	227920292.184000	227920489.99086			
Observation end date	2005-03-22T23:10:28	2005-03-22T23:14:49			
Read mode	TIMED	TIMED			

2.3 Aspect



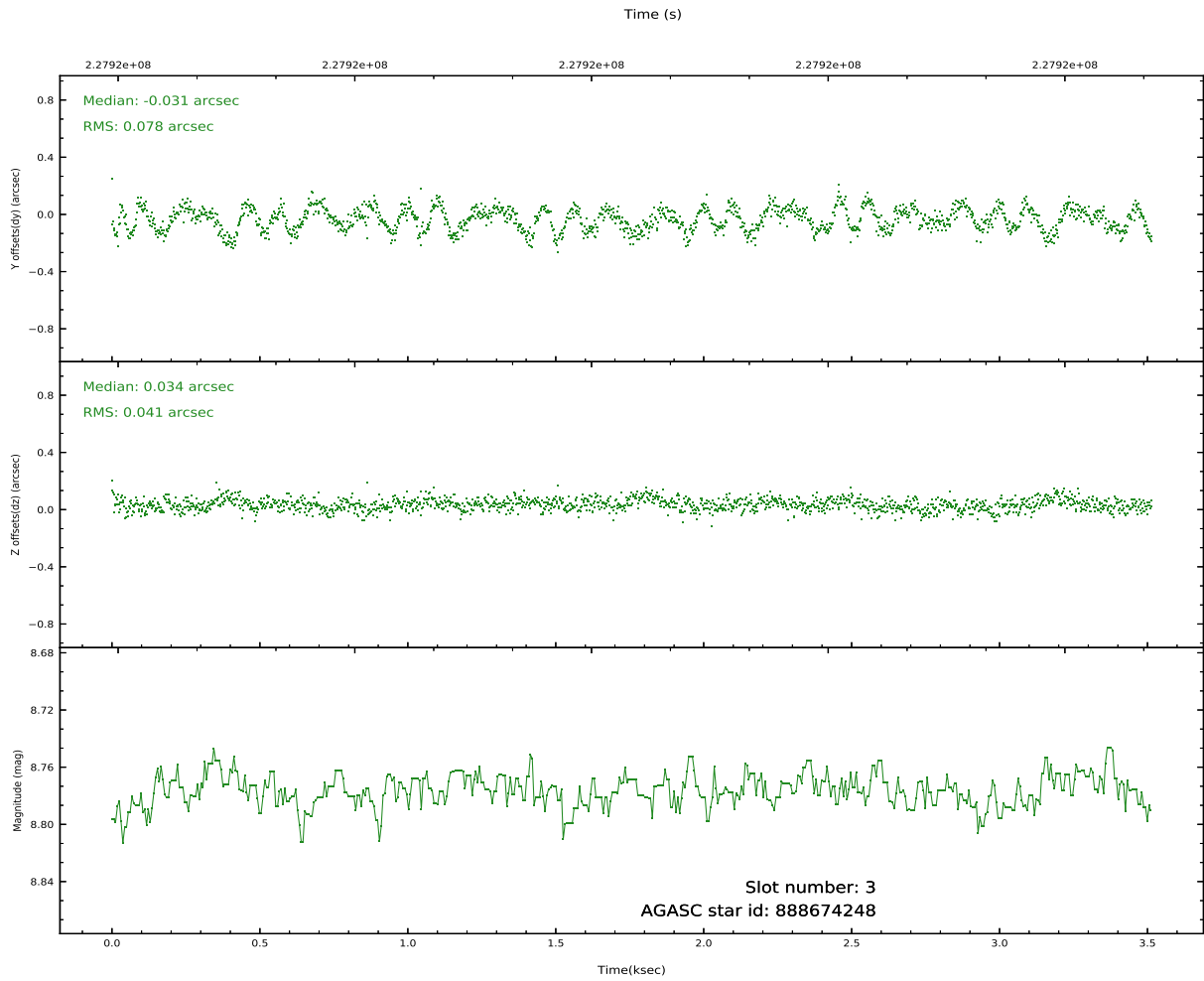
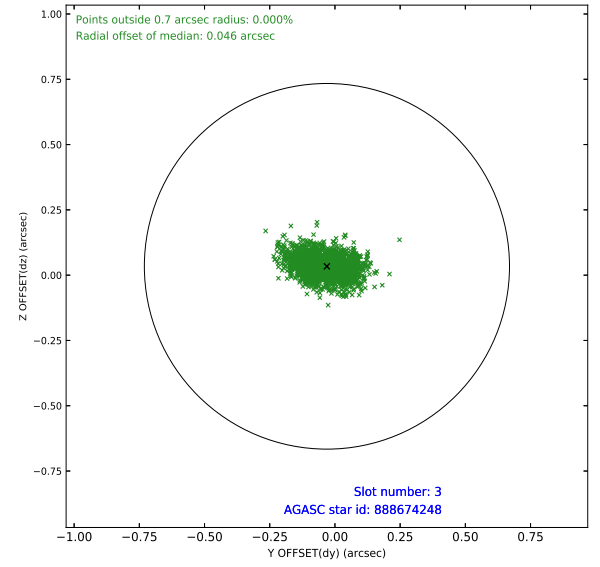
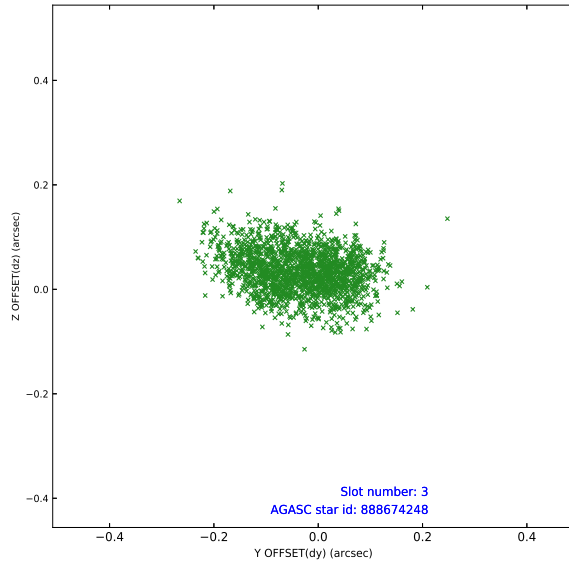


Slot Statistics

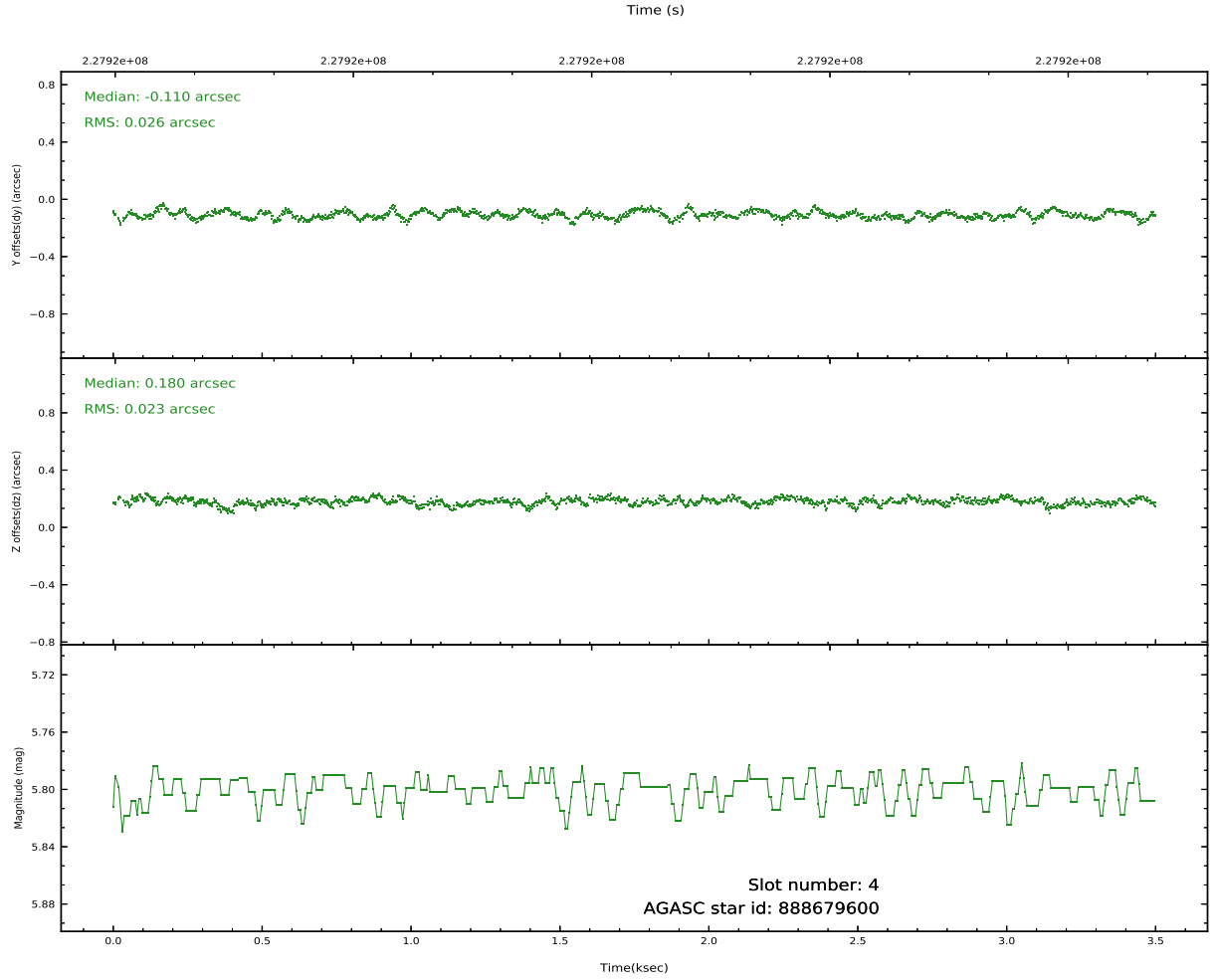
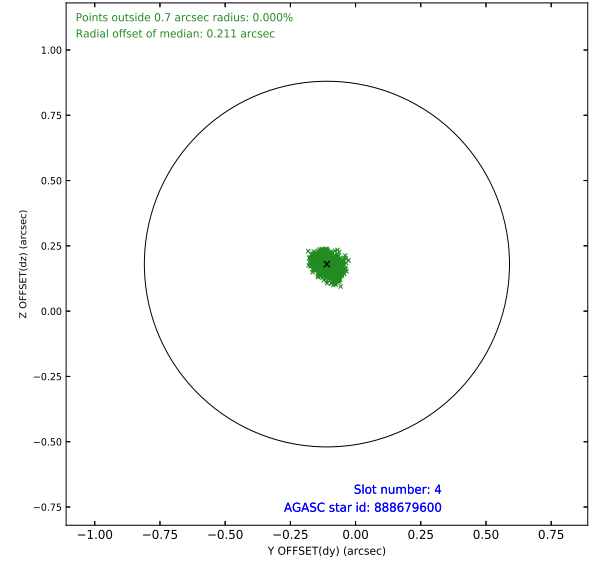
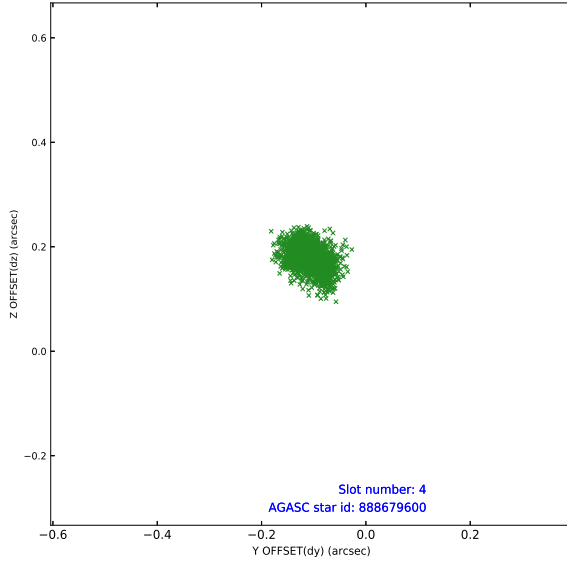
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.19	857	1.000	0.012	-0.026	0.007	0.012	0.000000	0.000000	935.54	-1726
1	FID		ACIS-S-2	7.11	858	1.000	-0.131	-0.058	0.006	0.010	0.000000	0.000000	-759.50	-1733
2	FID		ACIS-S-4	7.20	857	1.000	0.093	0.090	0.006	0.010	0.000000	0.000000	2152.04	175
3	GUIDE	used	888674248	8.78	1715	1.000	-0.031	0.034	0.095	0.153	242.349853	-23.178124	2135.80	-2272
4	GUIDE	used	888679600	5.80	1702	1.000	-0.110	0.180	0.036	0.060	242.051477	-23.793344	-235.92	-1778
5	GUIDE	used	888680880	7.77	1713	1.000	0.196	-0.159	0.059	0.103	241.150567	-24.100181	-1953.57	878
6	GUIDE	used	888674904	8.07	1714	1.000	0.159	-0.137	0.065	0.099	241.329780	-23.669126	-311.65	641
7	GUIDE	used	888672832	9.05	1713	1.000	-0.214	0.083	0.082	0.129	241.749086	-22.977226	2419.31	-175

2.4 Star Slots

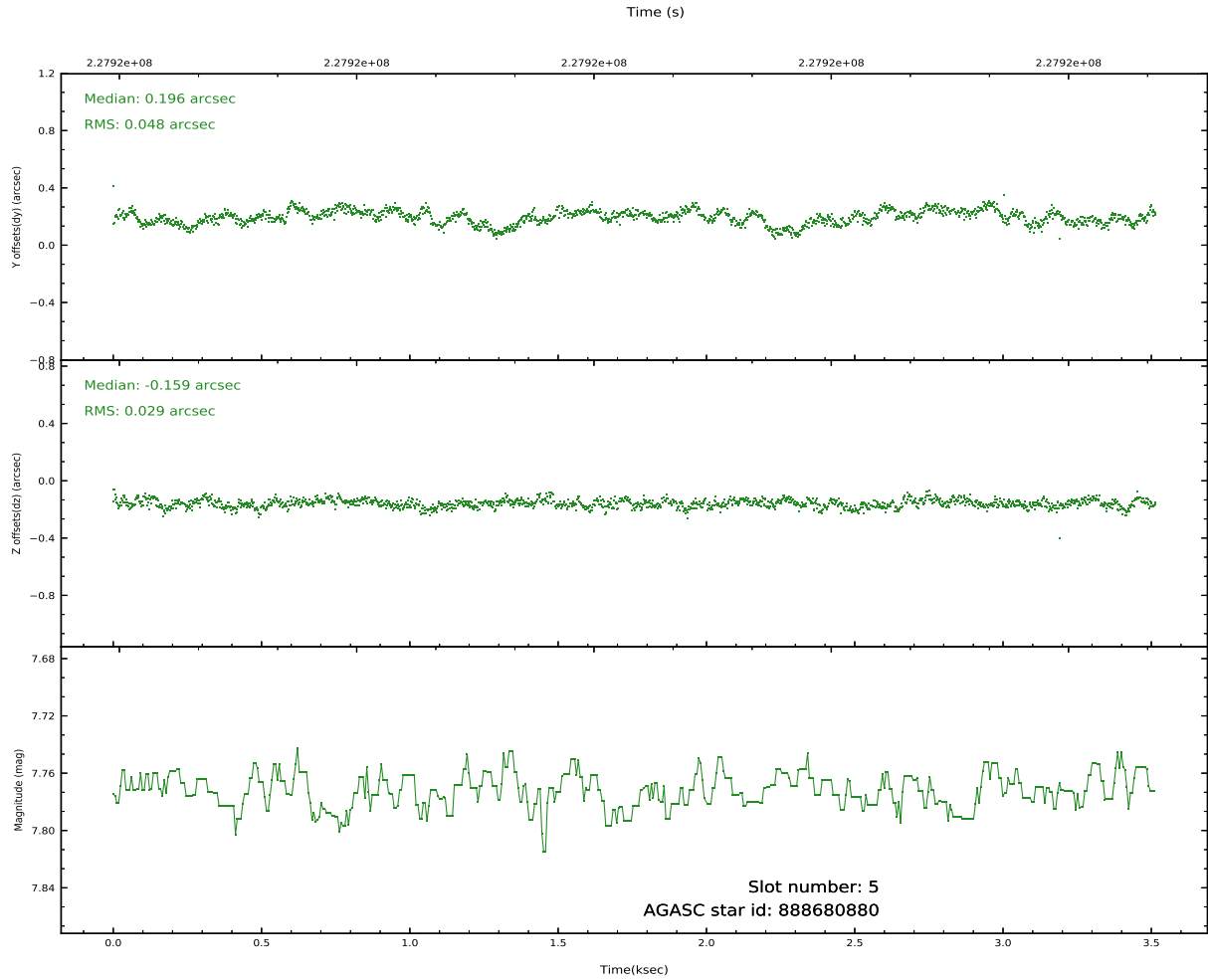
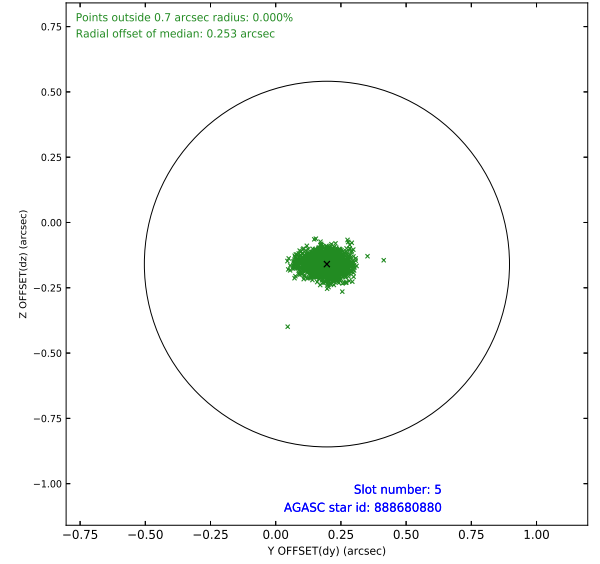
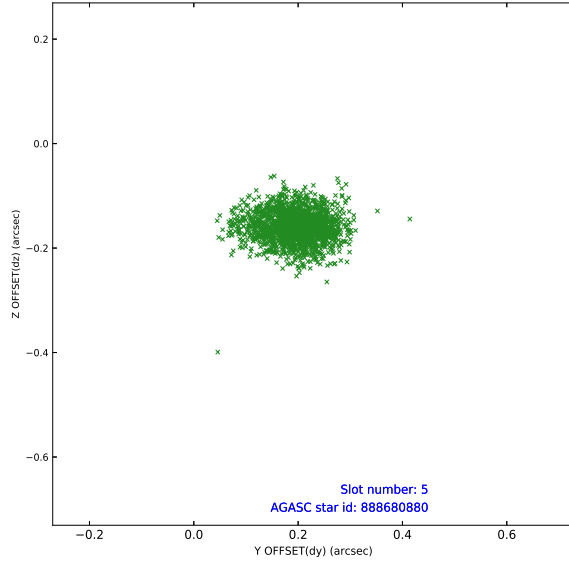
2.4.1 Slot 3



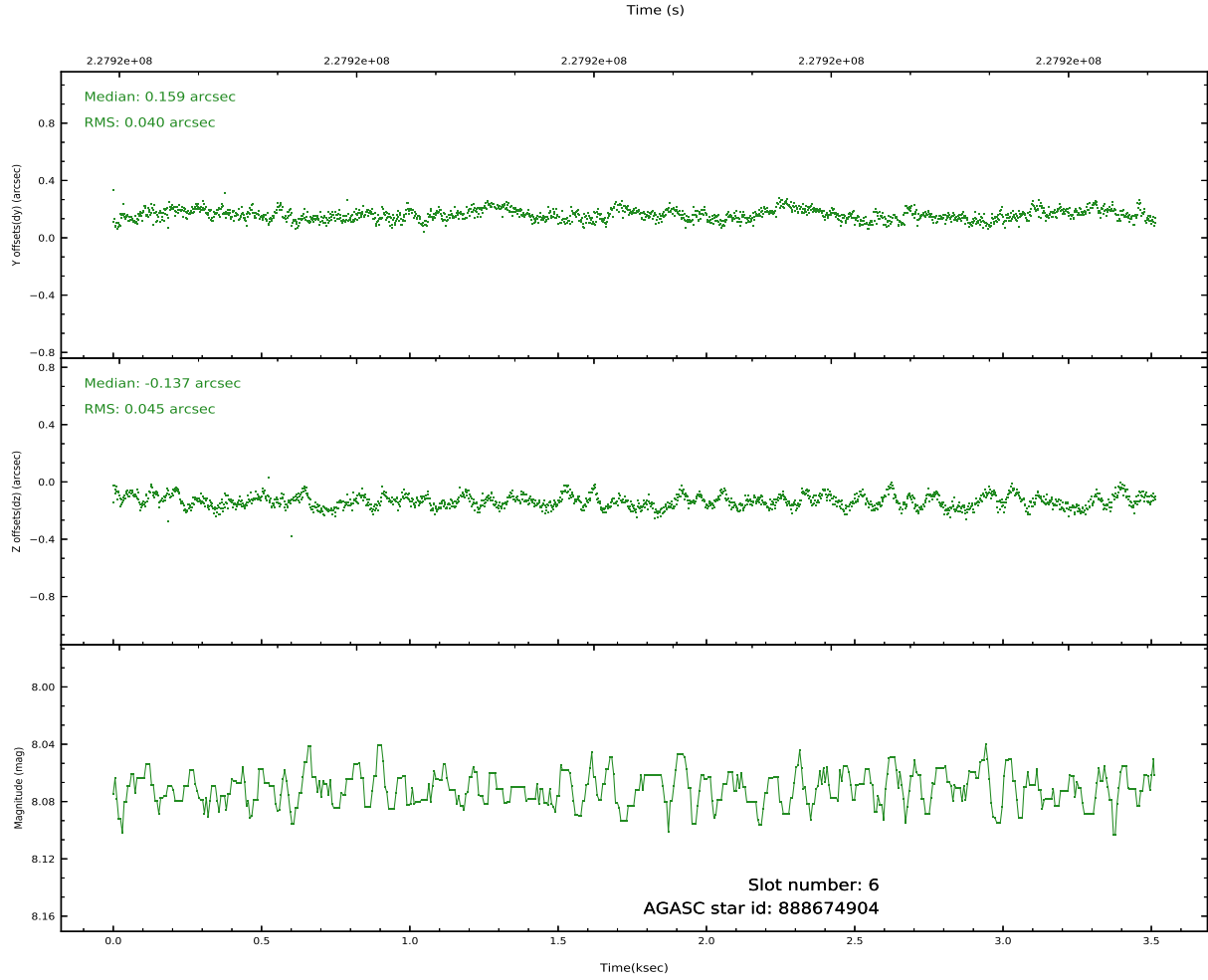
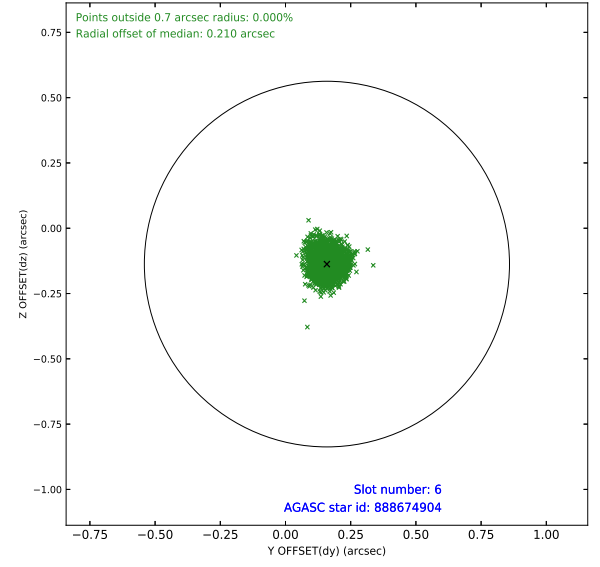
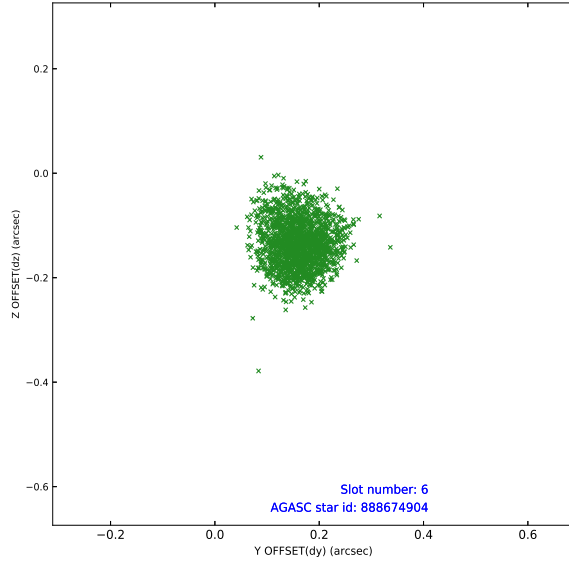
2.4.2 Slot 4



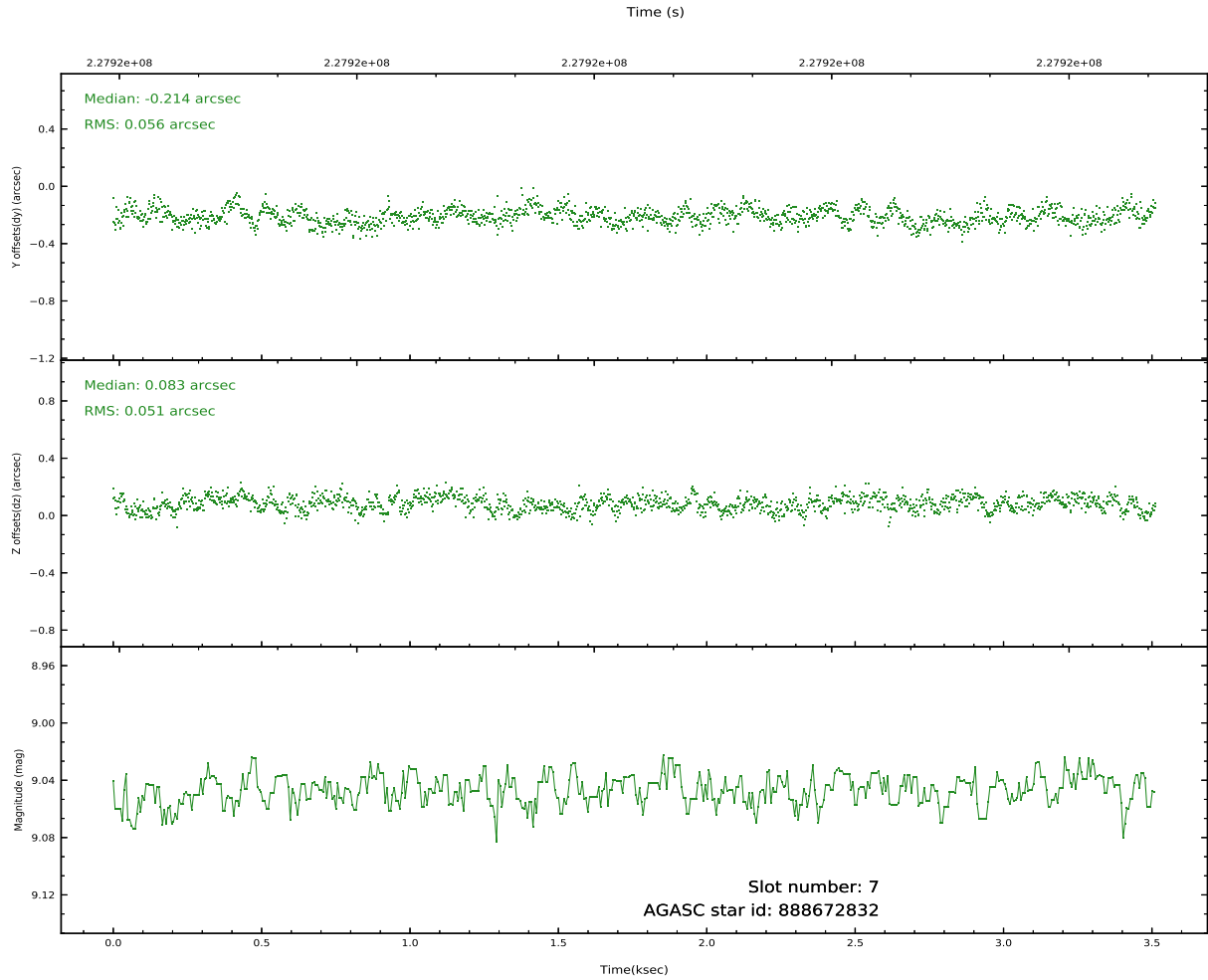
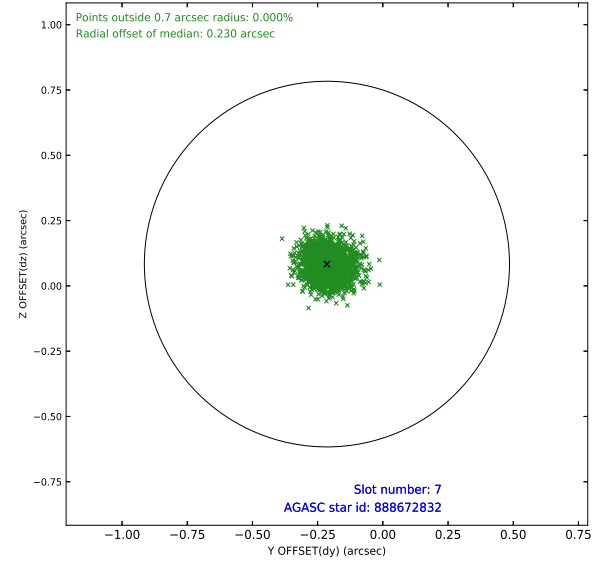
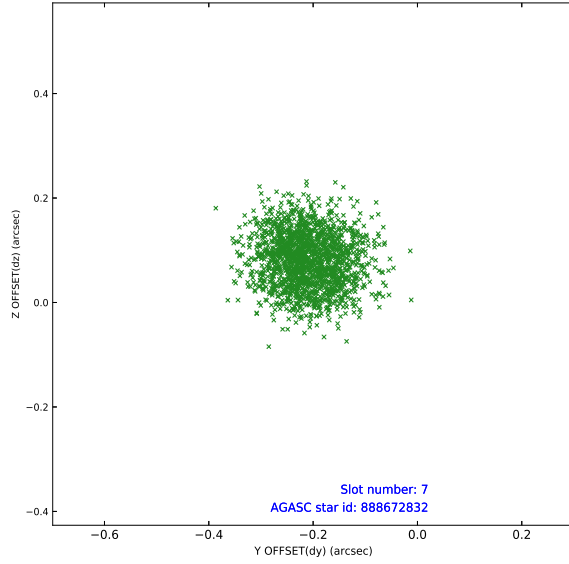
2.4.3 Slot 5



2.4.4 Slot 6

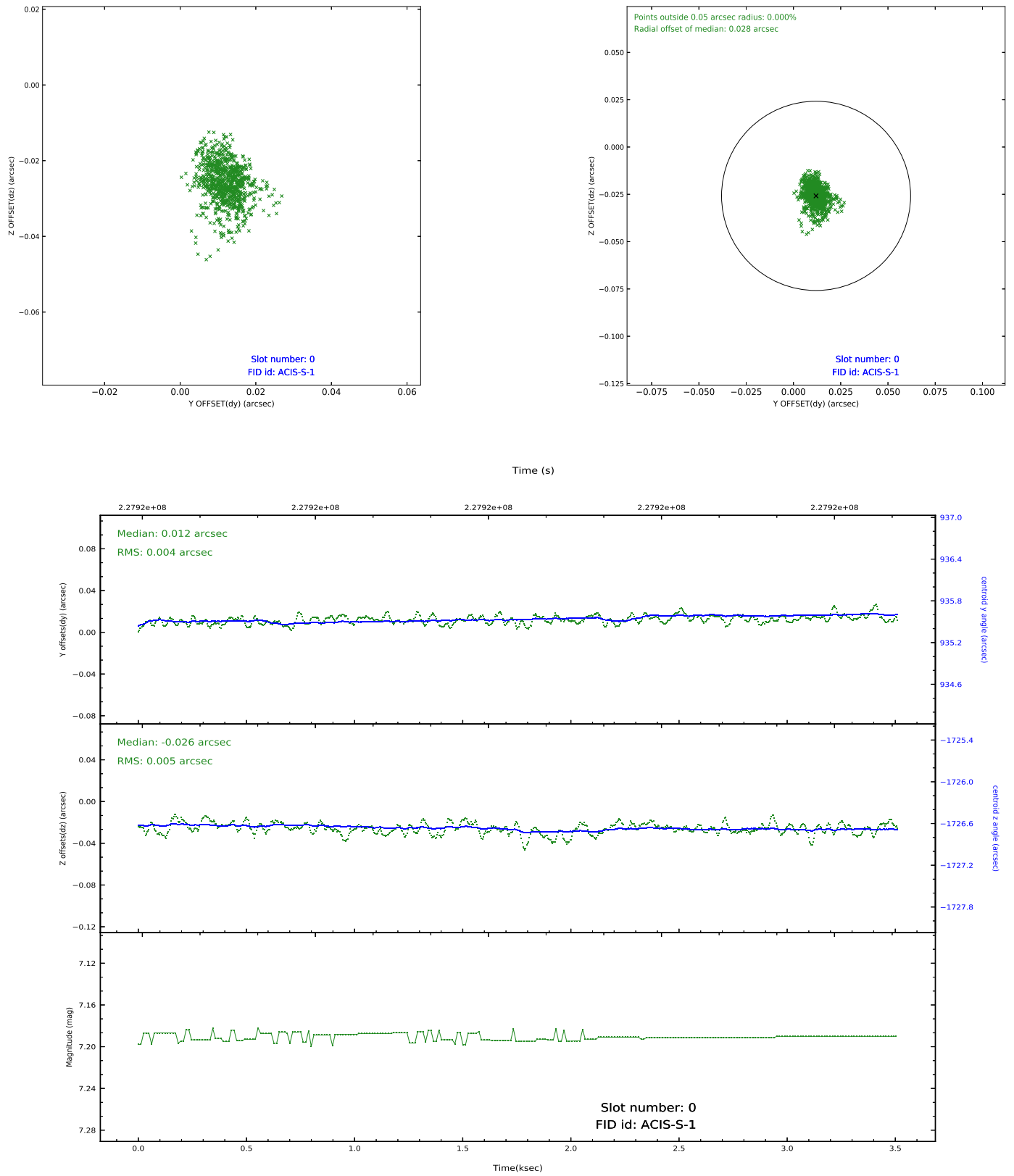


2.4.5 Slot 7

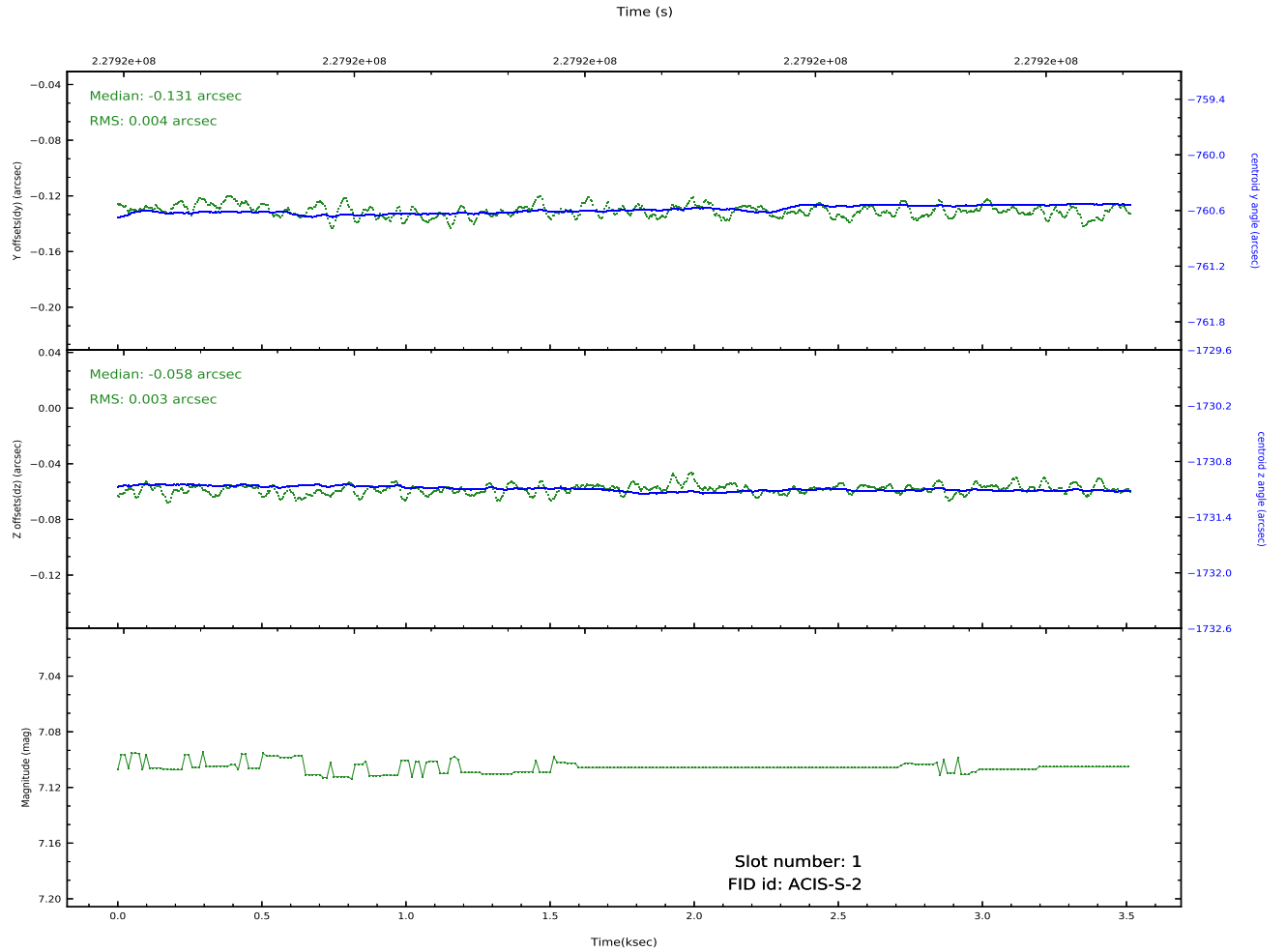
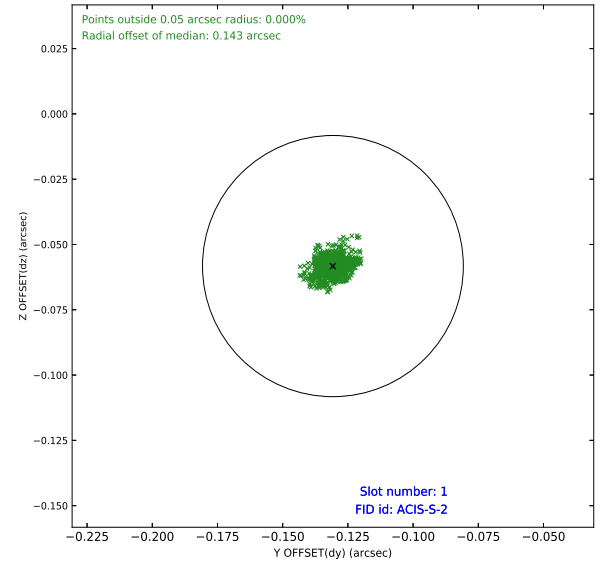
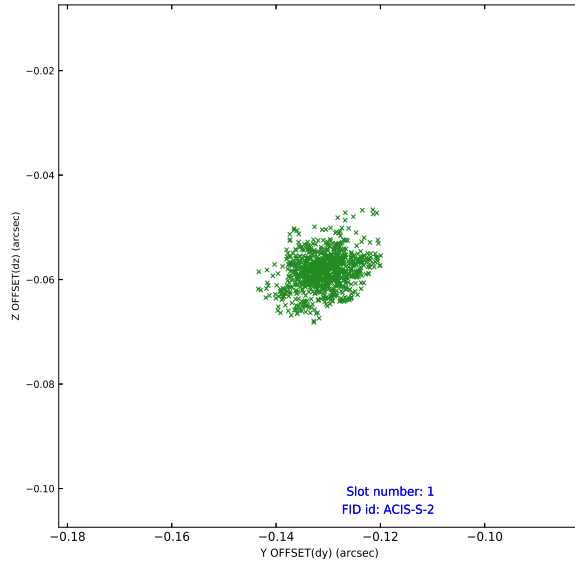


2.5 FID Slots

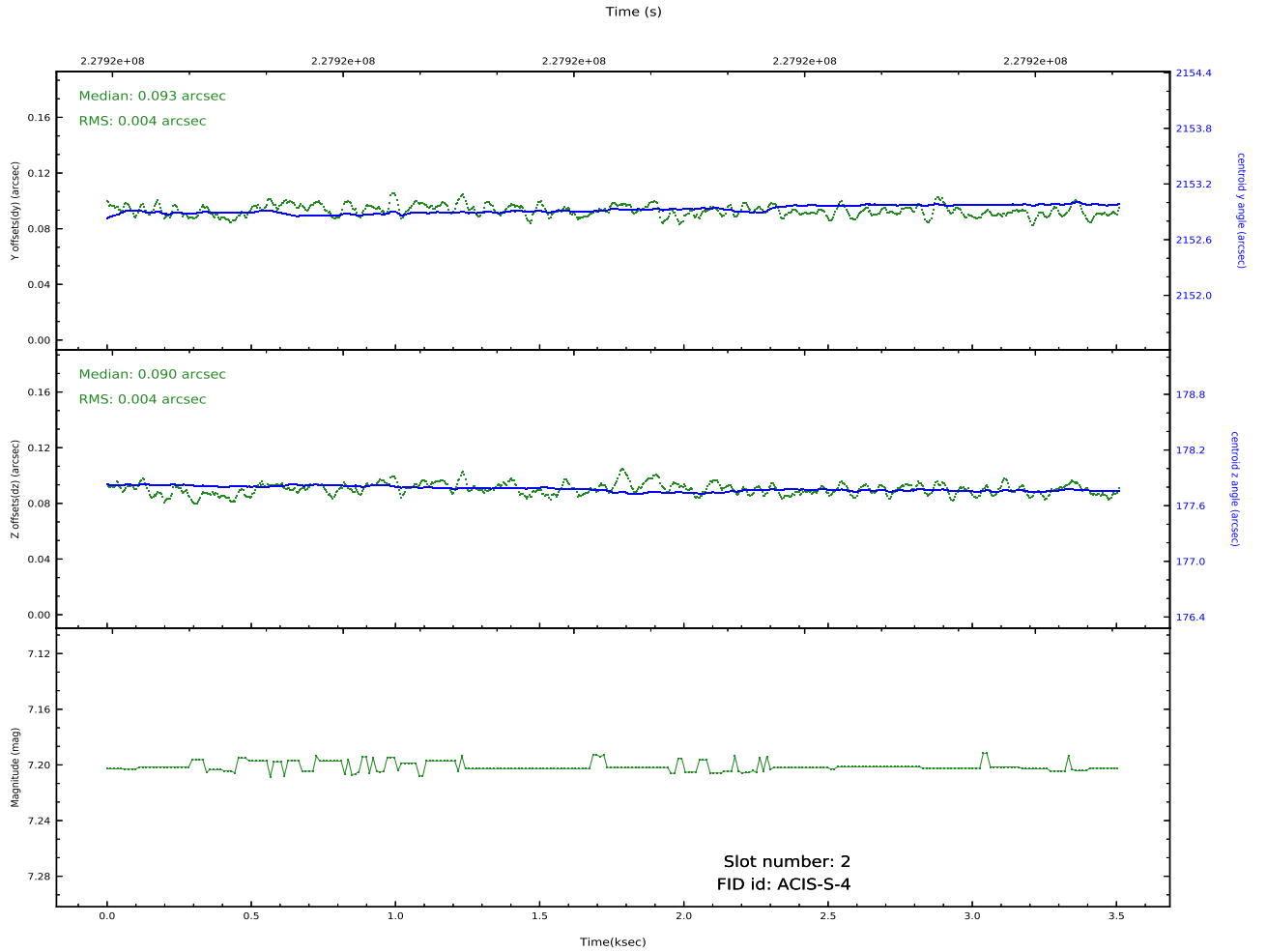
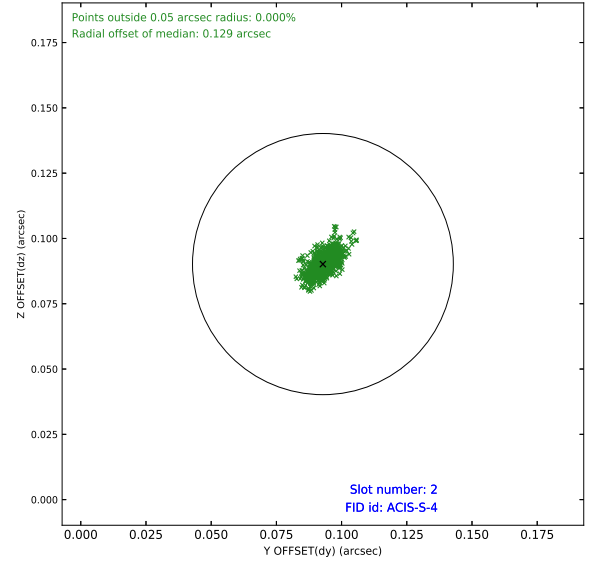
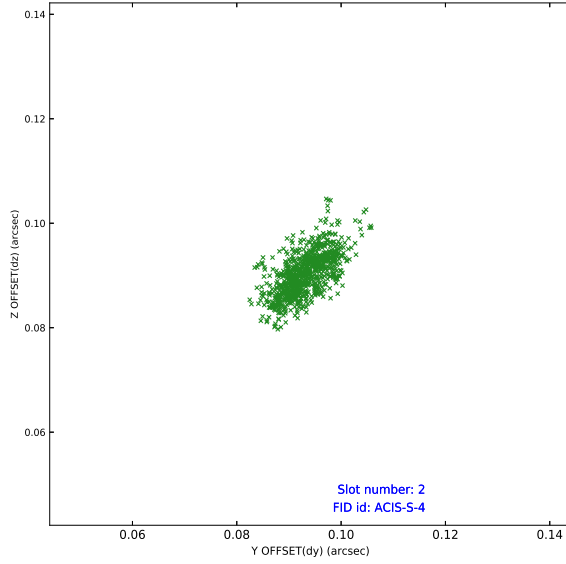
2.5.1 Slot 0



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)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.953599

A.2 Comments