

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20911 - L2 Version 2
Chandra X-Ray Center

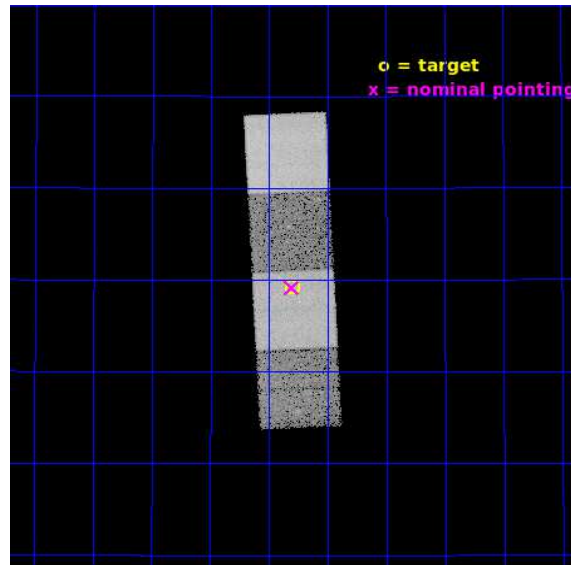
L2 Processing Date : Oct 24 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

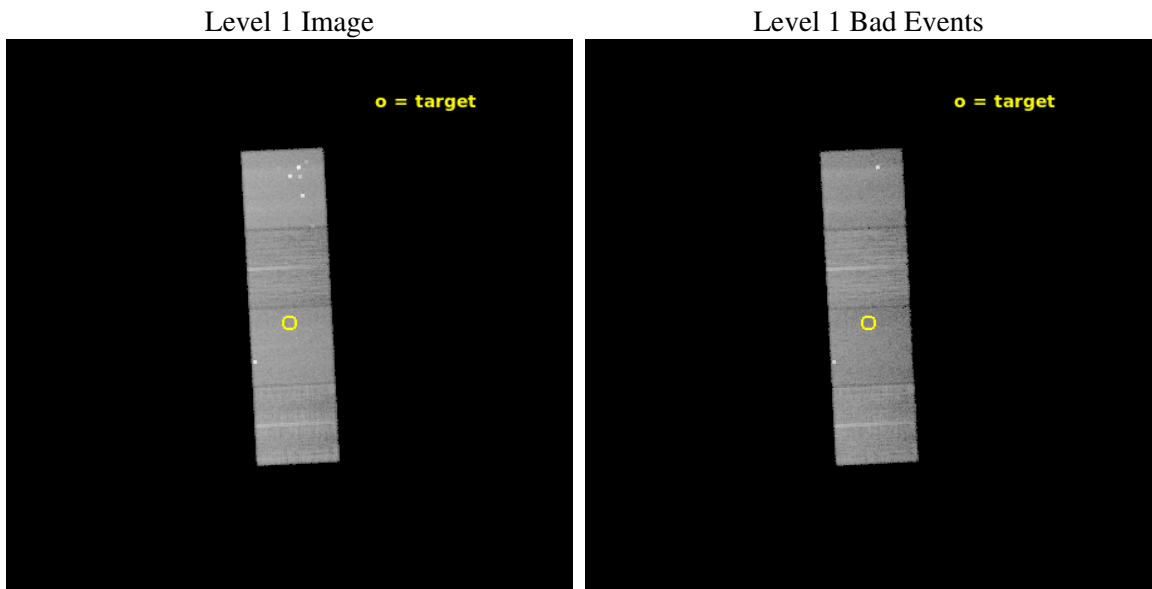
seq_num	703354	Sequence number
obs_id	20911	Observation id
title	WISE Discovery of the Largest Sample of Obscured Dual AGNs: A Chandra and NuSTAR Follow-up	Proposal title
observer	Shobita Satyapal	Principal investigator
object	J1045+3519	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	161.325	Observer's specified target RA [deg]
dec_targ	35.320333	Observer's specified target Dec [deg]
ra_nom	161.32636647877	Nominal RA [deg]
dec_nom	35.319220579552	Nominal Dec [deg]
roll_nom	87.1508884147	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15058.774912477	Sum of GTIs [s]
livetime	14862.020932136	Livetime [s]
ontime5	15058.733872533	Sum of GTIs [s]
ontime6	15058.69283247	Sum of GTIs [s]
ontime7	15058.774912477	Sum of GTIs [s]
ontime8	15058.651792526	Sum of GTIs [s]
l2events	161917	Number of level 2 events



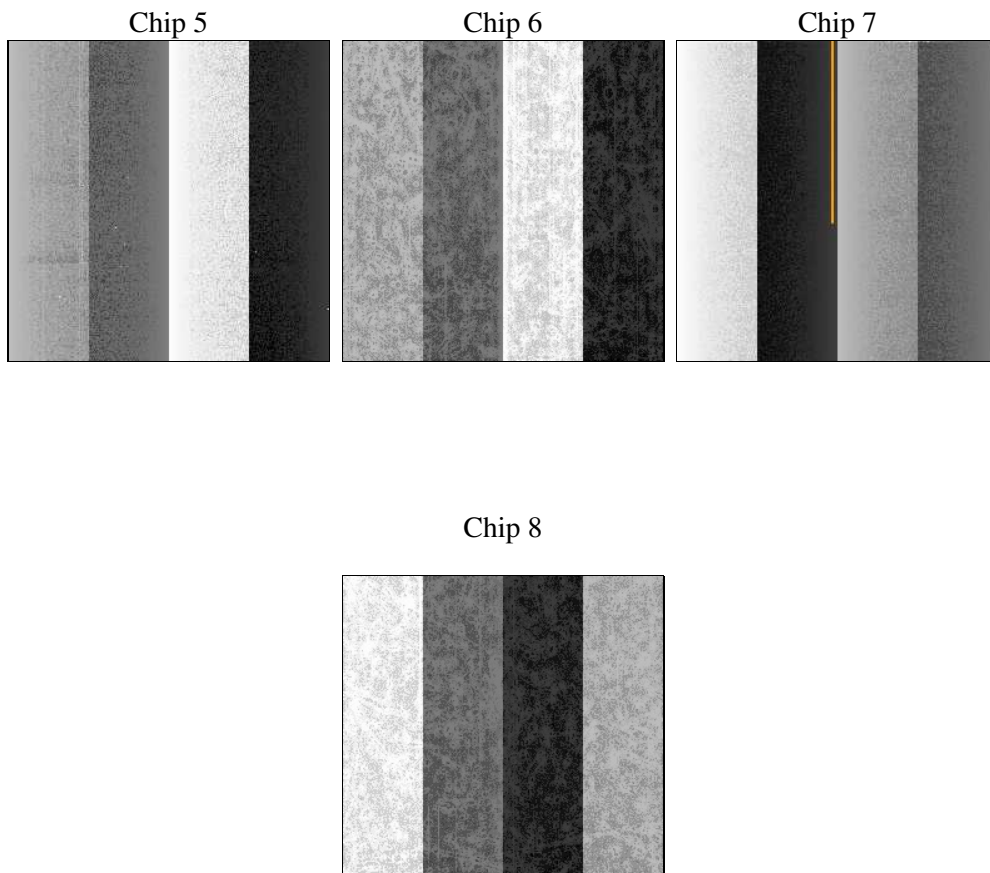
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	15058.774912477	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	15058.733872533	Sum of GTIs [s]
date	2020-10-24T06:18:57	Date and time of file creation	ontime6	15058.69283247	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	15058.774912477	Sum of GTIs [s]
			ontime8	15058.651792526	Sum of GTIs [s]
			l1events	602502	Number of level 1 events

2.1.4 Events

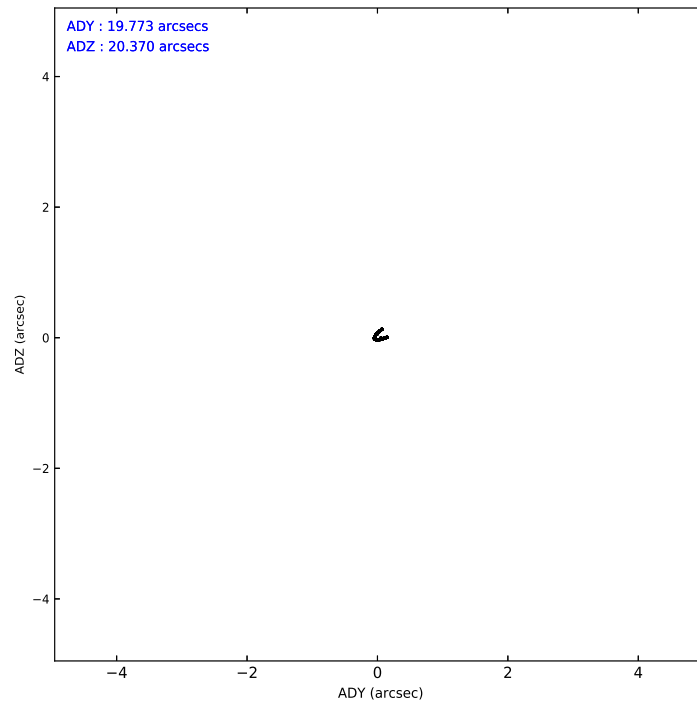
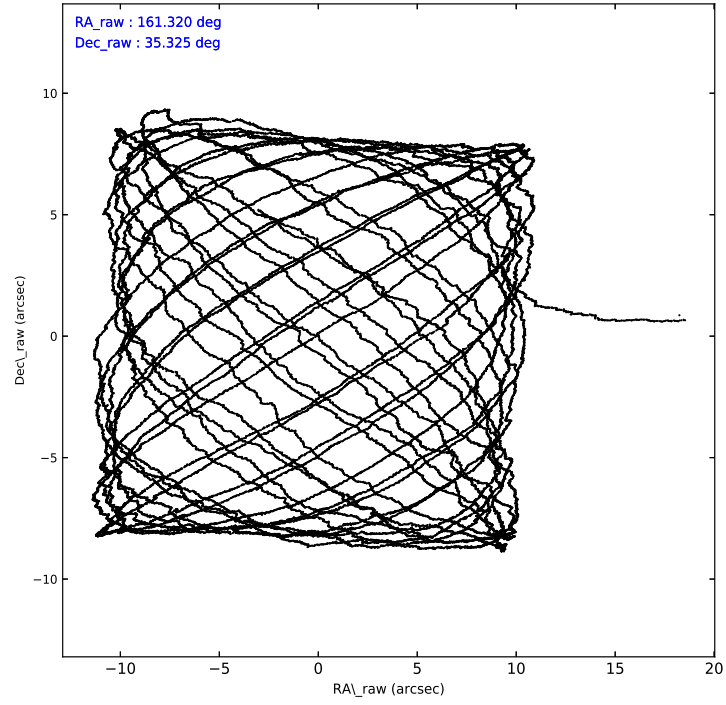
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	192276	119582	147531	143113
rejected events	96616	107072	83417	108102
rejected %	50%	89%	56%	75%

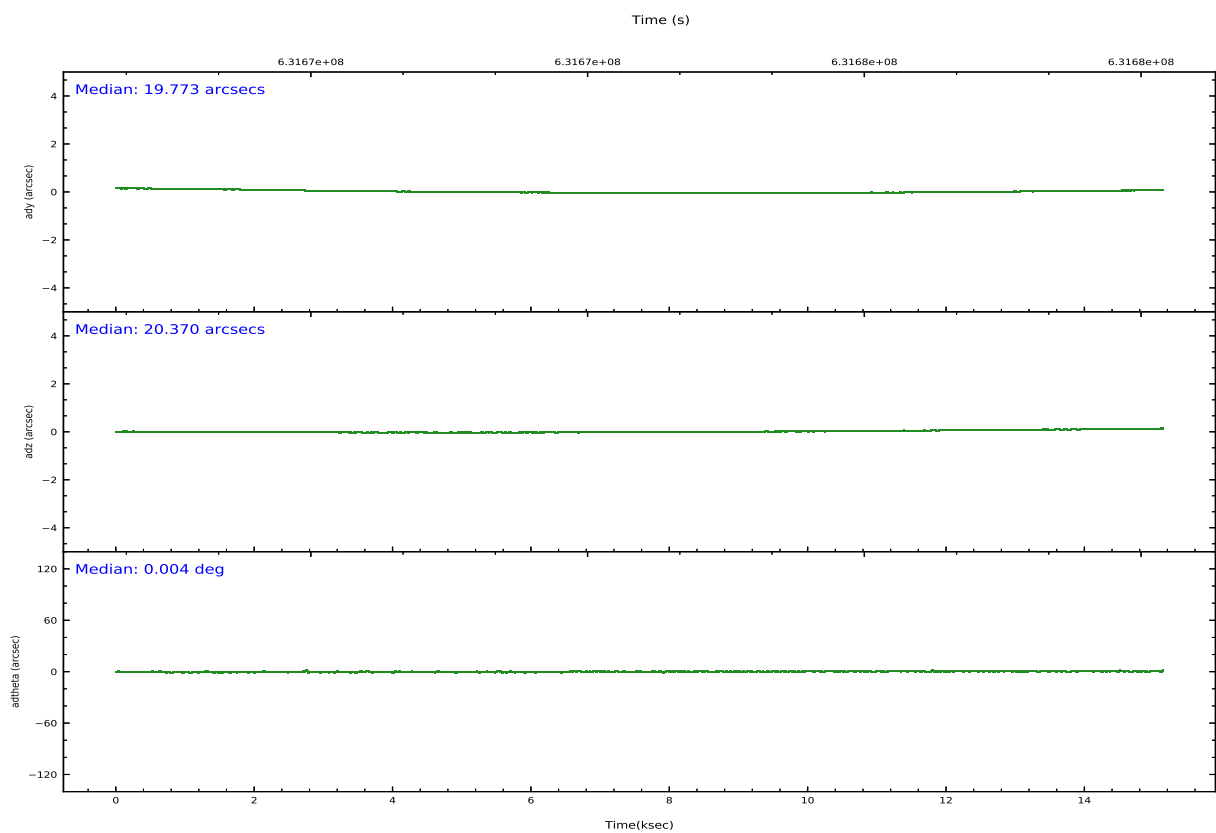
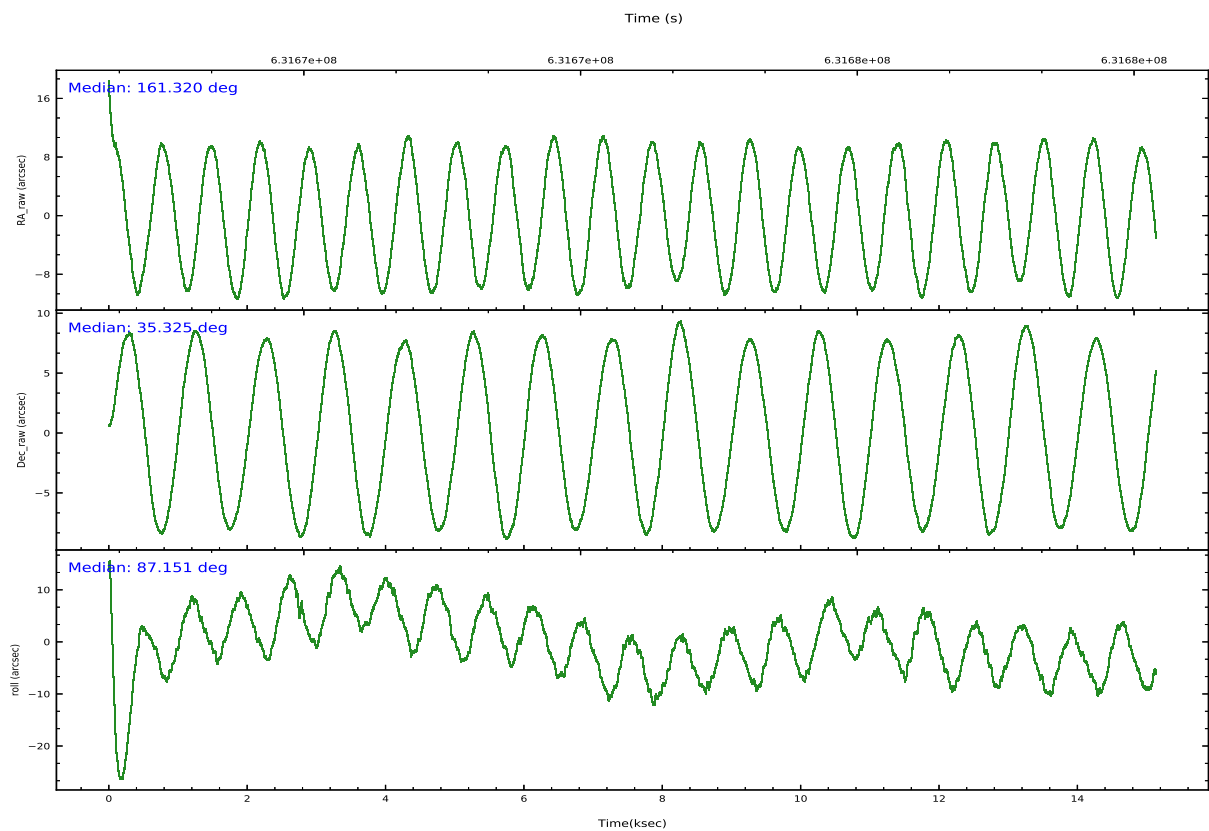
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	15165	3721	5142	9761
	7%	3%	3%	6%
grade 1 events	458	39	193	109
	0%	0%	0%	0%
grade 2 events	27899	3332	12721	8832
	14%	2%	8%	6%
grade 3 events	2568	1063	5060	3496
	1%	0%	3%	2%
grade 4 events	2424	1013	4822	3230
	1%	0%	3%	2%
grade 5 events	11844	4670	16080	7519
	6%	3%	10%	5%
grade 6 events	47637	3384	36393	9714
	24%	2%	24%	6%
grade 7 events	84281	102360	67120	100452
	43%	85%	45%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	161.335225	161.32636647877	CCD I2 on	N	N
[deg] Pointing Dec	35.300950	35.319220579552	CCD I3 on	N	N
[deg] Pointing Roll	86.994086	87.15088841470001	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O3	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	O2	Y
[s] Observation start time (MET)	631665319.184000	631663700.86963	CCD S5 on	N	N
Observation start date	2018-01-06T22:34:10	2018-01-06T22:08:20	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	631680319.184000	631680768.14564	On-chip summing requested	N	N
Observation end date	2018-01-07T02:44:10	2018-01-07T02:52:48	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



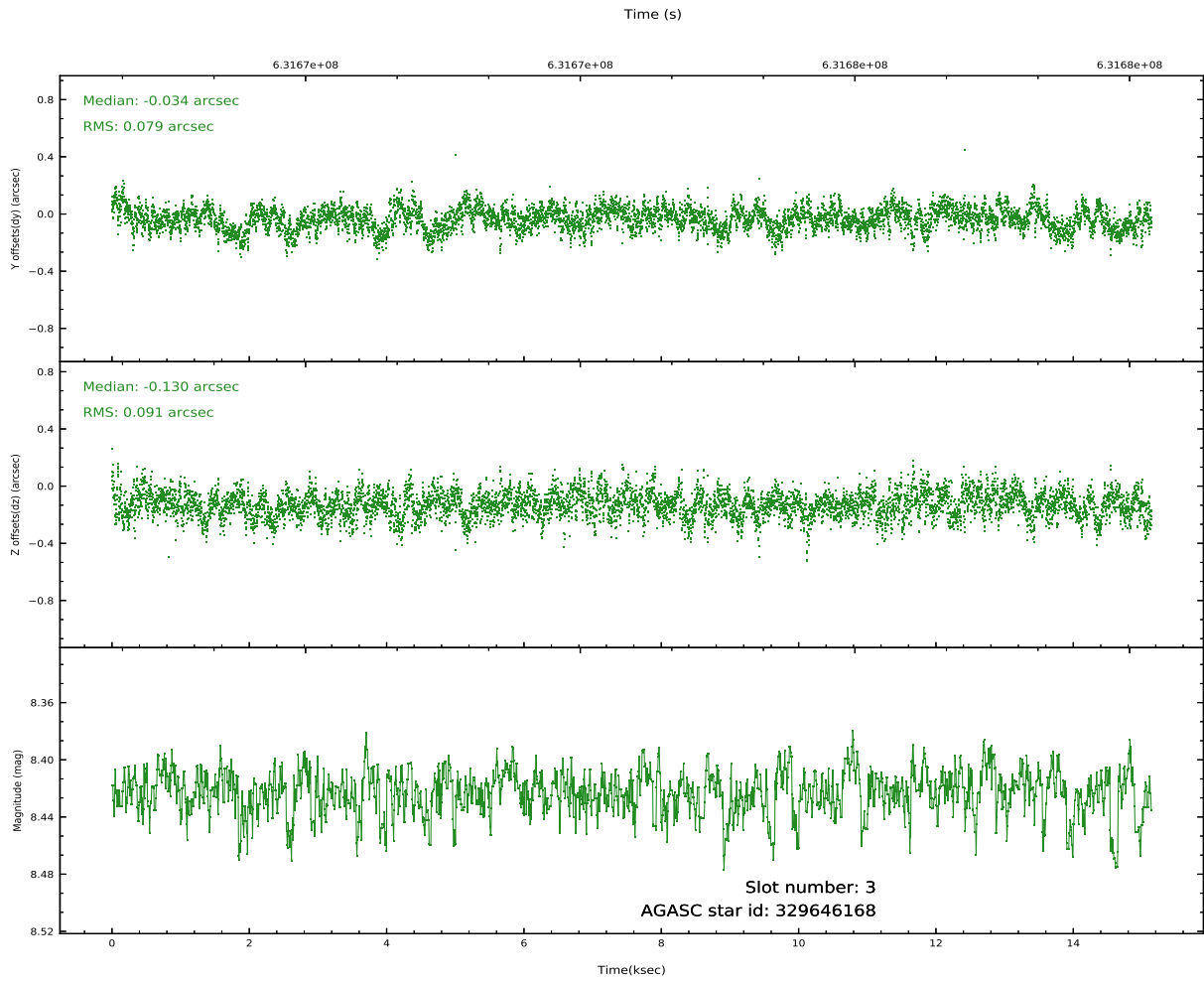
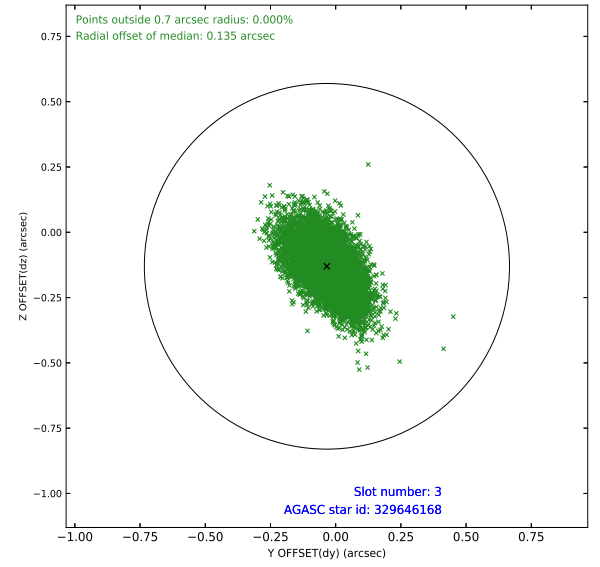
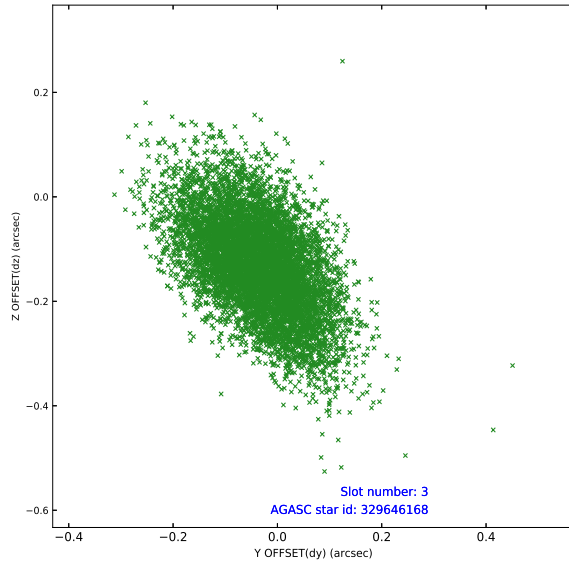


Slot Statistics

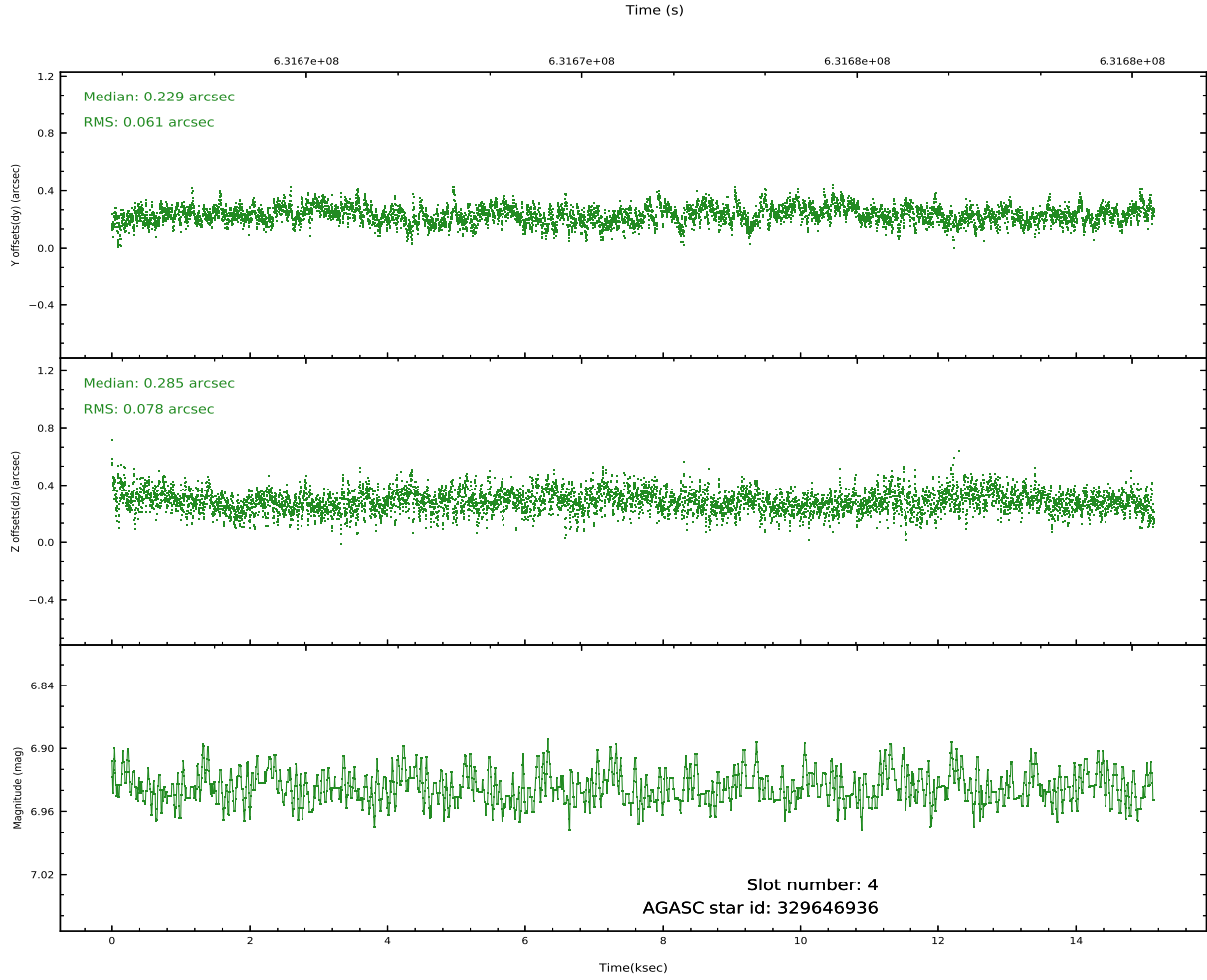
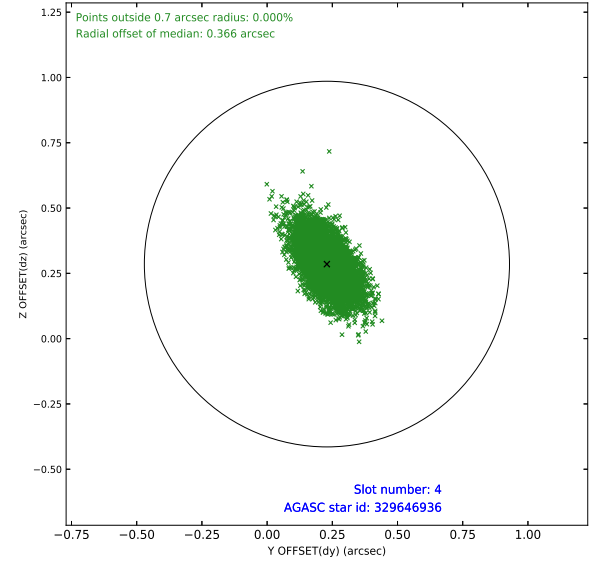
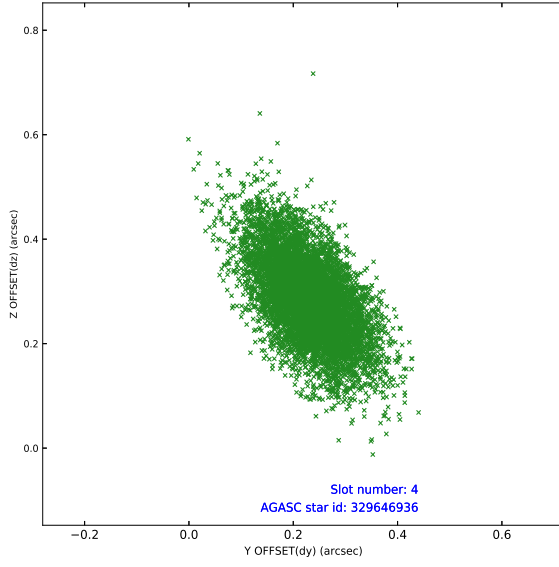
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.16	3692	1.000	0.091	-0.116	0.007	0.012	0.000000	0.000000	-773.04	-1741
1	FID		ACIS-S-4	7.28	3693	1.000	0.151	-0.013	0.007	0.014	0.000000	0.000000	2140.42	166
2	FID		ACIS-S-5	7.27	3693	1.000	-0.273	0.137	0.009	0.015	0.000000	0.000000	-1825.60	160
3	GUIDE	used	329646168	8.42	7384	1.000	-0.034	-0.130	0.125	0.214	160.795286	34.765157	-2005.44	1494
4	GUIDE	used	329646936	6.94	7384	1.000	0.229	0.285	0.100	0.179	161.684378	34.731236	-1991.92	-1138
5	GUIDE	used	330041184	8.41	7380	1.000	0.023	-0.089	0.121	0.202	160.778779	35.165233	-569.96	1610
6	GUIDE	used	330045336	9.04	7379	1.000	-0.226	-0.258	0.156	0.270	160.957798	35.879965	2025.54	1209
7	GUIDE	used	330046440	9.07	7373	1.000	0.008	0.197	0.165	0.267	161.562560	35.639895	1255.69	-598

2.4 Star Slots

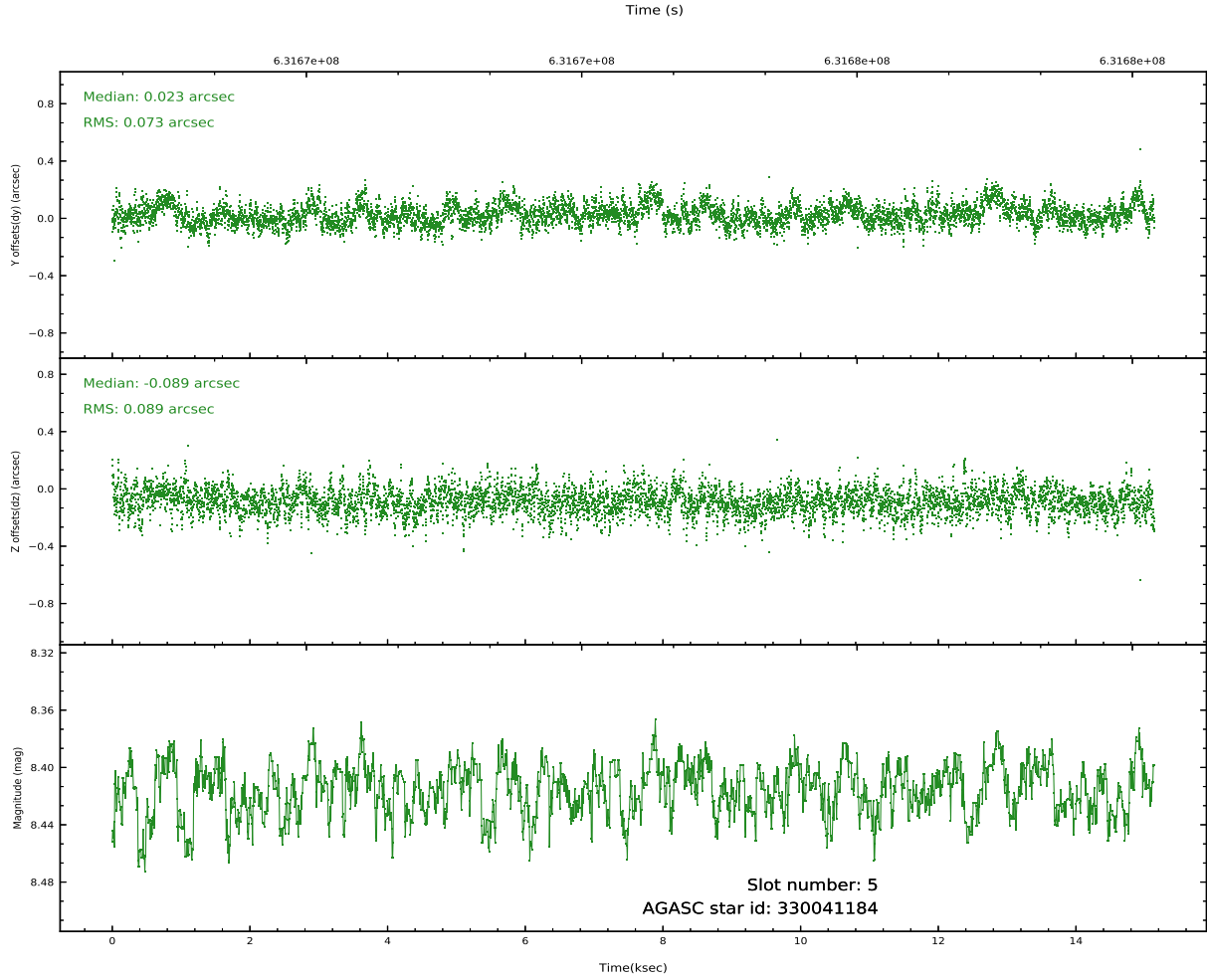
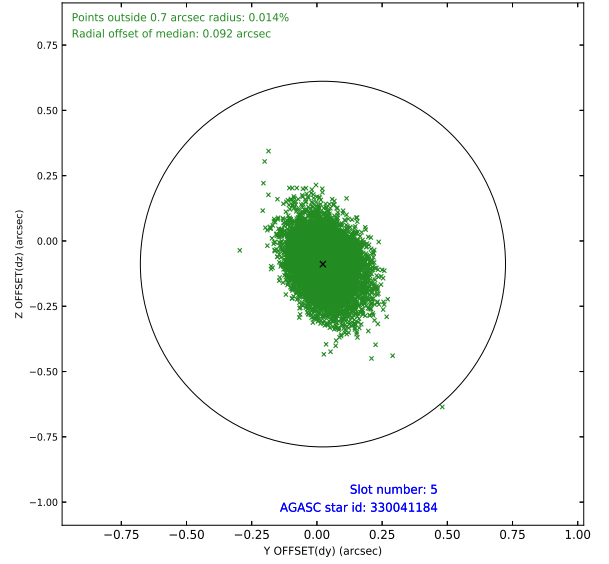
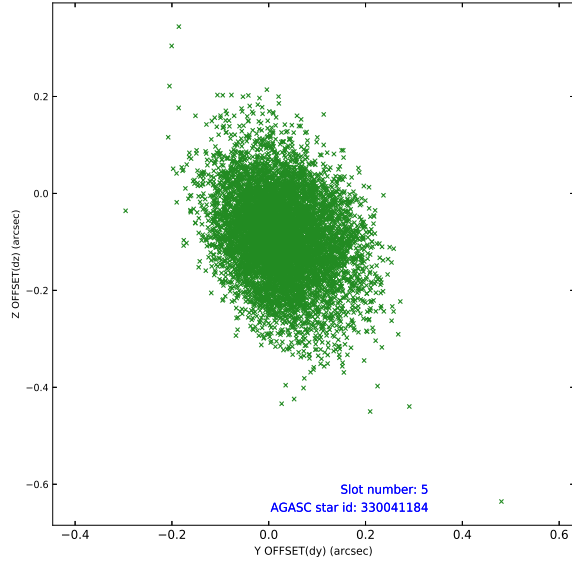
2.4.1 Slot 3



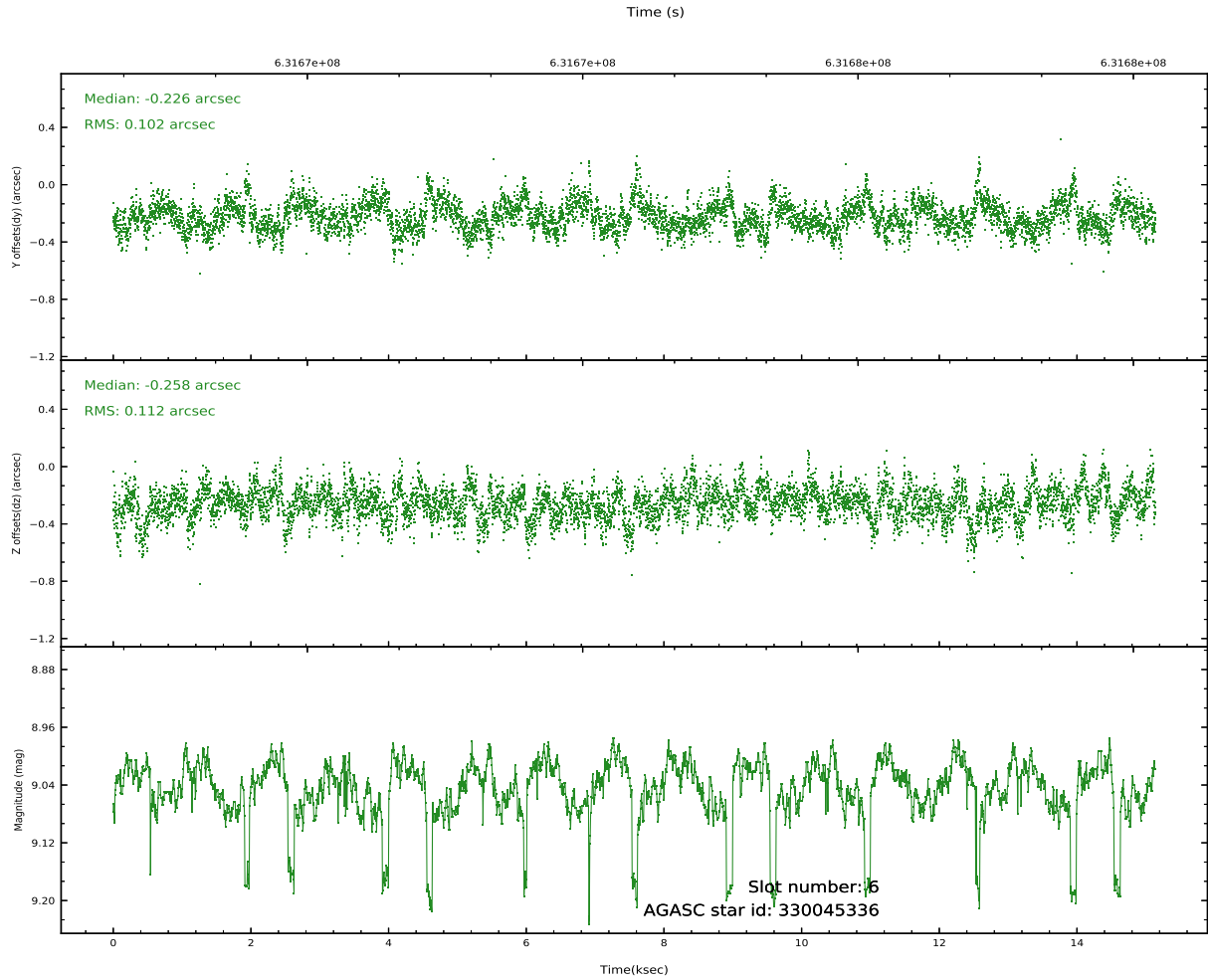
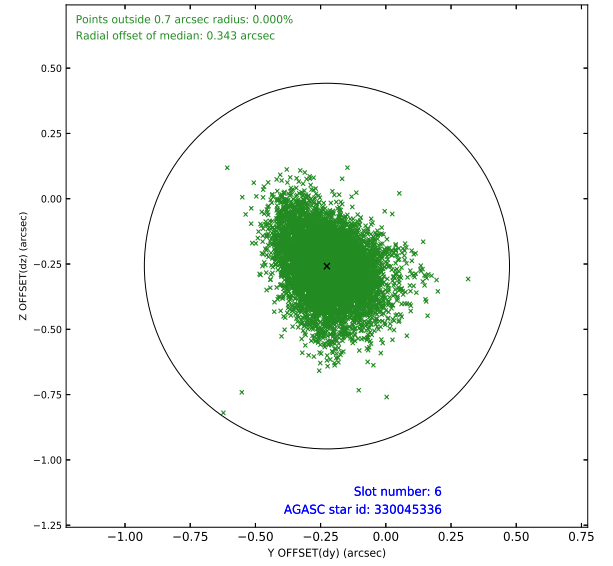
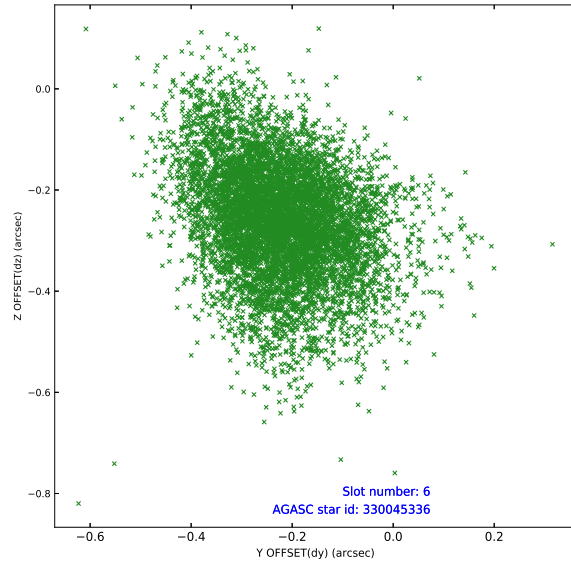
2.4.2 Slot 4



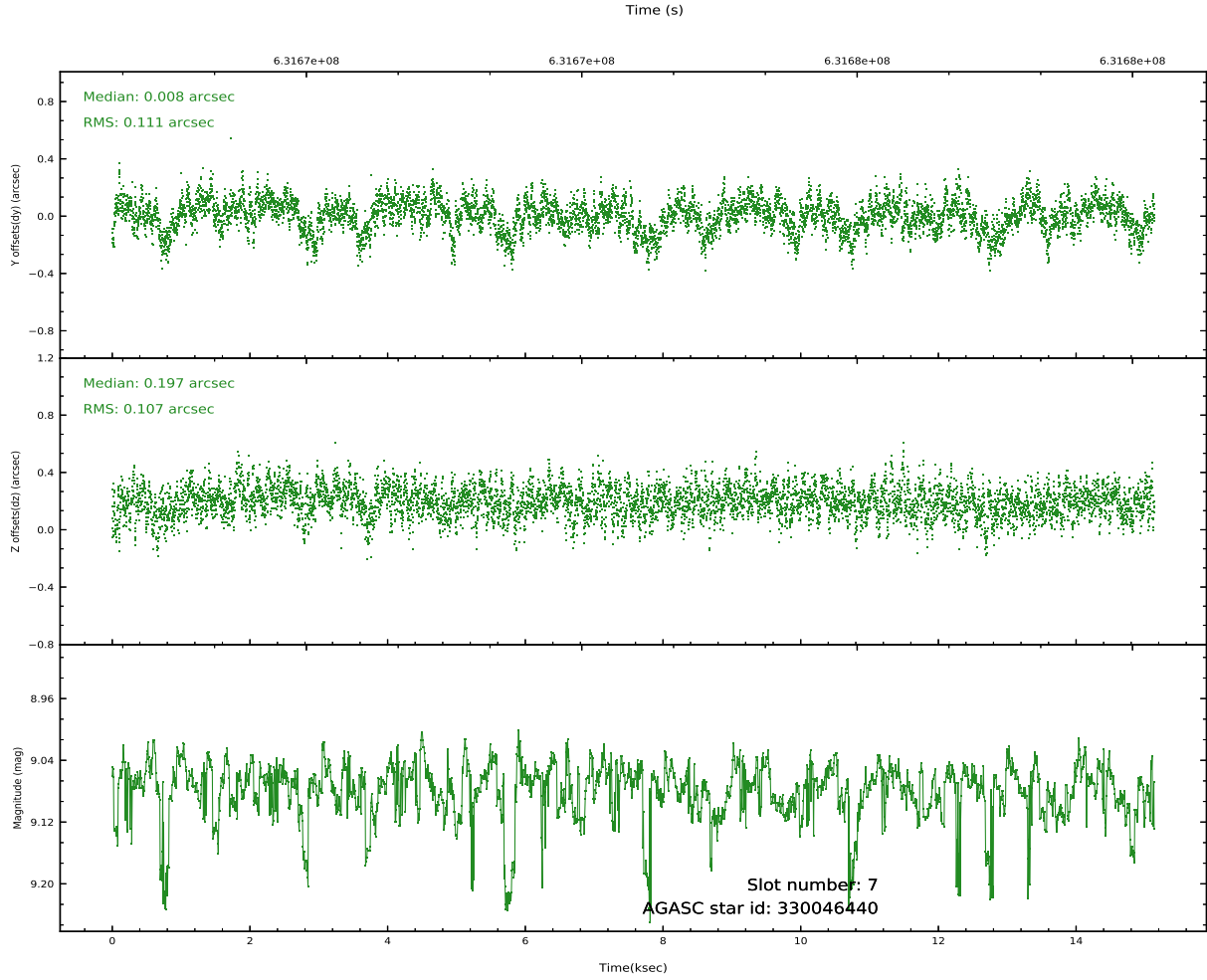
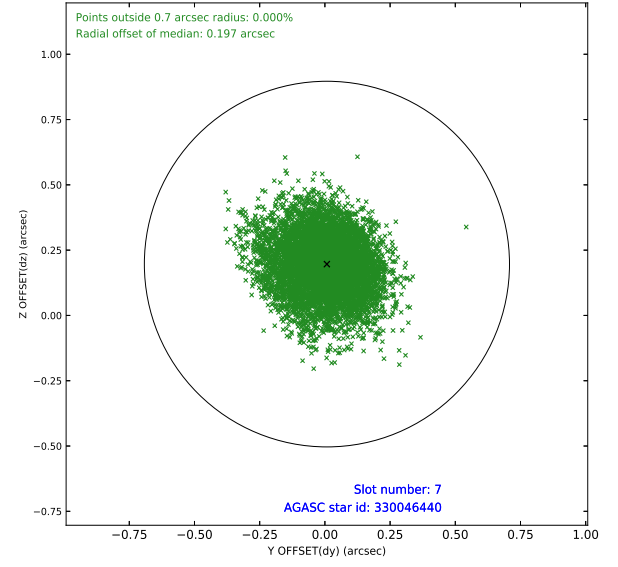
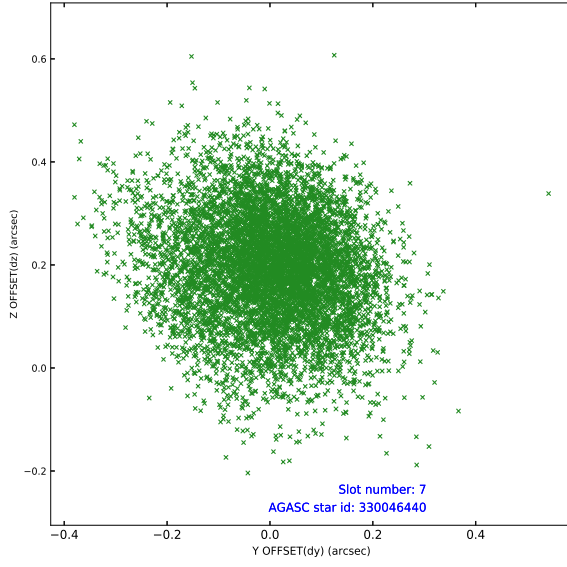
2.4.3 Slot 5



2.4.4 Slot 6

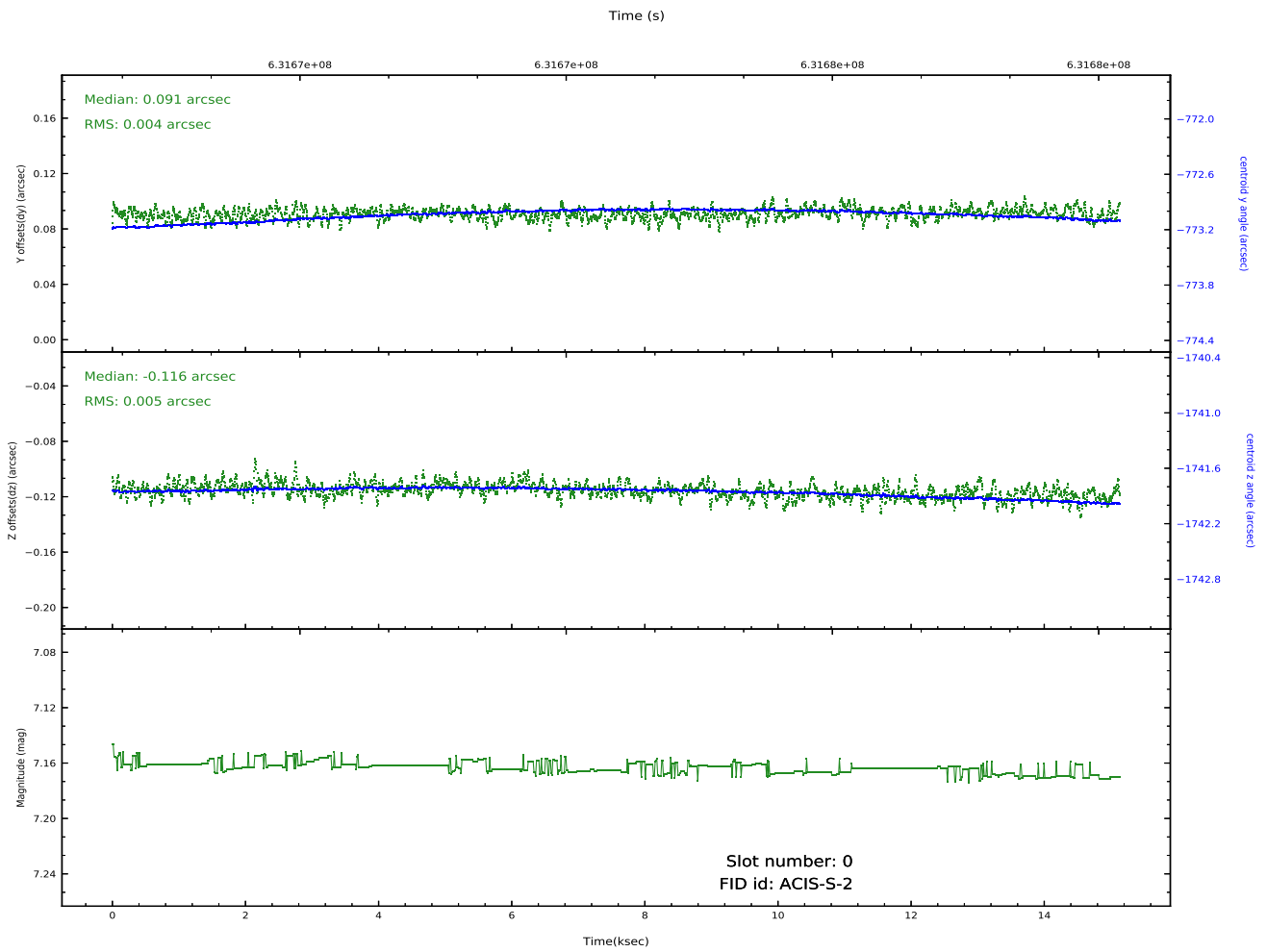
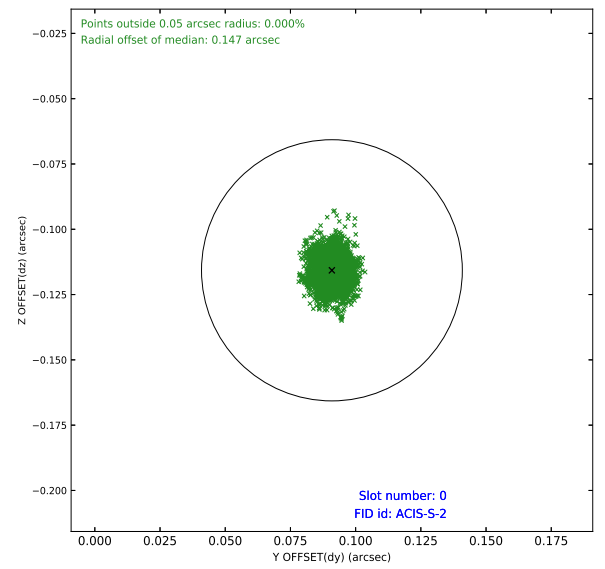
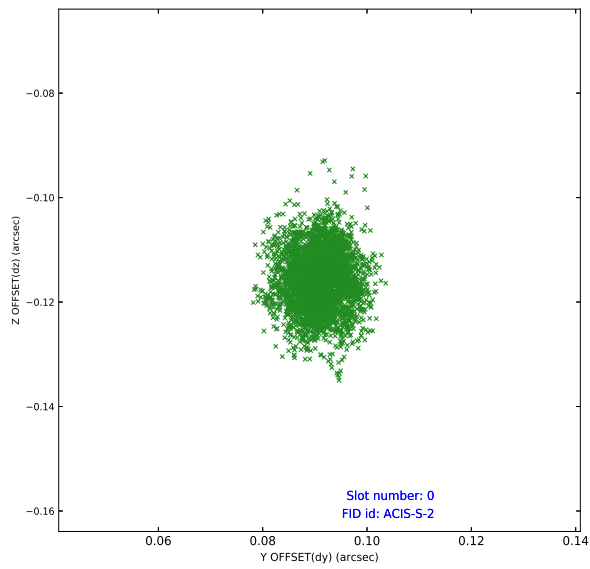


2.4.5 Slot 7

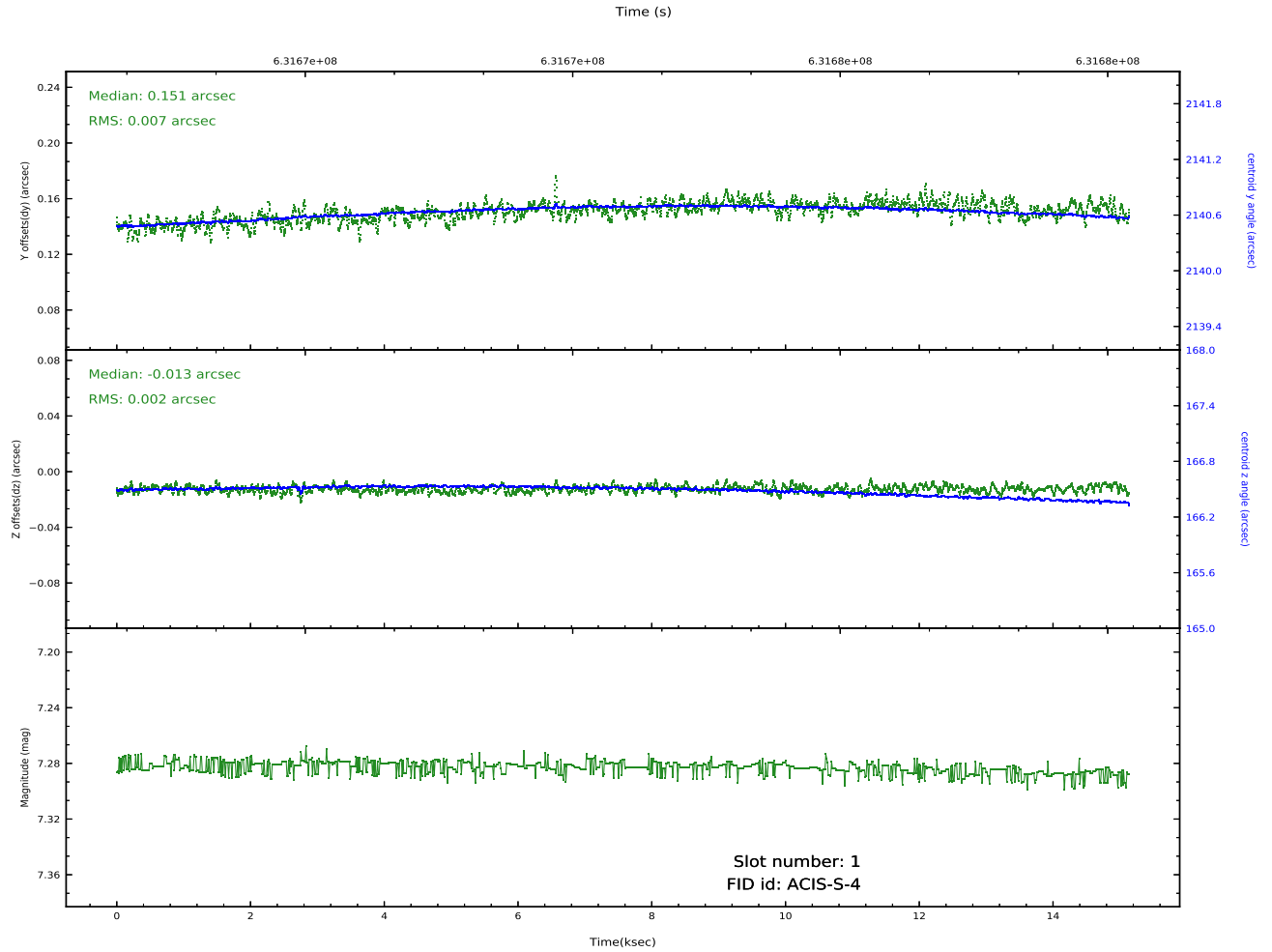
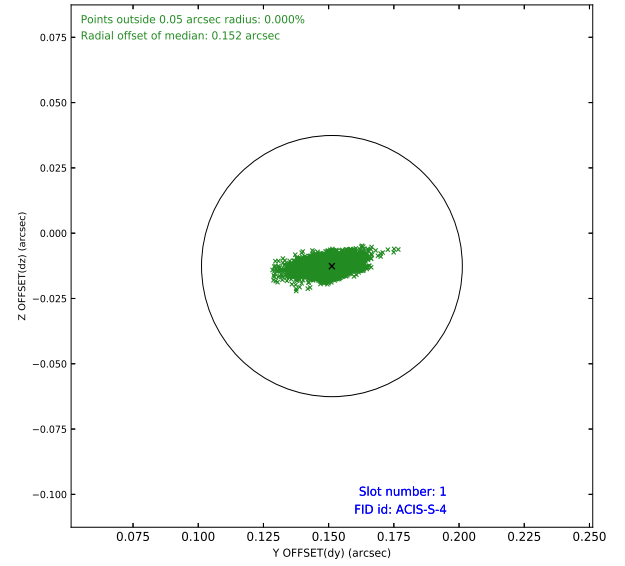
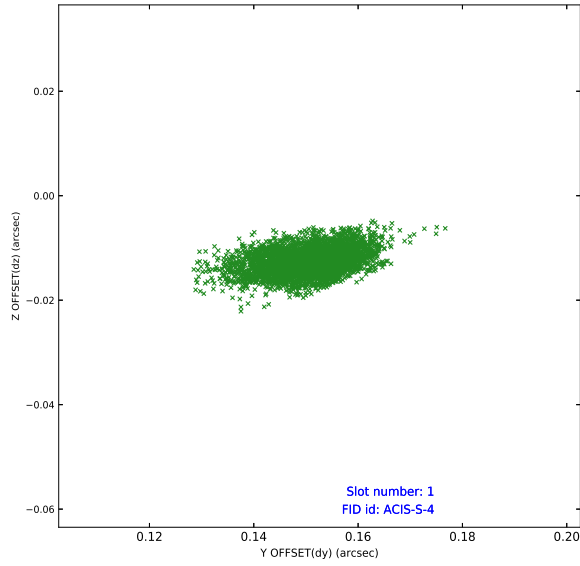


2.5 FID Slots

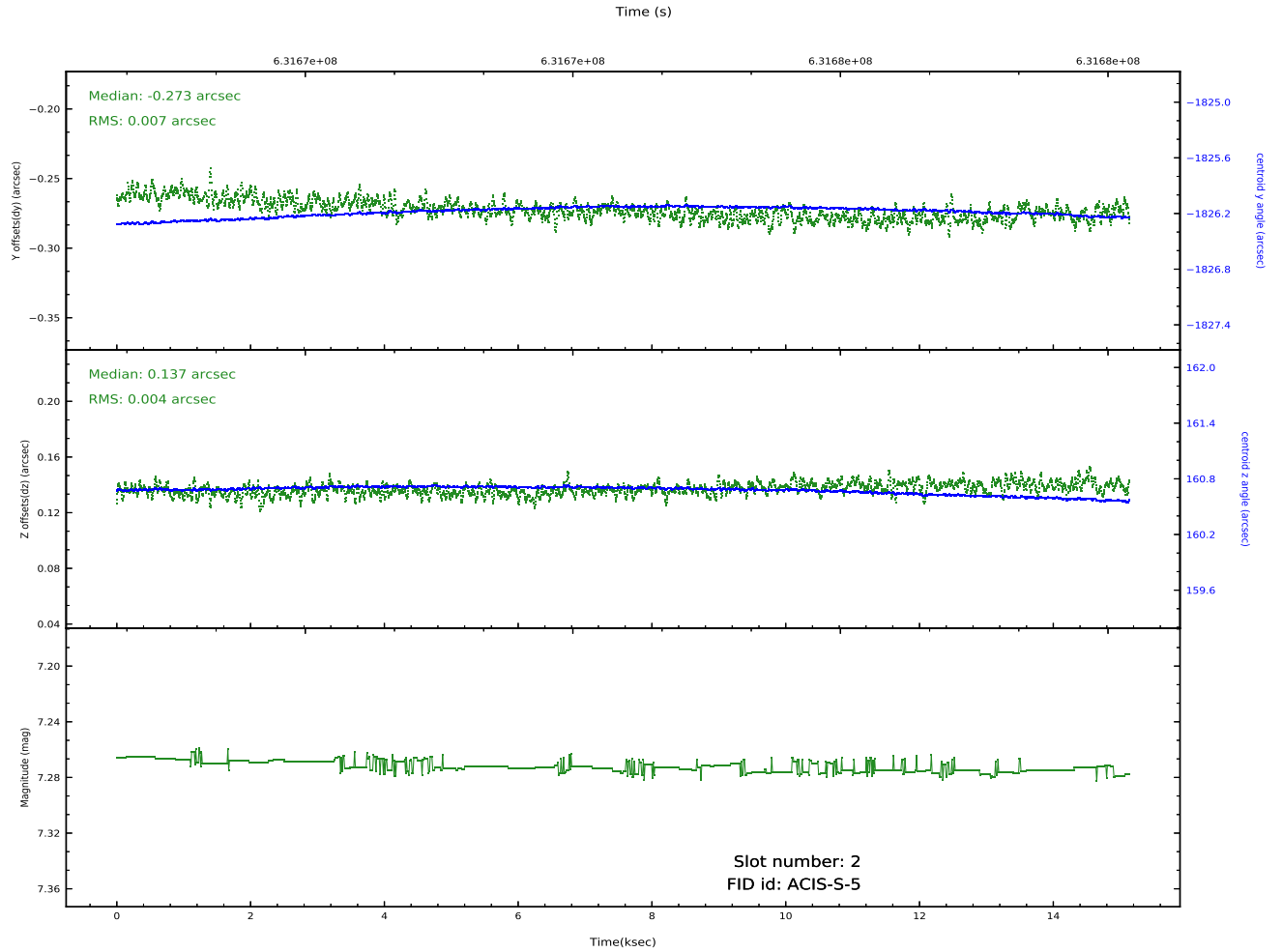
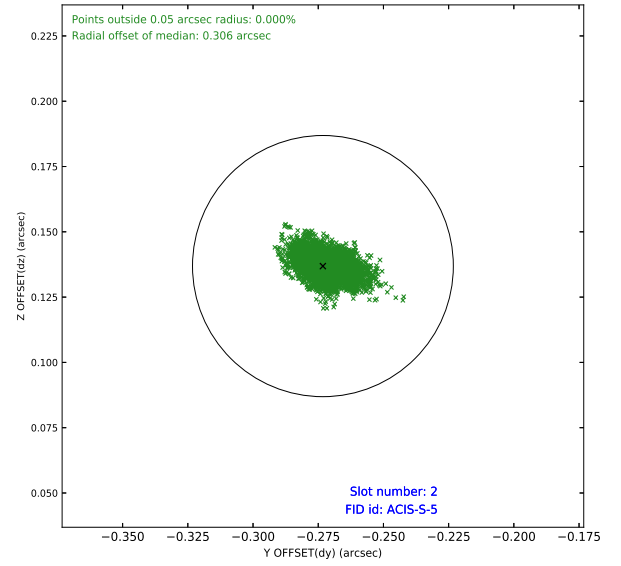
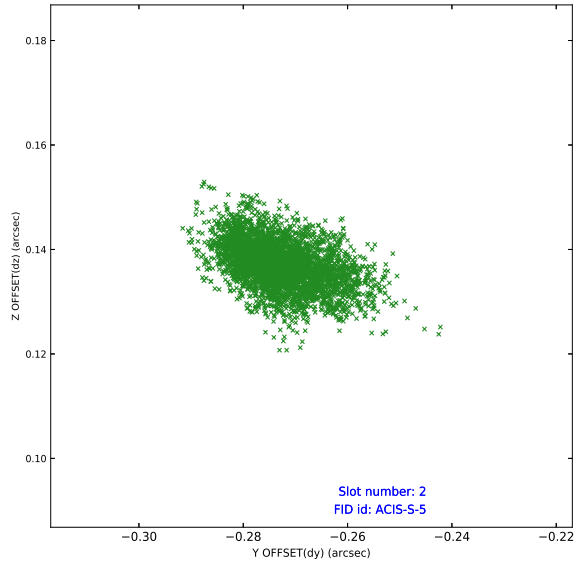
2.5.1 Slot 0



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)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.058774917006

A.2 Comments

Joint proposal with NuSTAR.