

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5013 - L2 Version 4
Chandra X-Ray Center

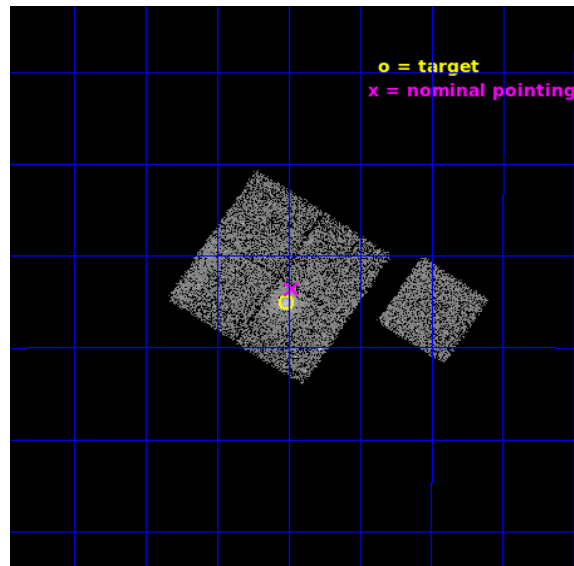
L2 Processing Date : Sep 26 2020

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1 Front

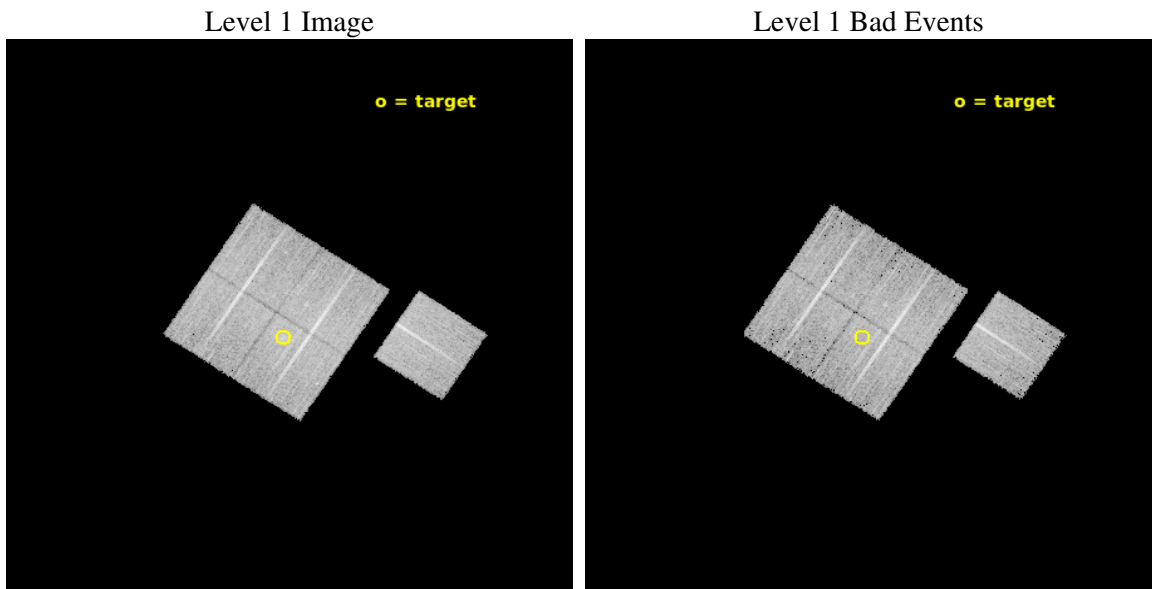
seq_num	800456	Sequence number
obs_id	5013	Observation id
title	Cluster studies: Determination of H0/q0	Proposal title
observer	DR. LEON VANSPEYBROECK	Principal investigator
object	MACS0140.0-0555	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	25.004167	Observer's specified target RA [deg]
dec_targ	-5.917222	Observer's specified target Dec [deg]
ra_nom	24.994181866481	Nominal RA [deg]
dec_nom	-5.8930510871414	Nominal Dec [deg]
roll_nom	123.38547856905	Nominal Roll [deg]
revision	4	Processing version of data
ontime	10332.299980104	Sum of GTIs [s]
livetime	10197.300874335	Livetime [s]
ontime0	10329.159039795	Sum of GTIs [s]
ontime1	10332.299980104	Sum of GTIs [s]
ontime2	10329.159009874	Sum of GTIs [s]
ontime3	10332.299980104	Sum of GTIs [s]
ontime6	10329.159019858	Sum of GTIs [s]
l2events	27929	Number of level 2 events



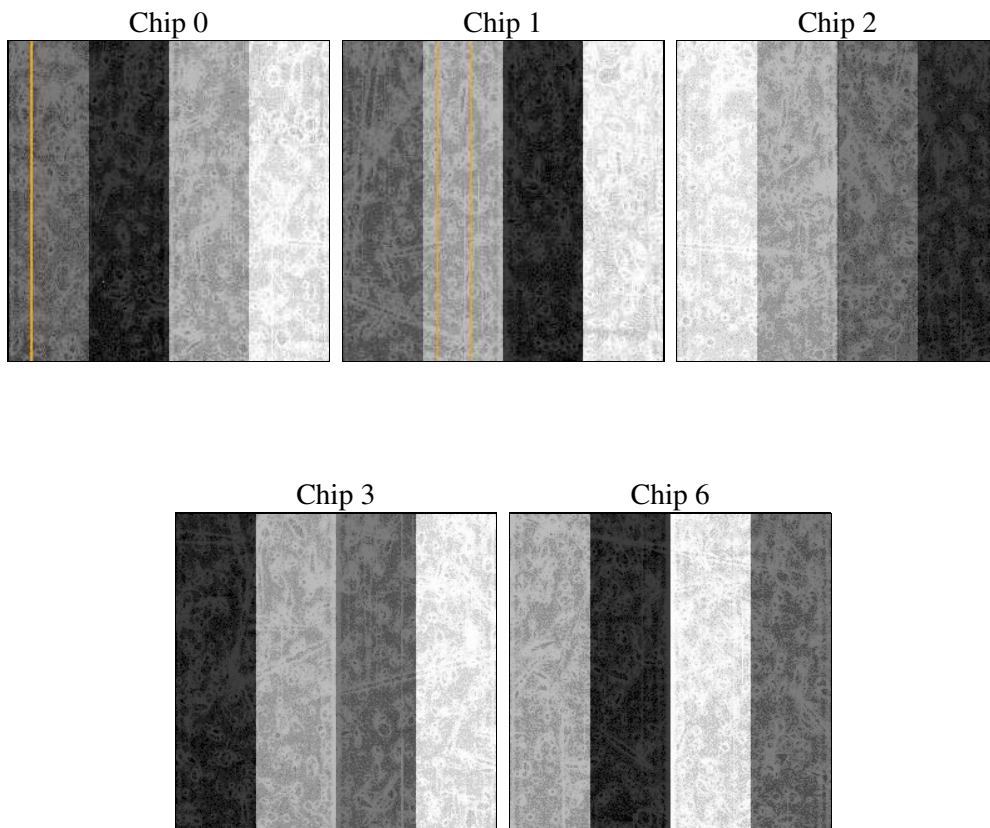
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10200.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	10332.299980104	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	10329.159039795	Sum of GTIs [s]
date	2020-09-26T10:24:51	Date and time of file creation	ontime1	10332.299980104	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	10329.159009874	Sum of GTIs [s]
			ontime3	10332.299980104	Sum of GTIs [s]
			ontime6	10329.159019858	Sum of GTIs [s]
			l1events	323755	Number of level 1 events

2.1.4 Events

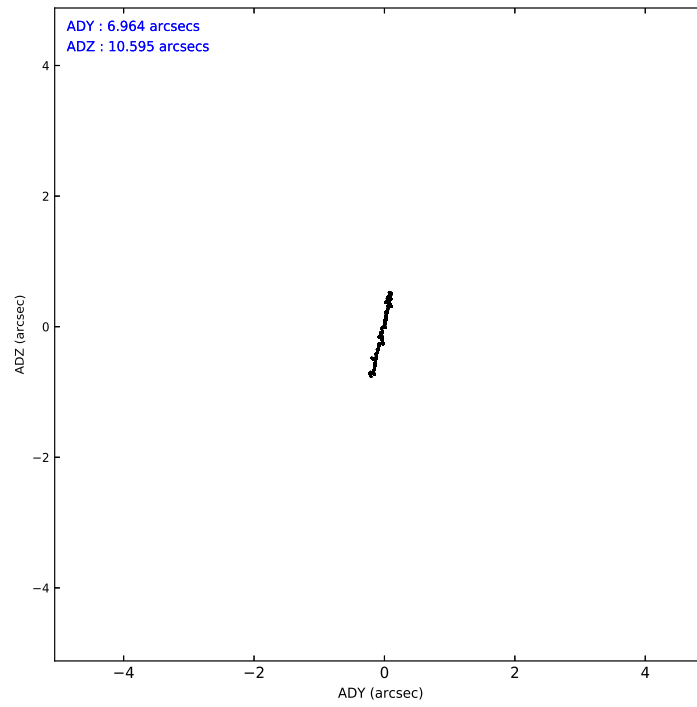
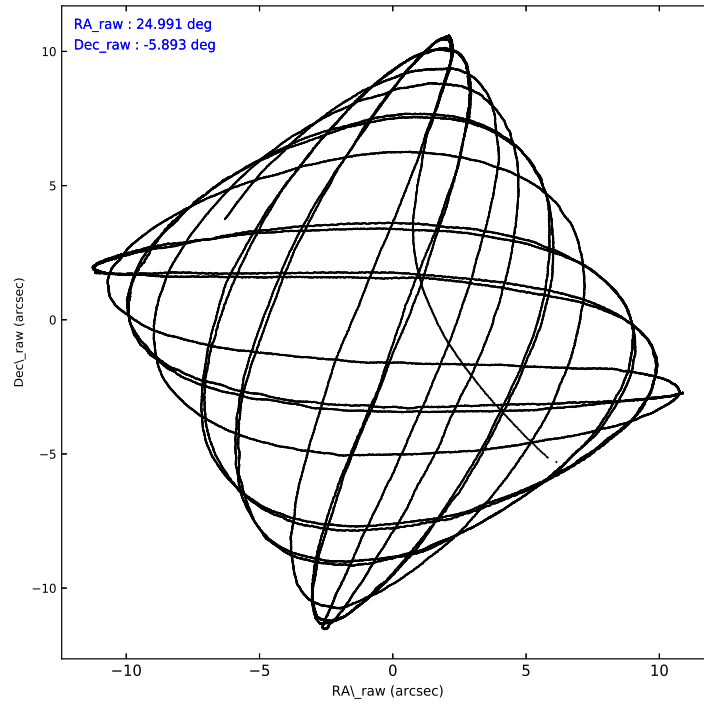
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	60861	61477	67508	67432	66477
rejected events	54496	54356	61390	59514	60196
rejected %	89%	88%	90%	88%	90%

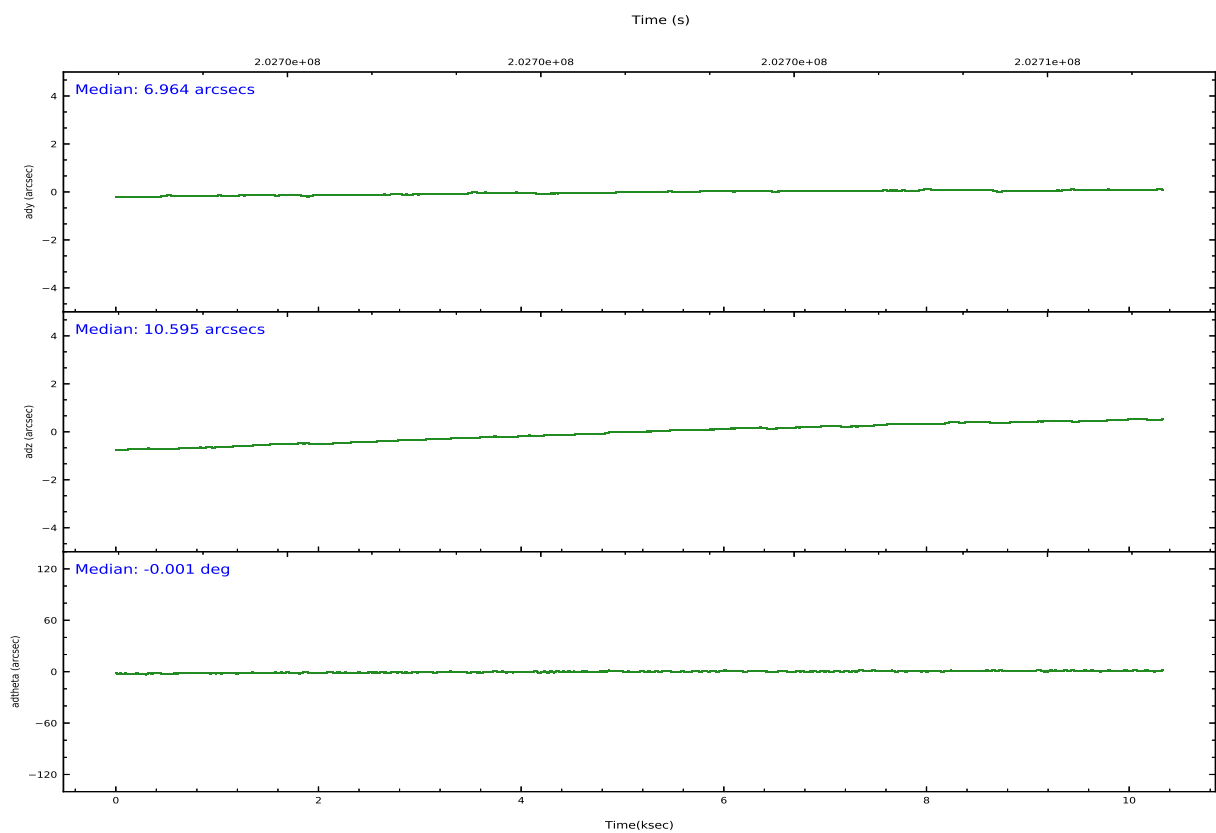
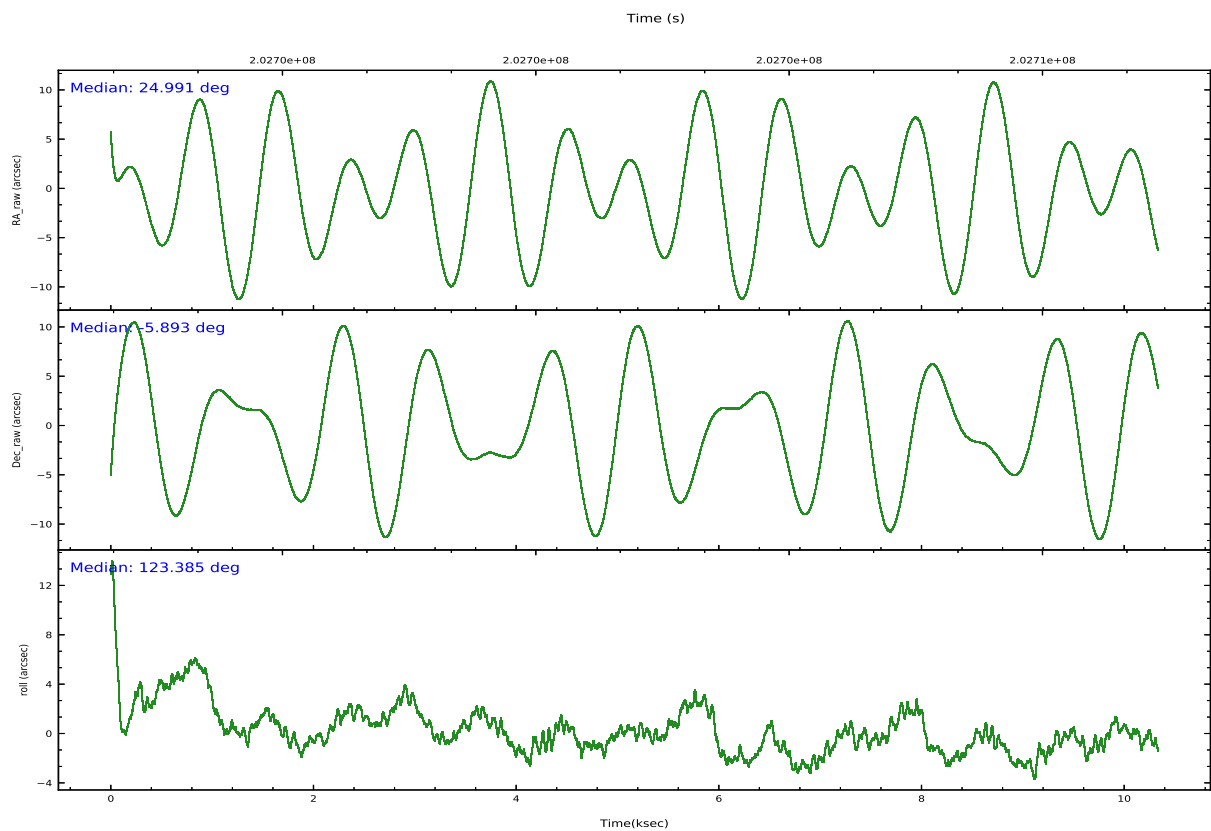
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2224	2588	2238	3885	2220
	3%	4%	3%	5%	3%
grade 1 events	32	31	35	40	28
	0%	0%	0%	0%	0%
grade 2 events	1611	1597	1473	1473	1403
	2%	2%	2%	2%	2%
grade 3 events	842	816	678	791	759
	1%	1%	1%	1%	1%
grade 4 events	695	827	717	813	750
	1%	1%	1%	1%	1%
grade 5 events	2400	2523	2174	2530	2619
	3%	4%	3%	3%	3%
grade 6 events	1204	1520	1200	1205	1372
	1%	2%	1%	1%	2%
grade 7 events	51853	51575	58993	56695	57326
	85%	83%	87%	84%	86%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	25.015145	24.994181866481	Subarray requested	NONE	NONE
[deg] Pointing Dec	-5.905293	-5.8930510871414	Alternating exposures requested	N	N
[deg] Pointing Roll	123.183299	123.38547856905	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-229.442463	-229.4438428438578			
[mm] SIM translation stage offset	-4.15	-4.148610159071865			
[s] Observation start time (MET)	202698442.184000	202697293.9858			
Observation start date	2004-06-04T01:06:18	2004-06-04T00:48:13			
[s] Observation end time (MET)	202708642.184000	202709432.03634			
Observation end date	2004-06-04T03:56:18	2004-06-04T04:10:32			
Read mode	TIMED	TIMED			

2.3 Aspect



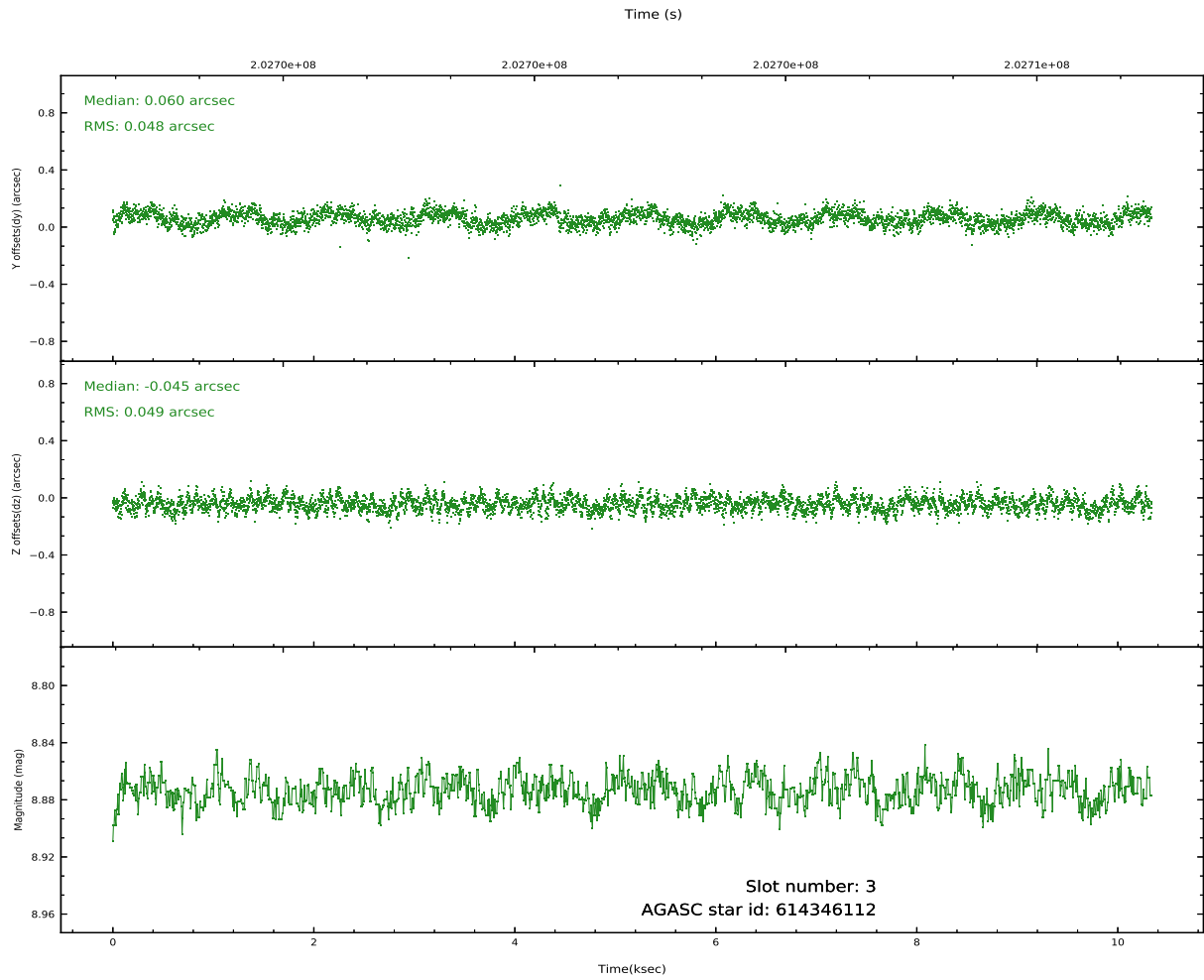
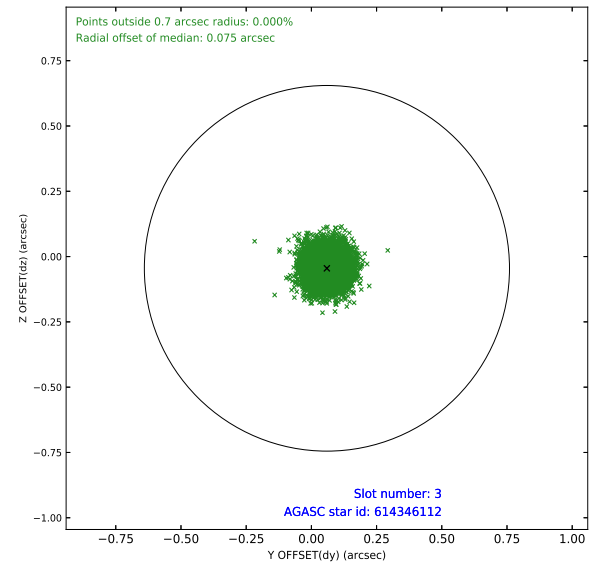
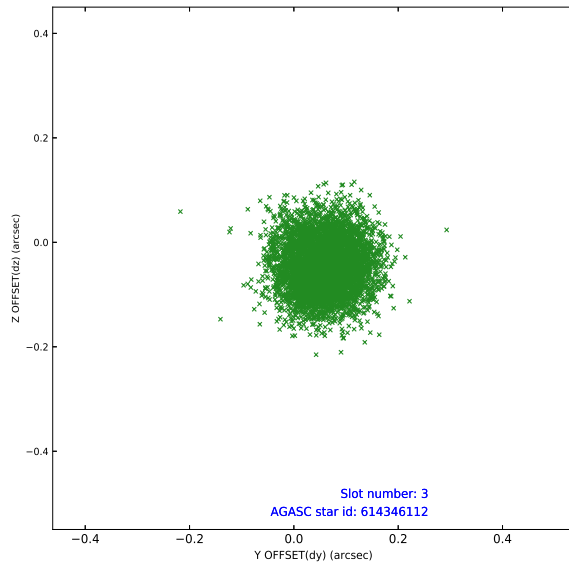


Slot Statistics

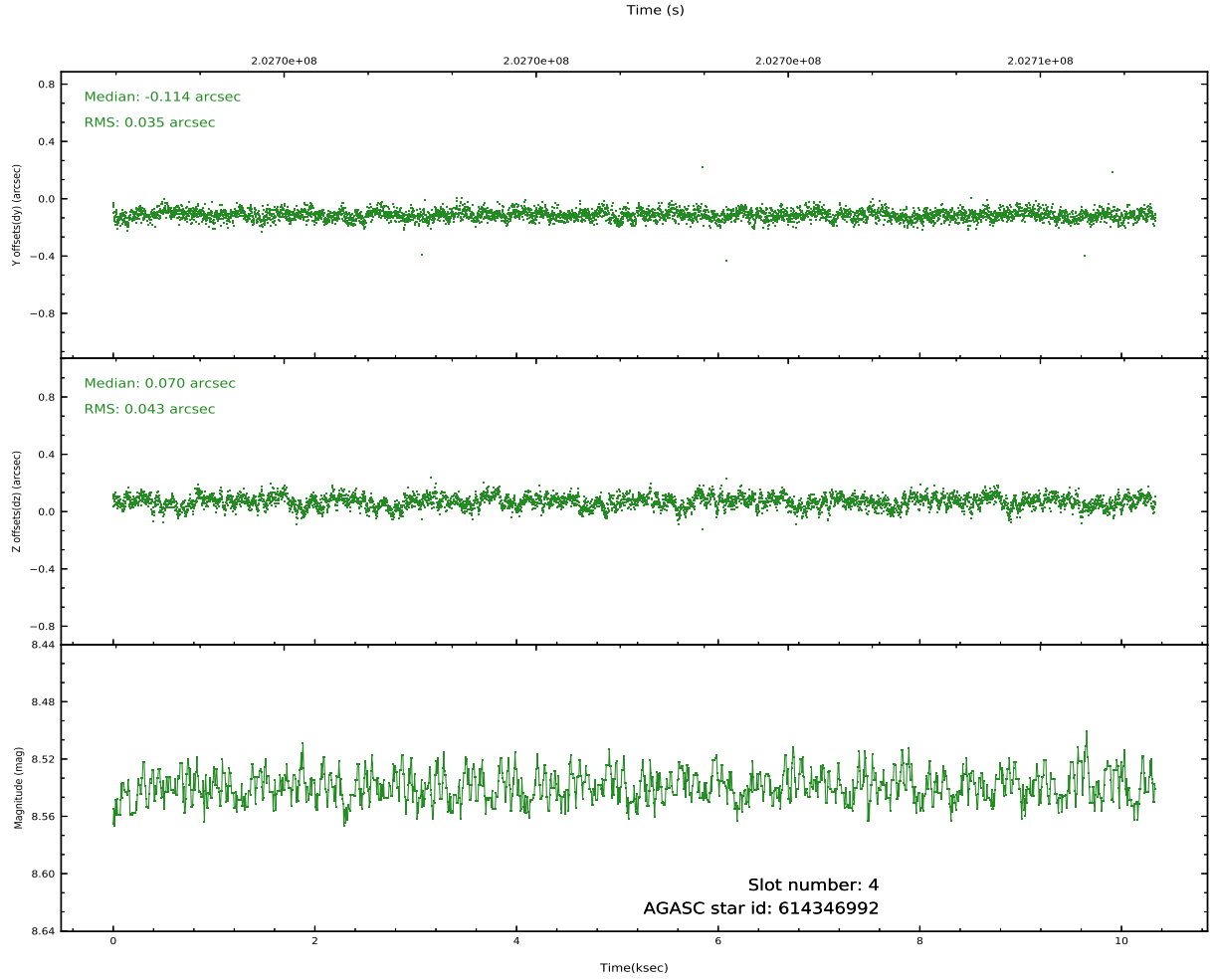
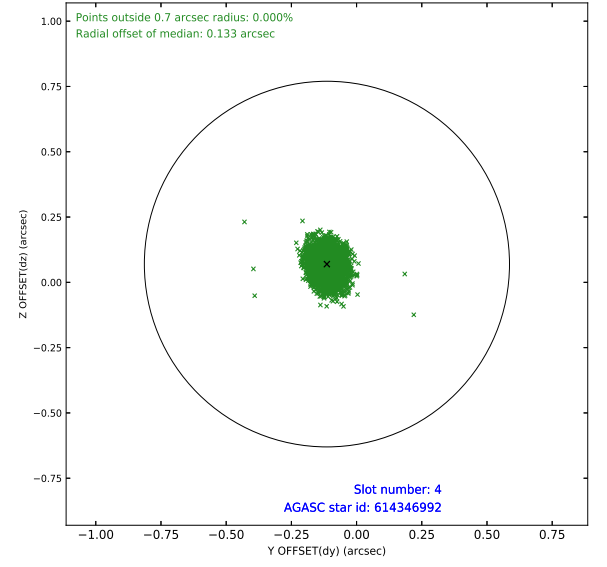
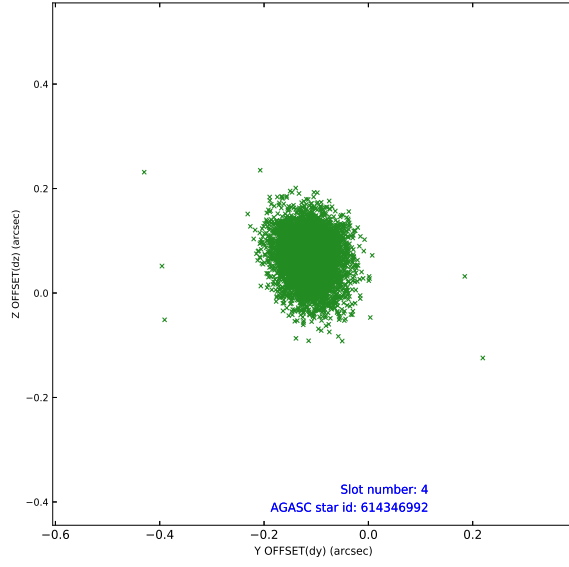
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	2521	1.000	0.080	-0.050	0.012	0.022	0.000000	0.000000	932.74	-919
1	FID		ACIS-I-5	7.22	2521	1.000	-0.223	0.077	0.012	0.020	0.000000	0.000000	-1815.37	978
2	FID		ACIS-I-6	7.25	2521	1.000	0.053	0.045	0.012	0.019	0.000000	0.000000	397.73	1623
3	GUIDE	used	614346112	8.87	5042	1.000	0.060	-0.045	0.074	0.116	25.317381	-6.037294	-990.13	-645
4	GUIDE	used	614346992	8.54	5042	1.000	-0.114	0.070	0.058	0.097	25.244875	-5.403615	1060.69	-1676
5	GUIDE	used	614350984	9.45	5039	1.000	-0.074	-0.028	0.085	0.136	24.289818	-5.710471	2007.53	1791
6	GUIDE	used	614351496	8.14	5038	1.000	-0.021	0.143	0.064	0.099	25.217205	-6.162663	-1171.02	-97
7	GUIDE	used	614336552	9.23	5039	1.000	0.148	-0.138	0.087	0.137	25.065470	-6.628544	-2277.99	1274

2.4 Star Slots

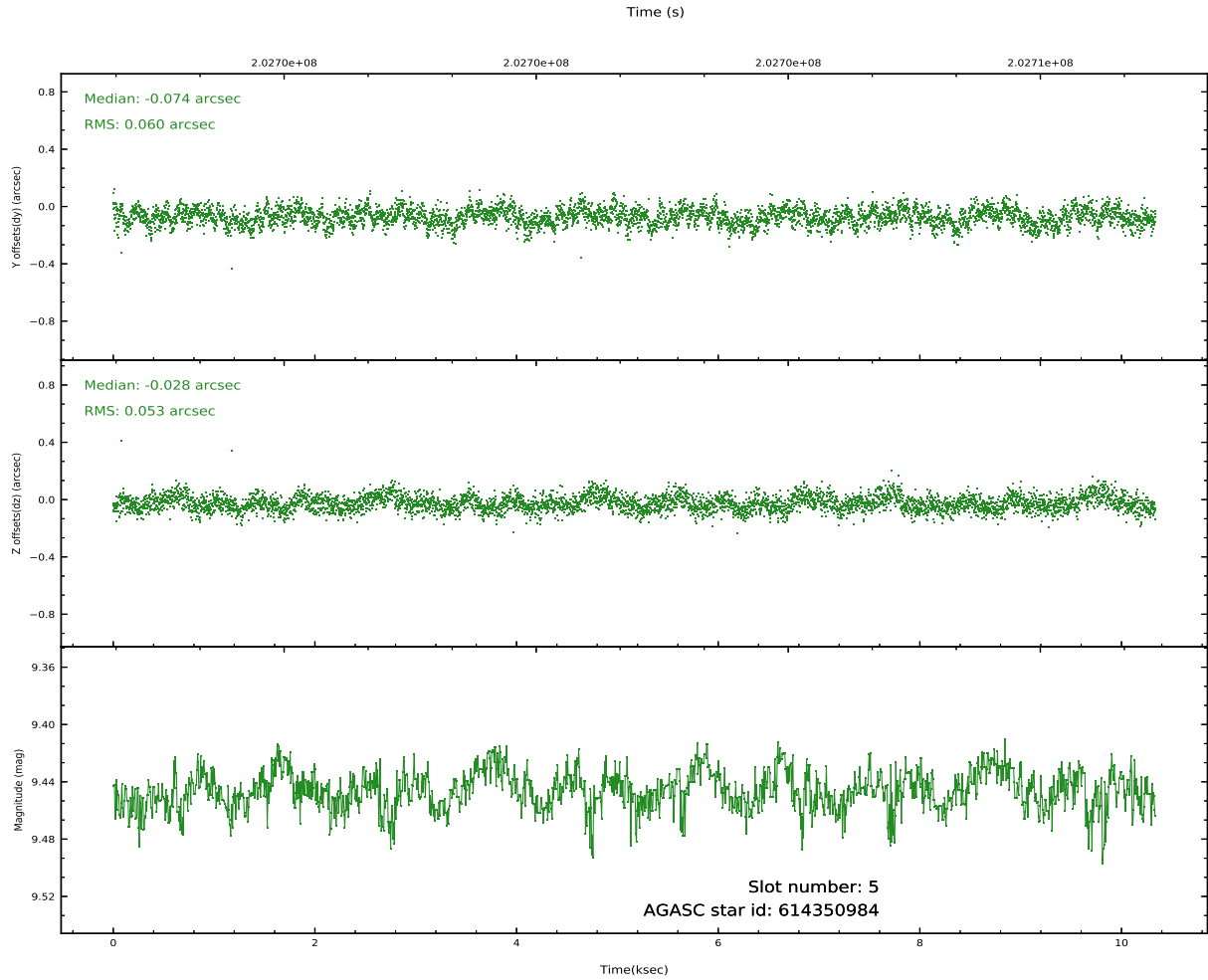
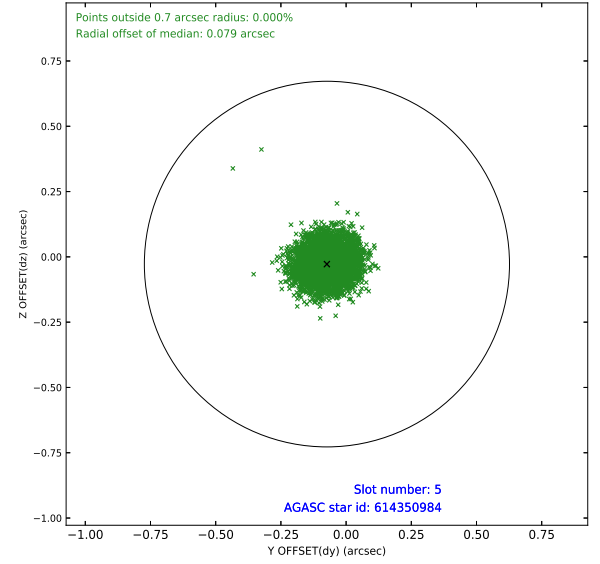
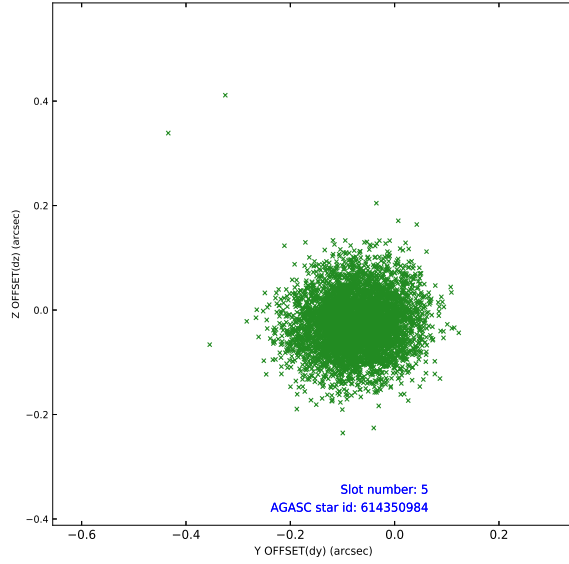
2.4.1 Slot 3



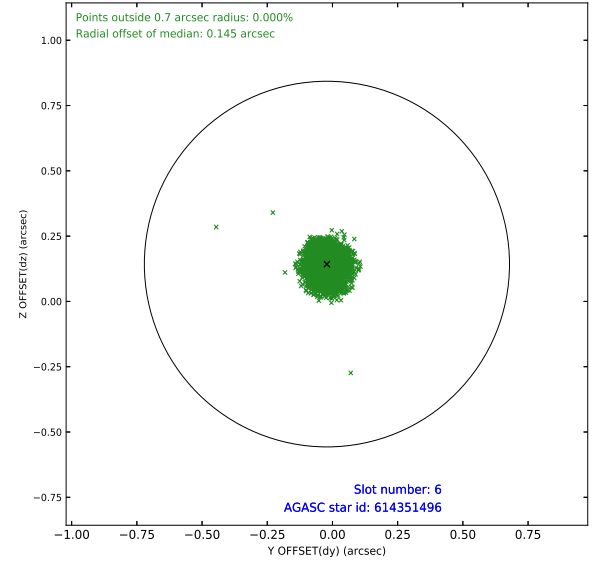
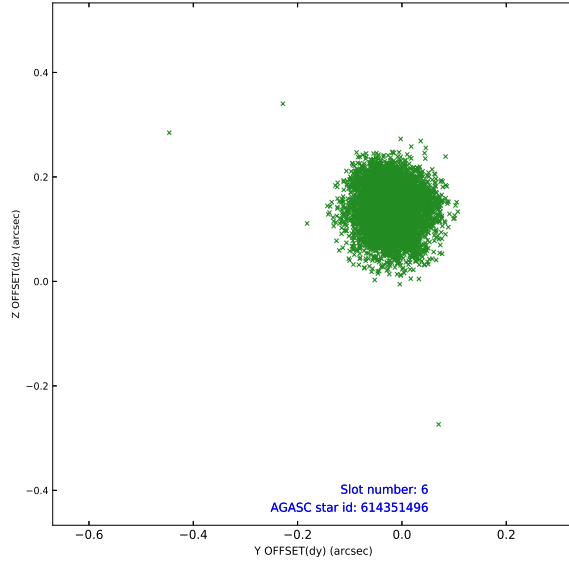
2.4.2 Slot 4



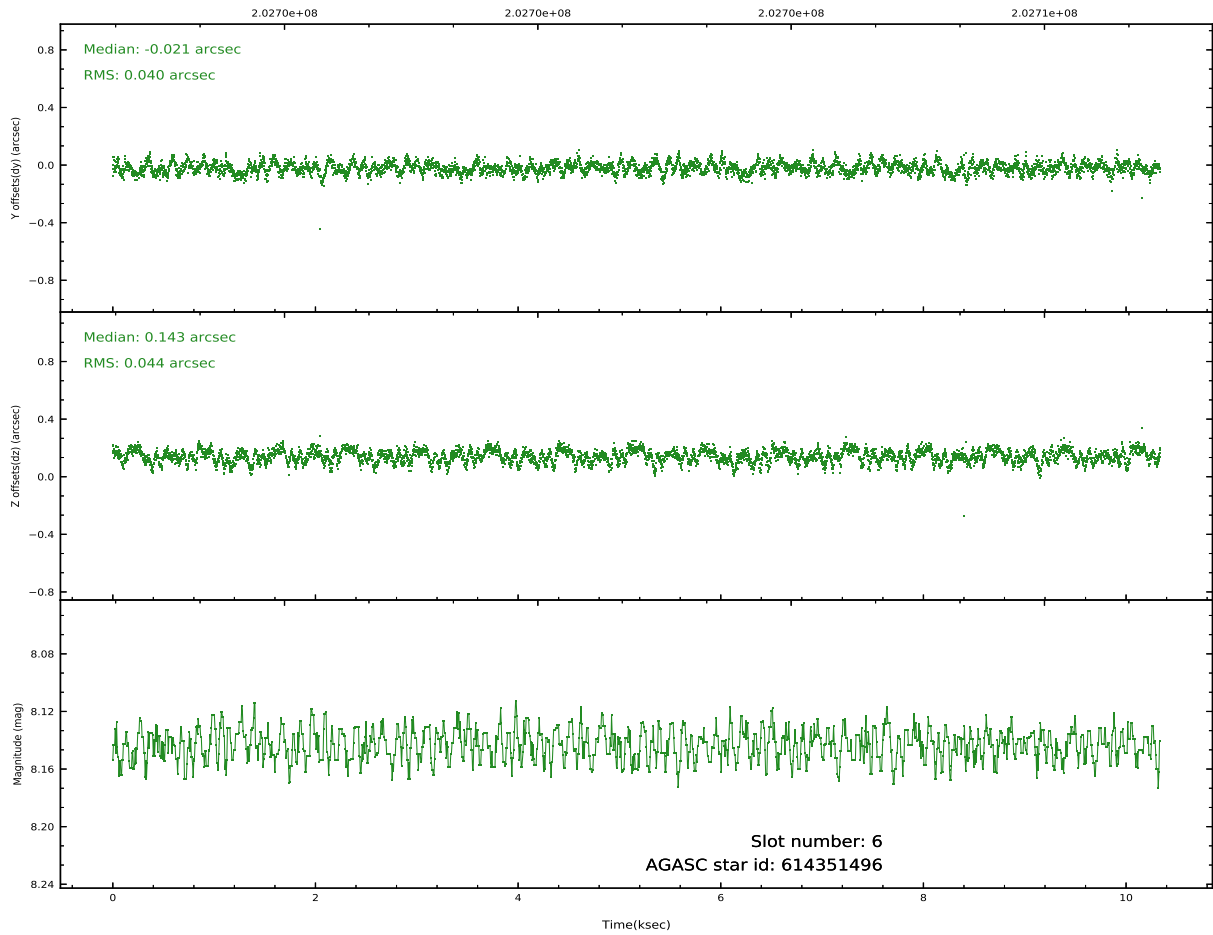
2.4.3 Slot 5



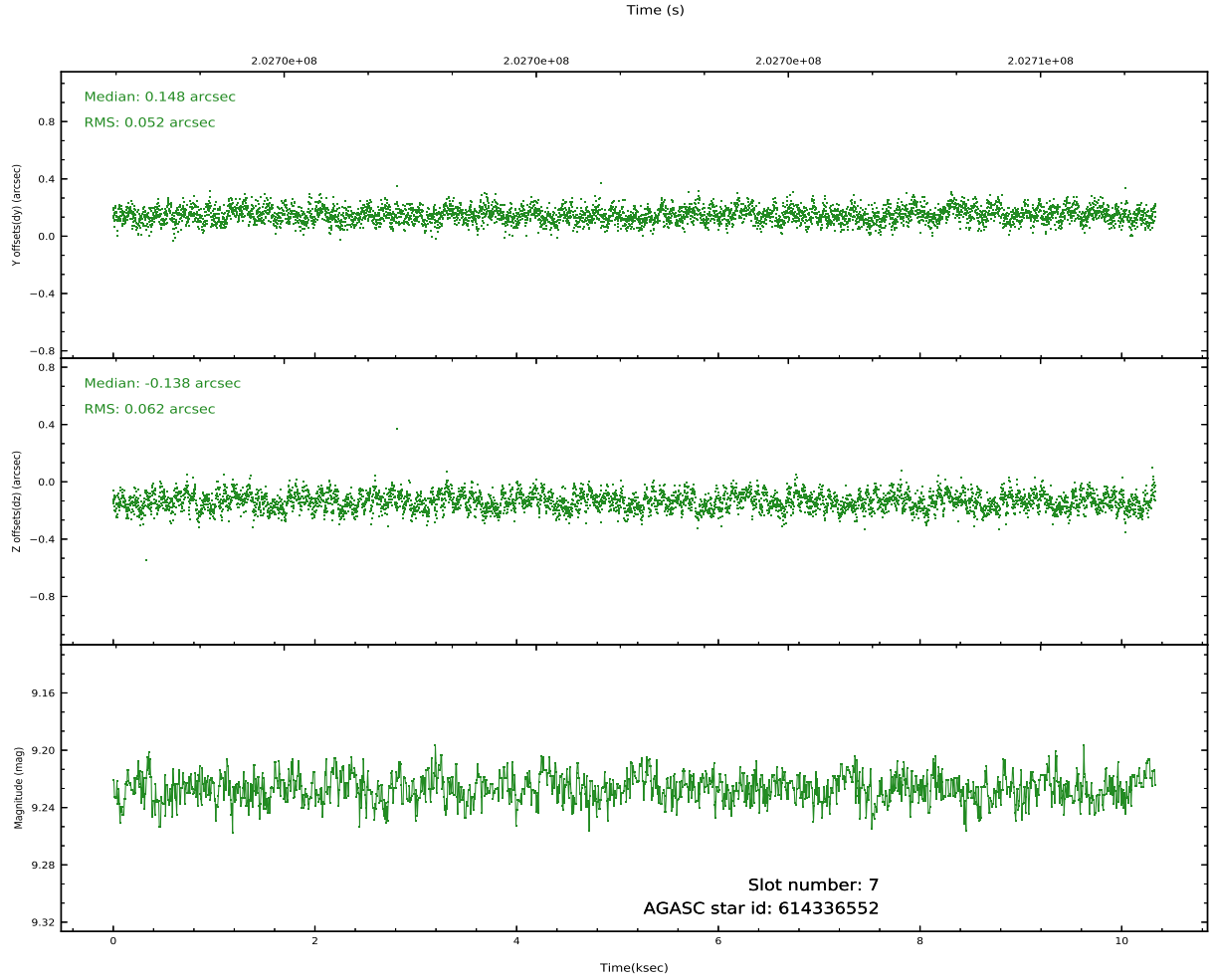
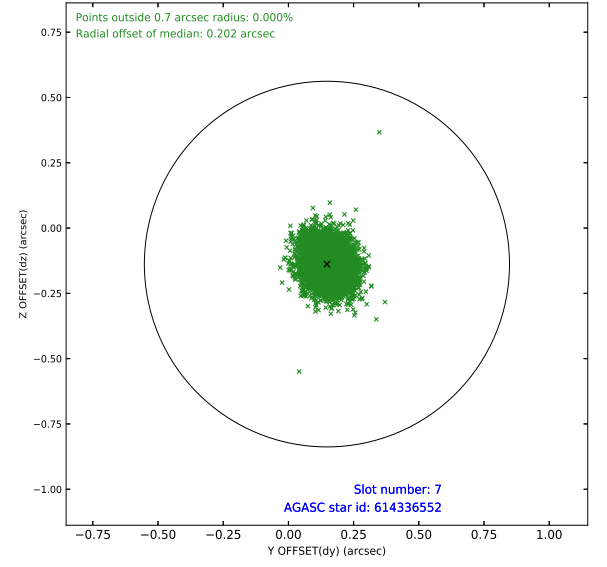
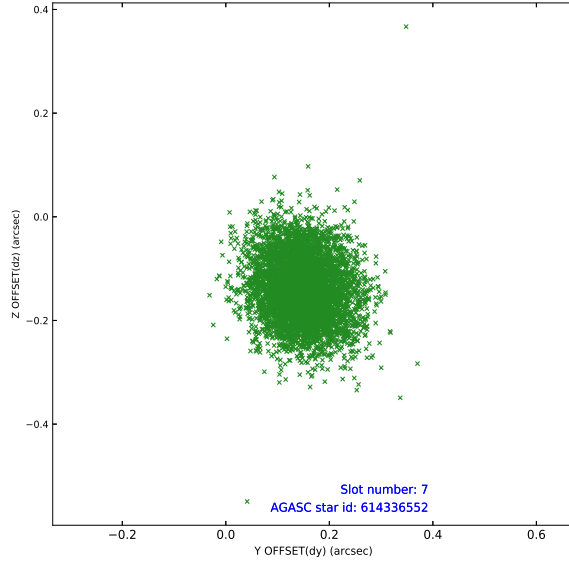
2.4.4 Slot 6



Time (s)

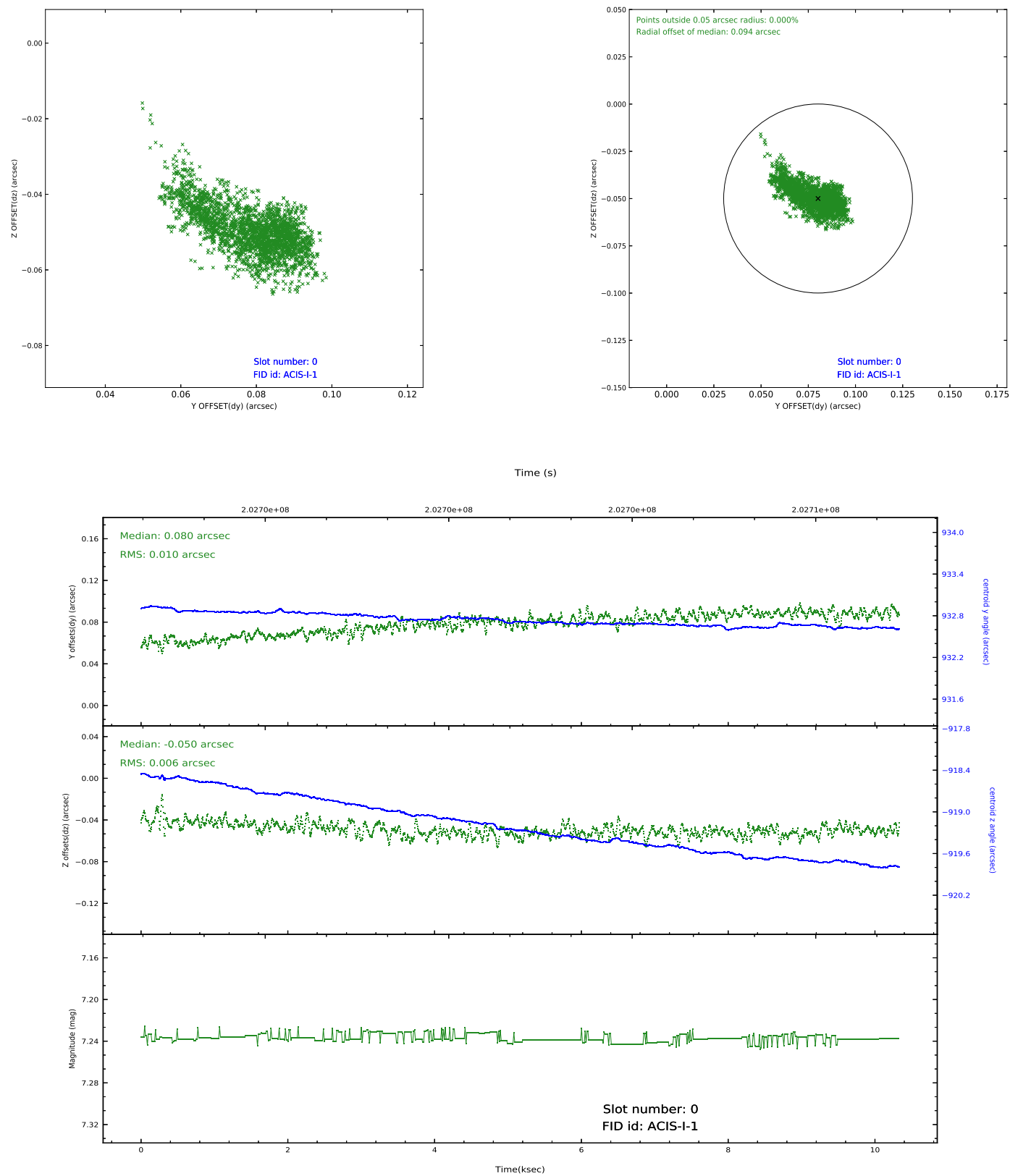


2.4.5 Slot 7

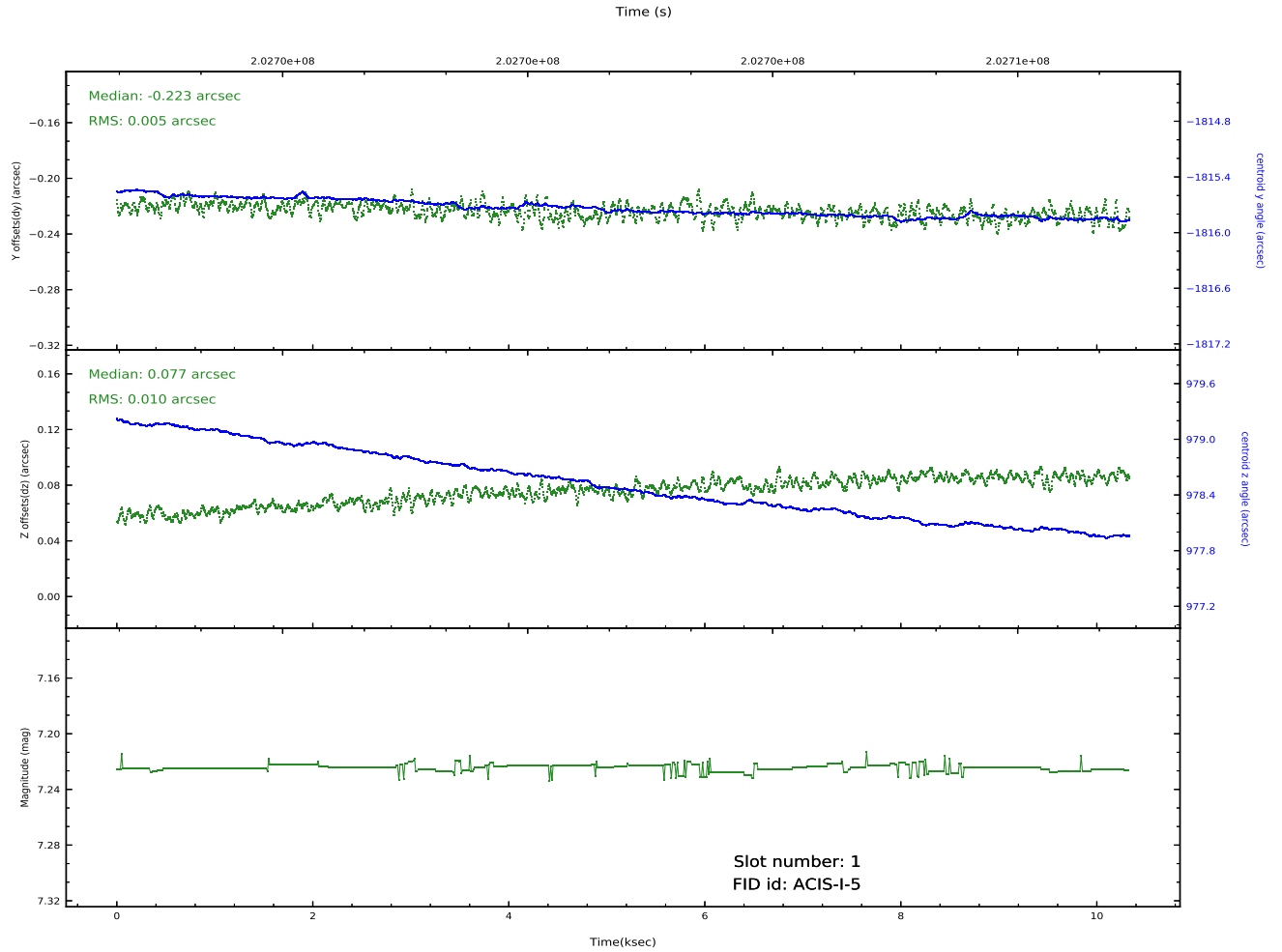
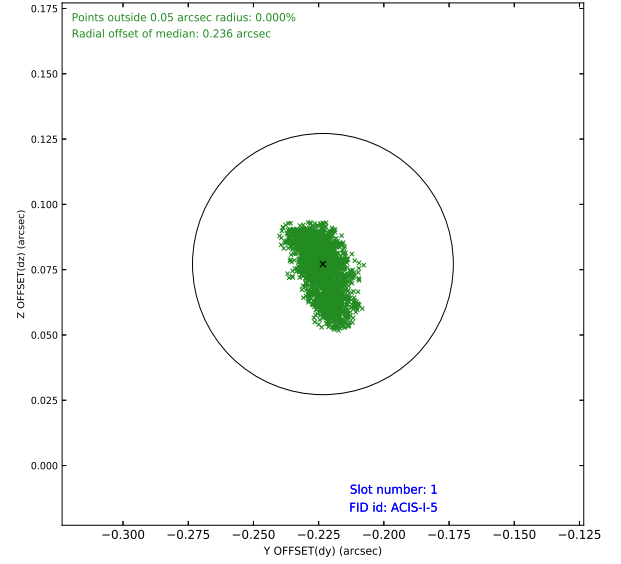
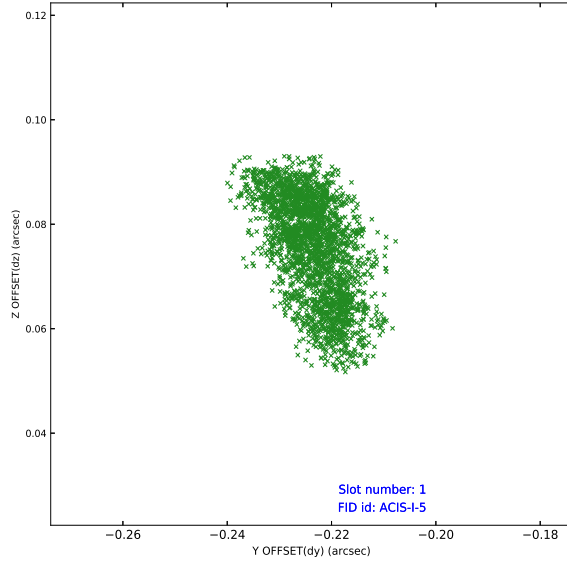


2.5 FID Slots

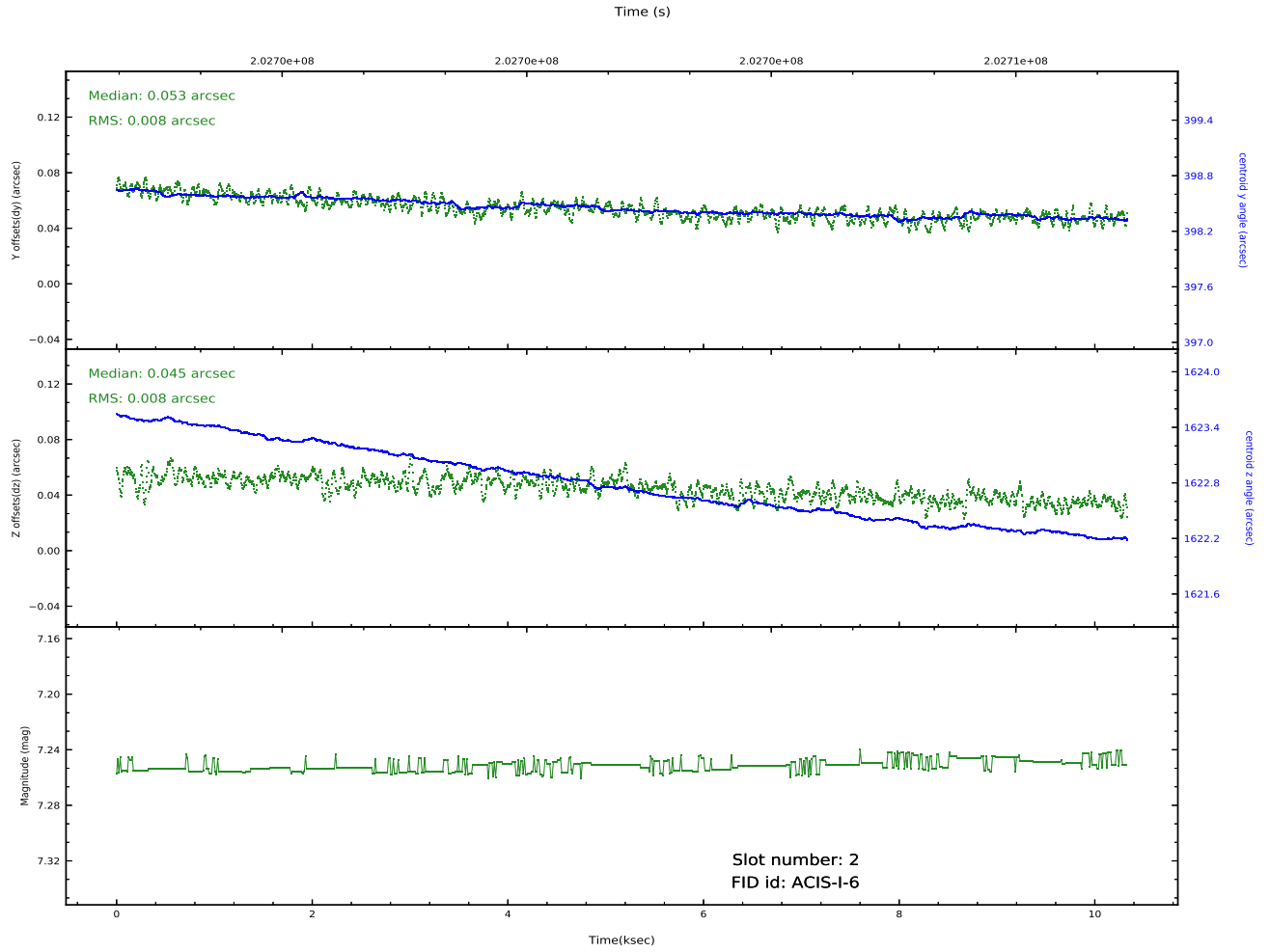
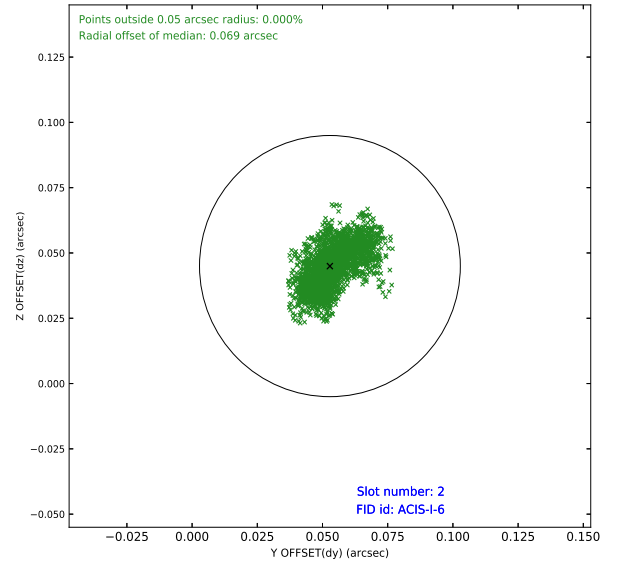
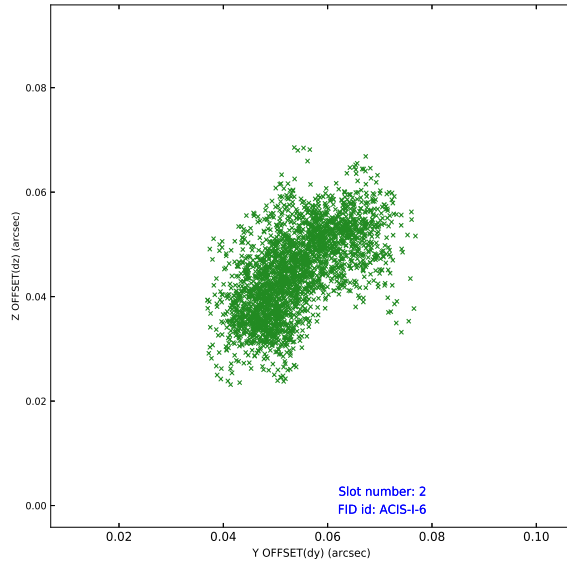
2.5.1 Slot 0



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)	2020.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.332

A.2 Comments