

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 21024 - L2 Version 2
Chandra X-Ray Center

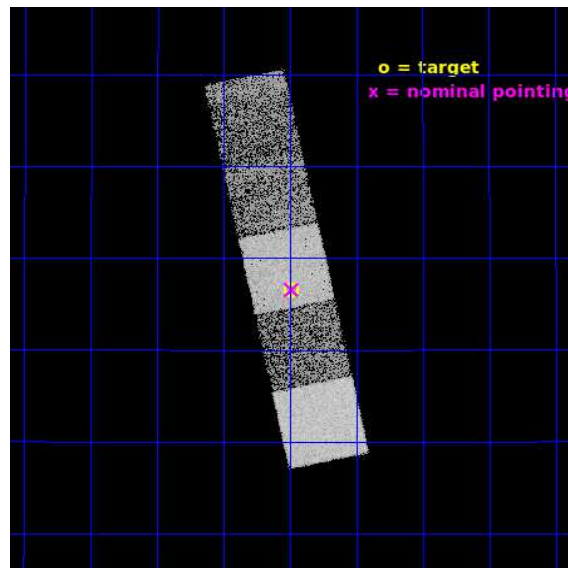
L2 Processing Date : Oct 26 2020

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1 Front

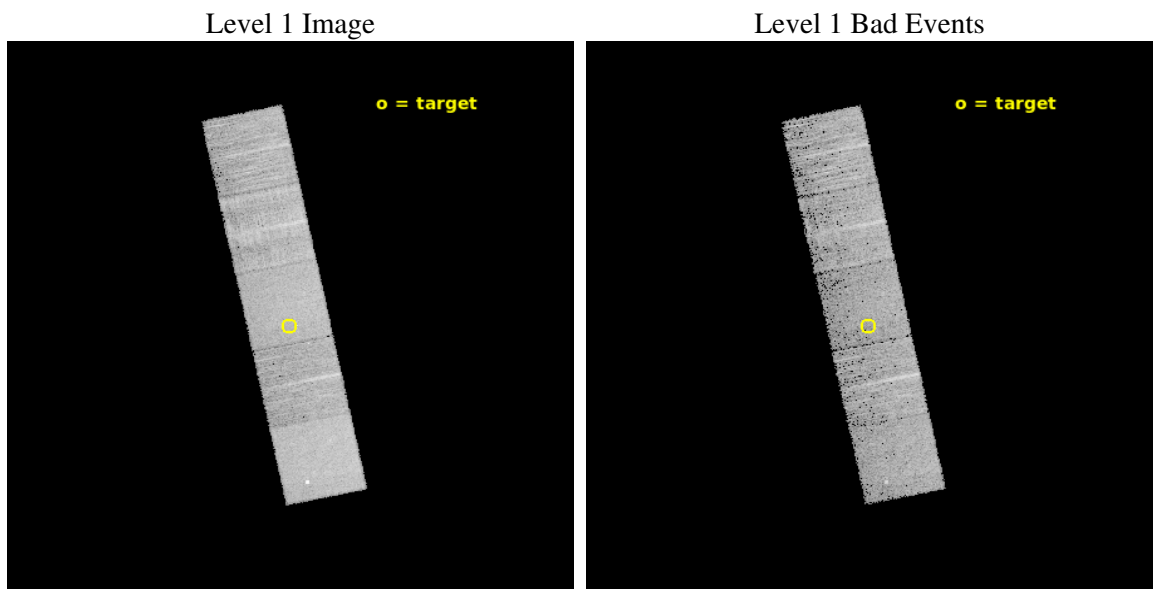
seq_num	703665	Sequence number
obs_id	21024	Observation id
title	LOW SURFACE BRIGHTNESS GALAXIES AND THE BLACK HOLE OCCUPATION FRACTION	Proposal title
observer	Elena Gallo	Principal investigator
object	UGC 05005	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	141.1225	Observer's specified target RA [deg]
dec_targ	22.274806	Observer's specified target Dec [deg]
ra_nom	141.12129054204	Nominal RA [deg]
dec_nom	22.276162480408	Nominal Dec [deg]
roll_nom	257.98662382065	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5852.8000451326	Sum of GTIs [s]
livetime	5776.3289037743	Livetime [s]
ontime5	5852.8000451326	Sum of GTIs [s]
ontime6	5852.8000451326	Sum of GTIs [s]
ontime7	5852.8000451326	Sum of GTIs [s]
ontime8	5852.8000451326	Sum of GTIs [s]
ontime9	5852.8000451326	Sum of GTIs [s]
l2events	69178	Number of level 2 events



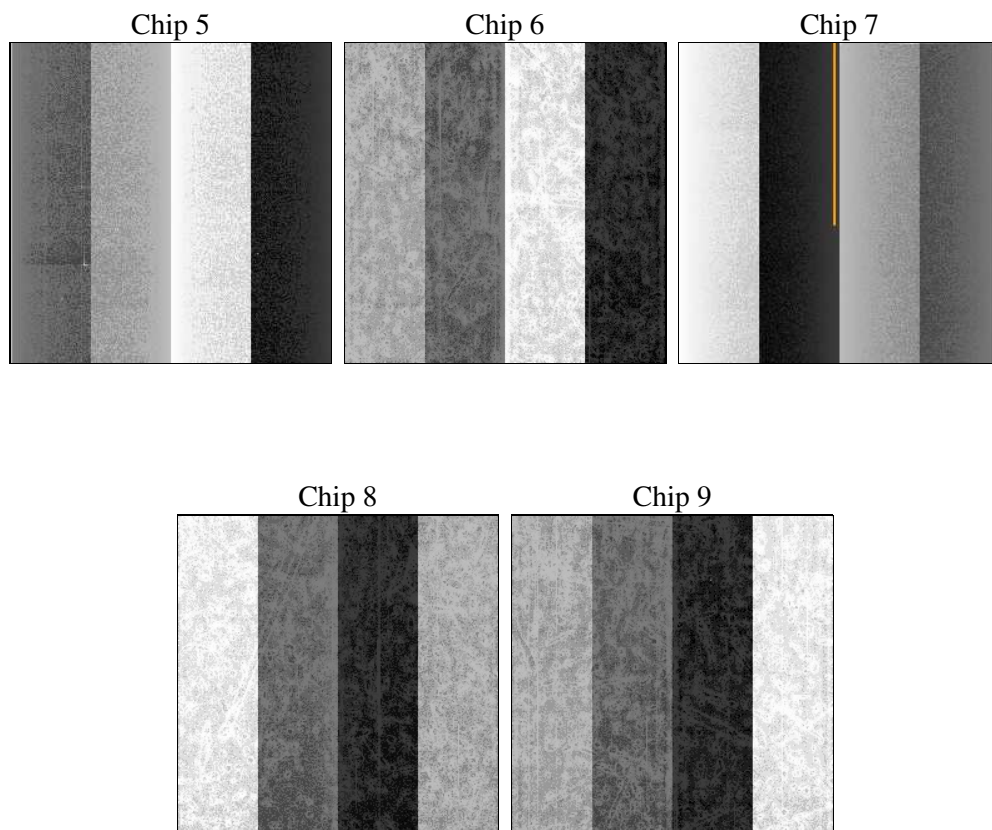
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5800.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	5852.8000451326	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	5852.8000451326	Sum of GTIs [s]
date	2020-10-26T09:32:43	Date and time of file creation	ontime6	5852.8000451326	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	5852.8000451326	Sum of GTIs [s]
			ontime8	5852.8000451326	Sum of GTIs [s]
			ontime9	5852.8000451326	Sum of GTIs [s]
			l1events	270396	Number of level 1 events

2.1.4 Events

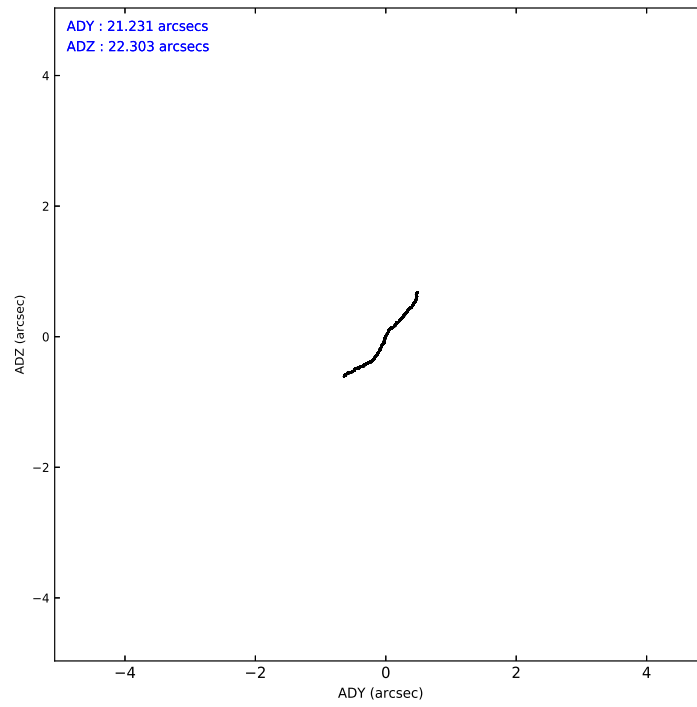
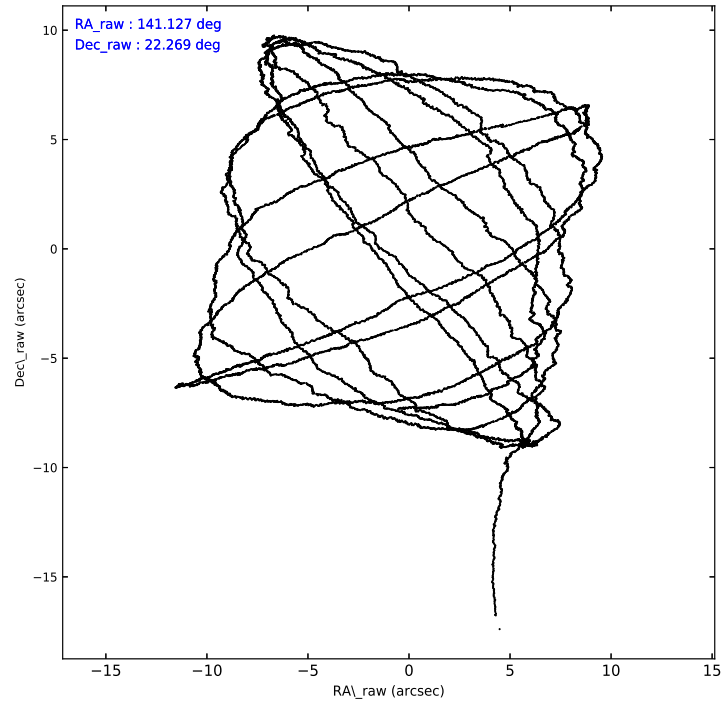
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	69030	43936	55553	56851	45026
rejected events	35900	38975	31387	40595	39764
rejected %	52%	88%	56%	71%	88%

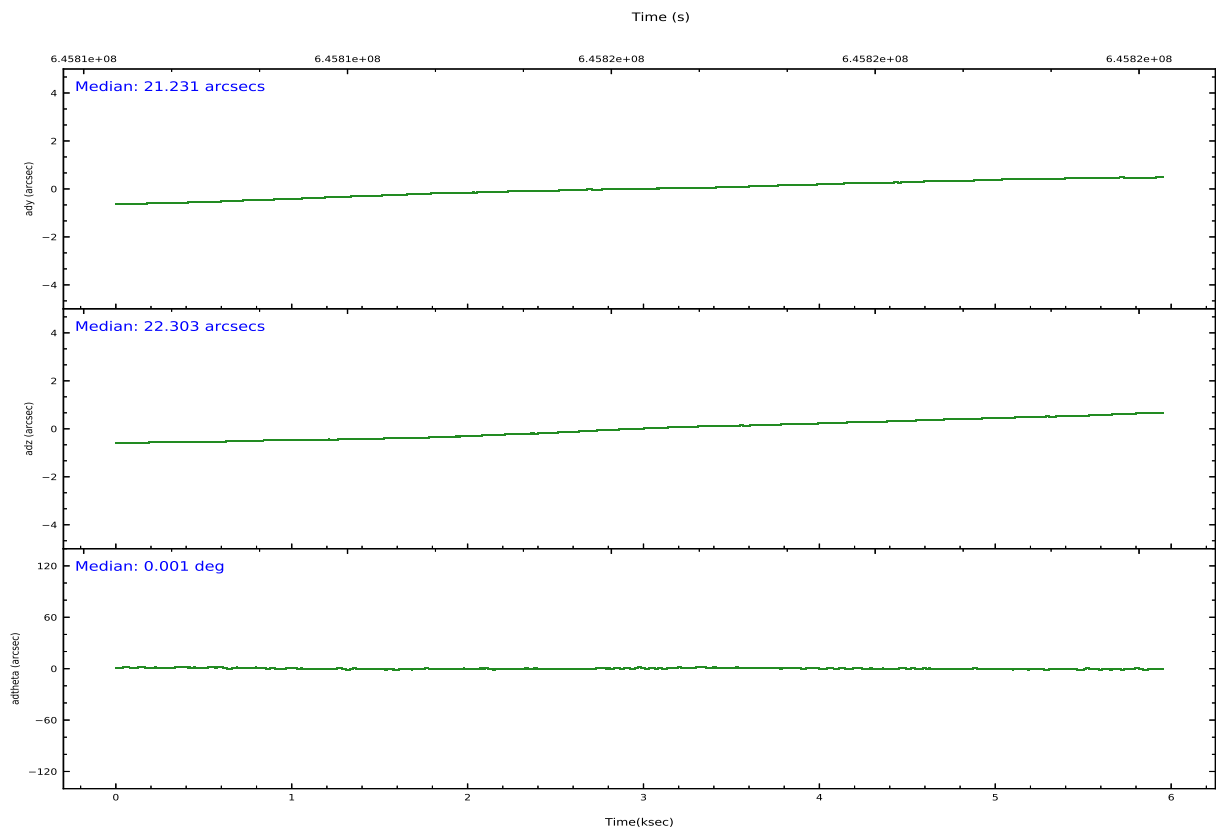
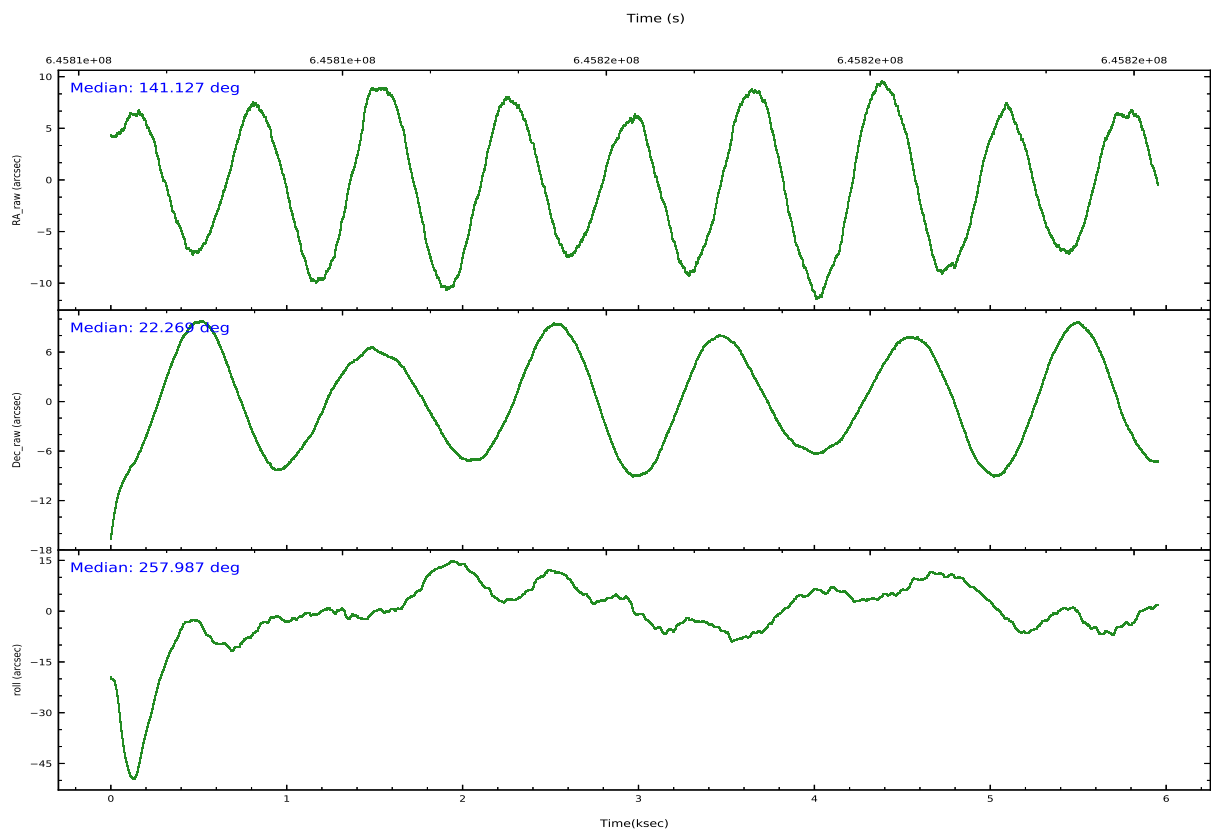
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	2029	1669	2023	4649	1816
	2%	3%	3%	8%	4%
grade 1 events	156	24	75	59	34
	0%	0%	0%	0%	0%
grade 2 events	10689	1162	5168	3951	1245
	15%	2%	9%	6%	2%
grade 3 events	1037	497	1966	1612	511
	1%	1%	3%	2%	1%
grade 4 events	935	461	1901	1534	508
	1%	1%	3%	2%	1%
grade 5 events	4933	1999	5421	3102	2244
	7%	4%	9%	5%	4%
grade 6 events	18460	1174	13123	4514	1185
	26%	2%	23%	7%	2%
grade 7 events	30791	36950	25876	37430	37483
	44%	84%	46%	65%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-56789	ACIS-56789	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	141.117075	141.12129054204	CCD I2 on	N	N
[deg] Pointing Dec	22.294870	22.276162480408	CCD I3 on	N	N
[deg] Pointing Roll	257.835179	257.98662382065	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	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	645812838.184000	645811679.84187	CCD S5 on	O2	Y
Observation start date	2018-06-19T16:26:09	2018-06-19T16:07:59	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	645818638.184000	645819429.35483	On-chip summing requested	N	N
Observation end date	2018-06-19T18:02:49	2018-06-19T18:17:09	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



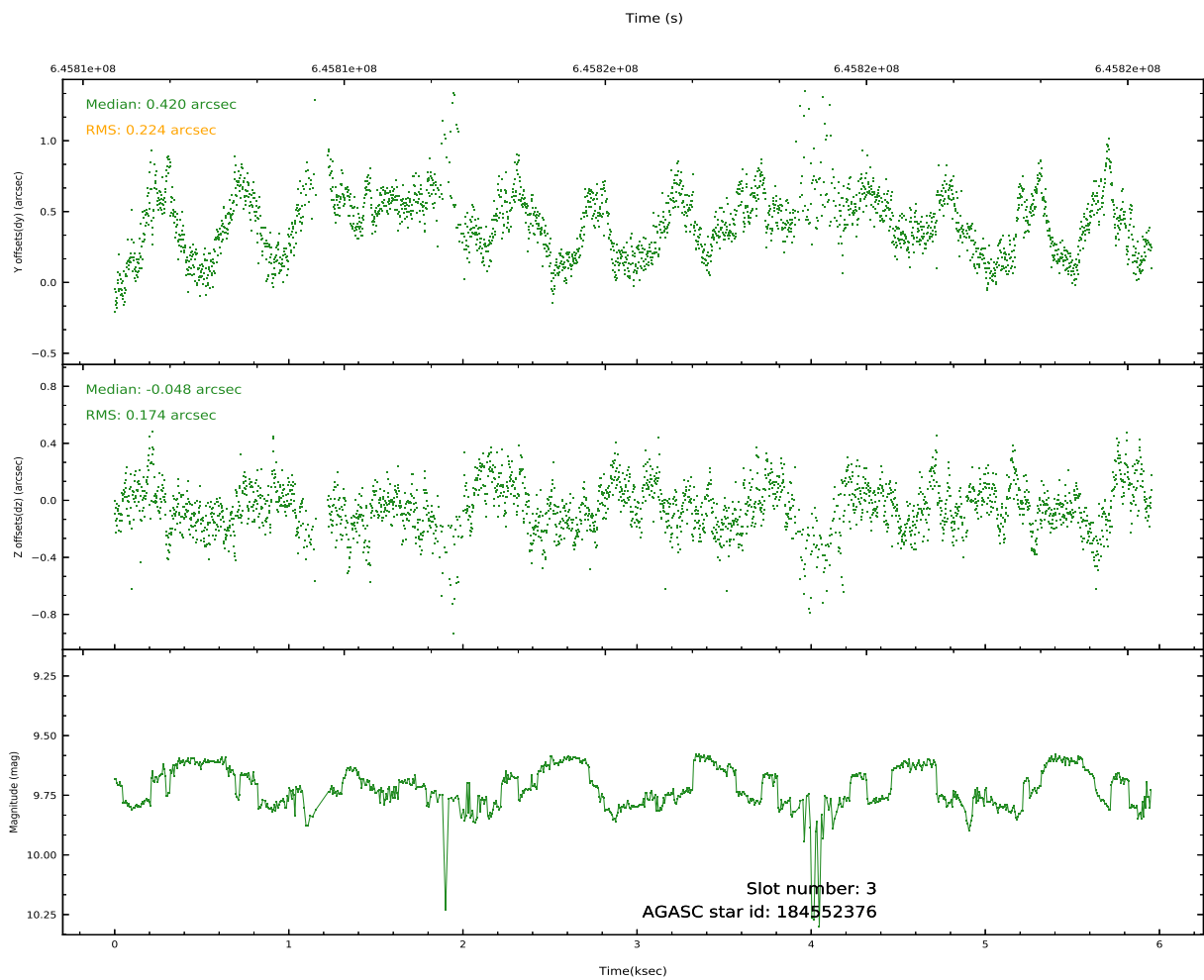
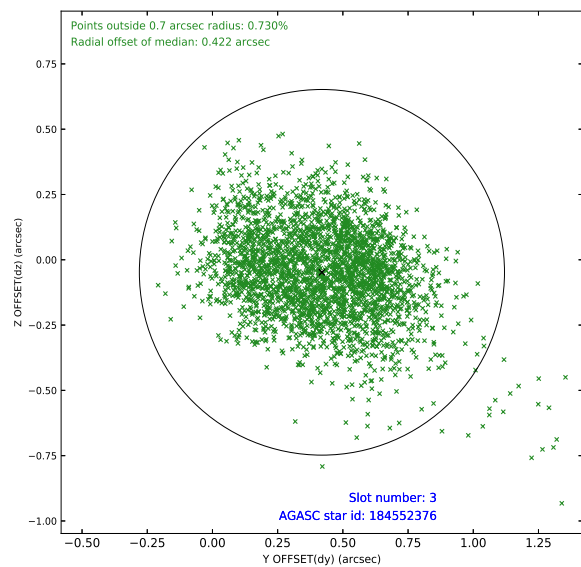
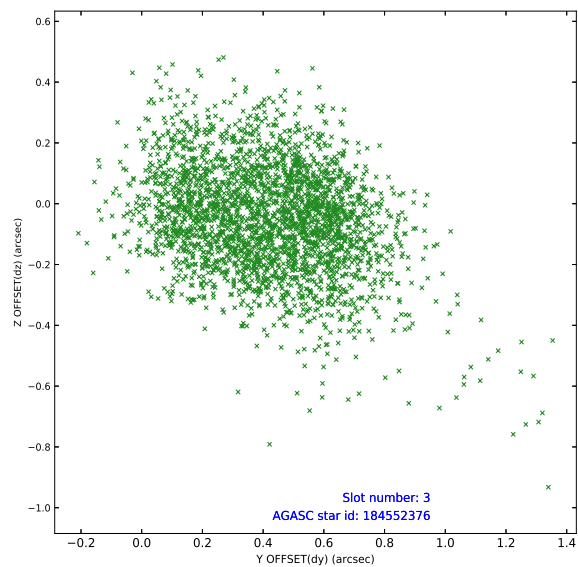


Slot Statistics

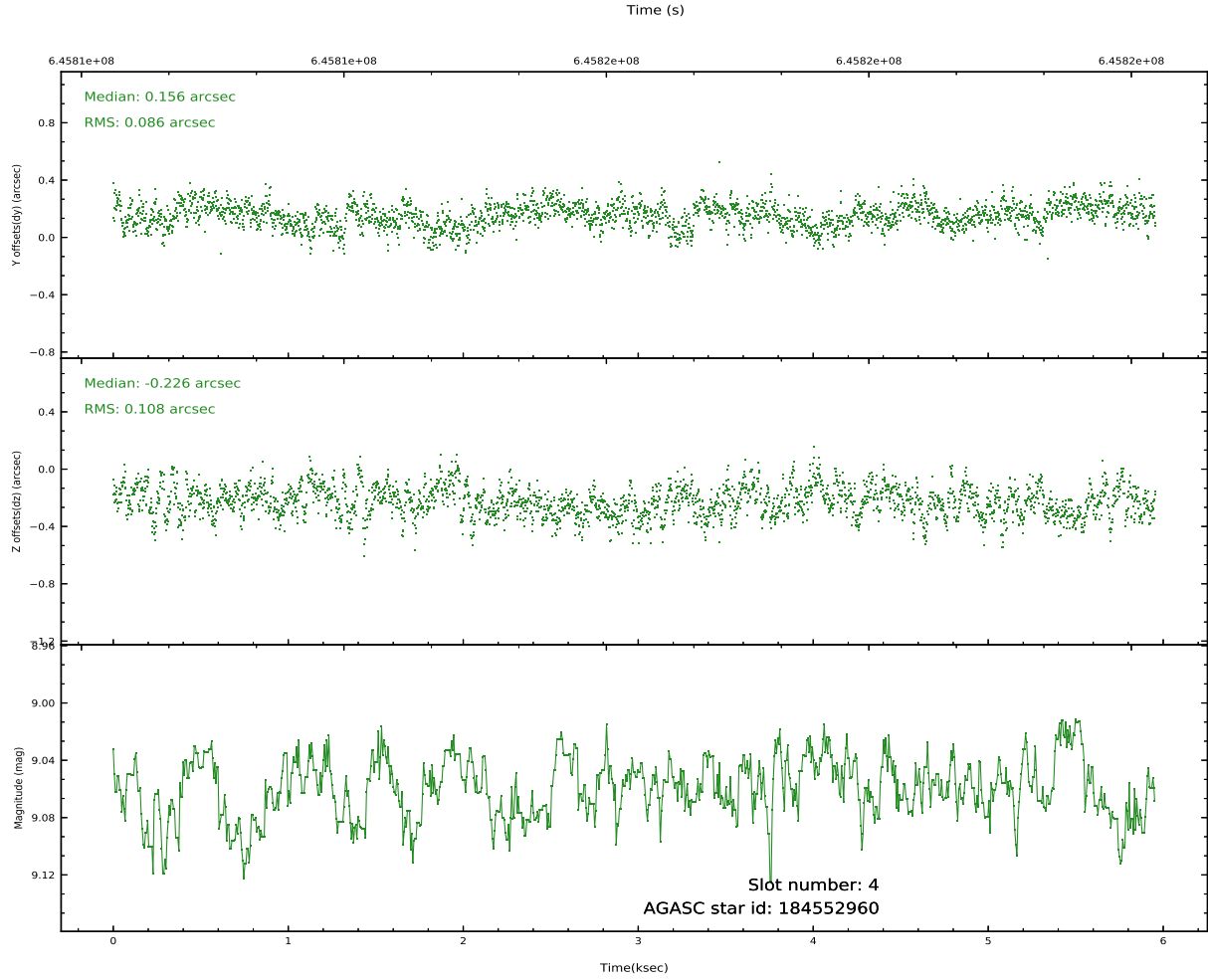
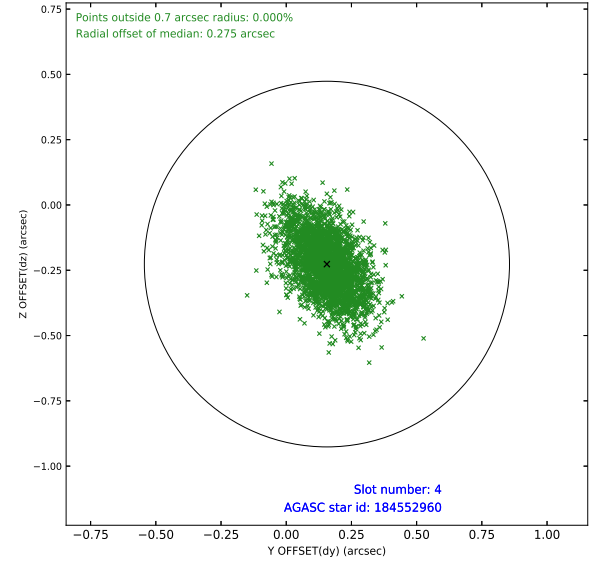
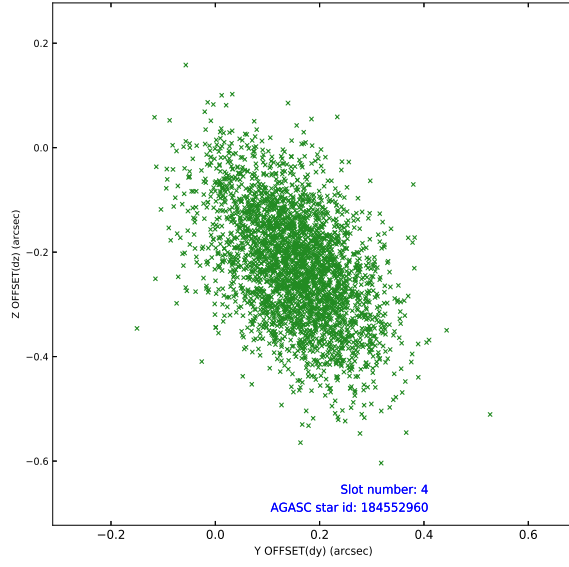
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.03	1453	1.000	0.040	0.011	0.014	0.036	0.000000	0.000000	-774.48	-1743
1	FID		ACIS-S-4	7.15	1453	1.000	0.057	-0.082	0.013	0.027	0.000000	0.000000	2138.53	163
2	FID		ACIS-S-6	7.30	1453	1.000	-0.123	0.079	0.009	0.015	0.000000	0.000000	388.84	802
3	GUIDE	used	184552376	9.73	2739	1.000	0.420	-0.048	0.296	0.469	140.433557	21.960587	1652.79	-1978
4	GUIDE	used	184552960	9.06	2903	1.000	0.156	-0.226	0.142	0.245	141.217775	21.713128	1977.18	769
5	GUIDE	used	255858560	8.03	2905	1.000	-0.238	-0.011	0.125	0.215	141.255050	22.799346	-1870.71	64
6	GUIDE	used	255865528	9.12	2905	1.000	-0.181	0.038	0.171	0.277	141.409086	22.632255	-1393.23	691
7	GUIDE	used	255858816	8.51	2904	1.000	-0.129	0.249	0.144	0.231	141.533529	22.644846	-1525.48	1087

2.4 Star Slots

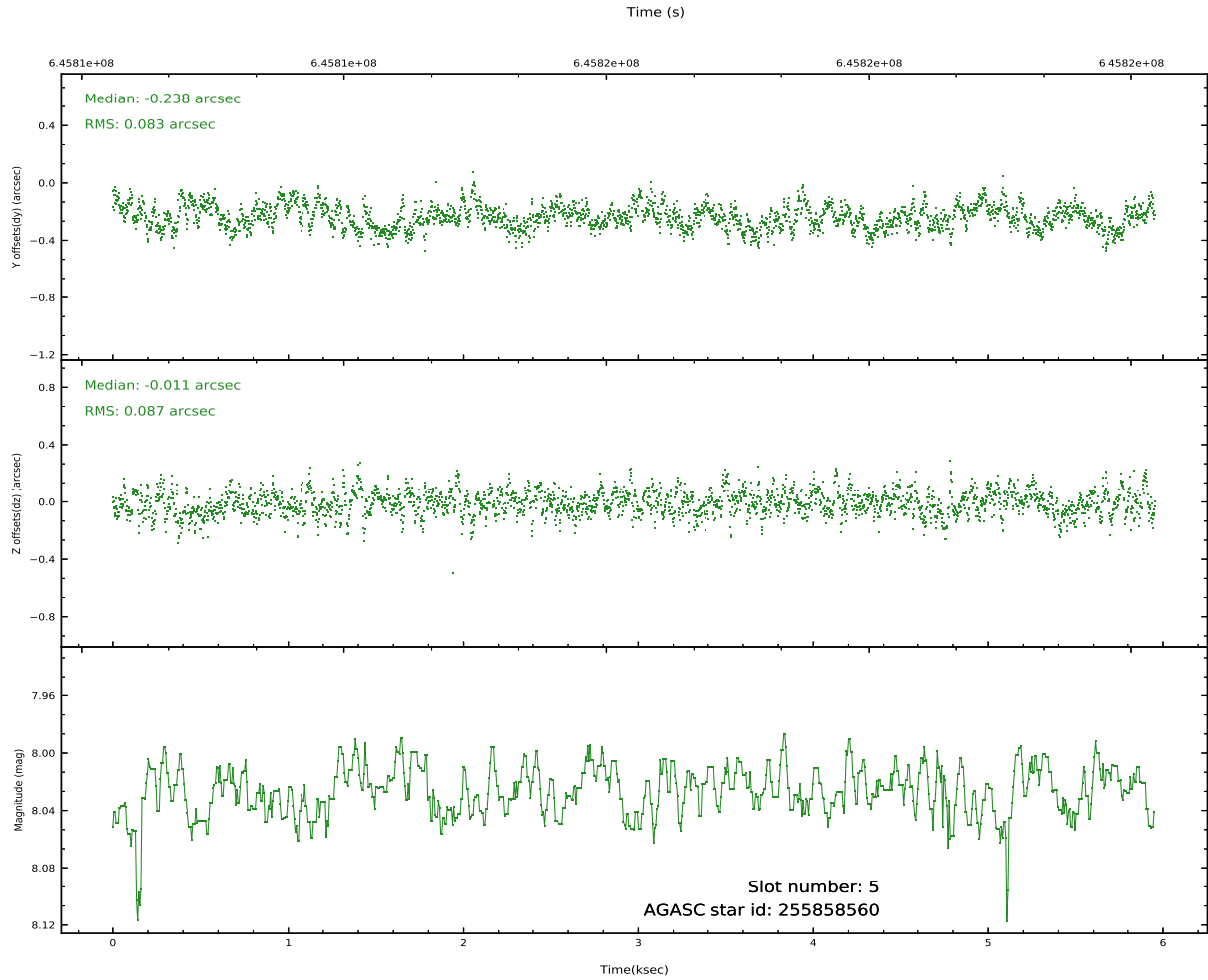
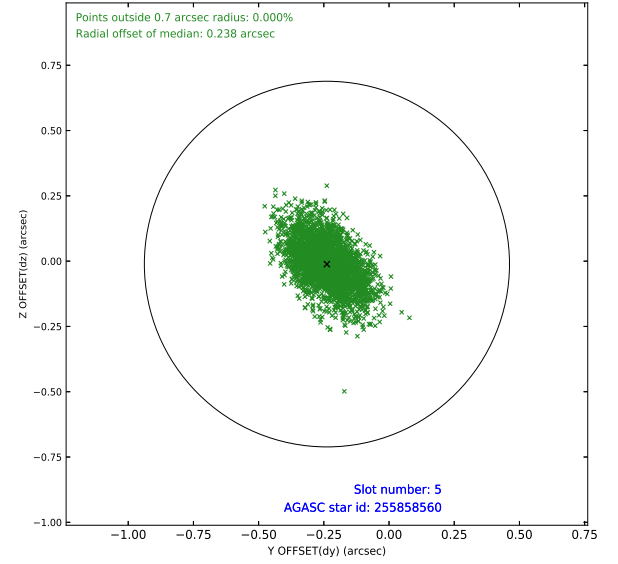
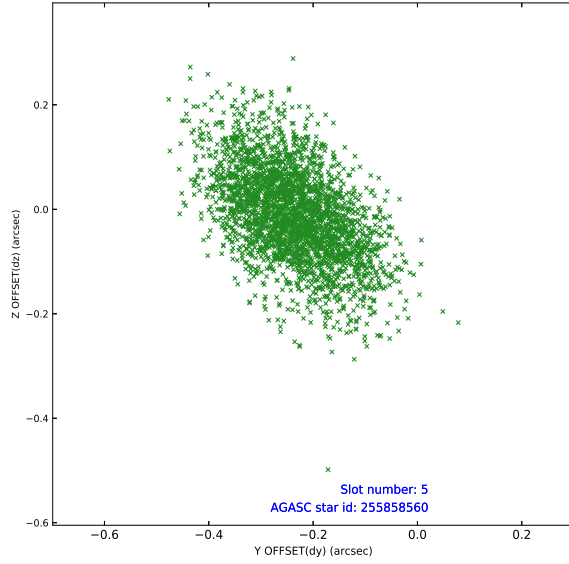
2.4.1 Slot 3



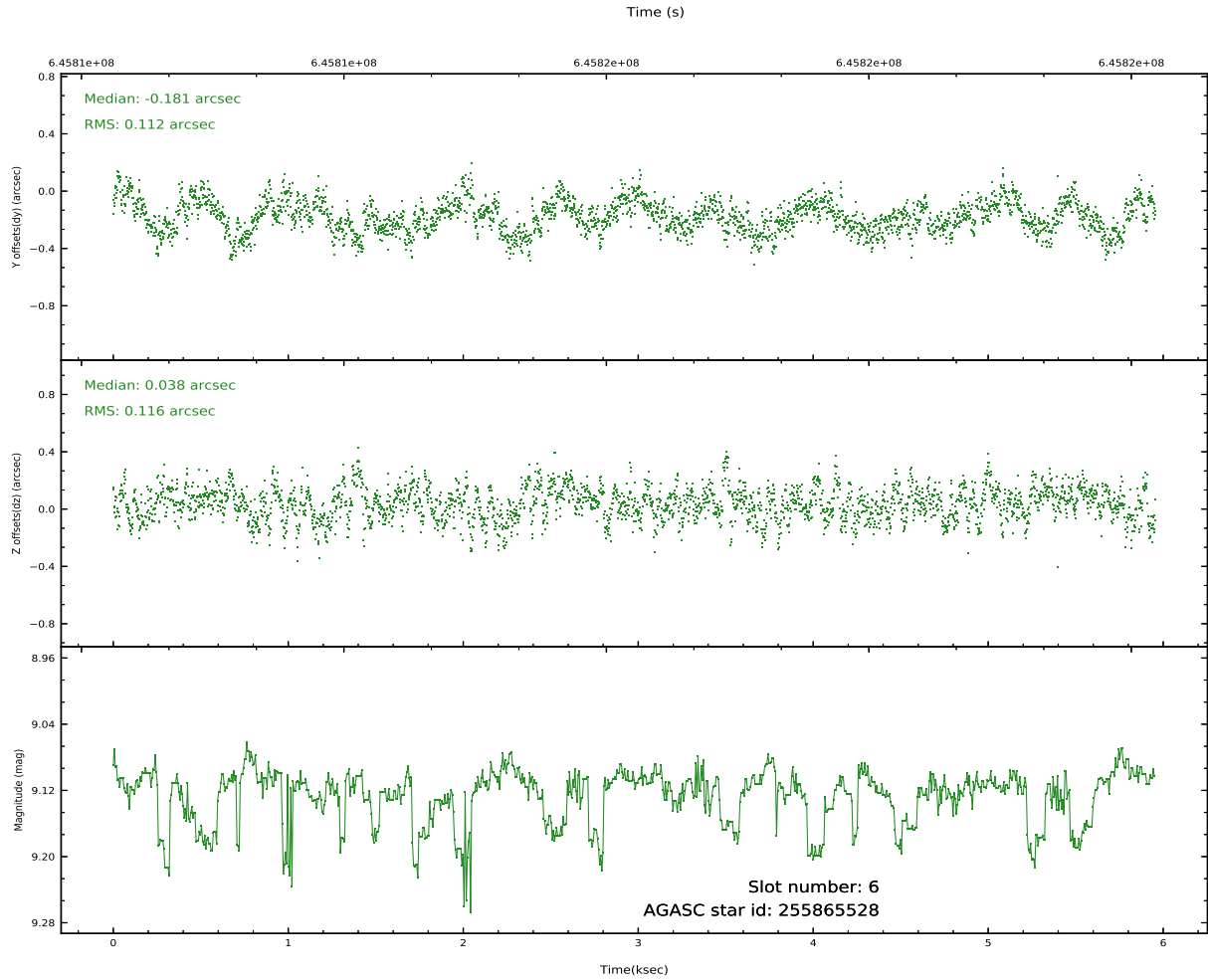
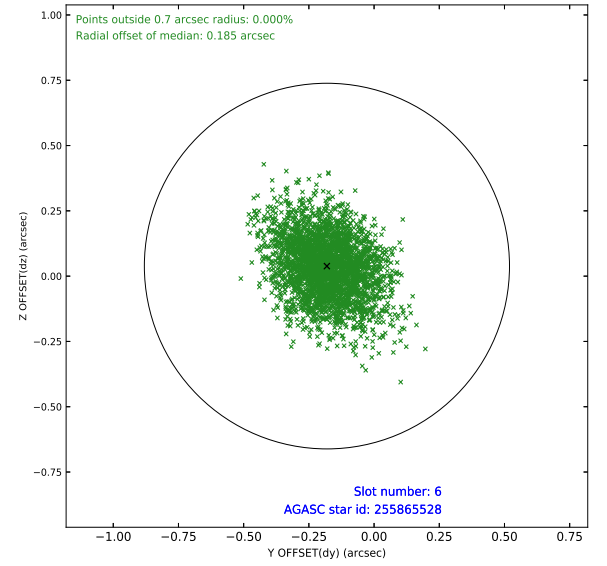
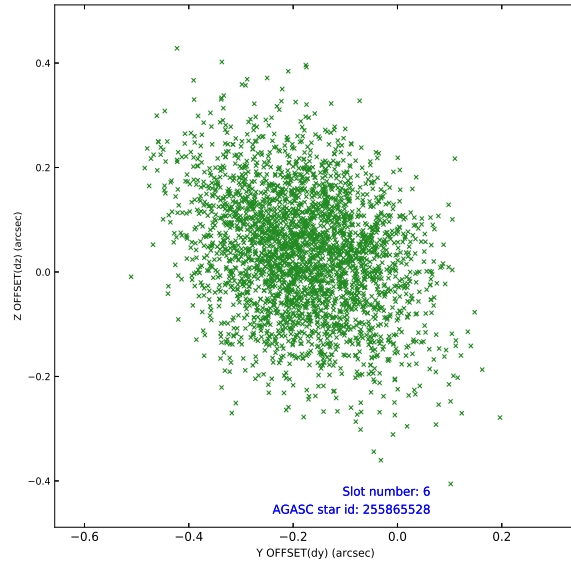
2.4.2 Slot 4



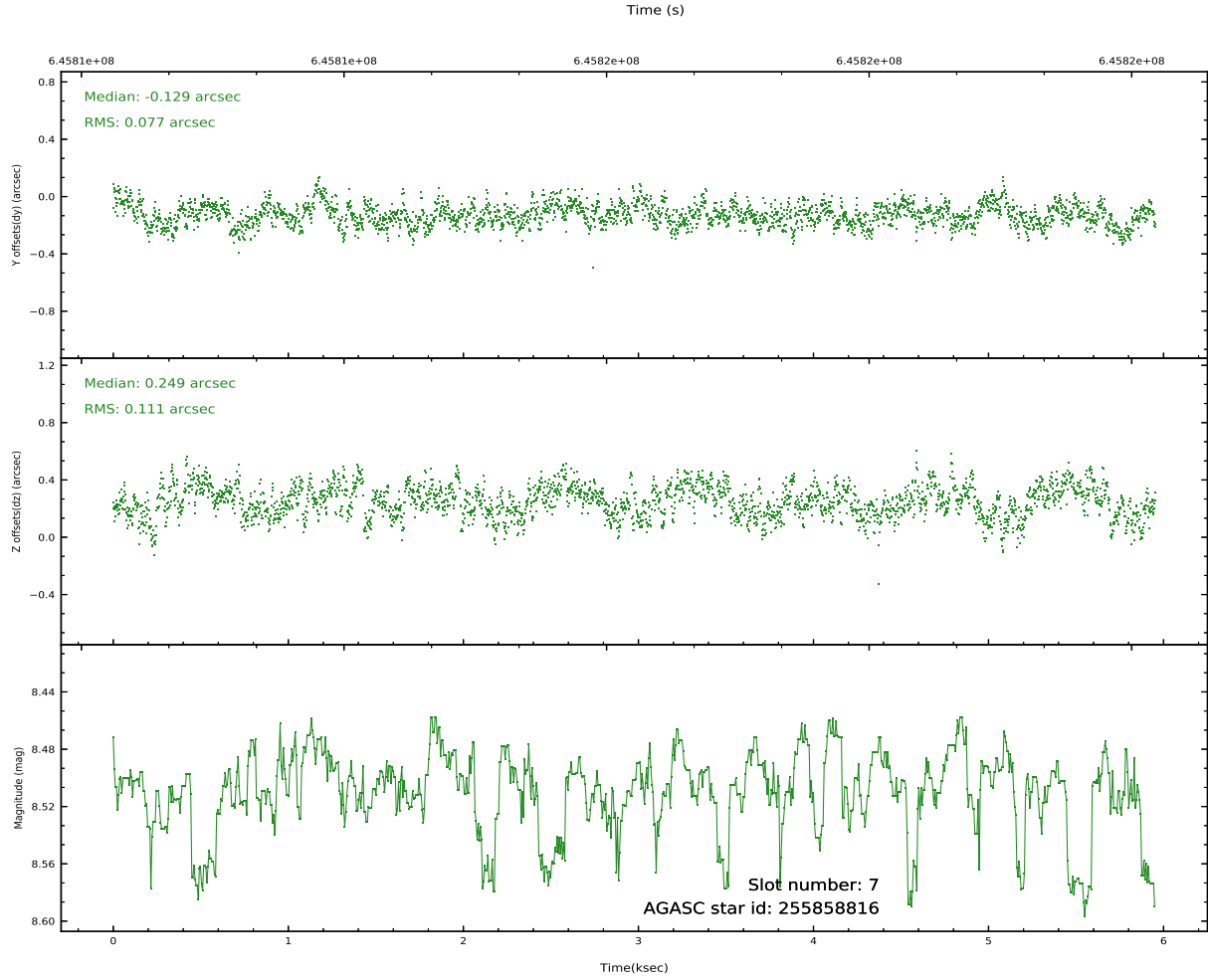
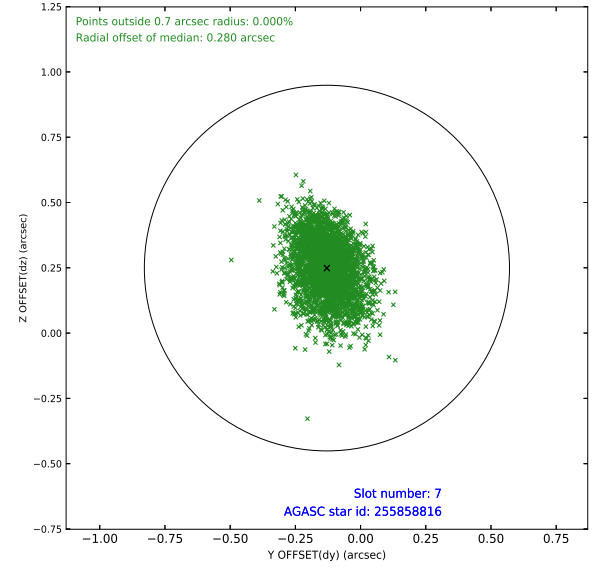
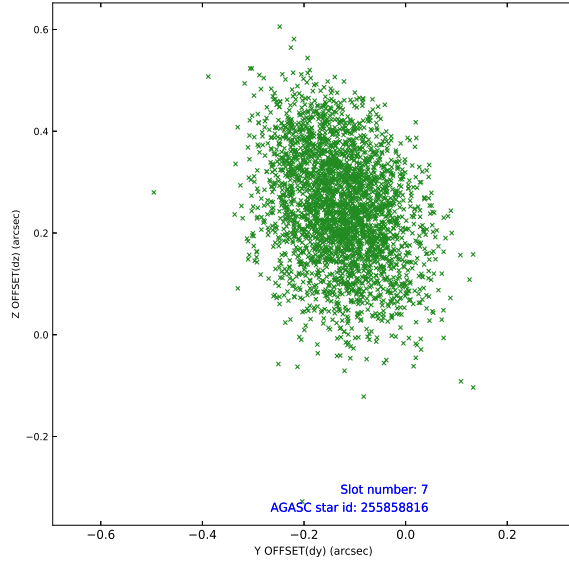
2.4.3 Slot 5



2.4.4 Slot 6

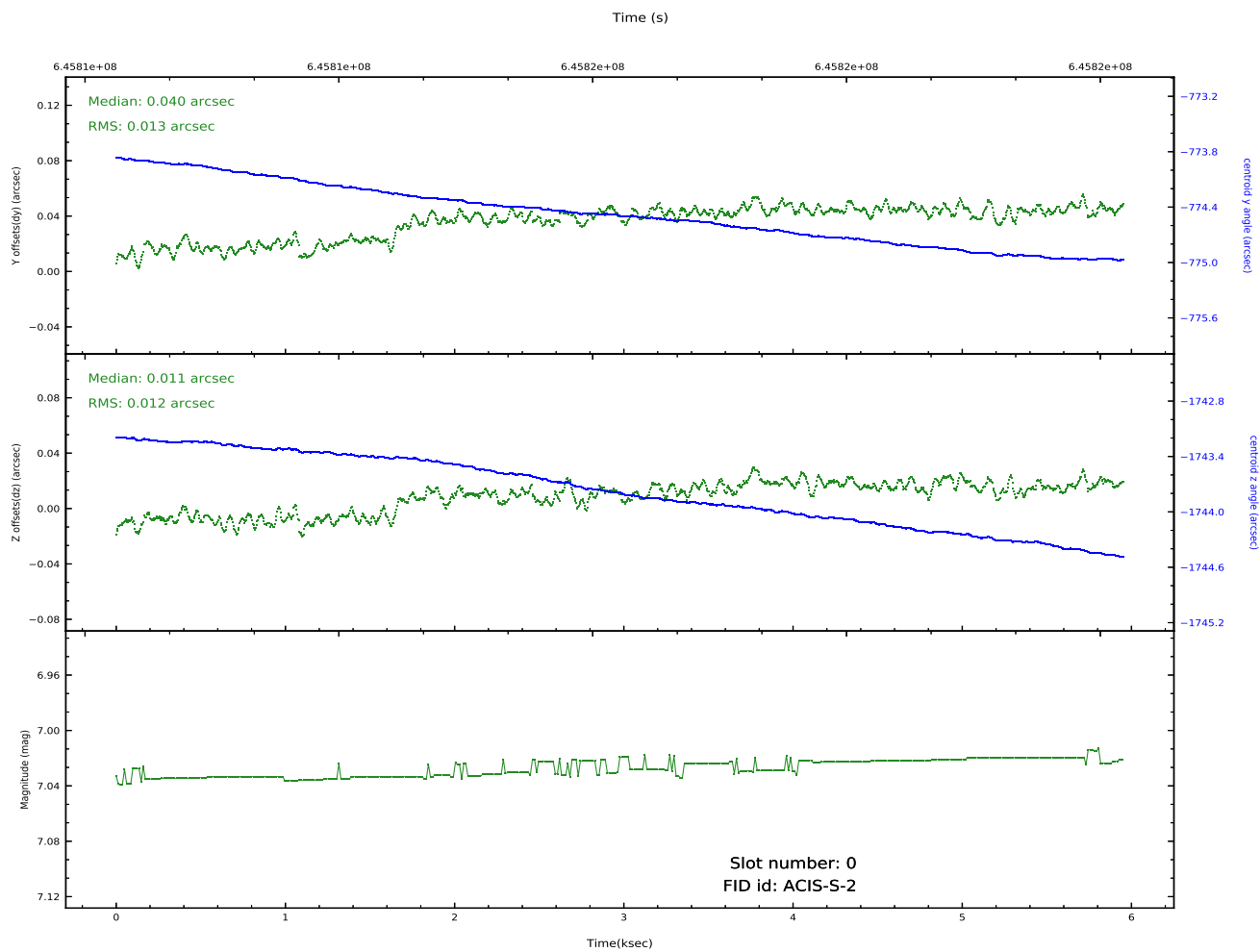
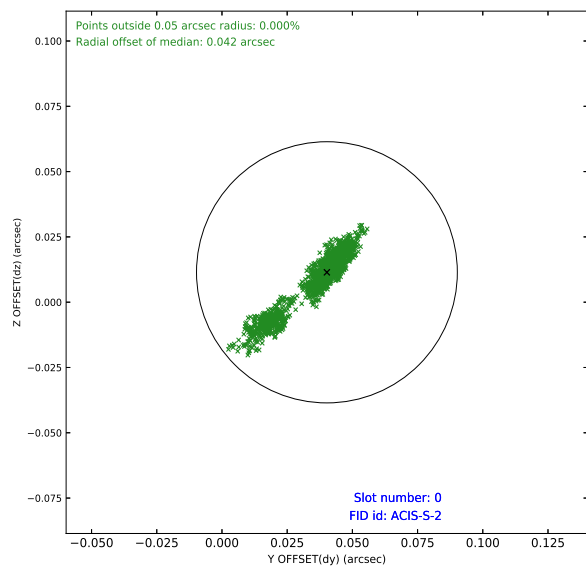
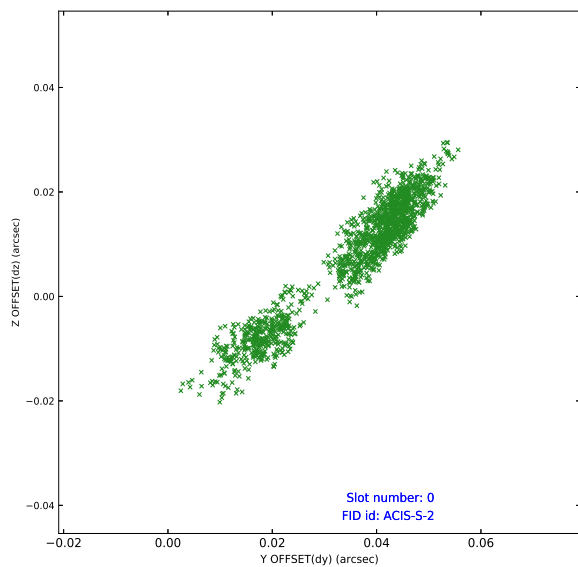


2.4.5 Slot 7

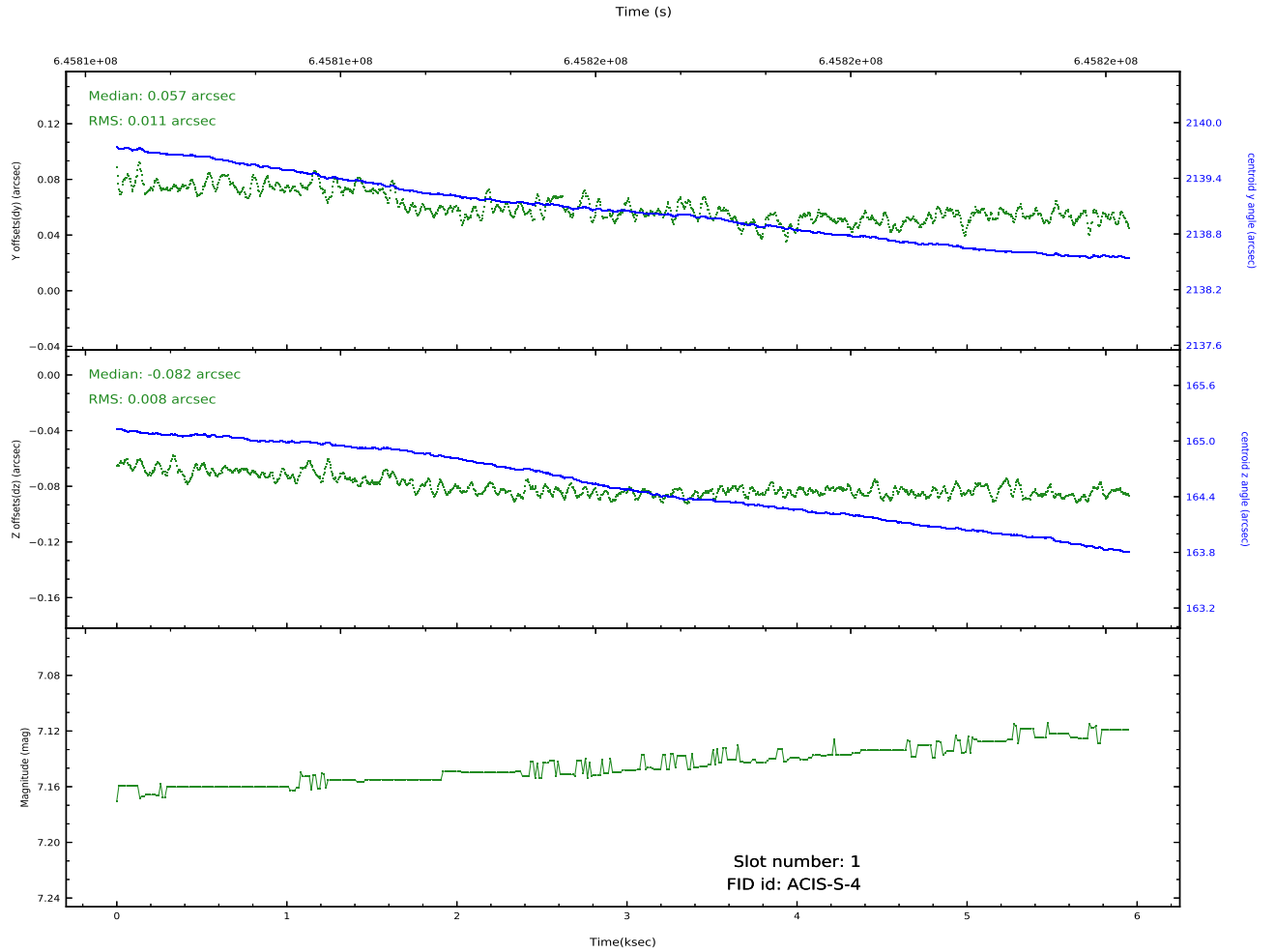
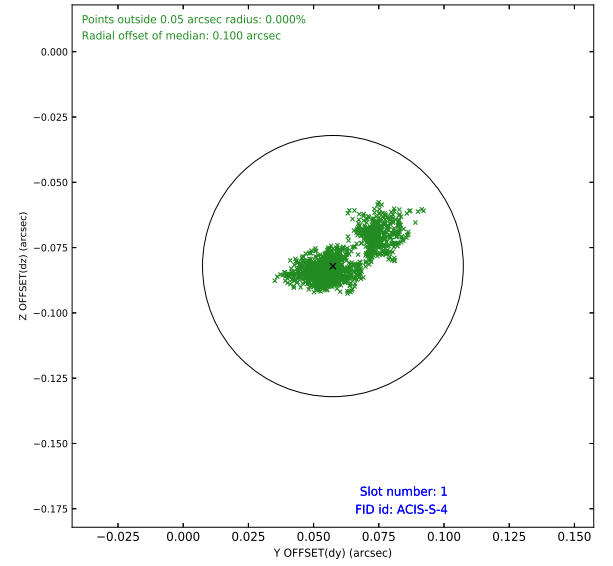
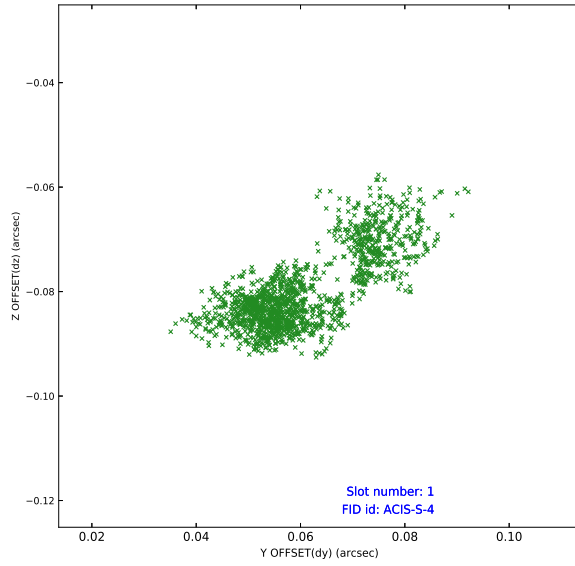


2.5 FID Slots

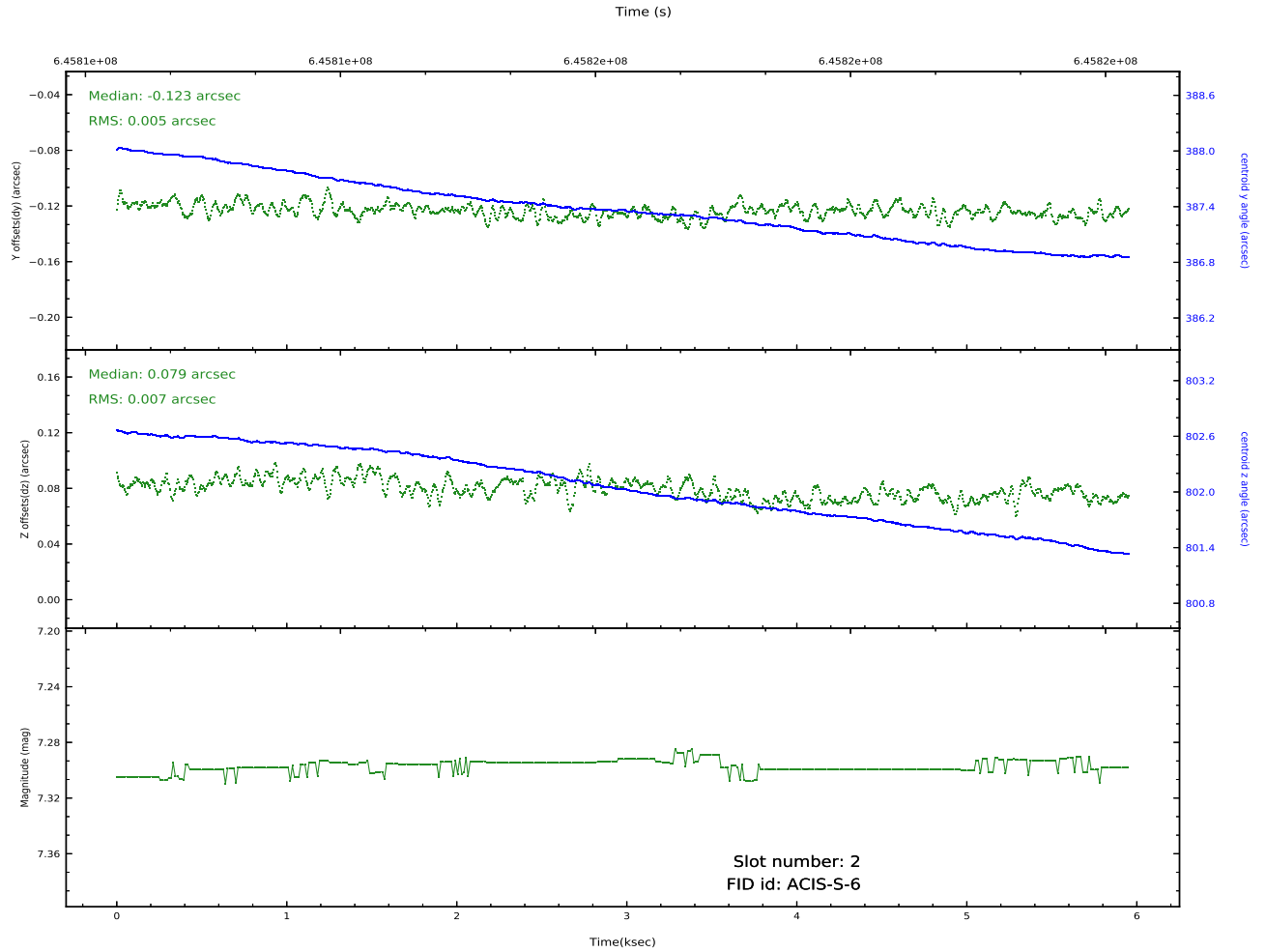
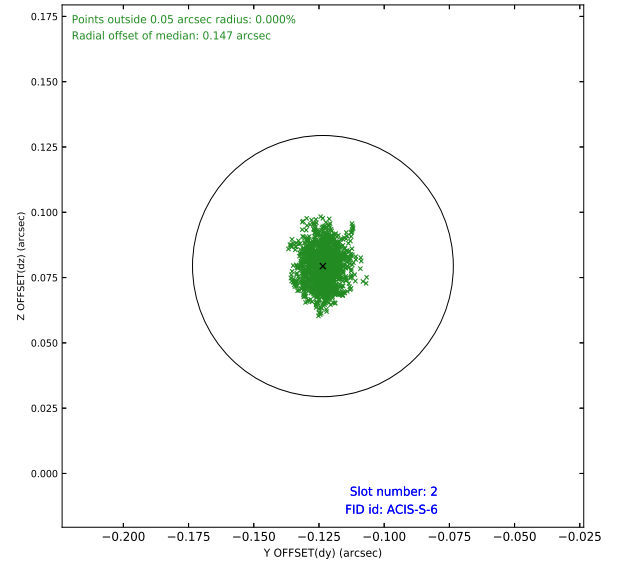
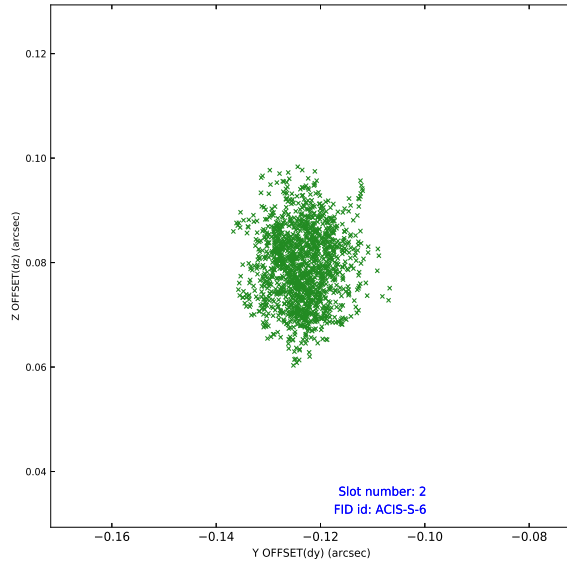
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.8528000451326

A.2 Comments