

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5713 - L2 Version 4
Chandra X-Ray Center

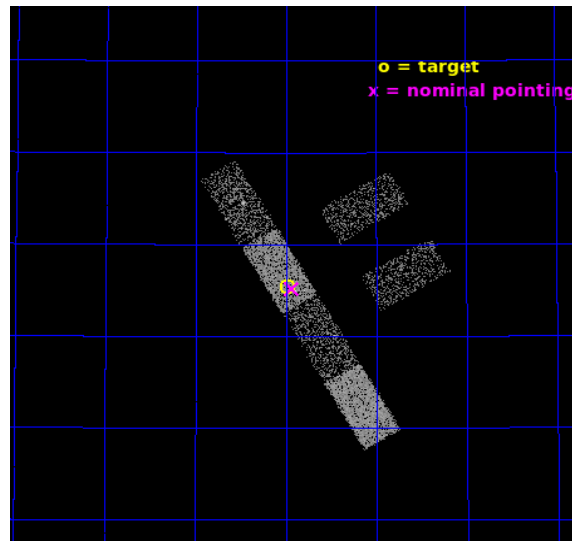
L2 Processing Date : Oct 7 2020

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

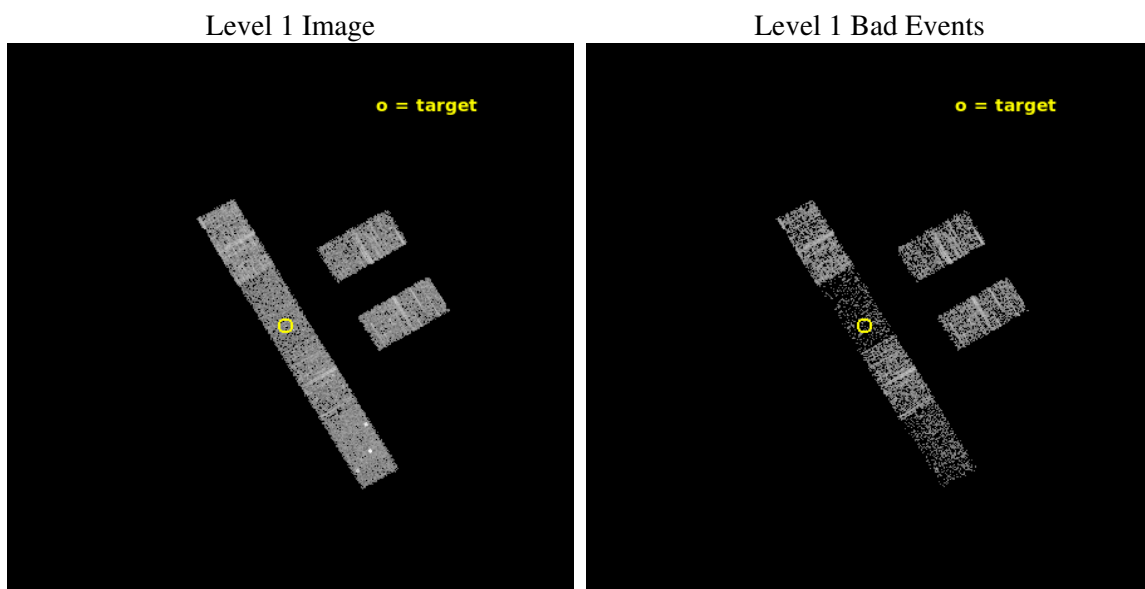
seq_num	701135	Sequence number
obs_id	5713	Observation id
title	What kind of Jets does Nature make? X-ray characterization of the FIRST Flat Spectrum Sample	Proposal title
observer	Dr. Giovanni Fossati	Principal investigator
object	NVSS J084359+510525	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	130.996667	Observer's specified target RA [deg]
dec_targ	51.090444	Observer's specified target Dec [deg]
ra_nom	130.98348285555	Nominal RA [deg]
dec_nom	51.086470955808	Nominal Dec [deg]
roll_nom	239.63323744133	Nominal Roll [deg]
revision	4	Processing version of data
ontime	3177.0000210404	Sum of GTIs [s]
livetime	3106.1791367232	Livetime [s]
ontime2	3177.0000210404	Sum of GTIs [s]
ontime3	3177.0000210404	Sum of GTIs [s]
ontime5	3177.0000210404	Sum of GTIs [s]
ontime6	3177.0000210404	Sum of GTIs [s]
ontime7	3177.0000210404	Sum of GTIs [s]
ontime8	3177.0000210404	Sum of GTIs [s]
l2events	12029	Number of level 2 events



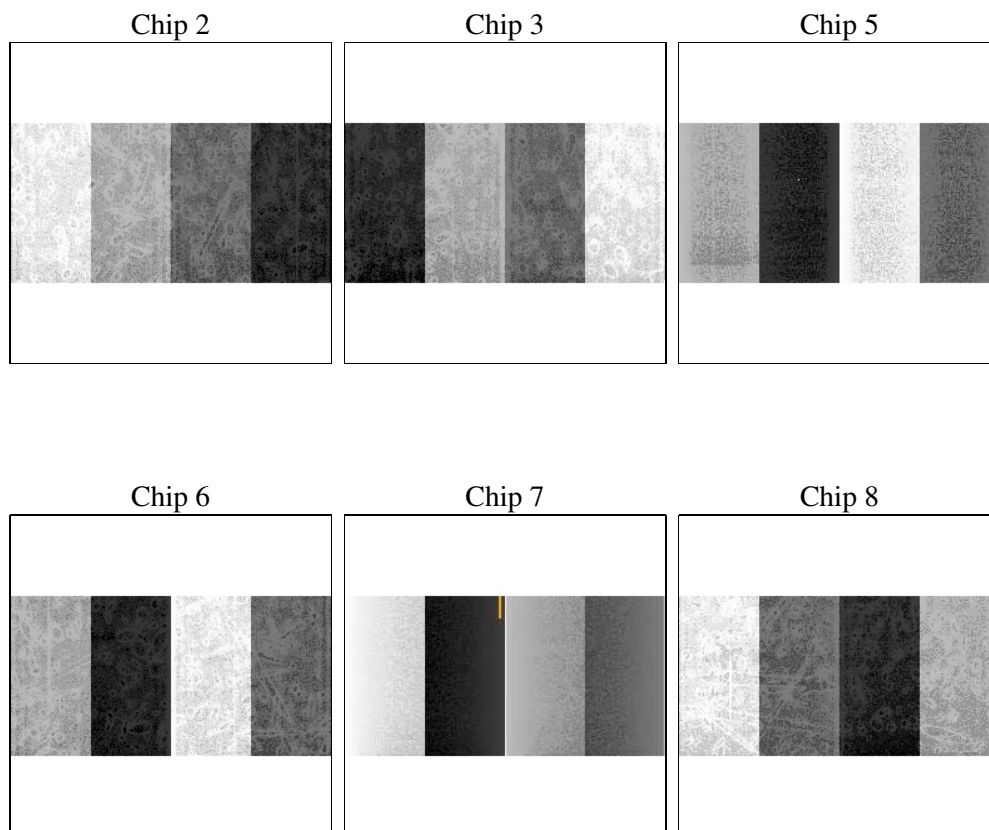
2 OBI

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	3177.0000210404	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	3177.0000210404	Sum of GTIs [s]
date	2020-10-07T11:16:48	Date and time of file creation	ontime3	3177.0000210404	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	3177.0000210404	Sum of GTIs [s]
			ontime6	3177.0000210404	Sum of GTIs [s]
			ontime7	3177.0000210404	Sum of GTIs [s]
			ontime8	3177.0000210404	Sum of GTIs [s]
			l1events	59067	Number of level 1 events

2.1.4 Events

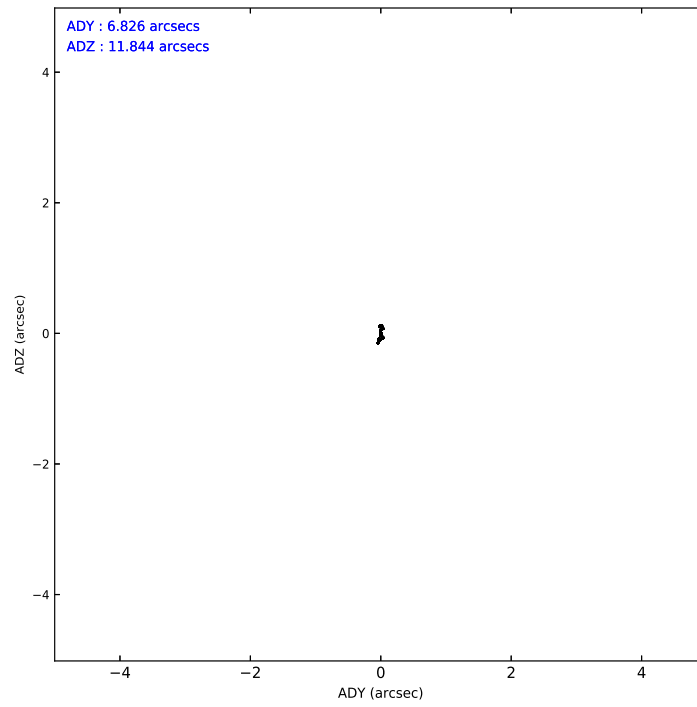
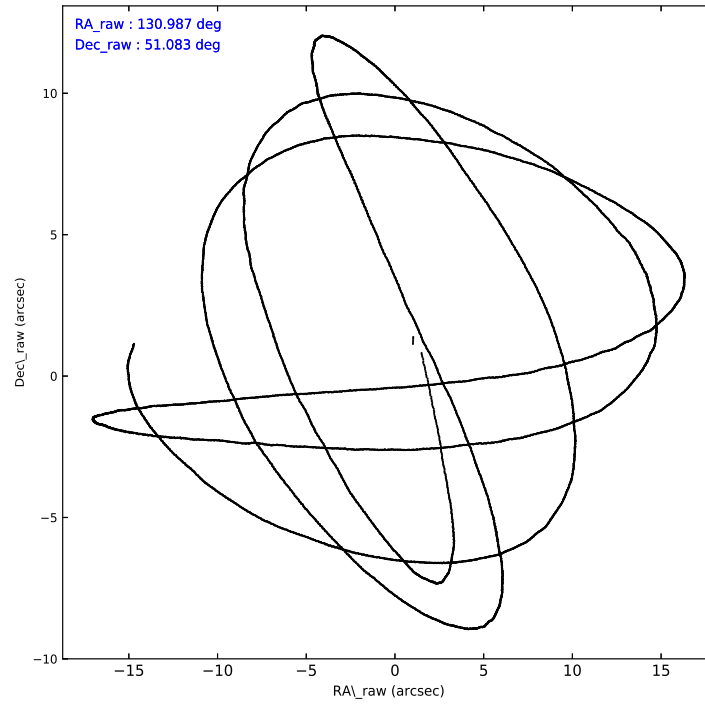
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	10482	9306	10540	9589	6287	12863
rejected events	9457	8412	3629	8392	2416	9919
rejected %	90%	90%	34%	87%	38%	77%

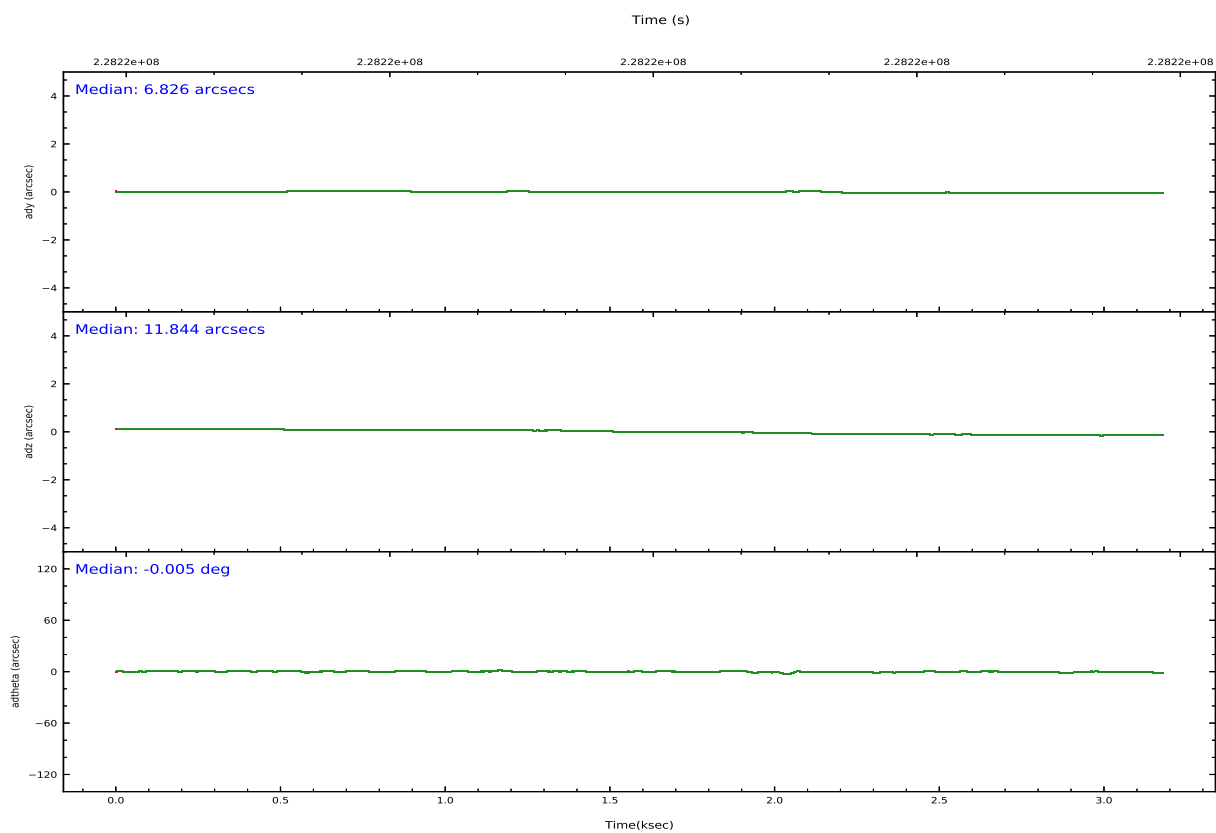
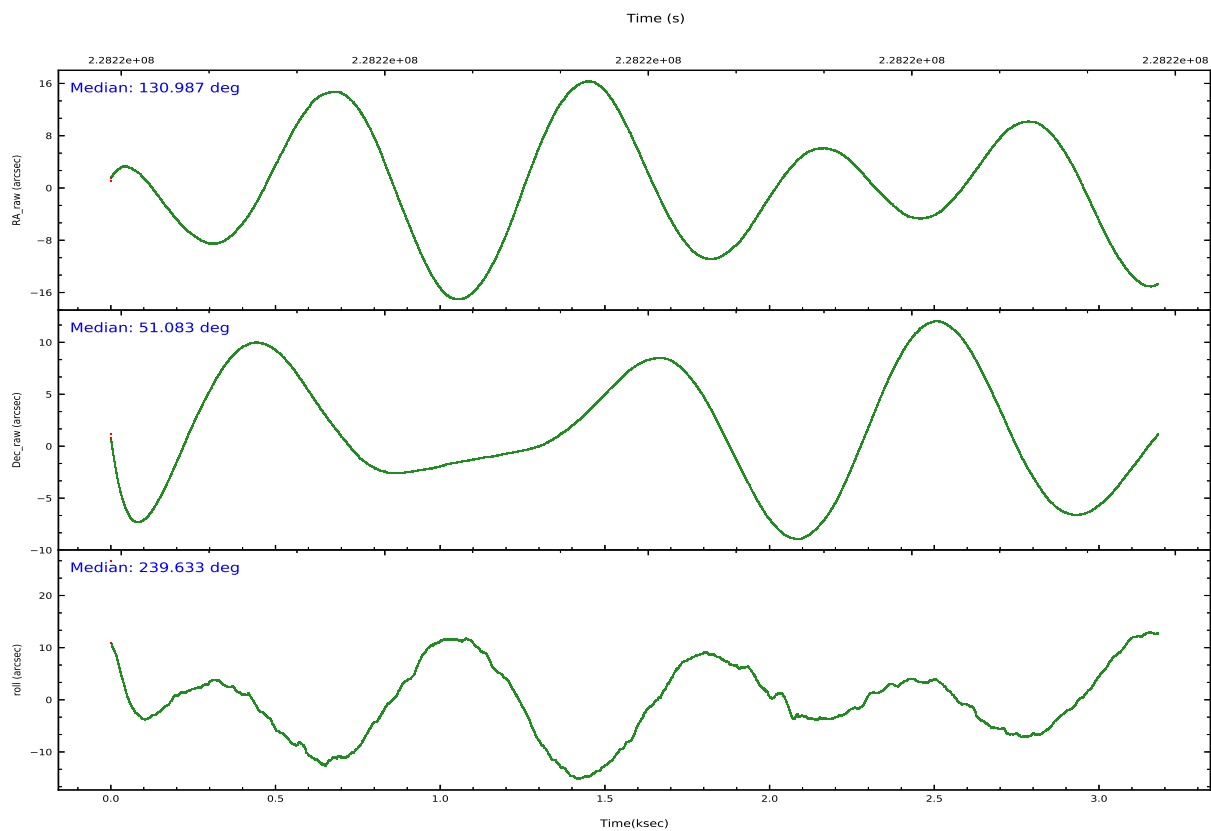
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	427	385	2546	566	574	997
	4%	4%	24%	5%	9%	7%
grade 1 events	1	4	10	3	14	9
	0%	0%	0%	0%	0%	0%
grade 2 events	224	177	1868	247	1011	664
	2%	1%	17%	2%	16%	5%
grade 3 events	123	126	383	133	402	392
	1%	1%	3%	1%	6%	3%
grade 4 events	154	117	356	131	497	341
	1%	1%	3%	1%	7%	2%
grade 5 events	153	155	739	189	573	304
	1%	1%	7%	1%	9%	2%
grade 6 events	149	133	2206	177	1601	780
	1%	1%	20%	1%	25%	6%
grade 7 events	9251	8209	2432	8143	1615	9376
	88%	88%	23%	84%	25%	72%

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	130.986374	130.98348285555	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	51.110319	51.086470955808	Subarray start row	257	257
[deg] Pointing Roll	239.479670	239.63323744133	Subarray row count	512	512
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	1.8
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	228217748.184000	228216799.56681			
Observation start date	2005-03-26T09:48:04	2005-03-26T09:33:19			
[s] Observation end time (MET)	228220748.184000	228220950.817			
Observation end date	2005-03-26T10:38:04	2005-03-26T10:42:30			
Read mode	TIMED	TIMED			

2.3 Aspect



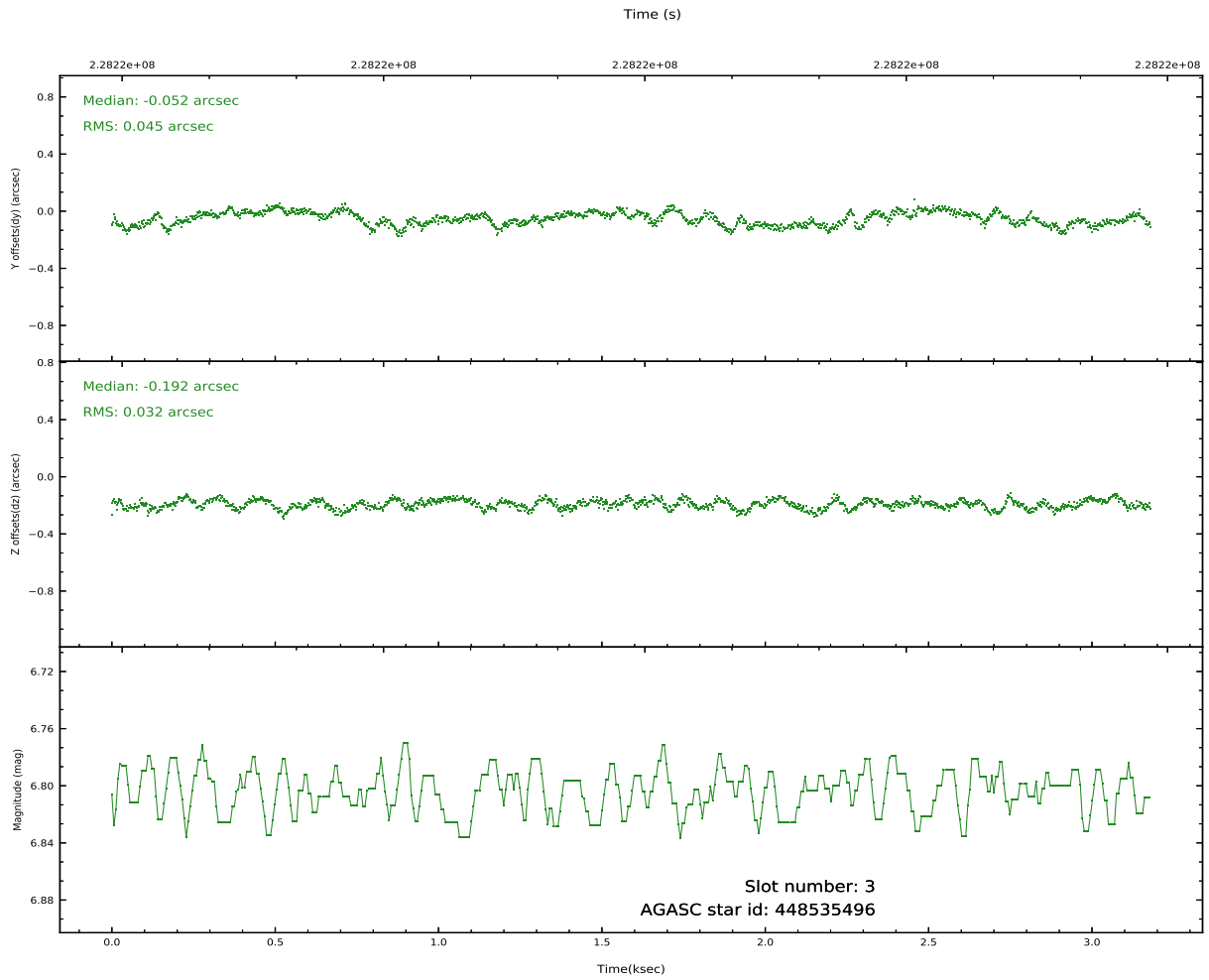
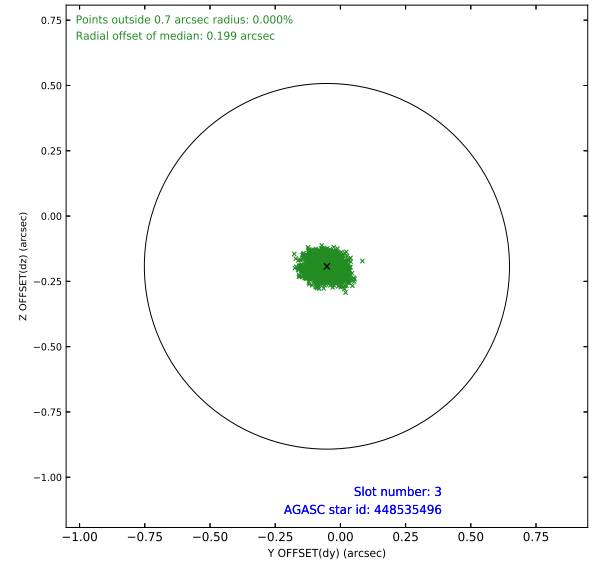
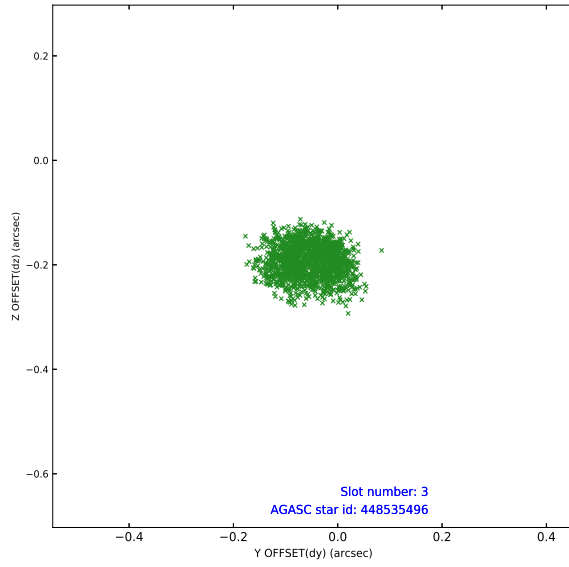


Slot Statistics

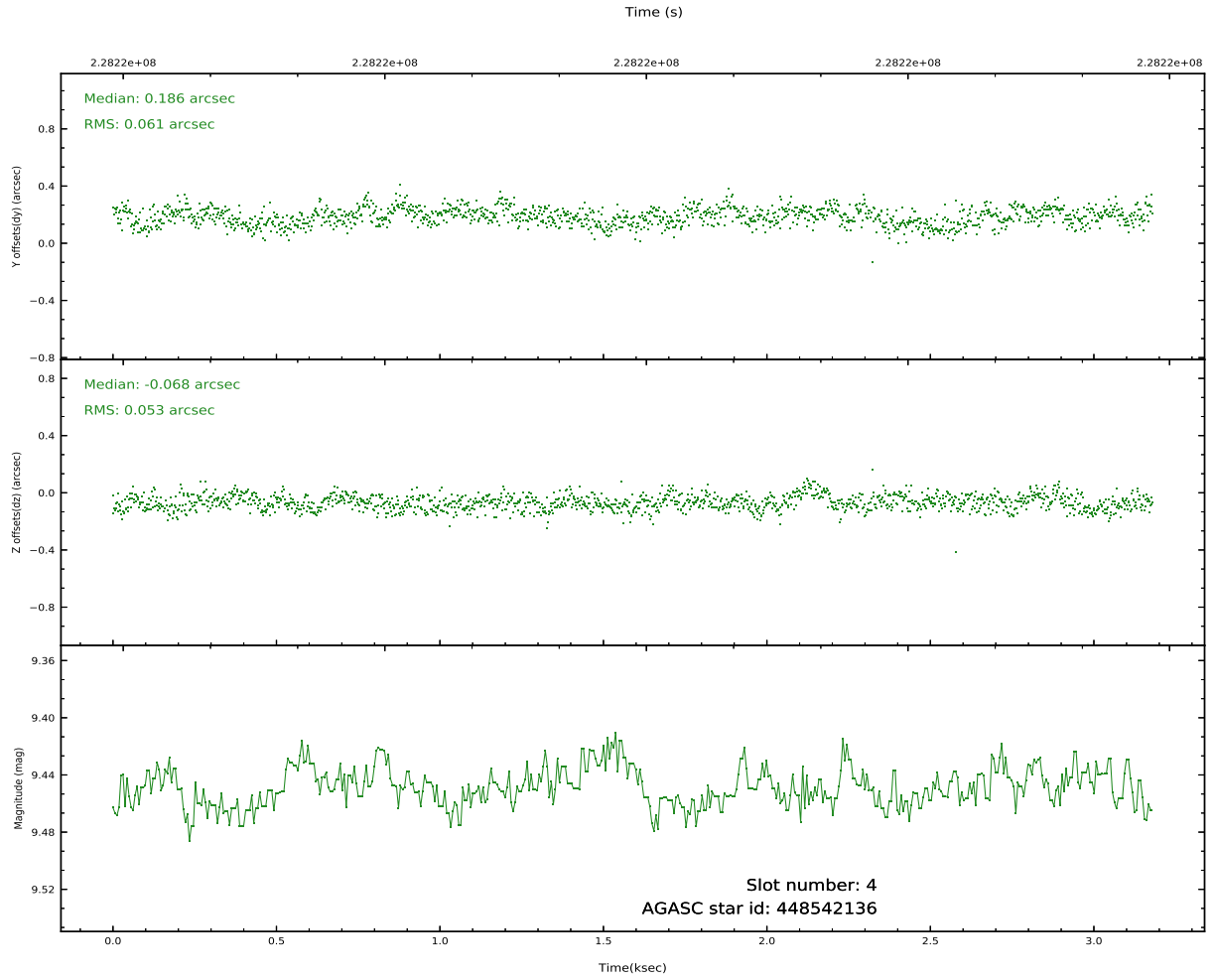
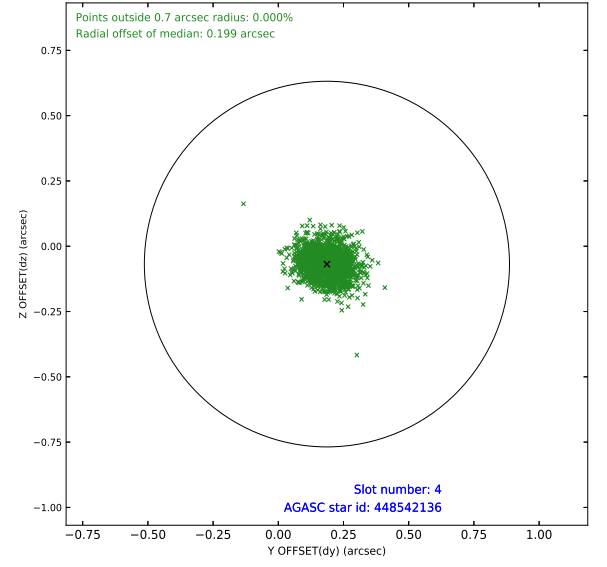
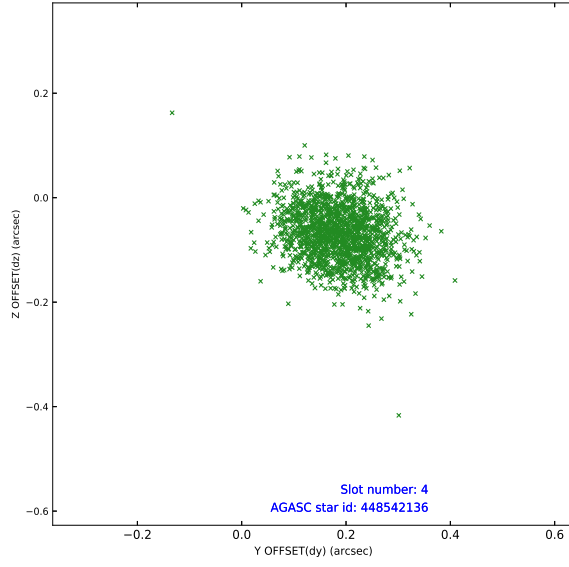
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.18	776	1.000	0.069	-0.116	0.007	0.013	0.000000	0.000000	936.51	-1728
1	FID		ACIS-S-5	7.24	776	1.000	-0.096	0.037	0.007	0.011	0.000000	0.000000	-1811.50	166
2	FID		ACIS-S-6	7.34	775	1.000	0.006	0.091	0.009	0.016	0.000000	0.000000	399.87	813
3	GUIDE	used	448535496	6.80	1552	1.000	-0.052	-0.192	0.059	0.091	130.179057	51.430747	-82.12	-2151
4	GUIDE	used	448542136	9.45	1552	1.000	0.186	-0.068	0.085	0.138	130.394428	50.774076	1722.63	-549
5	GUIDE	used	448666008	8.79	1551	1.000	-0.044	0.025	0.071	0.115	131.611099	51.308628	-1333.09	845
6	GUIDE	used	448672088	8.98	1550	1.000	0.000	0.161	0.080	0.127	131.437545	50.827892	351.06	1399
7	GUIDE	used	448672416	9.34	1551	1.000	-0.088	0.076	0.094	0.147	132.075197	51.196468	-1530.22	1950

2.4 Star Slots

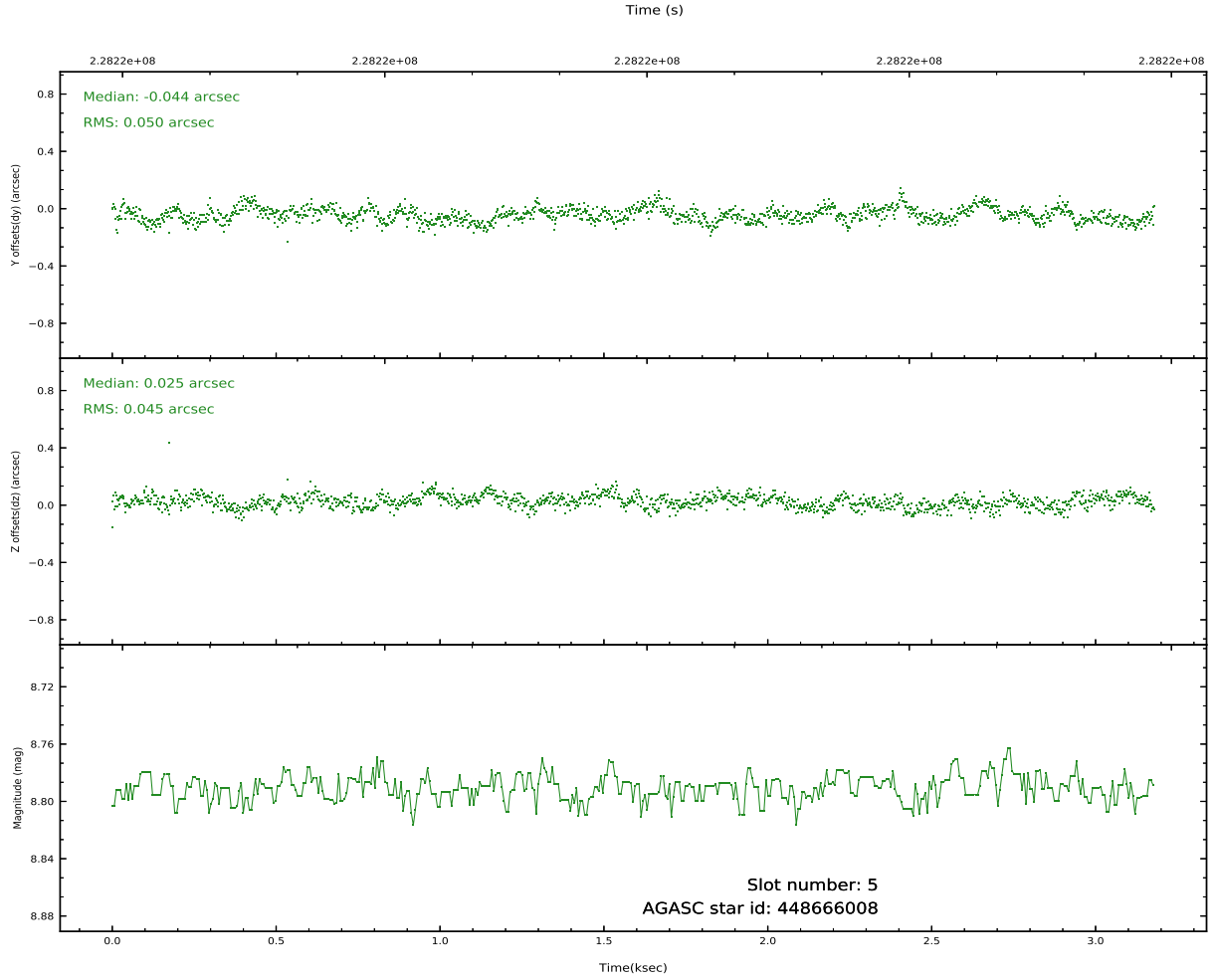
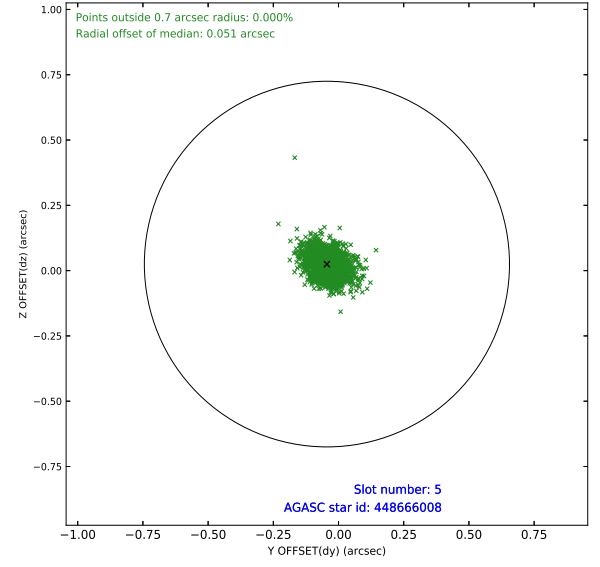
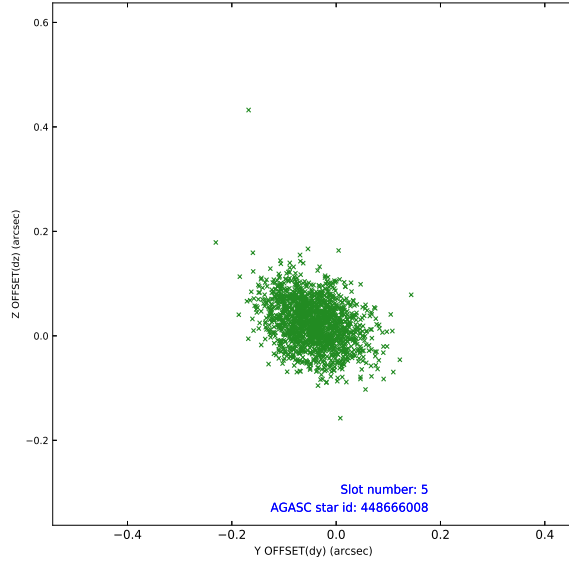
2.4.1 Slot 3



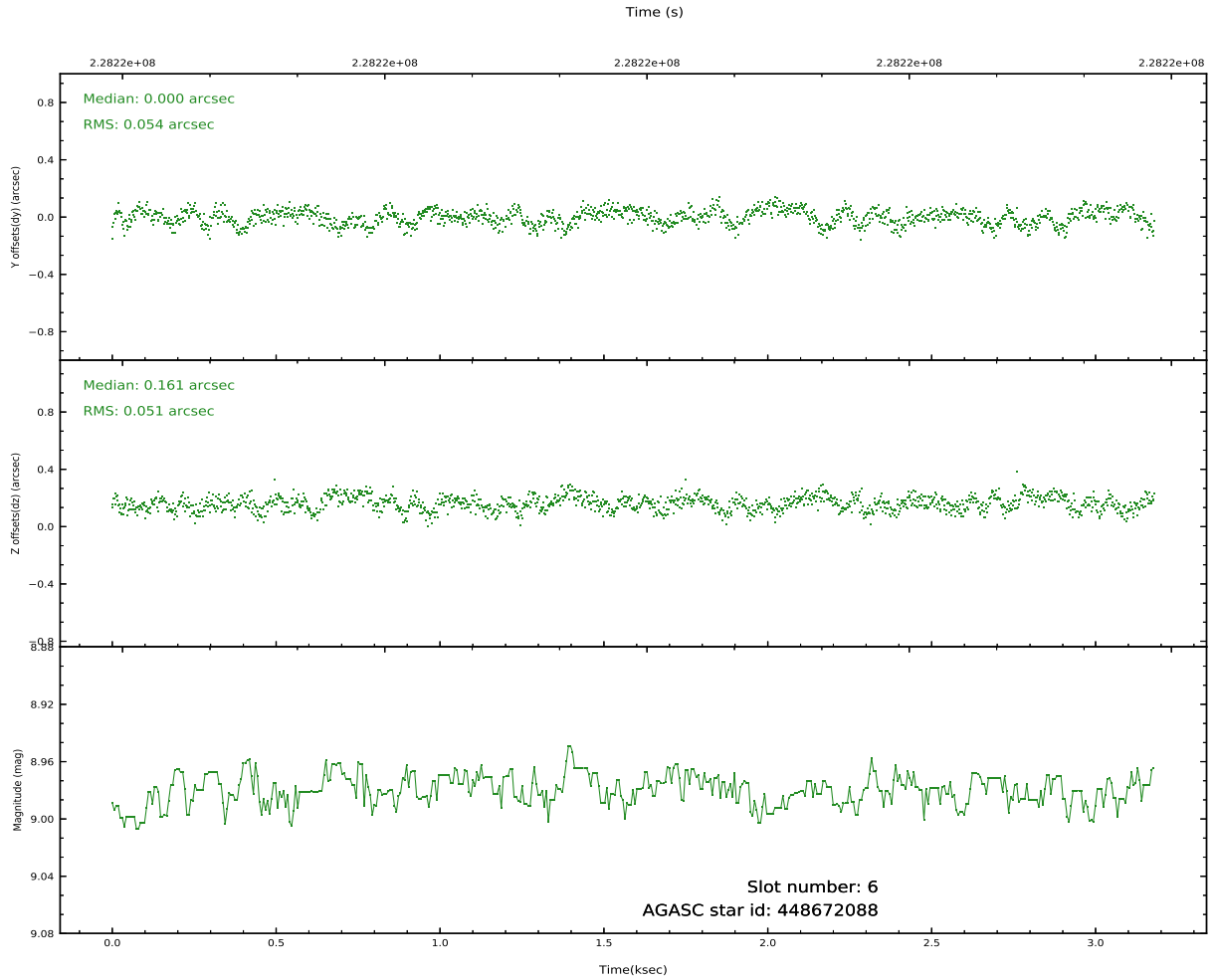
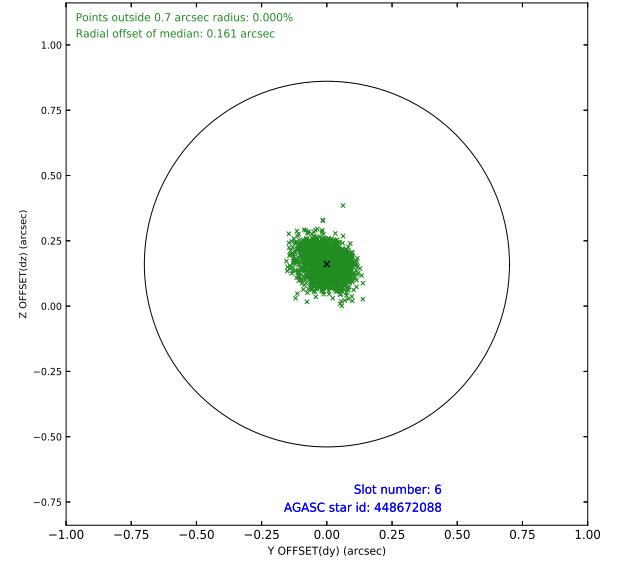
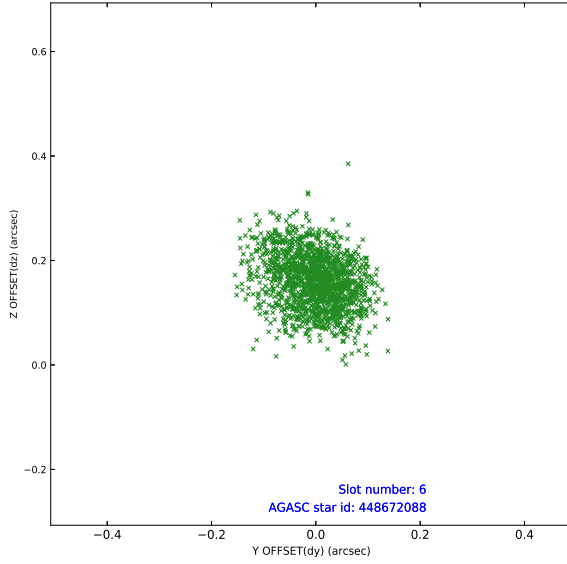
2.4.2 Slot 4



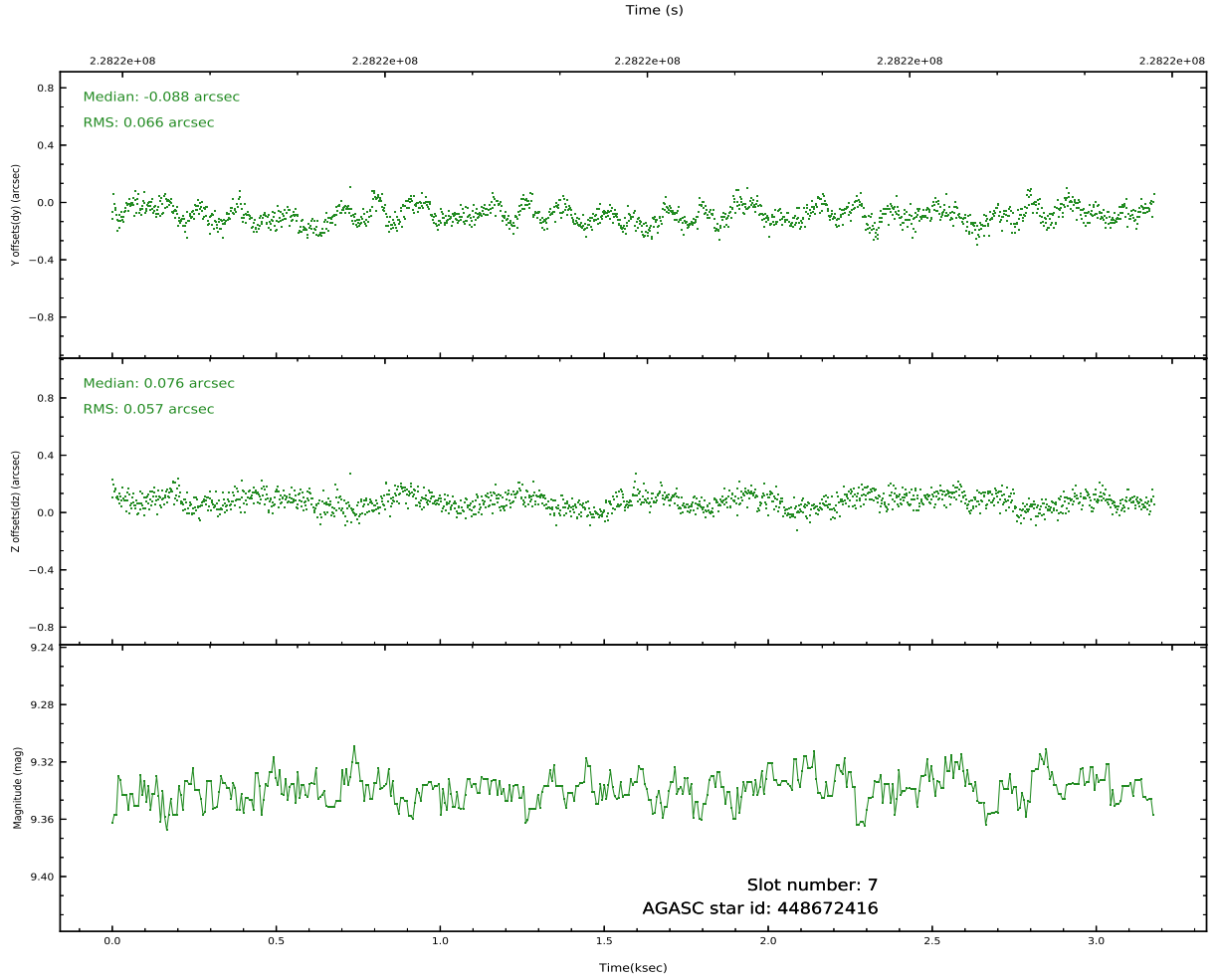
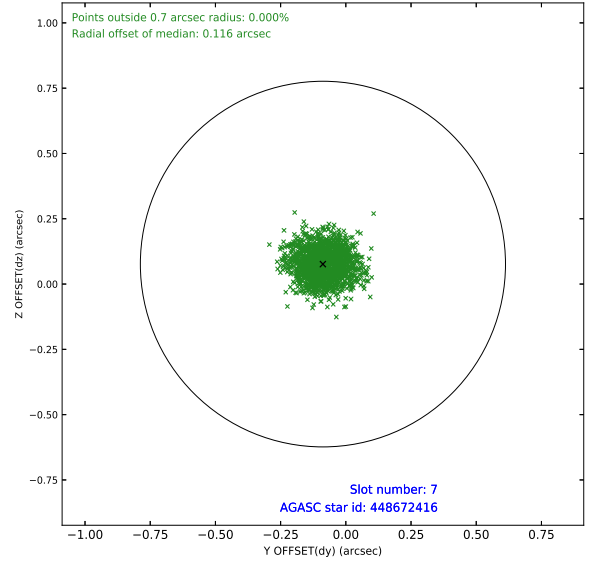
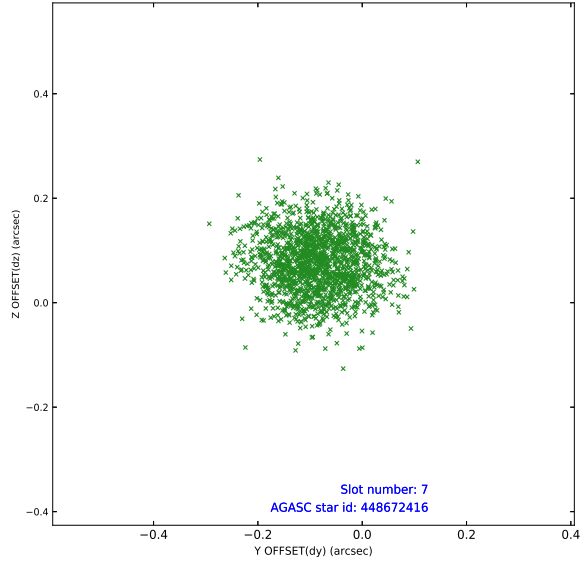
2.4.3 Slot 5



2.4.4 Slot 6

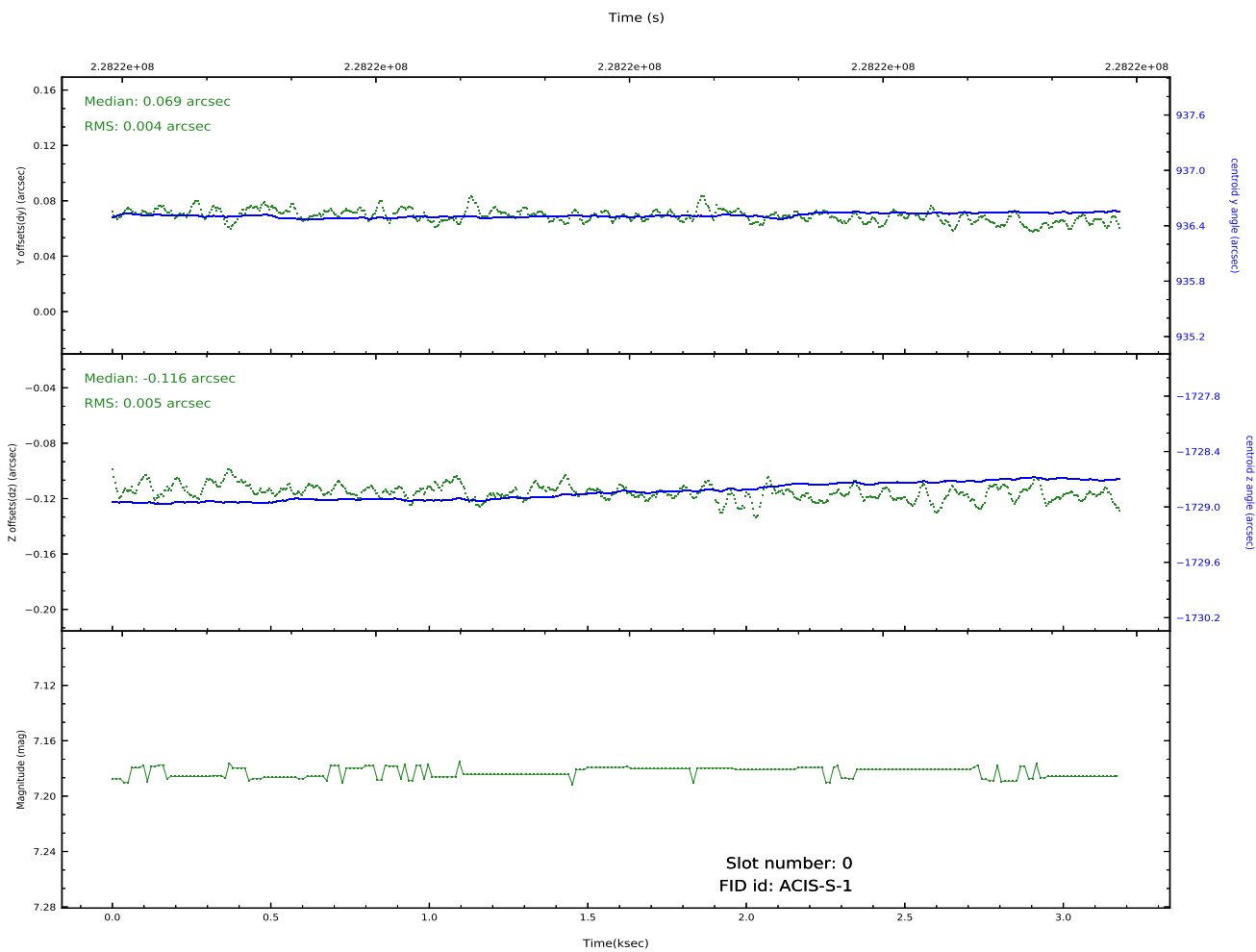
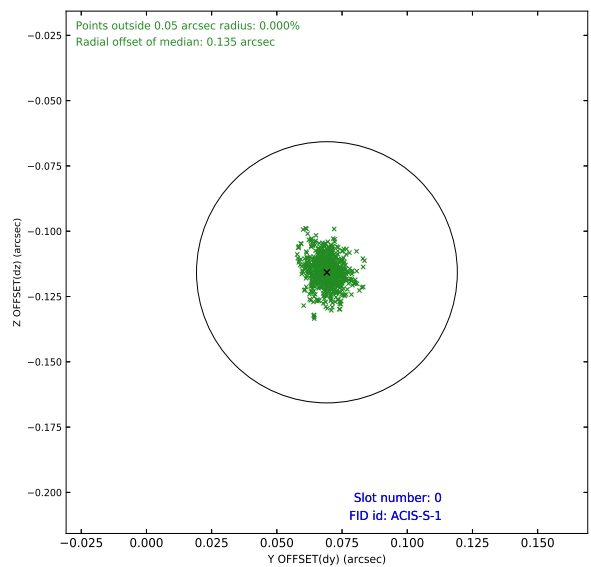
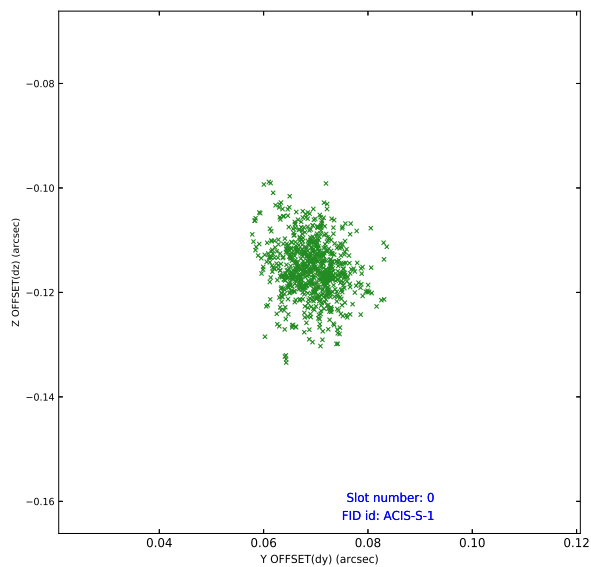


2.4.5 Slot 7

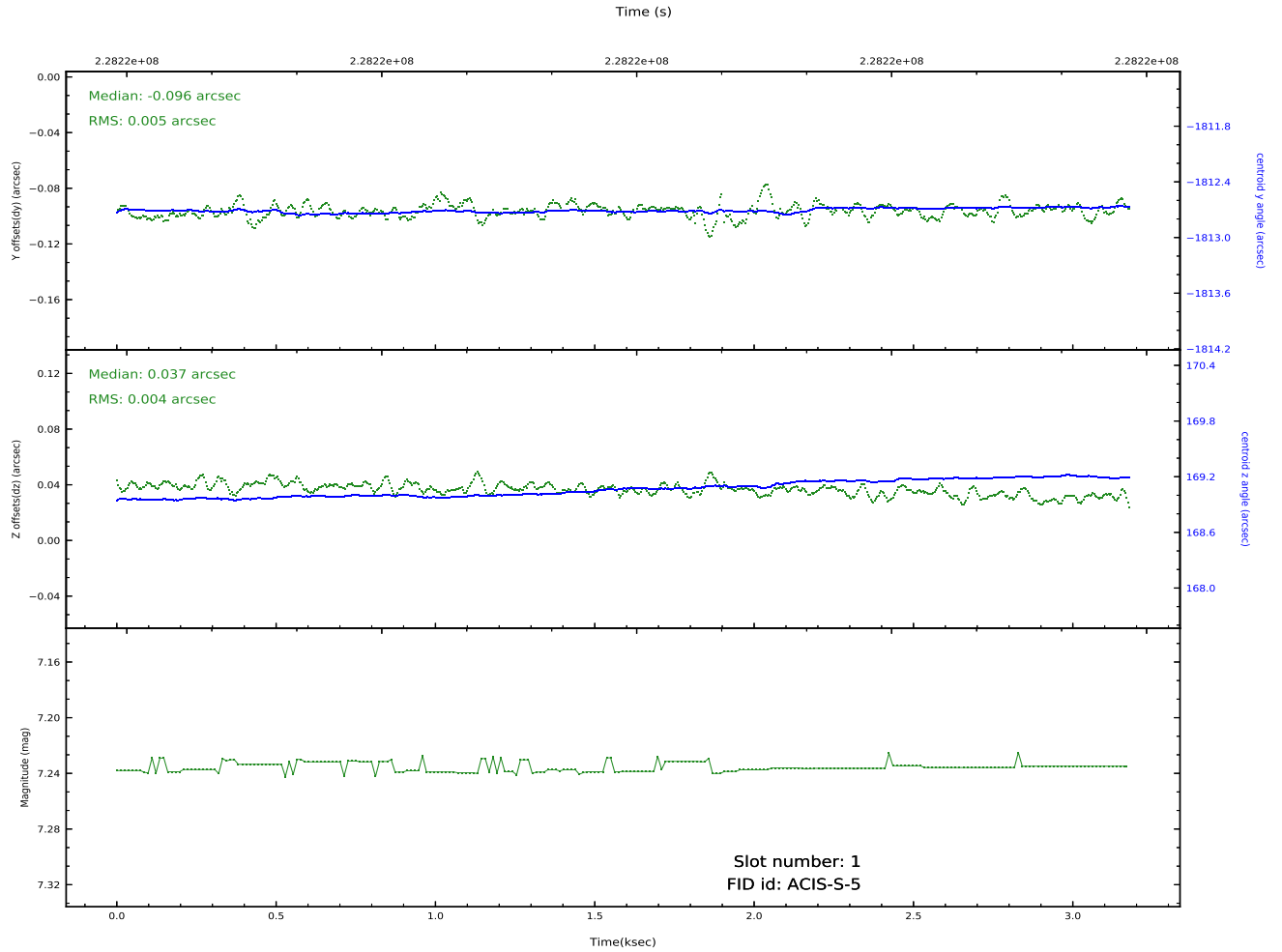
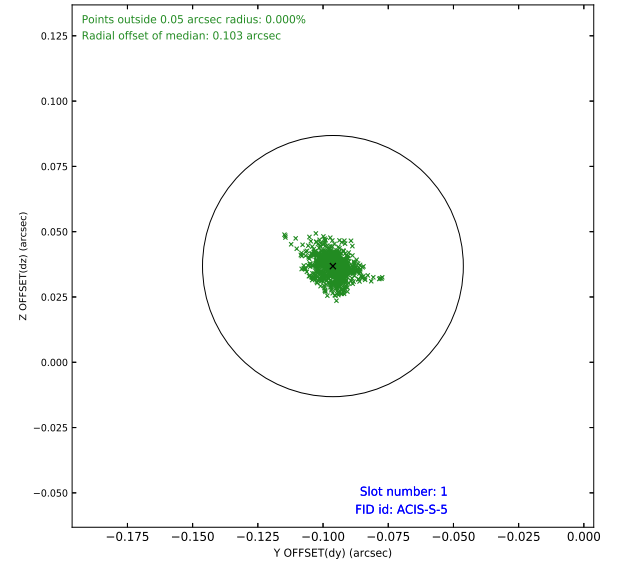
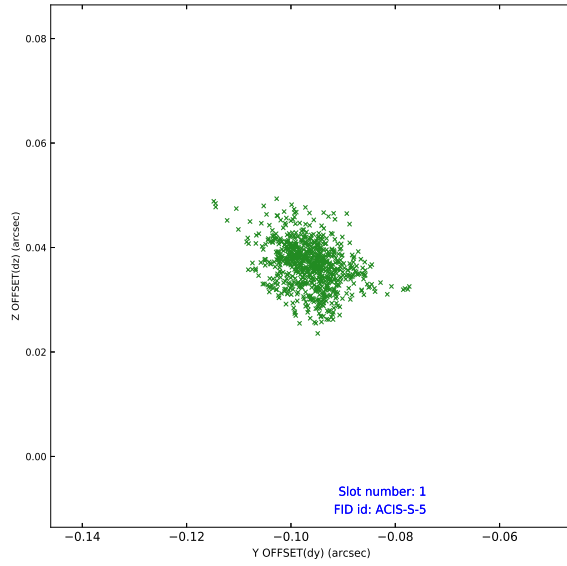


2.5 FID Slots

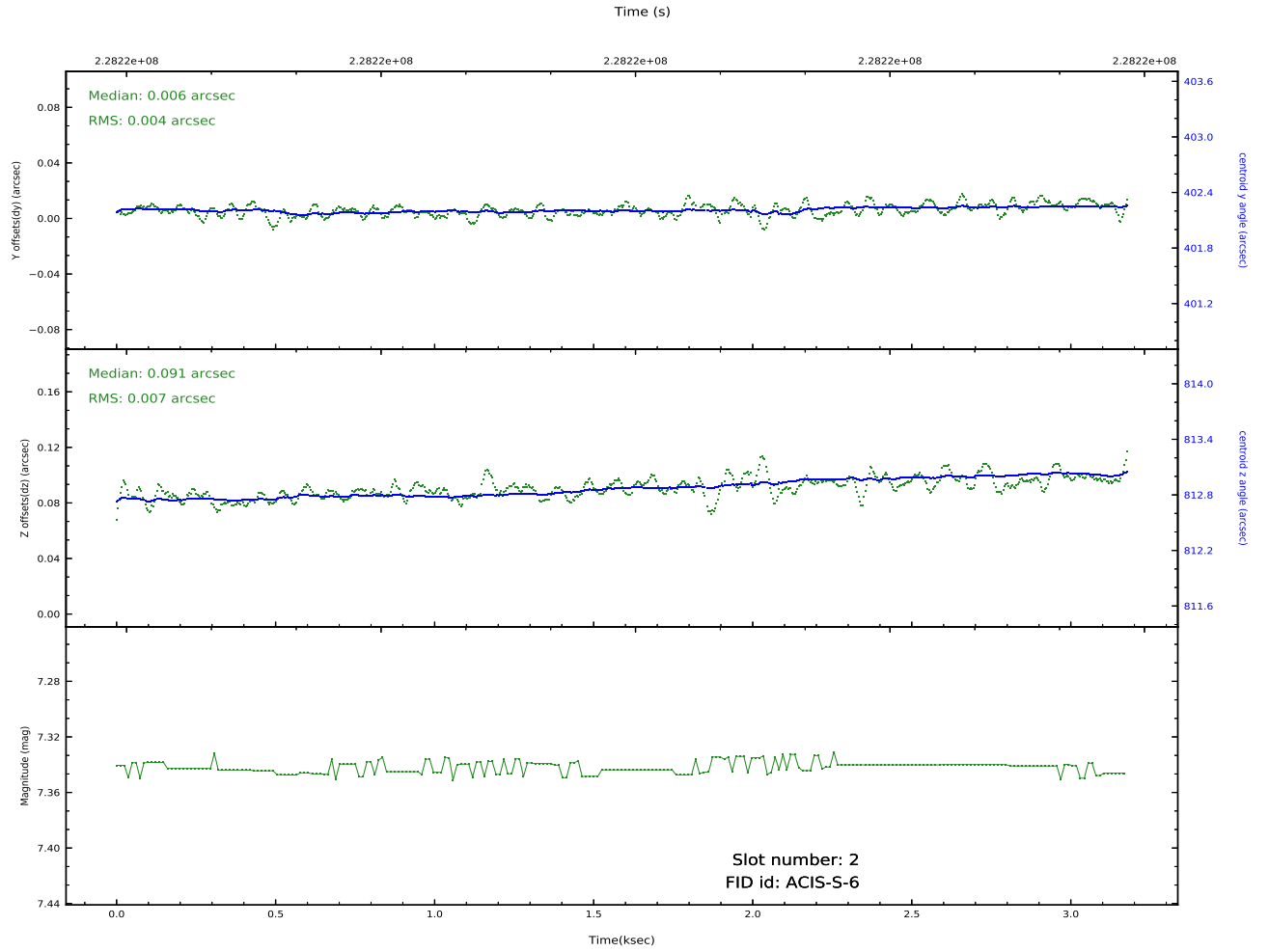
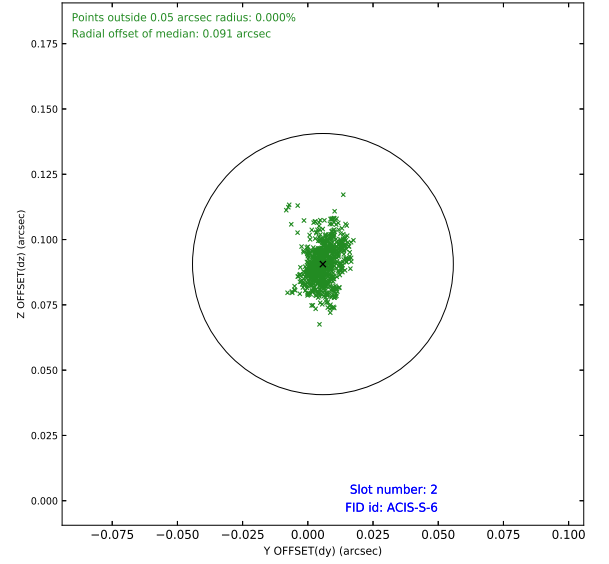
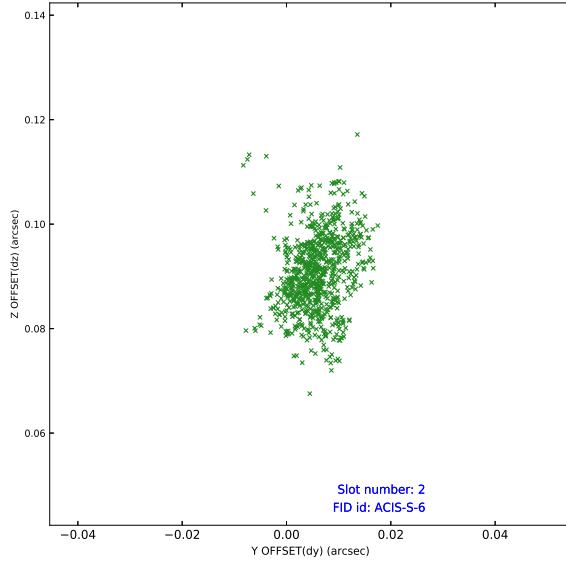
2.5.1 Slot 0



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)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.177

A.2 Comments