

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4492 - L2 Version 4
Chandra X-Ray Center

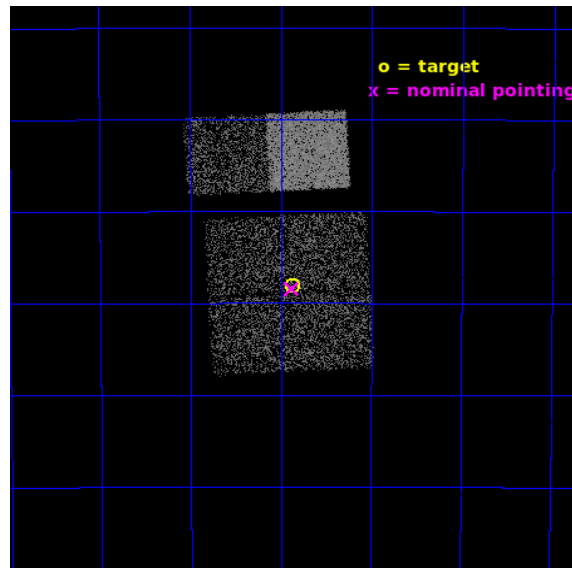
L2 Processing Date : Sep 23 2020

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

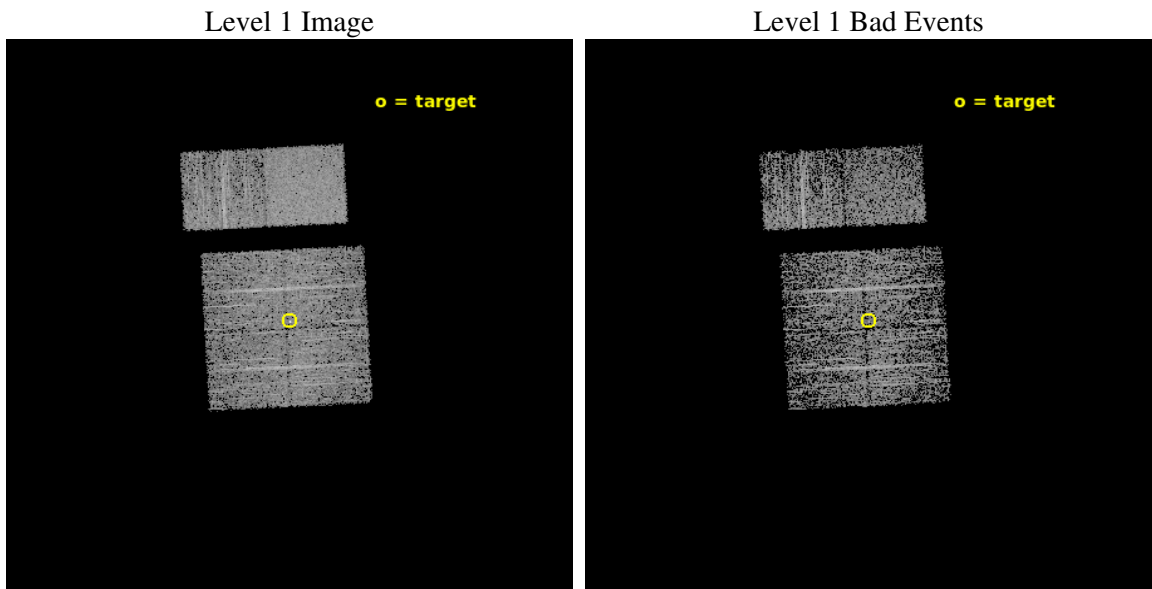
seq_num	200261	Sequence number
obs_id	4492	Observation id
title	Planet formation and the missing 10 Myr old stars	Proposal title
observer	Eric Feigelson	Principal investigator
object	HIP 42177	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	128.966667	Observer's specified target RA [deg]
dec_targ	-50.969444	Observer's specified target Dec [deg]
ra_nom	128.96964295576	Nominal RA [deg]
dec_nom	-50.974098975548	Nominal Dec [deg]
roll_nom	357.02711186972	Nominal Roll [deg]
revision	4	Processing version of data
ontime	3148.7999882698	Sum of GTIs [s]
livetime	3108.9279868386	Livetime [s]
ontime0	3148.7999882698	Sum of GTIs [s]
ontime1	3148.7999882698	Sum of GTIs [s]
ontime2	3148.7999882698	Sum of GTIs [s]
ontime3	3148.7999882698	Sum of GTIs [s]
ontime6	3148.7999882698	Sum of GTIs [s]
ontime7	3148.7999882698	Sum of GTIs [s]
l2events	20585	Number of level 2 events



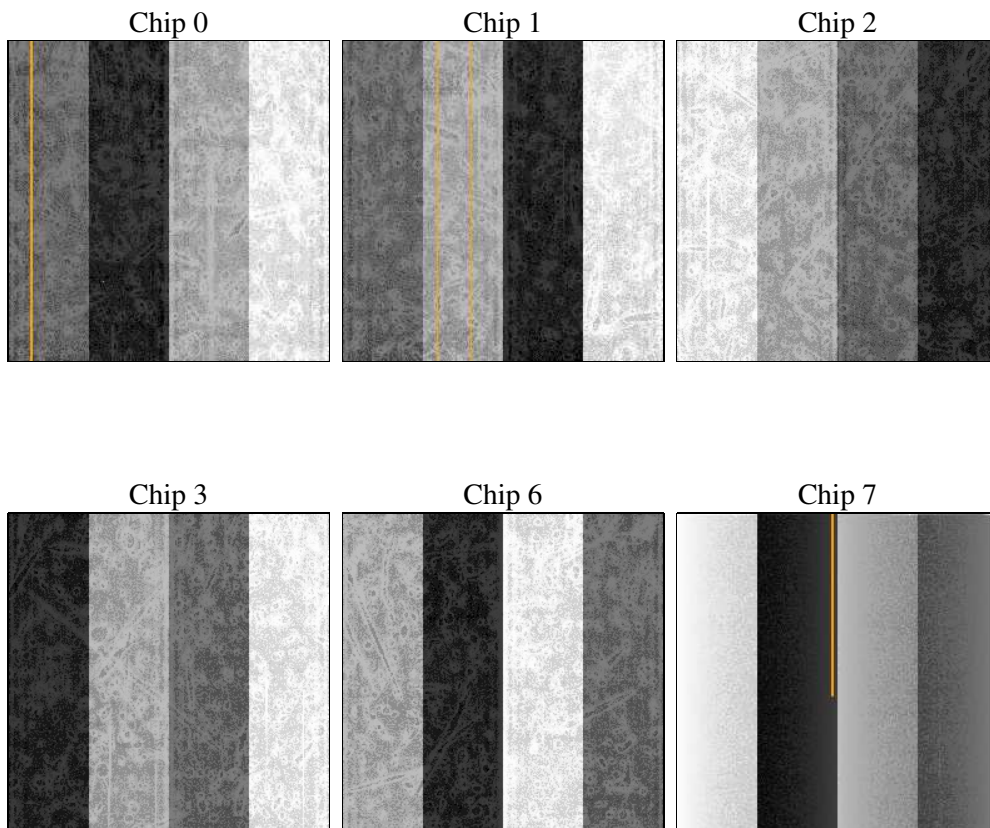
2 OBI

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	3148.7999882698	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	3148.7999882698	Sum of GTIs [s]
date	2020-09-23T16:42:44	Date and time of file creation	ontime1	3148.7999882698	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	3148.7999882698	Sum of GTIs [s]
			ontime3	3148.7999882698	Sum of GTIs [s]
			ontime6	3148.7999882698	Sum of GTIs [s]
			ontime7	3148.7999882698	Sum of GTIs [s]
			l1events	132682	Number of level 1 events

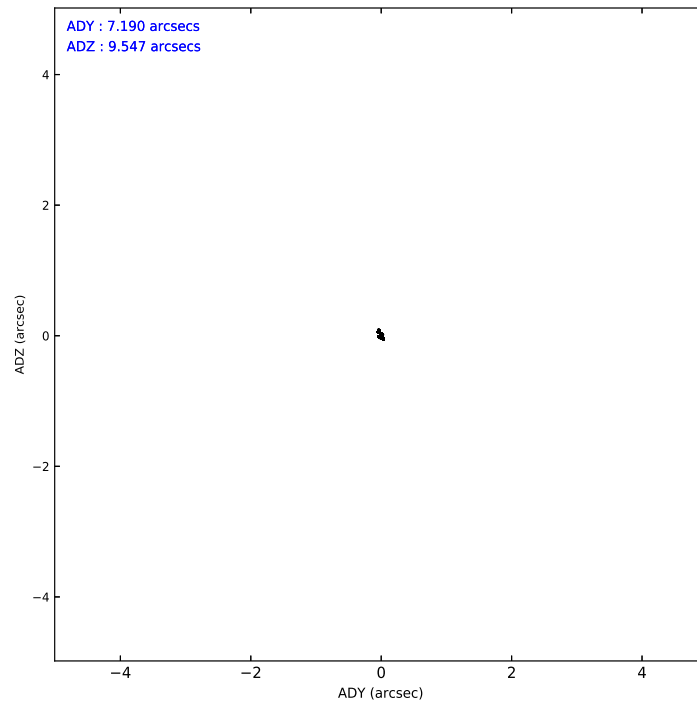
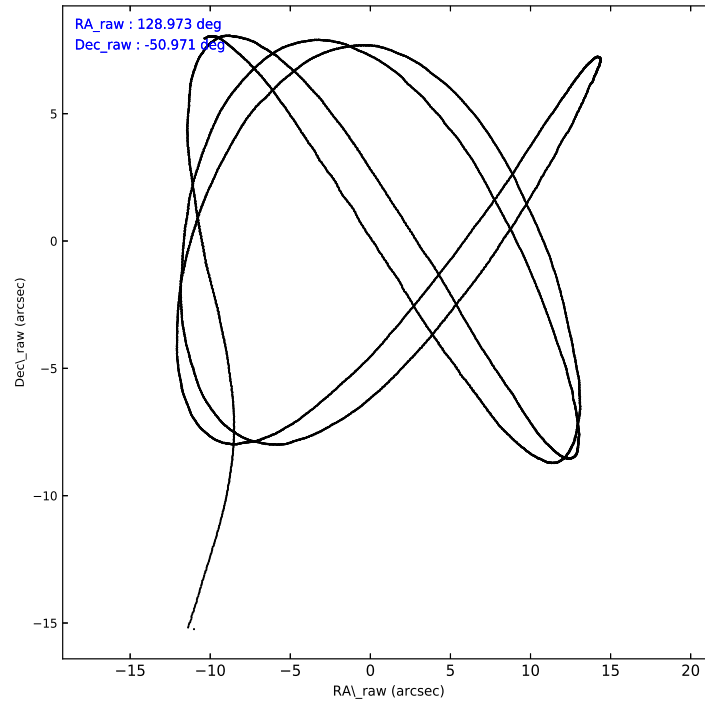
2.1.4 Events

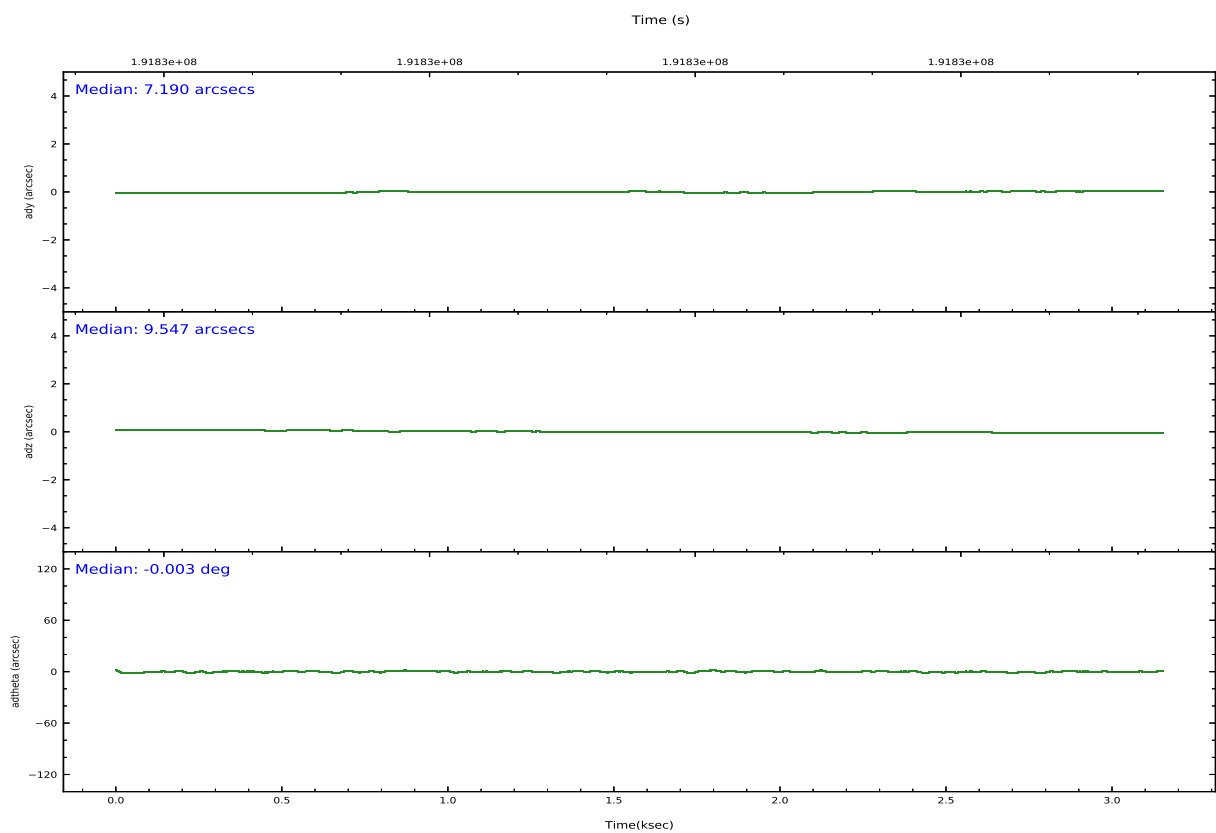
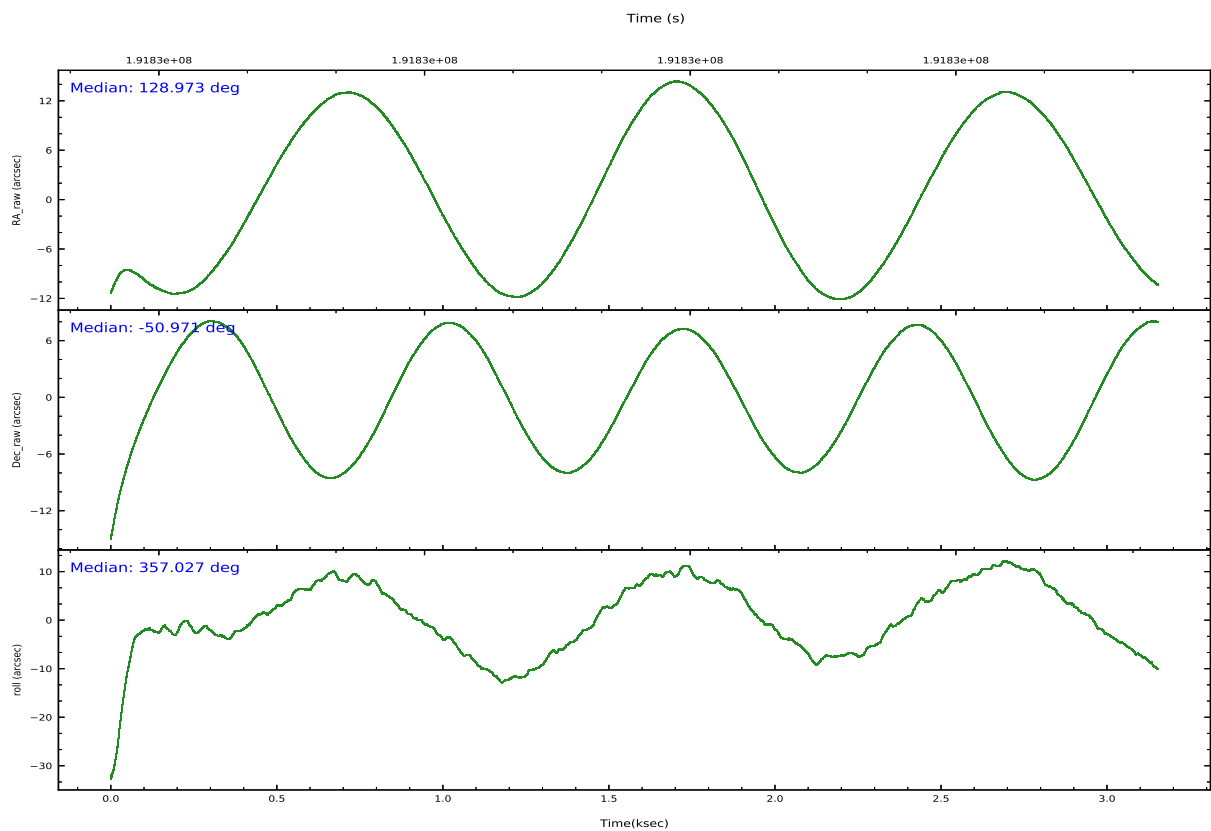
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	18963	20829	20473	21019	22457	28941	grade 0 events	1085	1100	1117	1468	1044	1088
rejected events	16760	18338	18291	18328	20158	18292		5%	5%	5%	6%	4%	3%
rejected %	88%	88%	89%	87%	89%	63%	grade 1 events	11	12	14	43	15	18
								0%	0%	0%	0%	0%	0%
							grade 2 events	500	605	474	541	537	2368
								2%	2%	2%	2%	2%	8%
							grade 3 events	262	250	239	259	238	1075
								1%	1%	1%	1%	1%	3%
							grade 4 events	210	271	212	277	228	1101
								1%	1%	1%	1%	1%	3%
							grade 5 events	852	998	897	995	1042	2760
								4%	4%	4%	4%	4%	9%
							grade 6 events	442	563	398	457	591	6290
								2%	2%	1%	2%	2%	21%
							grade 7 events	15601	17030	17122	16979	18762	14241
								82%	81%	83%	80%	83%	49%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-012367	ACIS-012367	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	128.934622	128.96964295576	Subarray requested	NONE	NONE
[deg] Pointing Dec	-50.984007	-50.974098975548	Alternating exposures requested	N	N
[deg] Pointing Roll	356.788968	357.02711186972	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	191830410.184000	191829166.74558			
Observation start date	2004-01-30T06:12:26	2004-01-30T05:52:46			
[s] Observation end time (MET)	191833410.184000	191834083.6708			
Observation end date	2004-01-30T07:02:26	2004-01-30T07:14:43			
Read mode	TIMED	TIMED			

2.3 Aspect



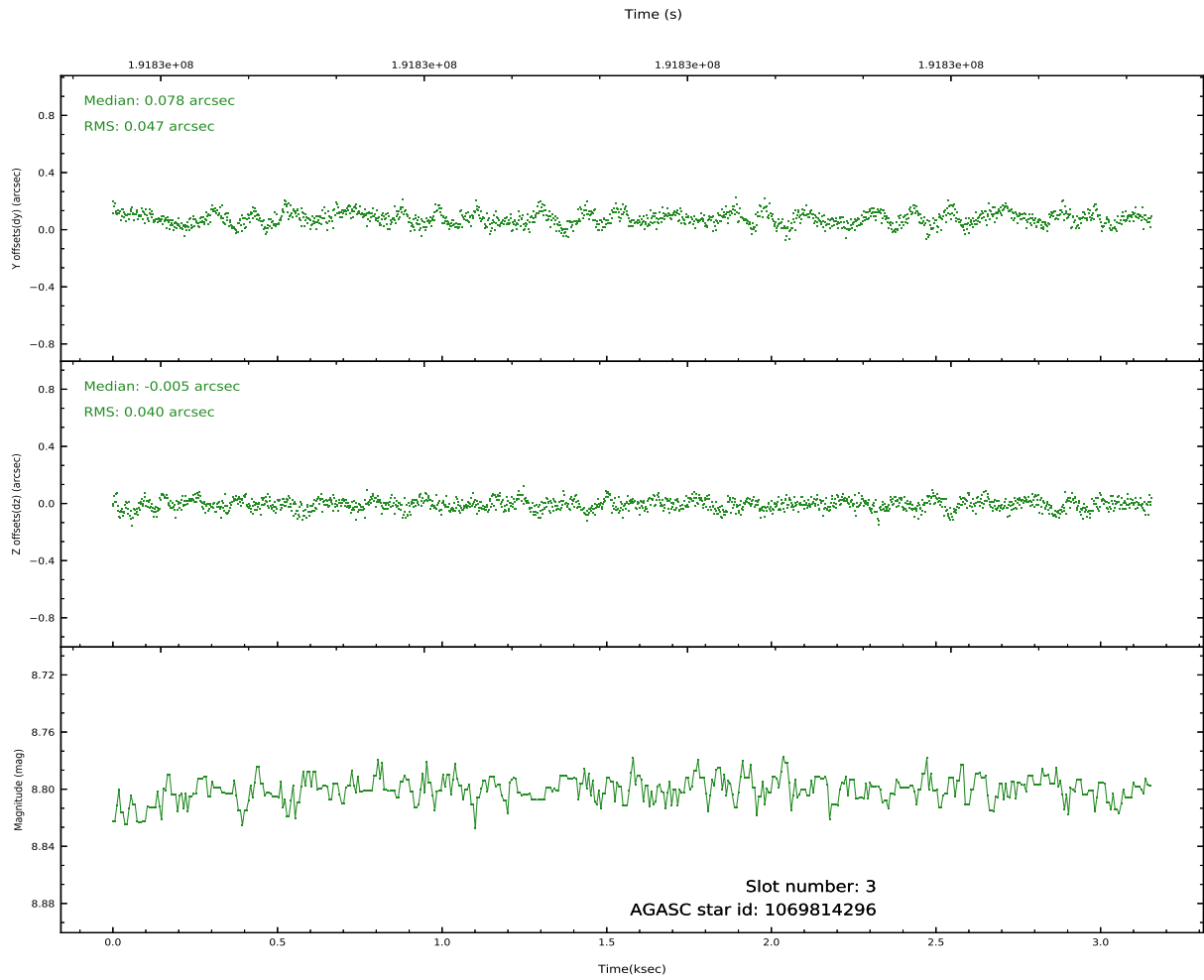
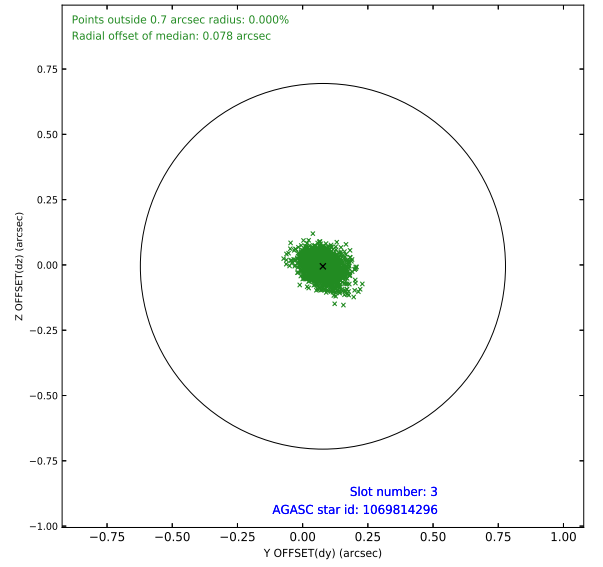
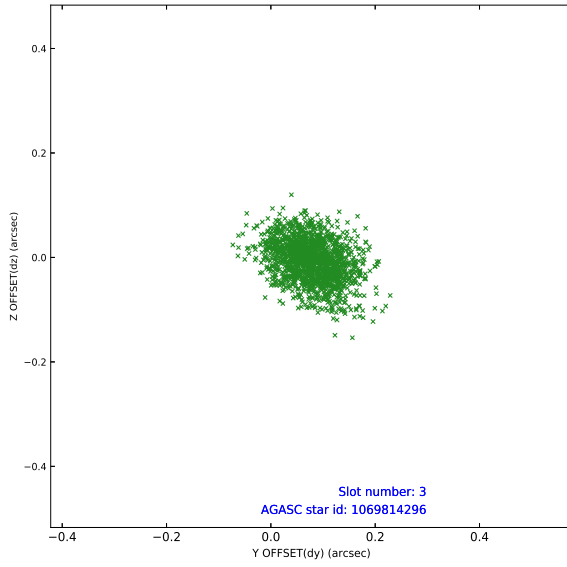


Slot Statistics

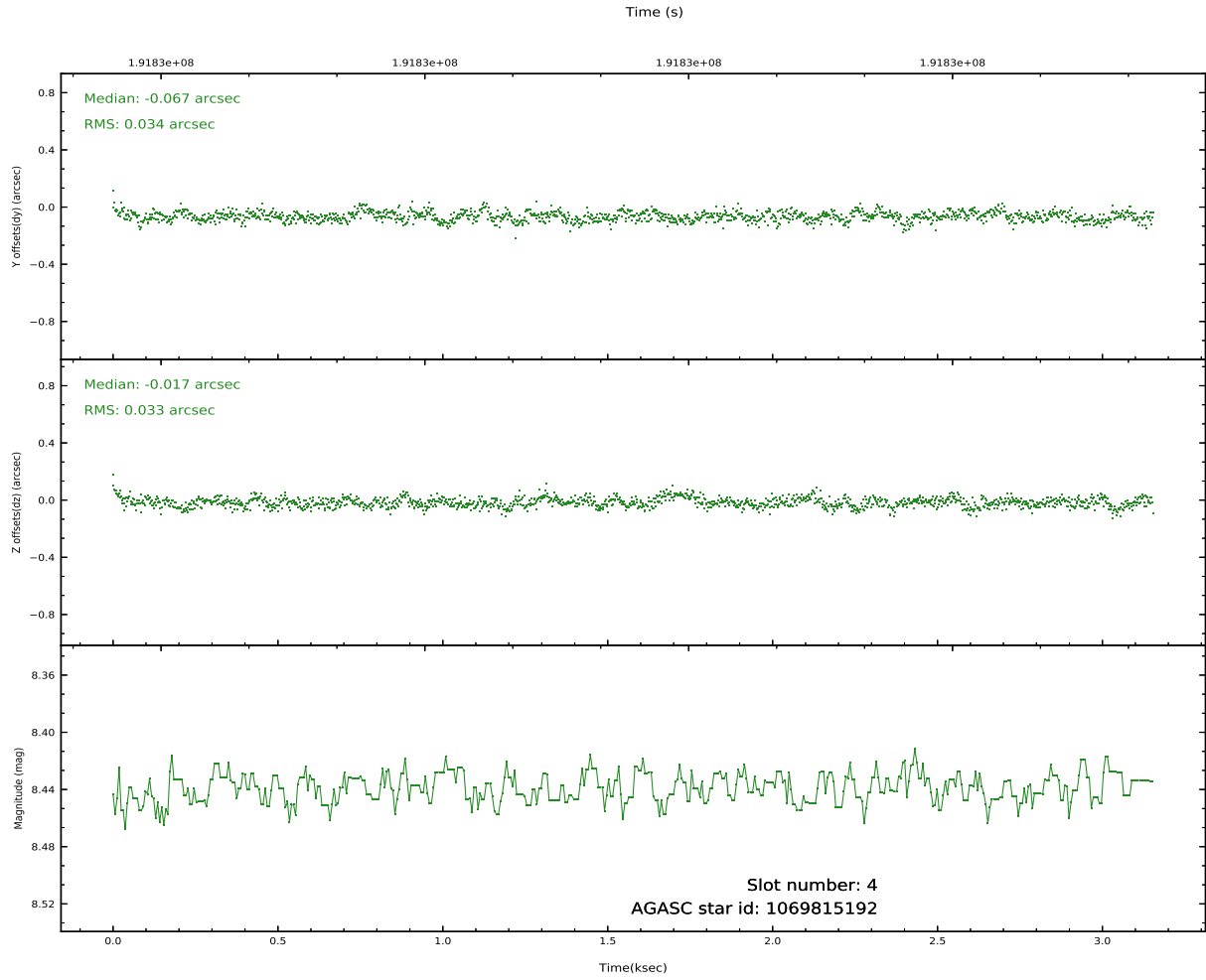
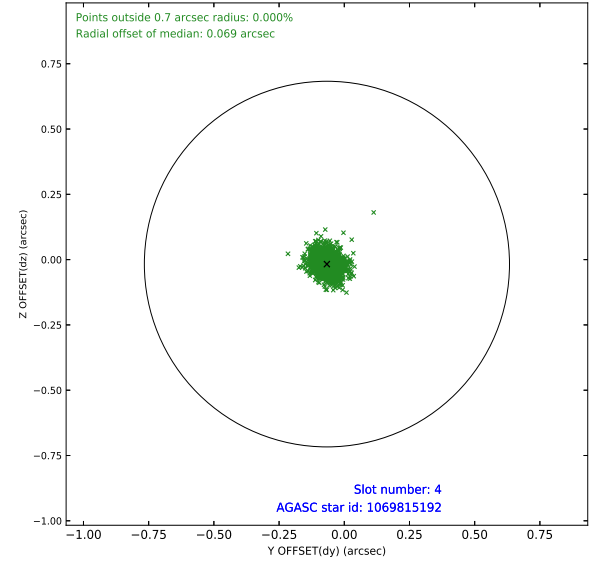
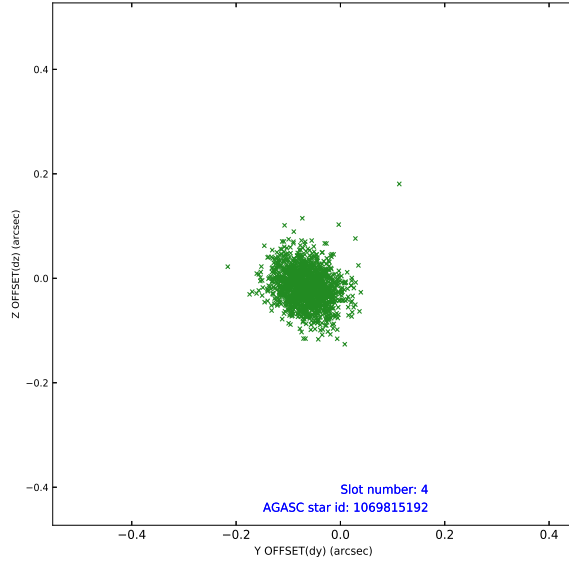
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-2	7.14	770	1.000	-0.089	-0.094	0.009	0.016	0.000000	0.000000	-761.76	-839
1	FID		ACIS-I-4	7.19	770	1.000	0.187	0.079	0.008	0.013	0.000000	0.000000	2151.64	1065
2	FID		ACIS-I-5	7.23	770	1.000	-0.199	0.083	0.010	0.017	0.000000	0.000000	-1813.12	1066
3	GUIDE	used	1069814296	8.80	1540	1.000	0.078	-0.005	0.066	0.105	128.481357	-50.711643	-1085.90	917
4	GUIDE	used	1069815192	8.44	1539	1.000	-0.067	-0.017	0.050	0.083	129.348324	-51.261689	986.43	-947
5	GUIDE	used	1069821808	7.11	1540	1.000	0.022	0.027	0.079	0.124	128.620782	-51.093133	-685.26	-434
6	GUIDE	used	1069304512	9.40	1540	1.000	-0.014	-0.025	0.106	0.177	128.031423	-50.285117	-2214.84	2382
7	GUIDE	used	1069424736	8.59	1537	1.000	-0.025	0.019	0.070	0.113	129.579226	-50.508351	1376.84	1787

2.4 Star Slots

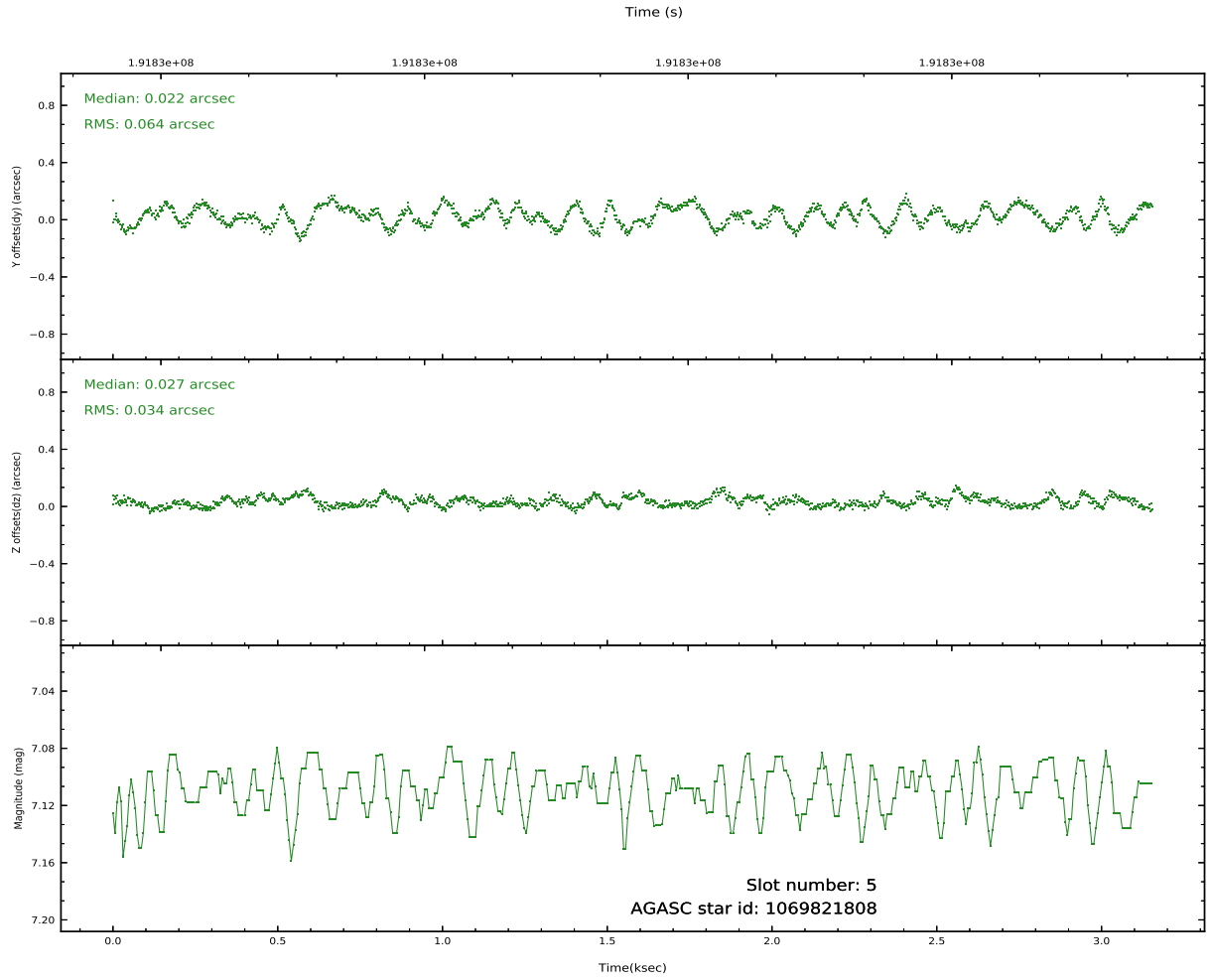
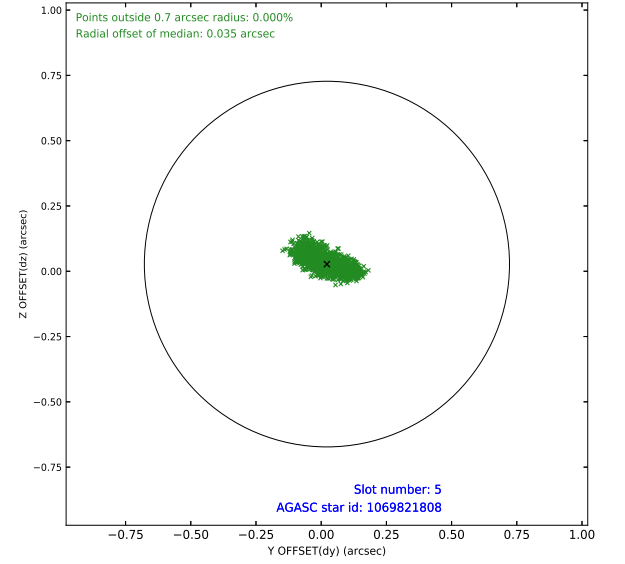
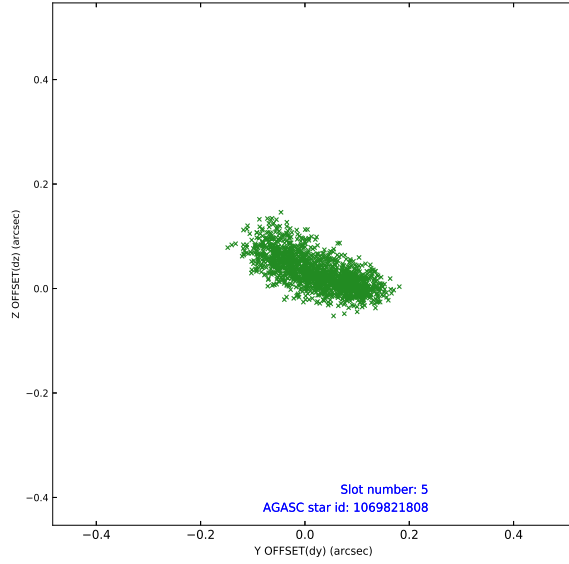
2.4.1 Slot 3



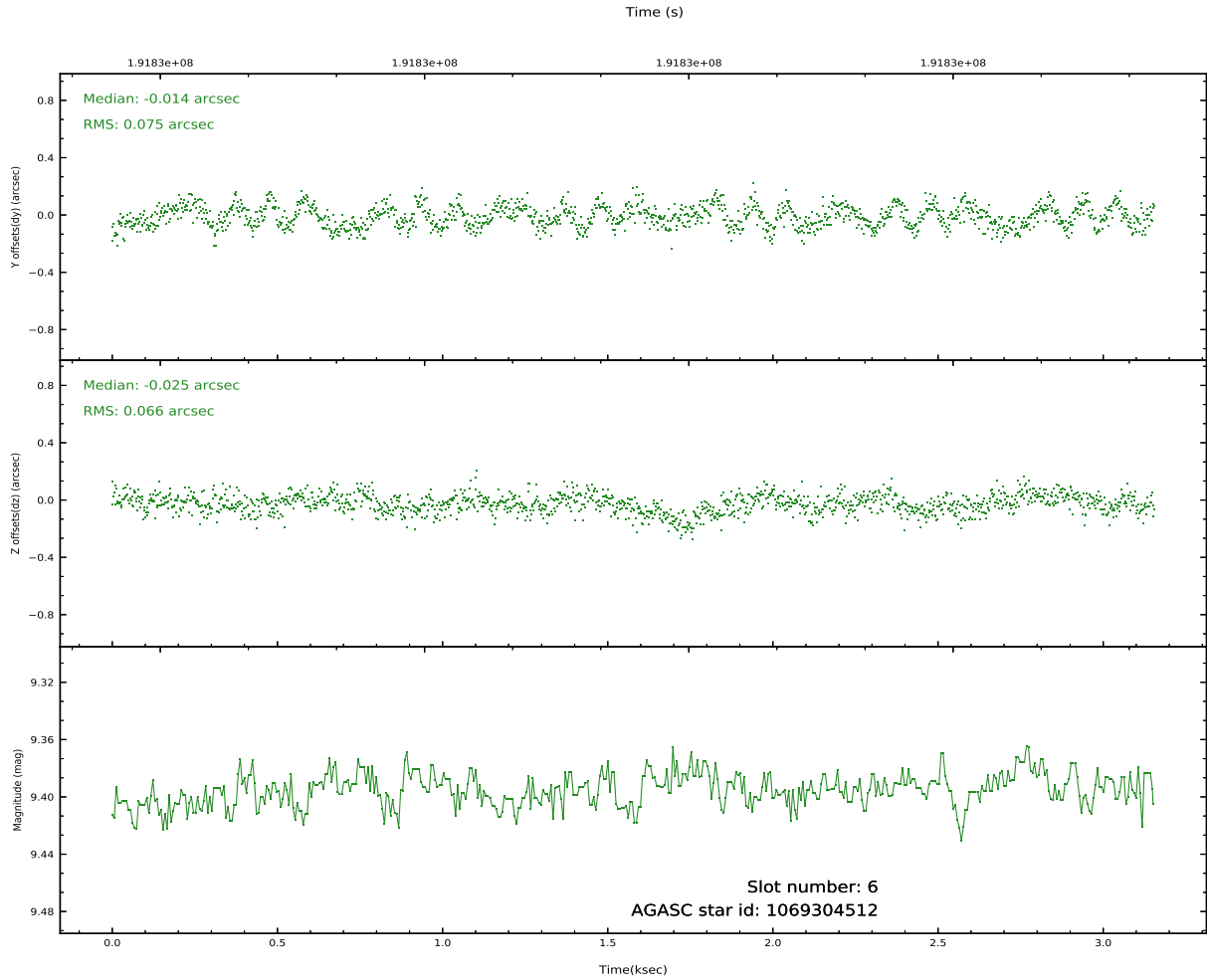
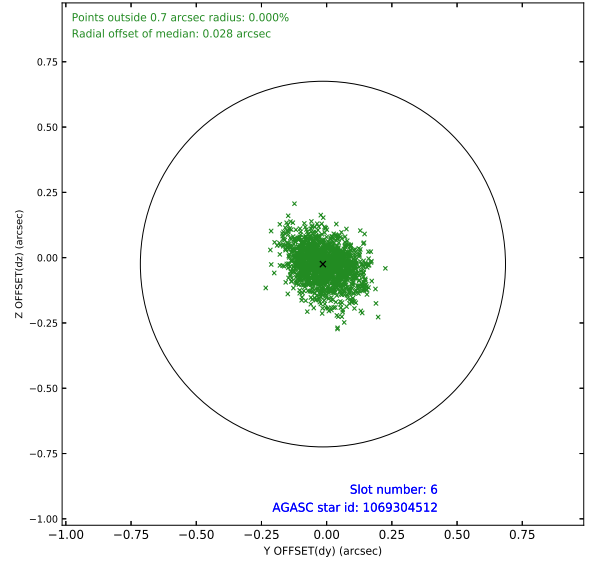
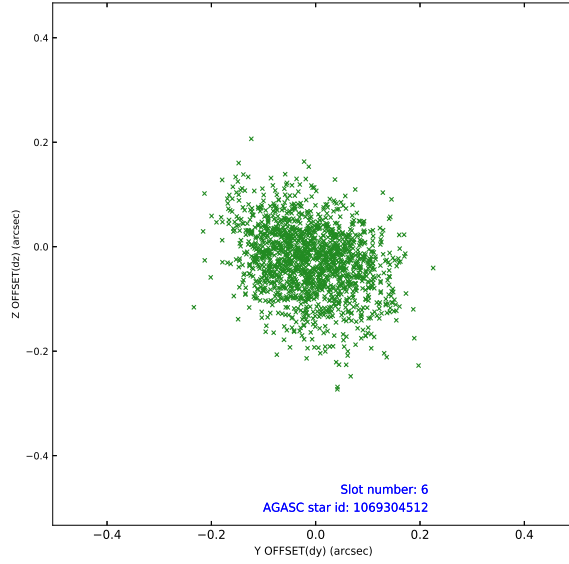
2.4.2 Slot 4



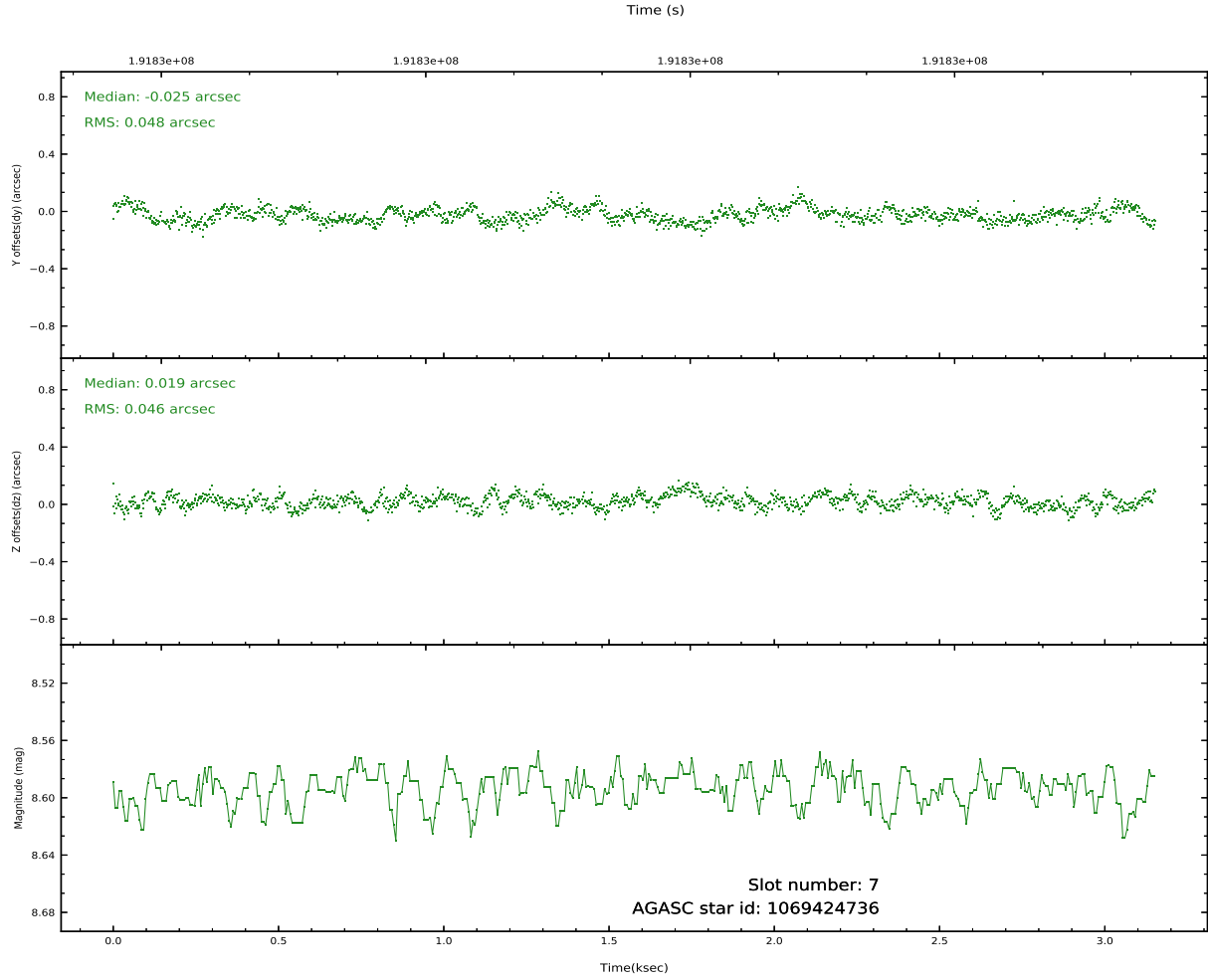
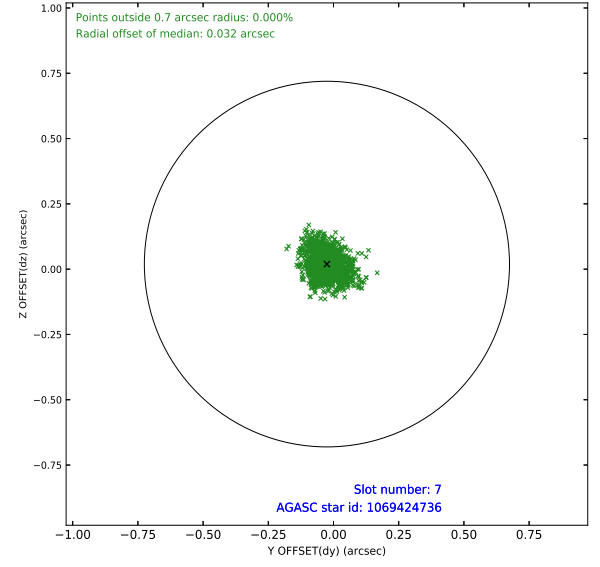
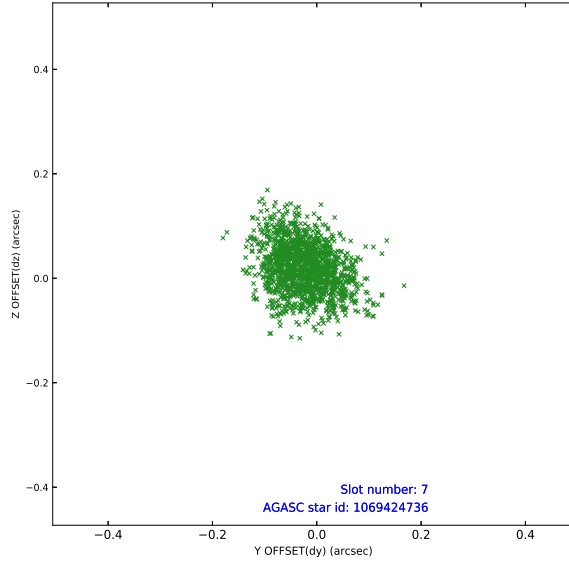
2.4.3 Slot 5



2.4.4 Slot 6

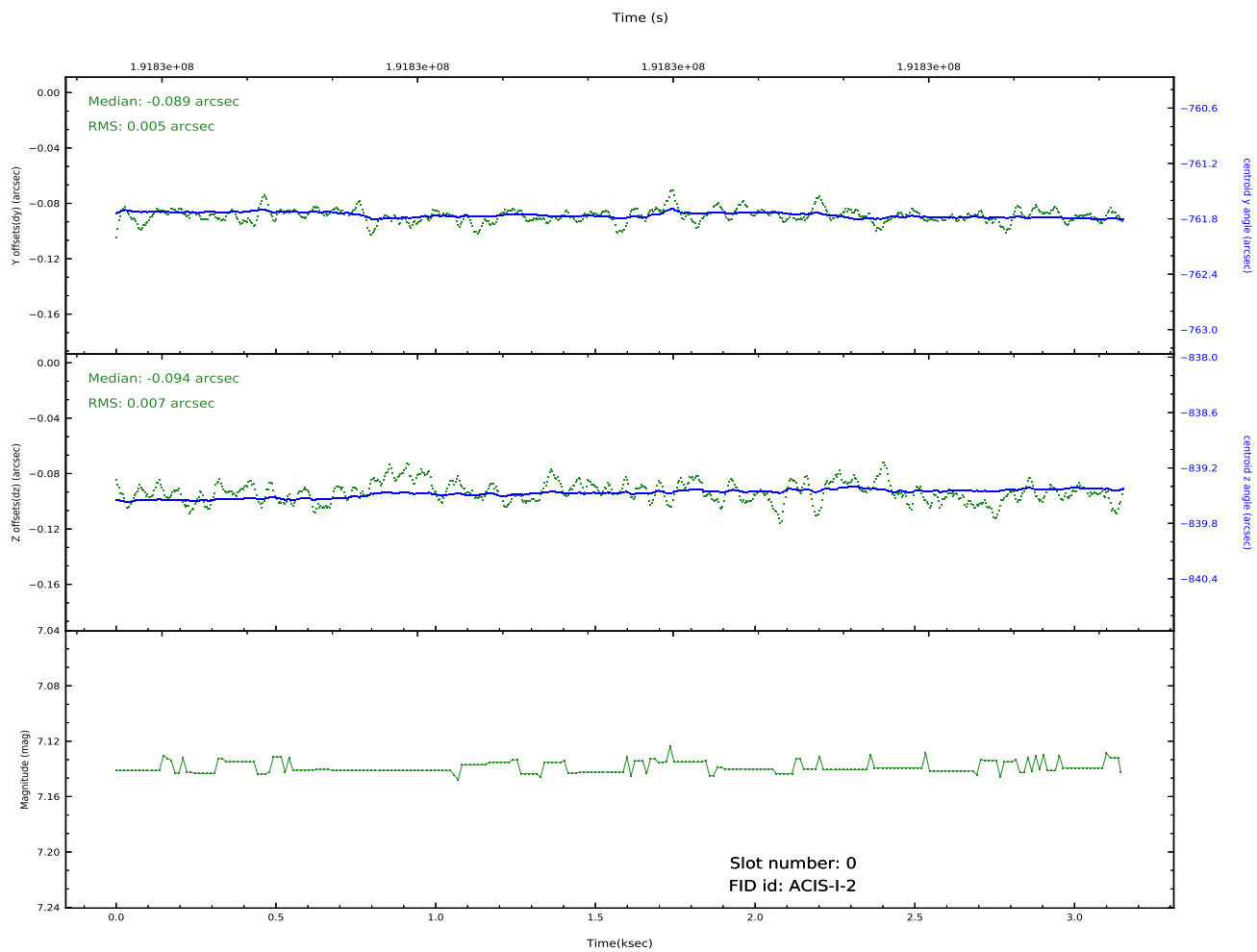
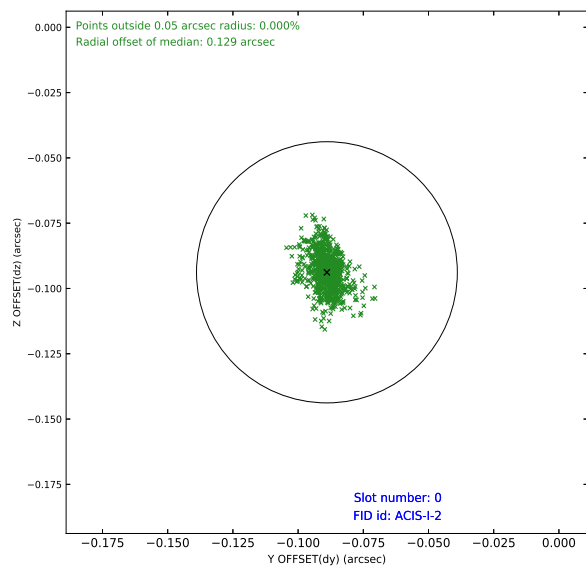
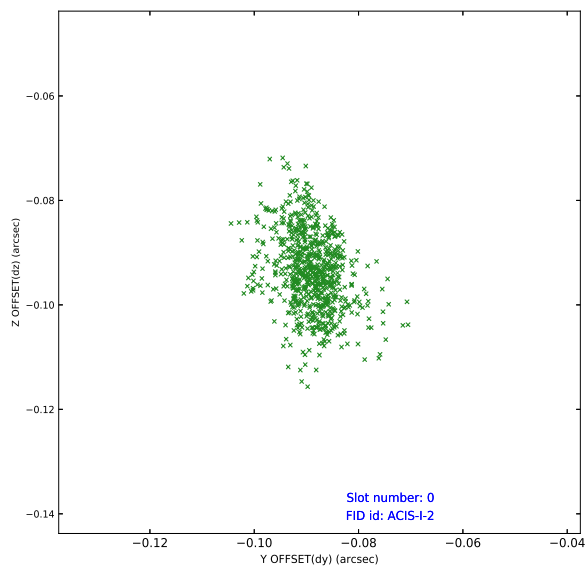


2.4.5 Slot 7

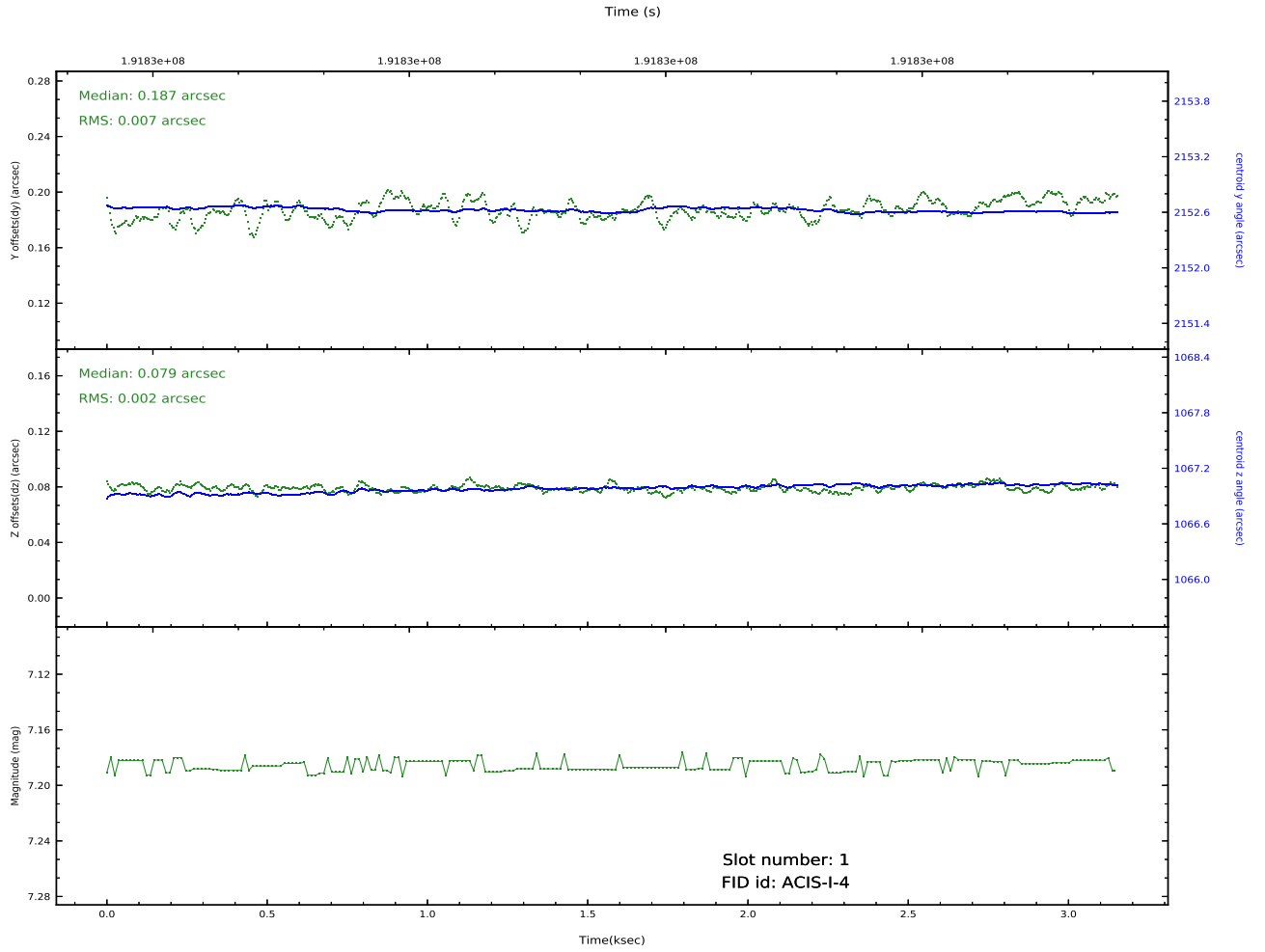
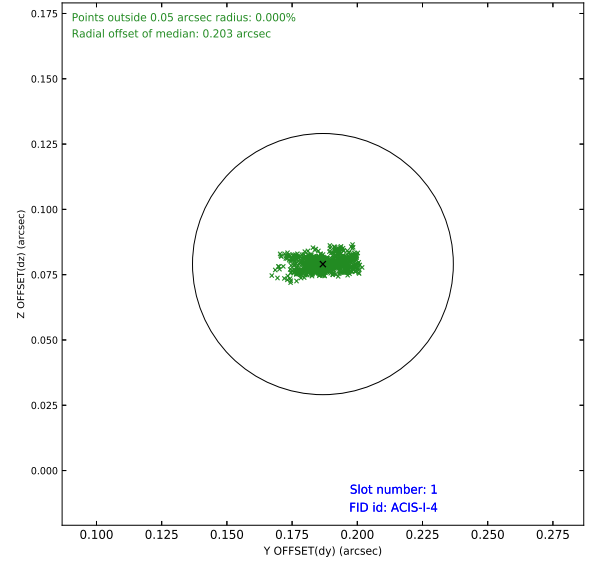
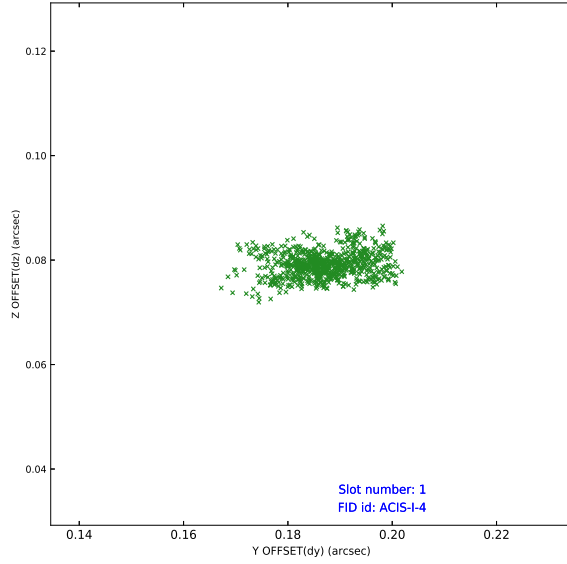


2.5 FID Slots

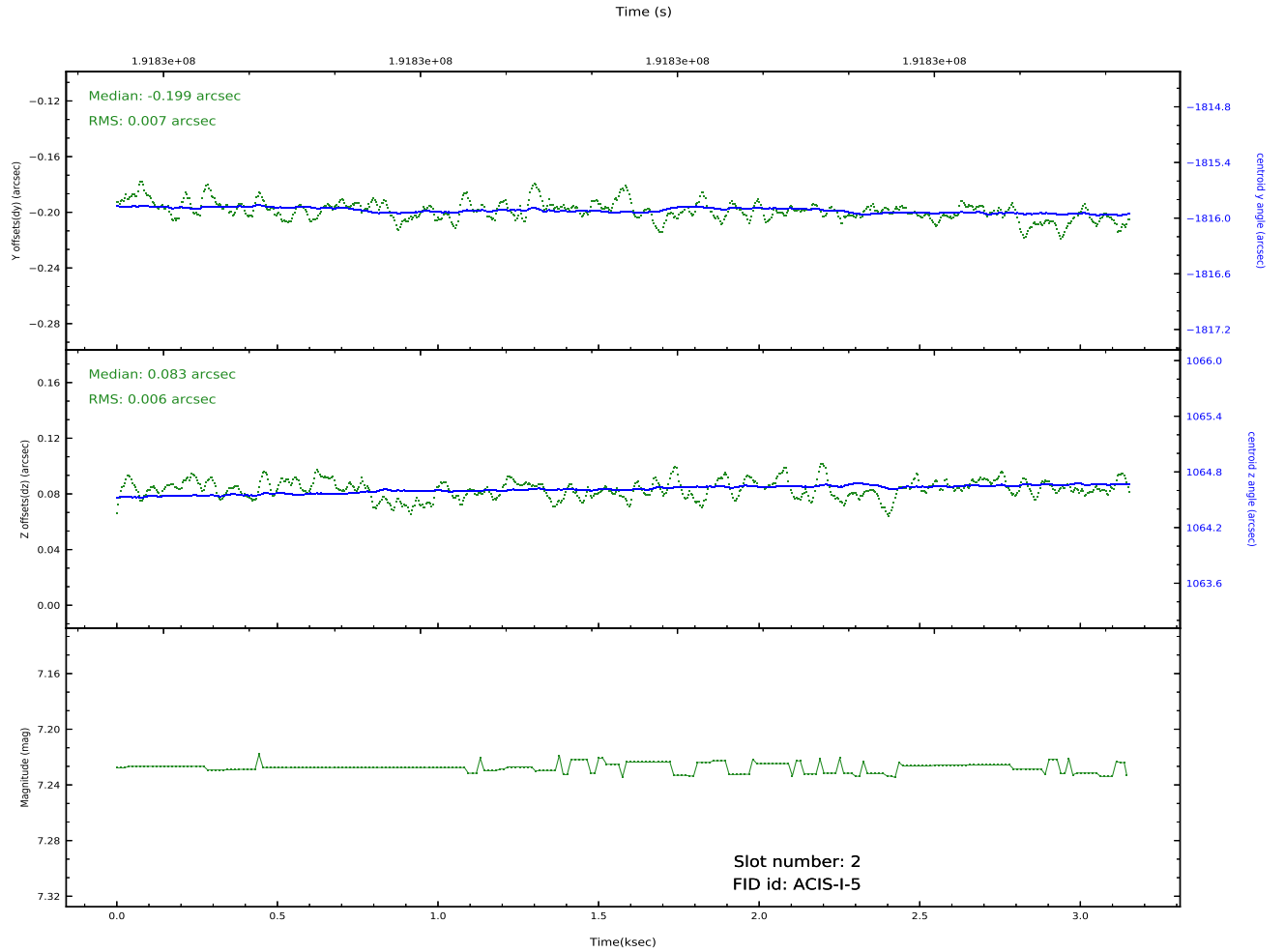
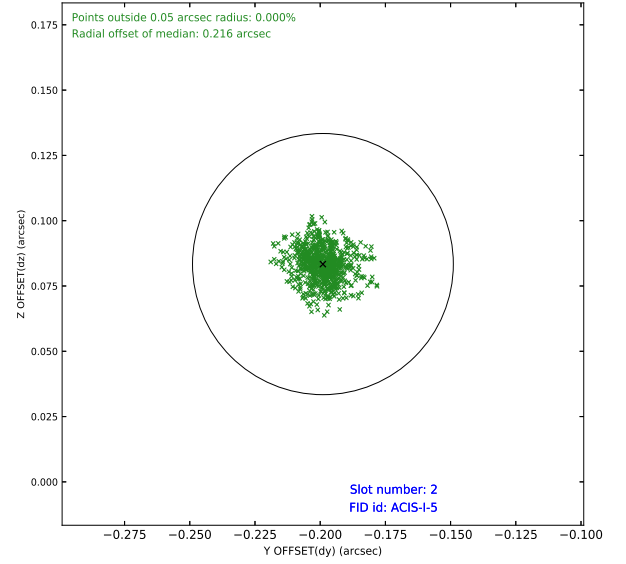
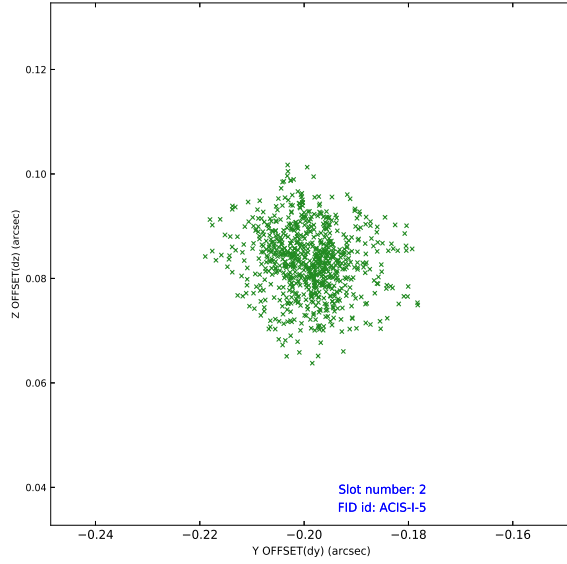
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Francesca Civano
V&V Date (YYYY-MM-DD)	2020.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.148

A.2 Comments