

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5940 - L2 Version 4
Chandra X-Ray Center

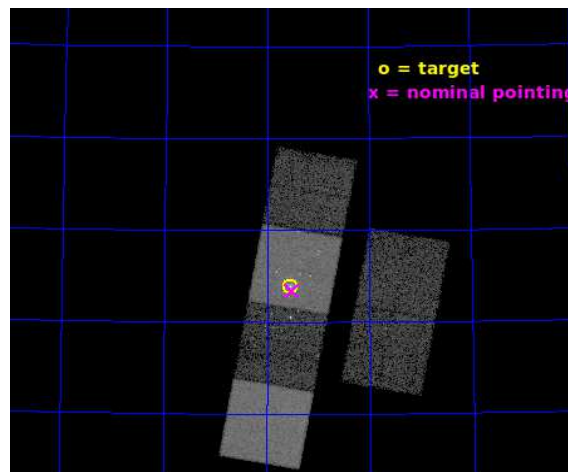
L2 Processing Date : Oct 8 2020

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1 Front

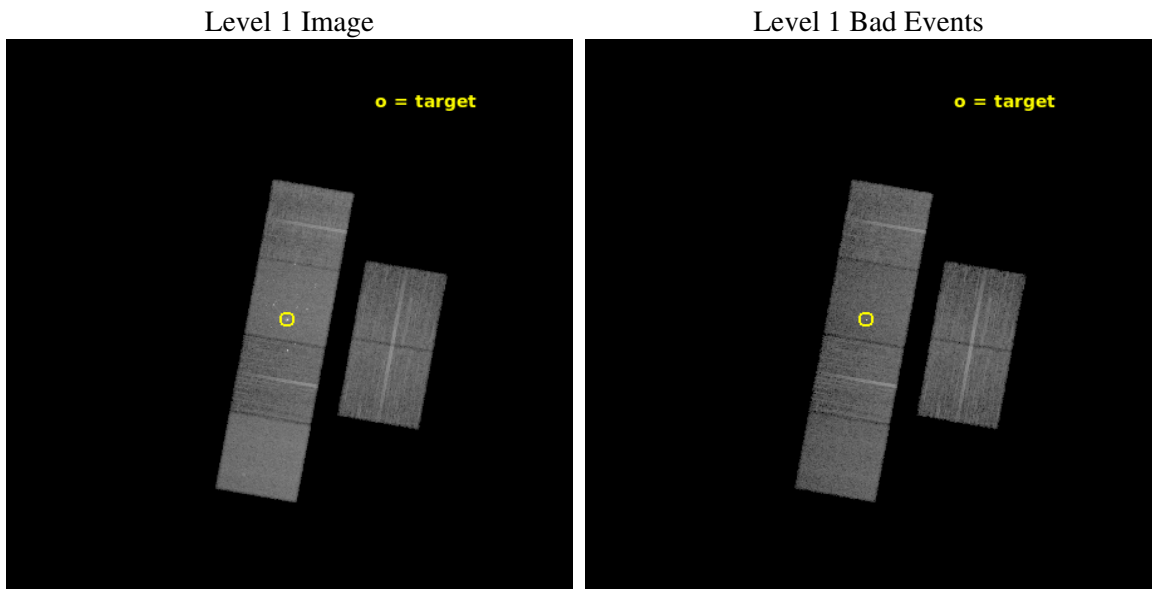
seq_num	600459	Sequence number
obs_id	5940	Observation id
title	An Unprecedented View of a Galaxy's Dynamic X-ray Source Population	
observer	David Pooley	Principal investigator
object	M81	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.888333	Observer's specified target RA [deg]
dec_targ	69.065306	Observer's specified target Dec [deg]
ra_nom	148.87862163654	Nominal RA [deg]
dec_nom	69.057103128858	Nominal Dec [deg]
roll_nom	280.15878191792	Nominal Roll [deg]
revision	4	Processing version of data
ontime	12127.99995482	Sum of GTIs [s]
livetime	11974.427916787	Livetime [s]
ontime2	12127.99995482	Sum of GTIs [s]
ontime3	12127.99995482	Sum of GTIs [s]
ontime5	12127.99995482	Sum of GTIs [s]
ontime6	12127.99995482	Sum of GTIs [s]
ontime7	12127.99995482	Sum of GTIs [s]
ontime8	12127.99995482	Sum of GTIs [s]
l2events	159030	Number of level 2 events



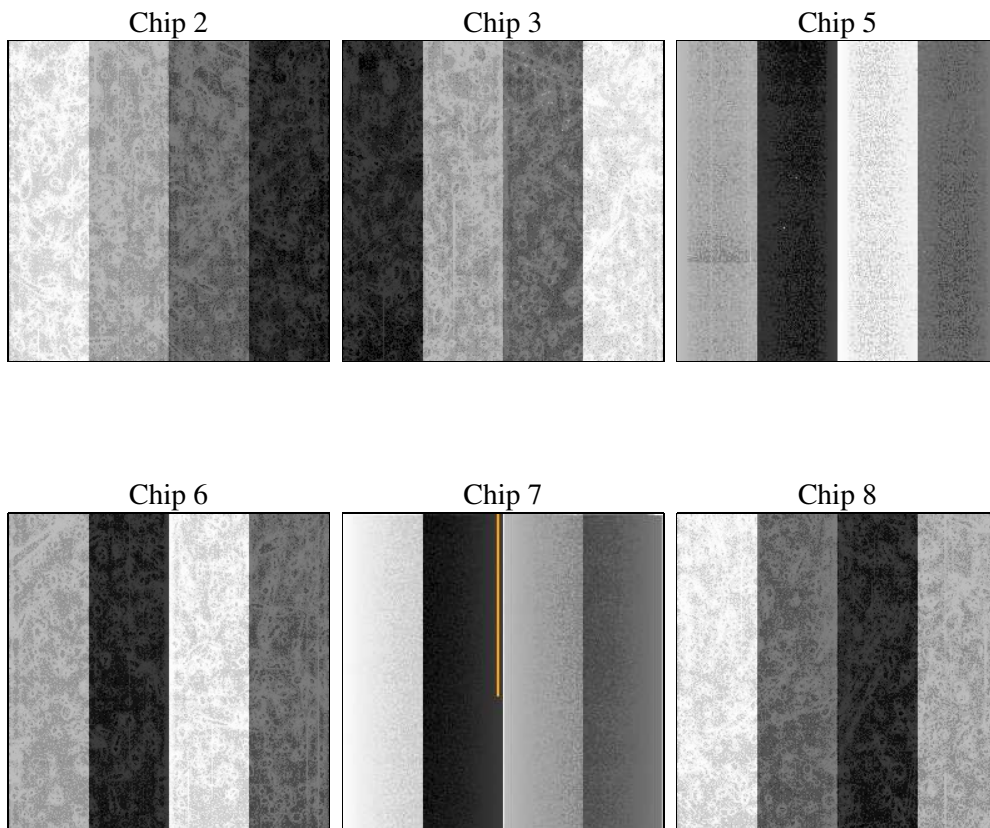
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	12127.99995482	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	12127.99995482	Sum of GTIs [s]
date	2020-10-08T19:07:12	Date and time of file creation	ontime3	12127.99995482	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	12127.99995482	Sum of GTIs [s]
			ontime6	12127.99995482	Sum of GTIs [s]
			ontime7	12127.99995482	Sum of GTIs [s]
			ontime8	12127.99995482	Sum of GTIs [s]
			l1events	708089	Number of level 1 events

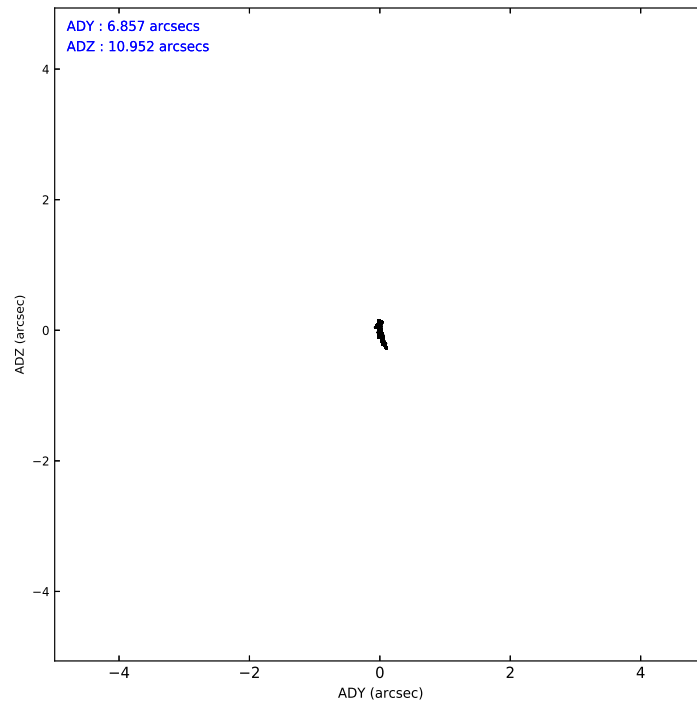
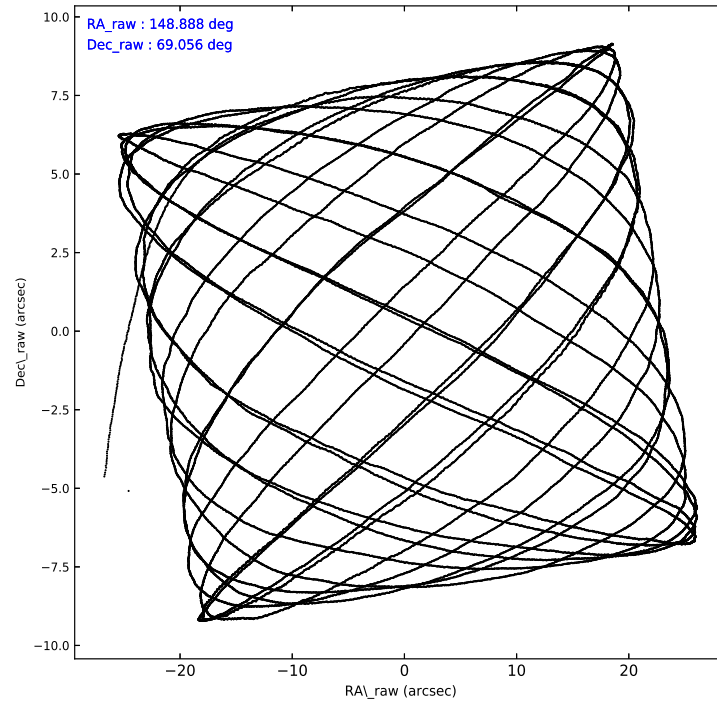
2.1.4 Events

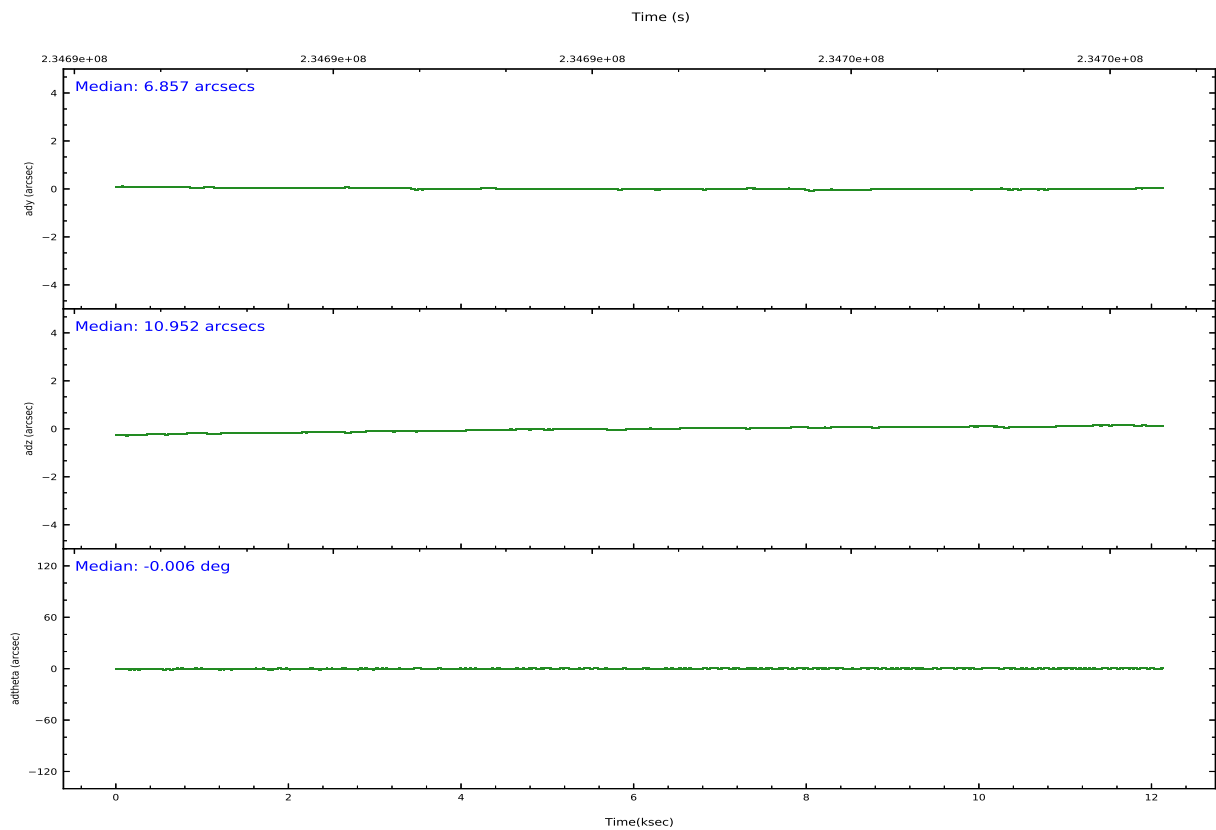
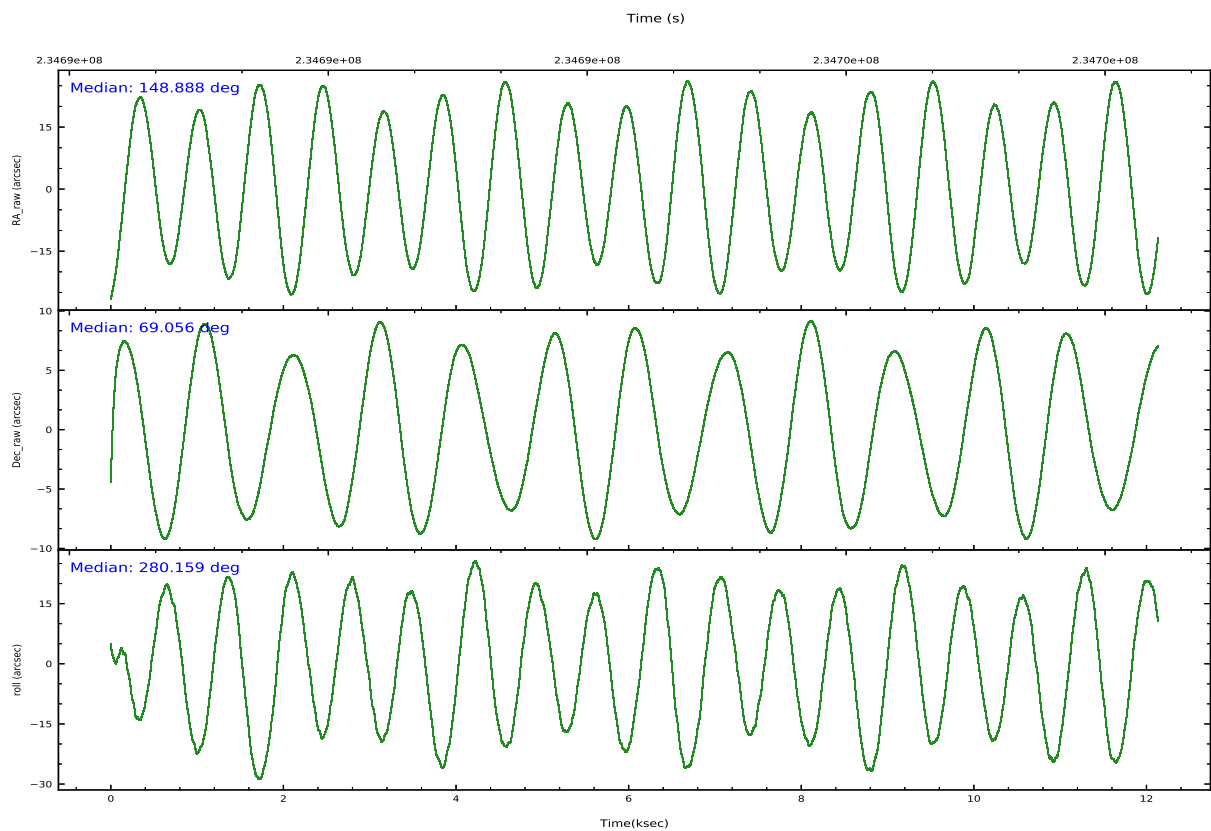
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	100146	94824	143996	100257	144578	124288	grade 0 events	5222	4858	3869	6297	6900	8601
rejected events	89056	84155	83399	86989	84491	98044		5%	5%	2%	6%	4%	6%
rejected %	88%	88%	57%	86%	58%	78%	grade 1 events	59	55	190	89	221	68
								0%	0%	0%	0%	0%	0%
							grade 2 events	2406	2216	19538	2768	12992	6041
								2%	2%	13%	2%	8%	4%
							grade 3 events	1053	1081	2397	1156	5601	3000
								1%	1%	1%	1%	3%	2%
							grade 4 events	1081	1084	2352	1178	5459	2740
								1%	1%	1%	1%	3%	2%
							grade 5 events	3894	4231	10262	4445	13035	6024
								3%	4%	7%	4%	9%	4%
							grade 6 events	1853	1992	35631	2468	31934	7194
								1%	2%	24%	2%	22%	5%
							grade 7 events	84578	79307	69757	81856	68436	90620
								84%	83%	48%	81%	47%	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	148.838401	148.87862163654	Subarray requested	NONE	NONE
[deg] Pointing Dec	69.076205	69.057103128858	Alternating exposures requested	N	N
[deg] Pointing Roll	280.046645	280.15878191792	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	234688614.184000	234687259.9613			
Observation start date	2005-06-09T07:15:50	2005-06-09T06:54:19			
[s] Observation end time (MET)	234700614.184000	234701669.41196			
Observation end date	2005-06-09T10:35:50	2005-06-09T10:54:29			
Read mode	TIMED	TIMED			

2.3 Aspect



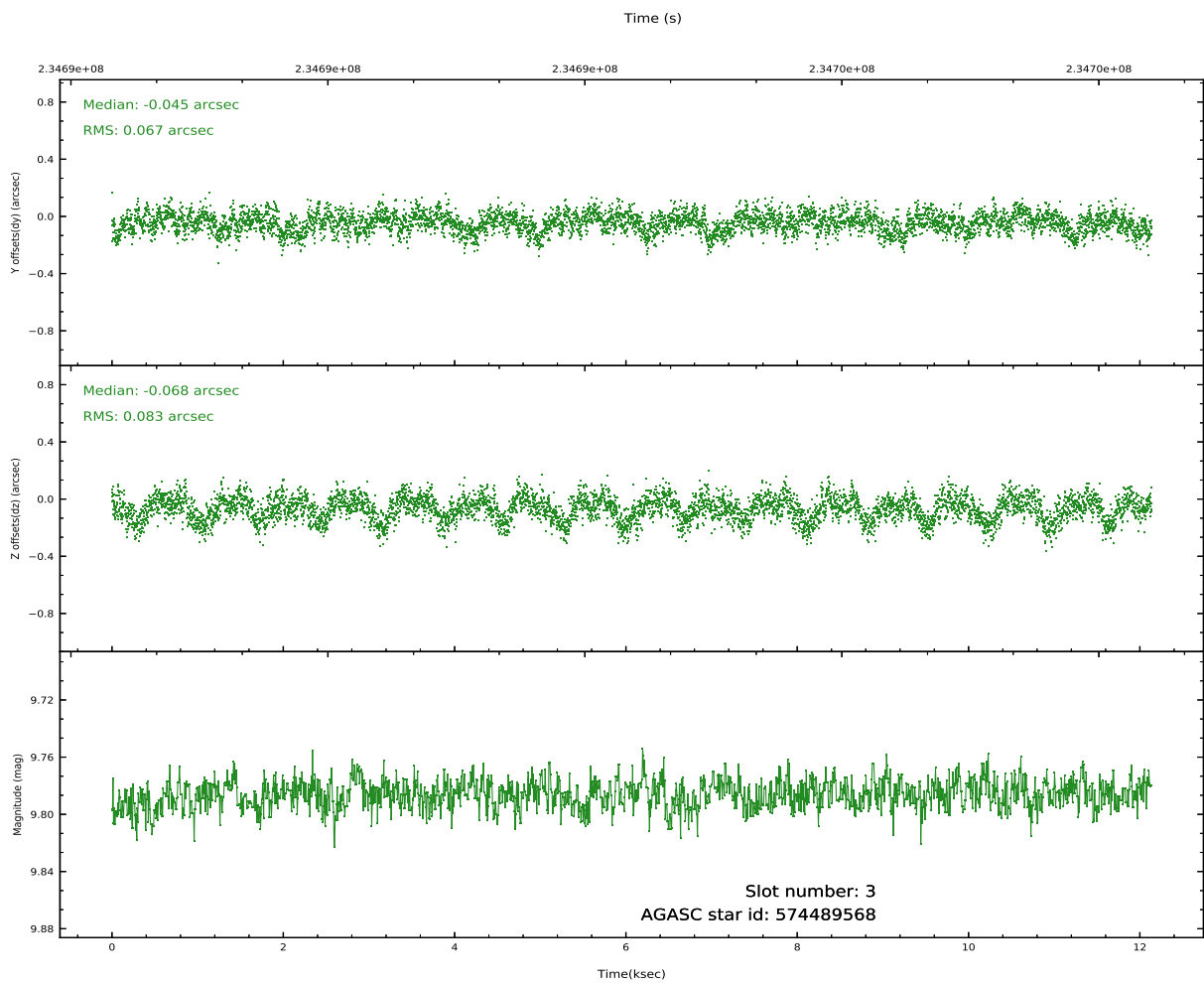
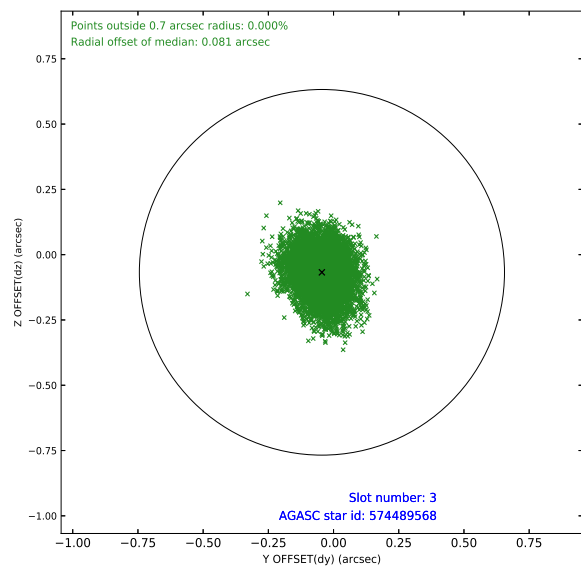
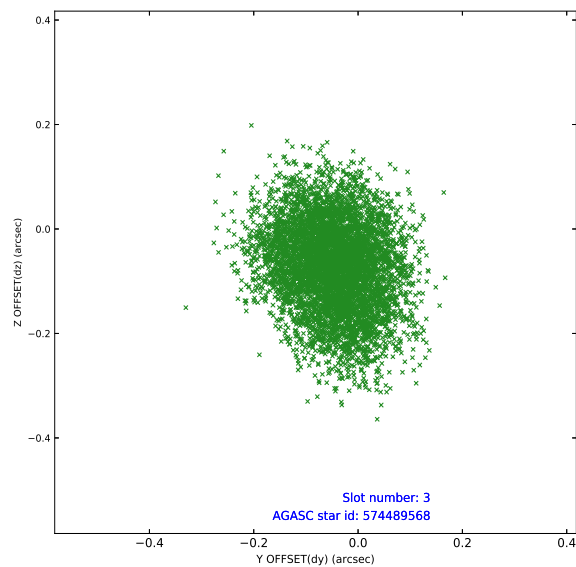


Slot Statistics

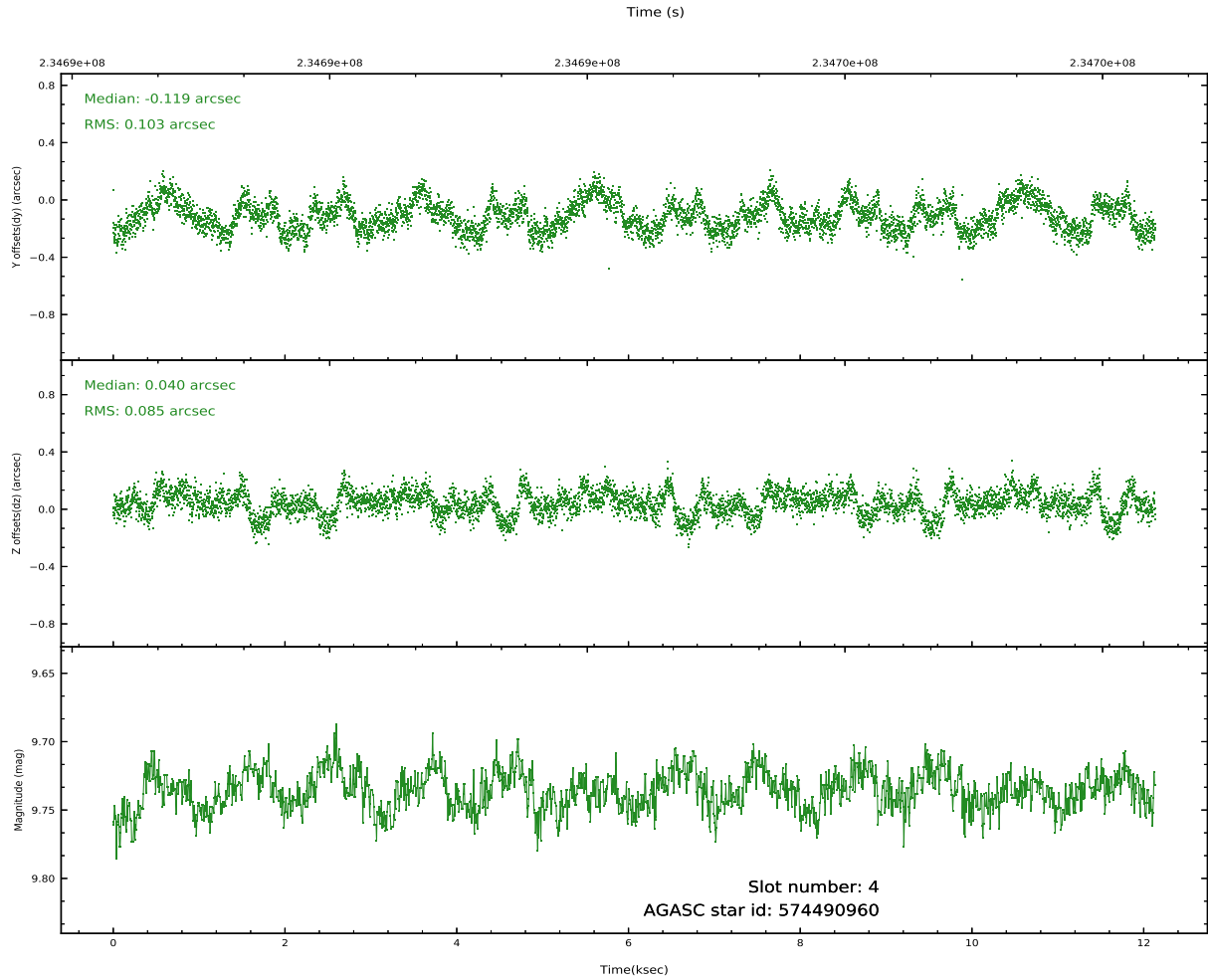
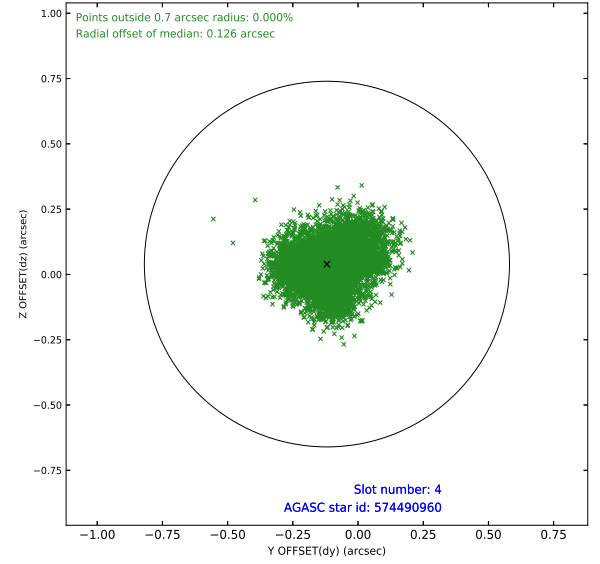
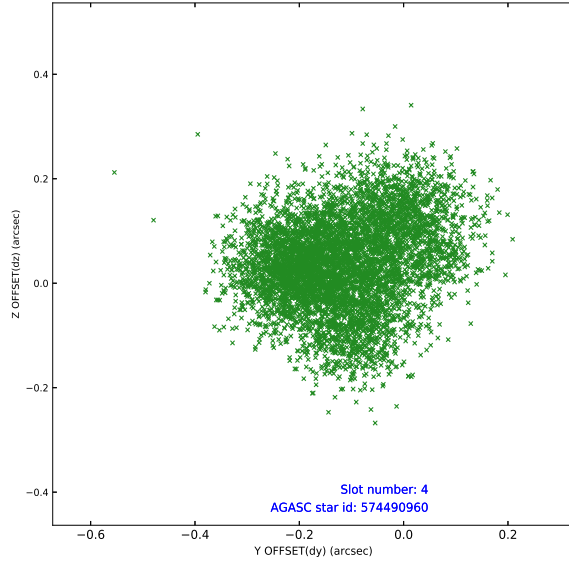
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	2960	1.000	-0.085	-0.055	0.007	0.011	0.000000	0.000000	-759.64	-1732
1	FID		ACIS-S-4	7.20	2960	1.000	0.146	0.056	0.007	0.012	0.000000	0.000000	2153.62	175
2	FID		ACIS-S-5	7.23	2961	1.000	-0.091	0.008	0.007	0.011	0.000000	0.000000	-1812.02	169
3	GUIDE	used	574489568	9.79	5914	1.000	-0.045	-0.068	0.115	0.181	147.223974	69.438157	-1665.13	-1777
4	GUIDE	used	574490960	9.74	5913	1.000	-0.119	0.040	0.147	0.222	148.185918	69.658768	-2211.62	-437
5	GUIDE	used	574491712	9.89	5889	1.000	-0.154	-0.077	0.138	0.216	147.262590	69.570889	-2123.96	-1634
6	GUIDE	used	574497600	10.44	5897	1.000	0.143	-0.088	0.159	0.265	147.824120	68.451903	1968.57	-1710
7	GUIDE	used	574496360	9.46	5916	1.000	0.167	0.204	0.120	0.189	150.806604	68.529829	2349.06	2217

2.4 Star Slots

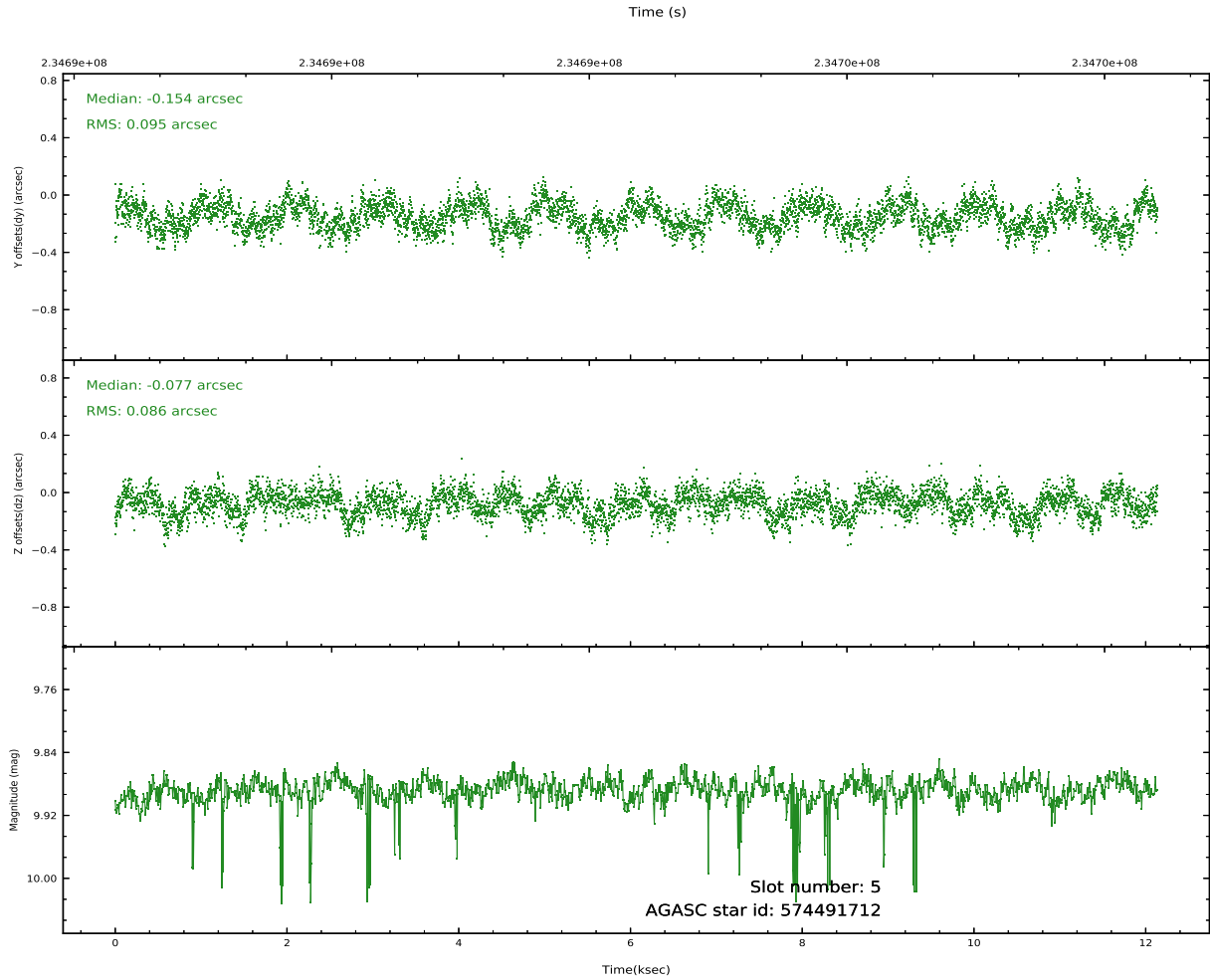
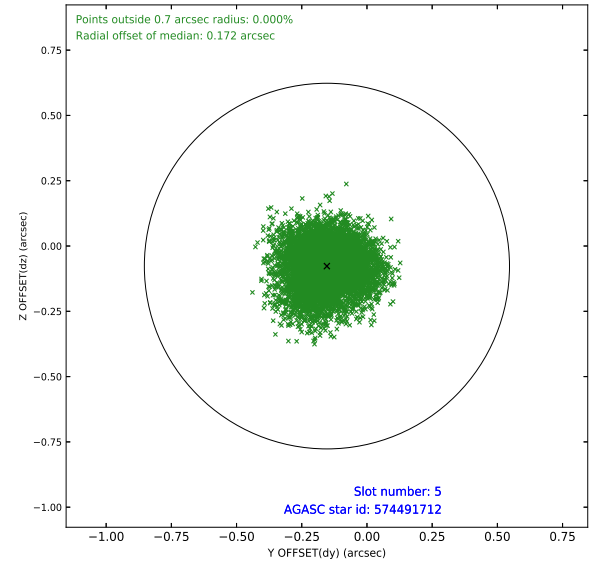
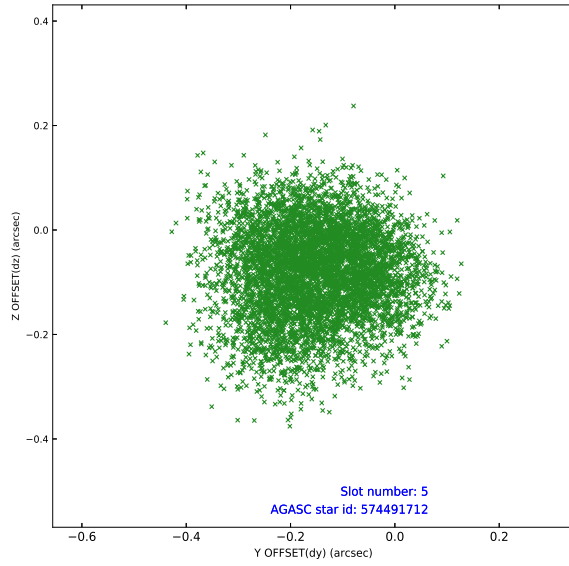
2.4.1 Slot 3



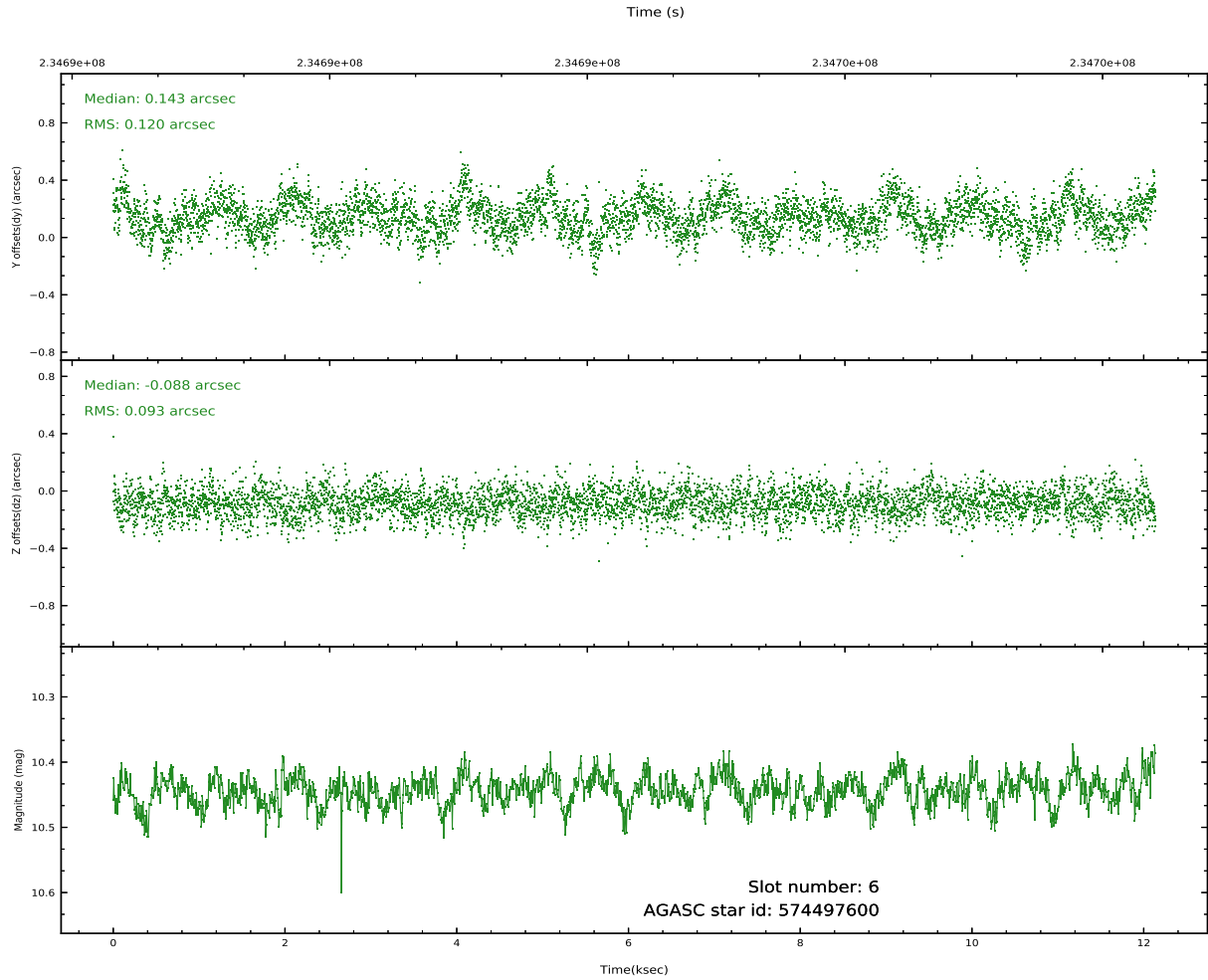
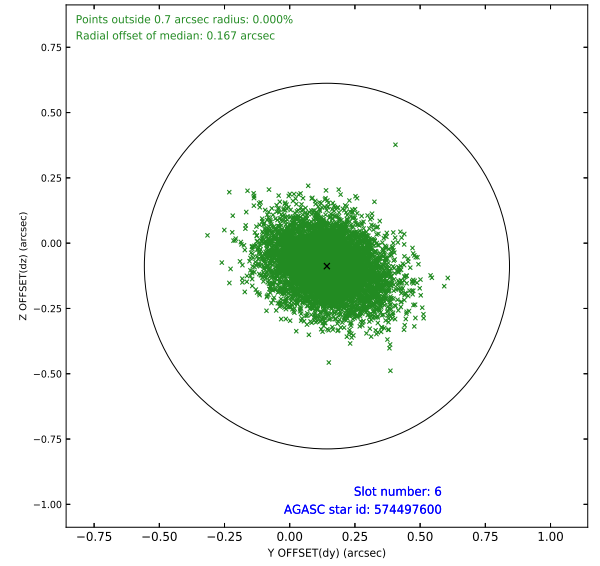
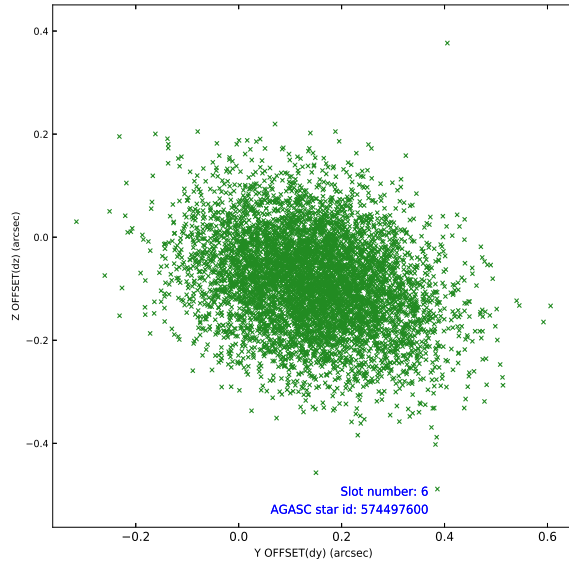
2.4.2 Slot 4



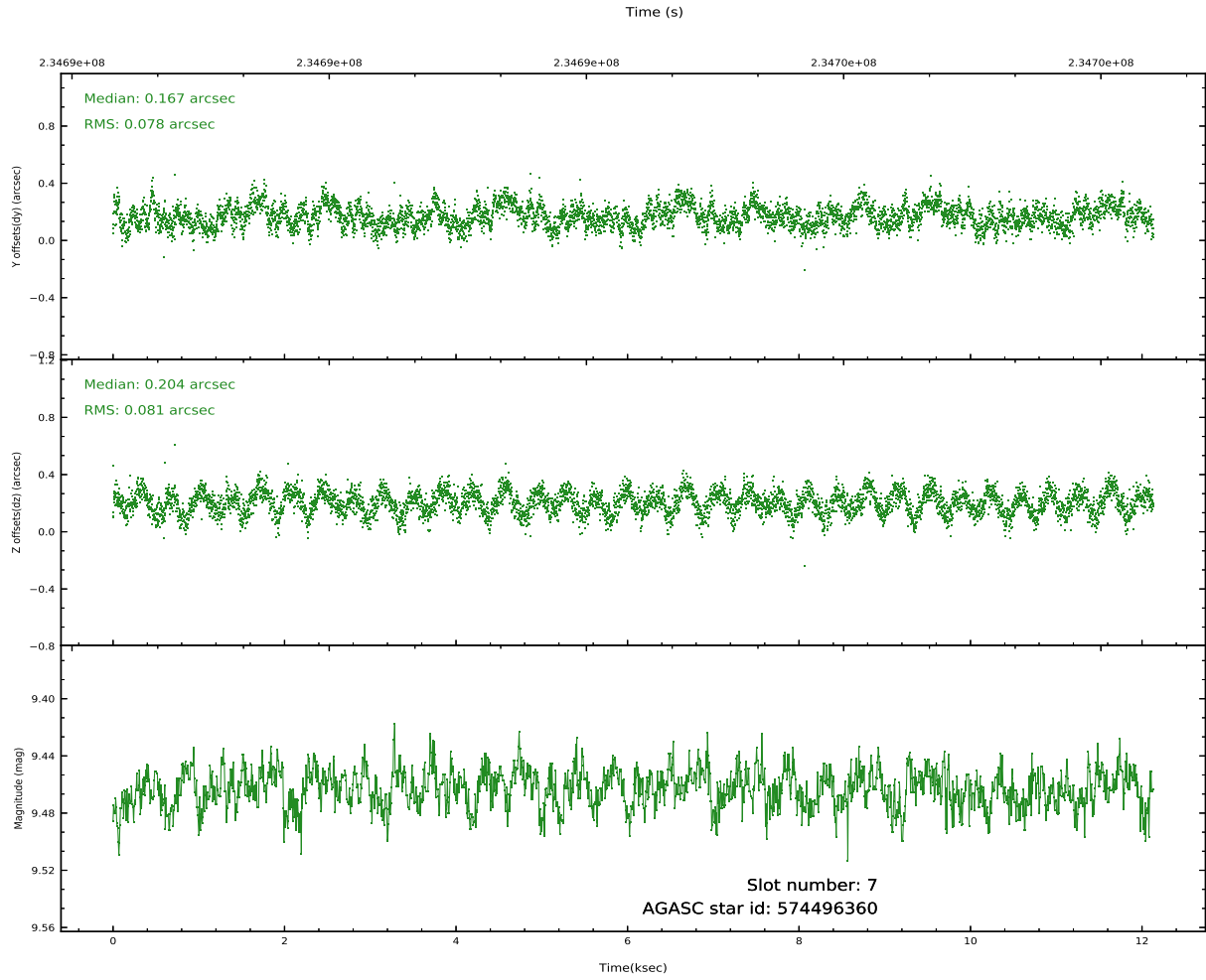
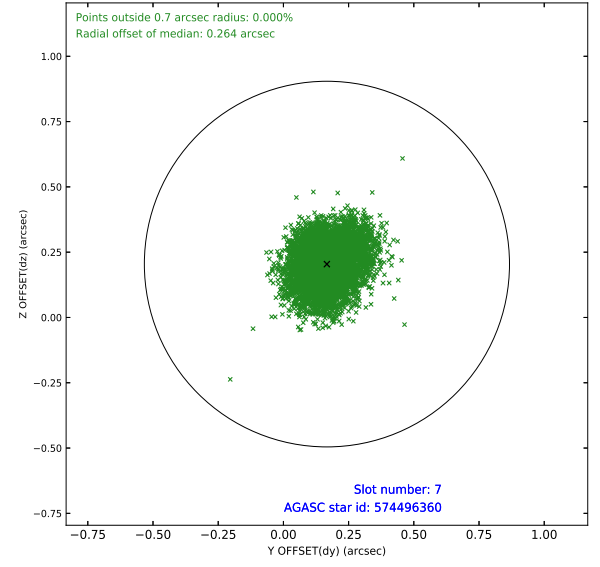
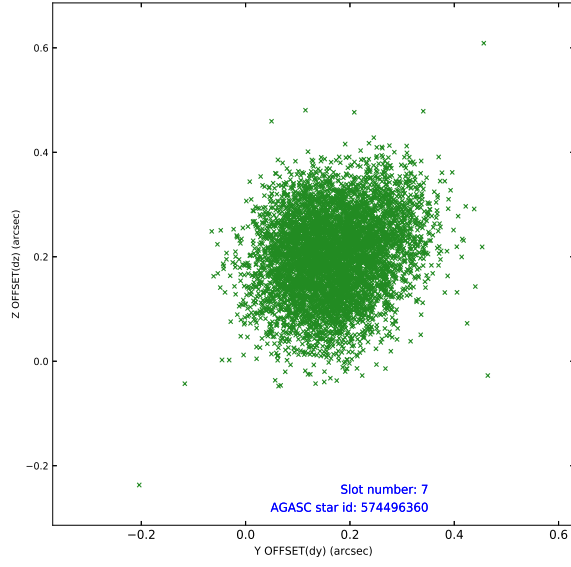
2.4.3 Slot 5



2.4.4 Slot 6

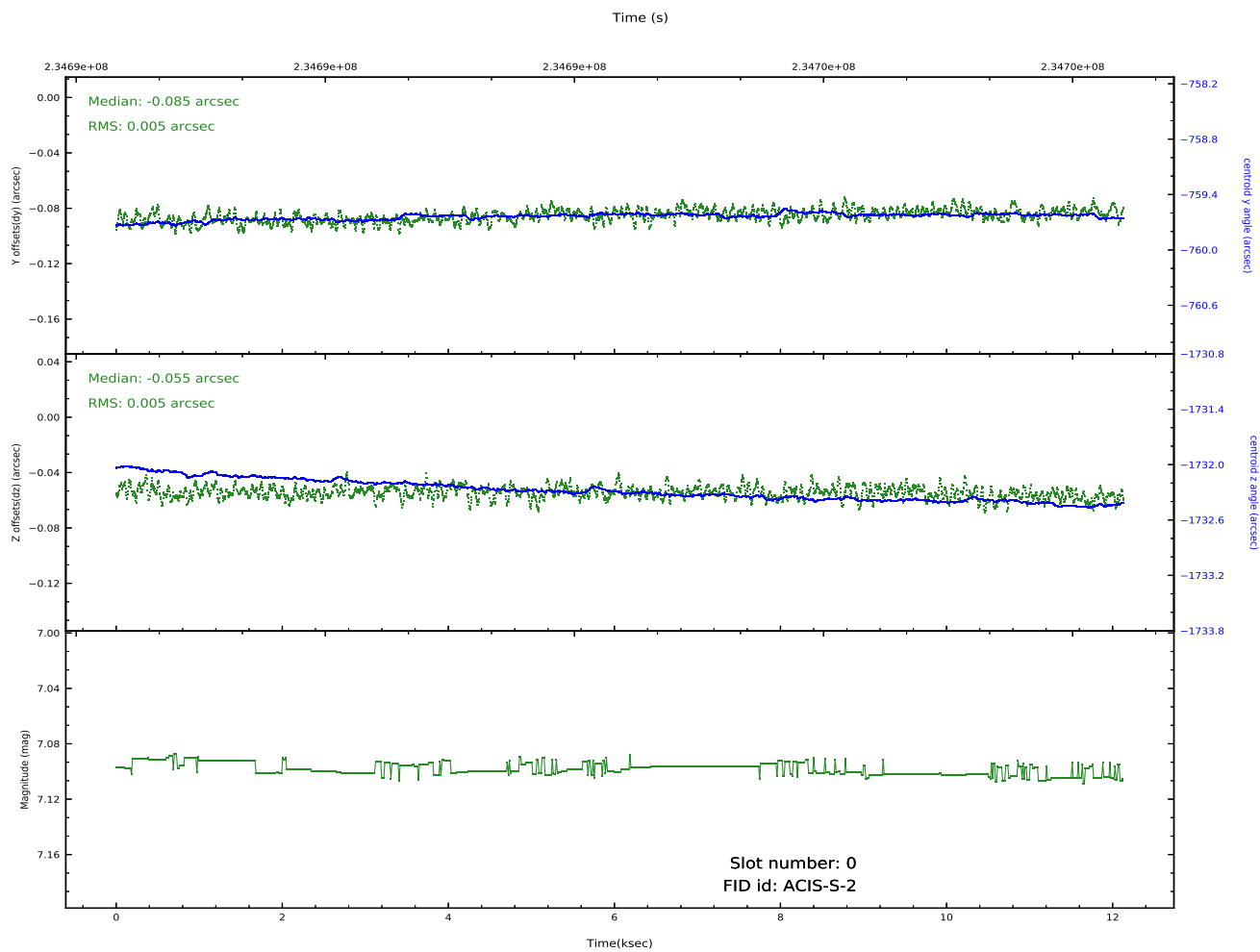
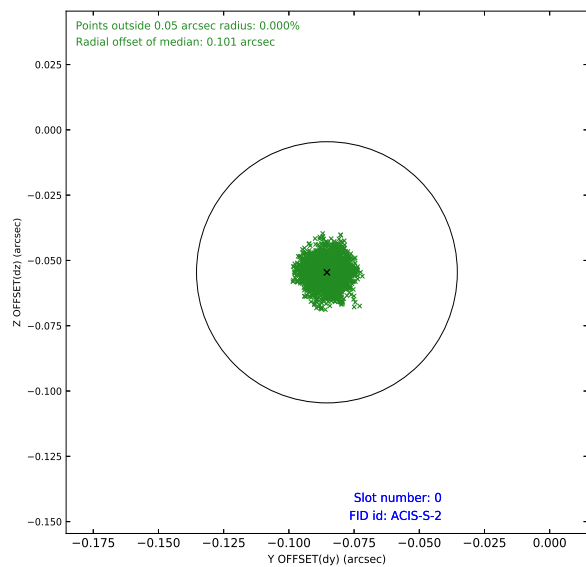
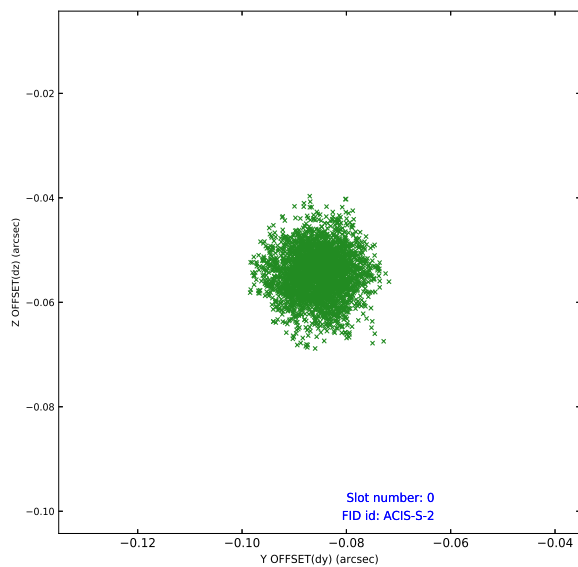


2.4.5 Slot 7

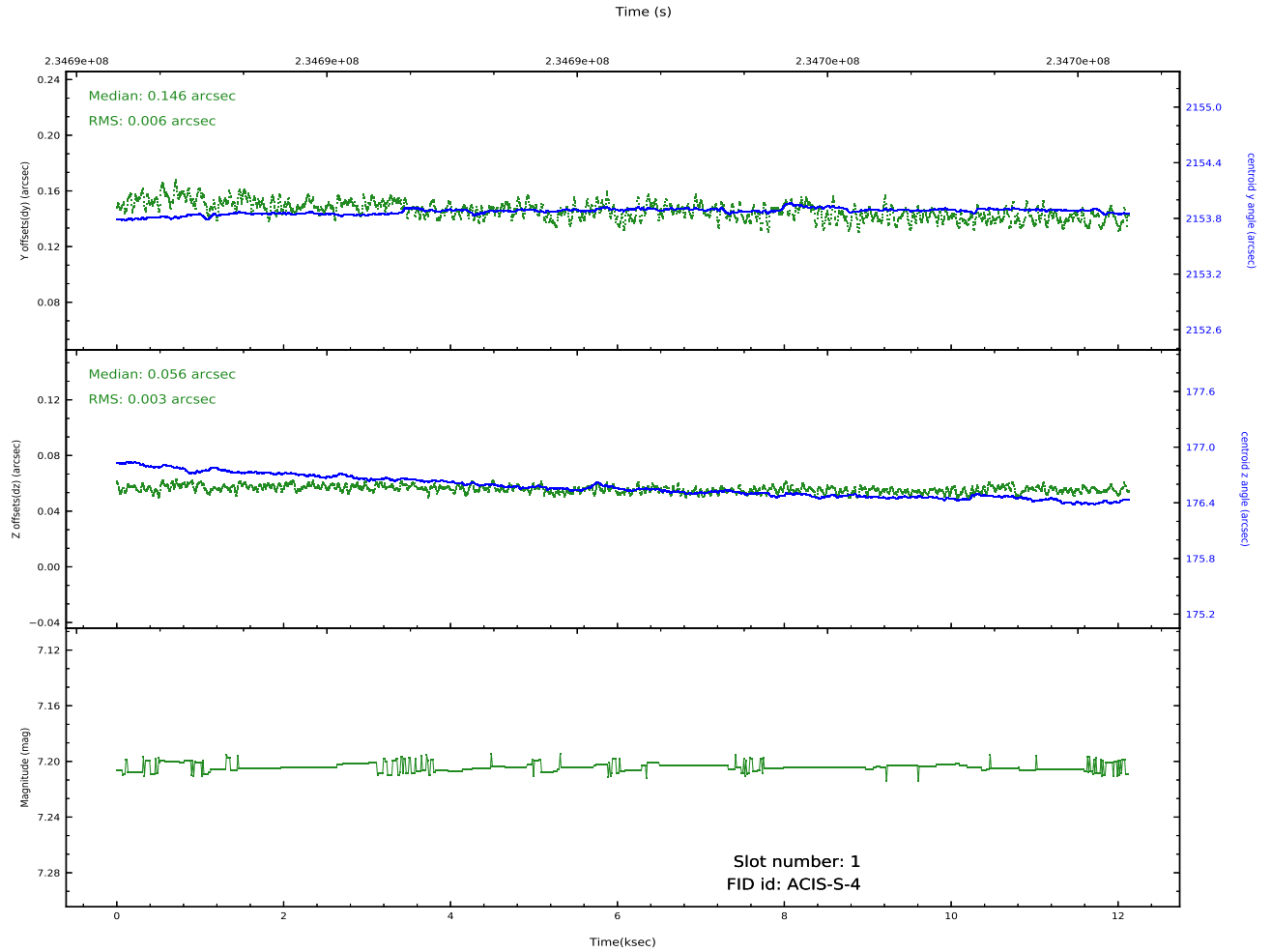
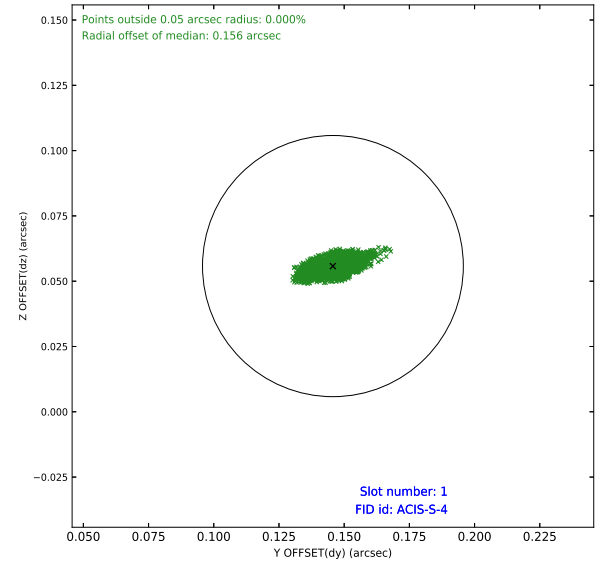
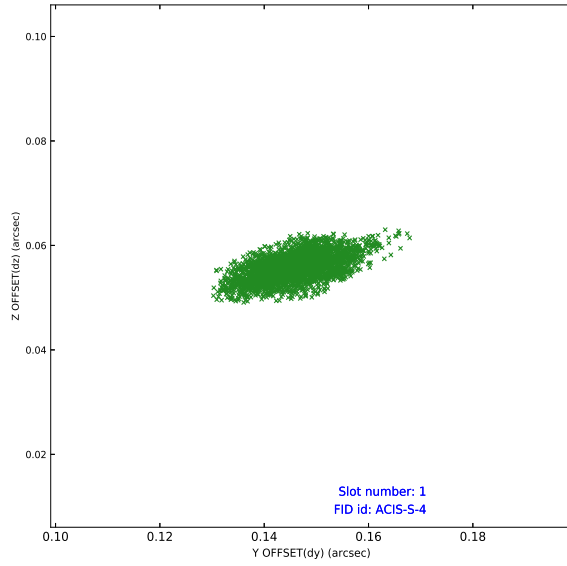


2.5 FID Slots

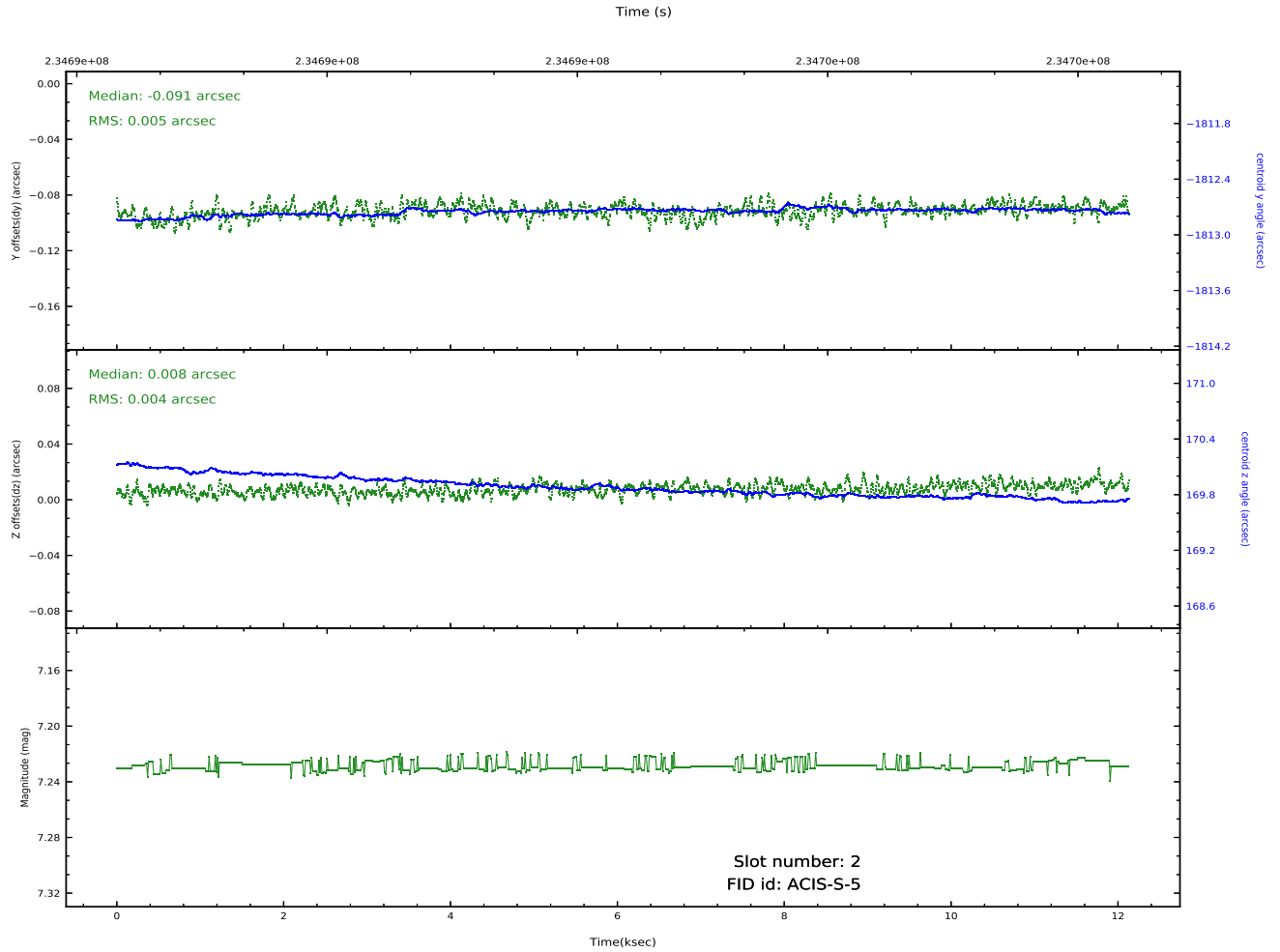
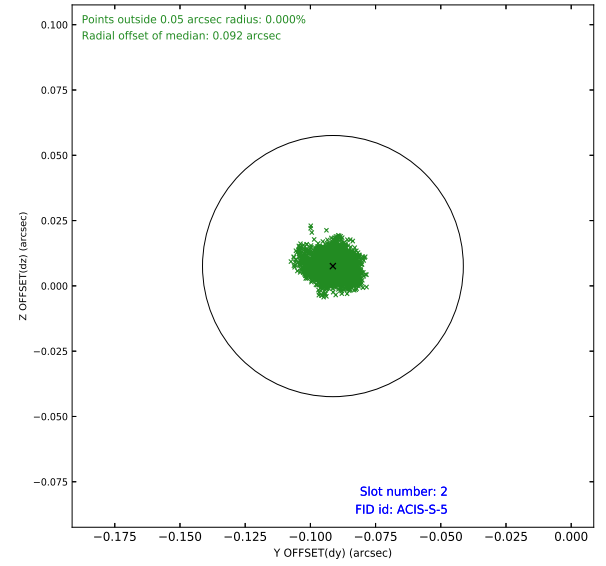
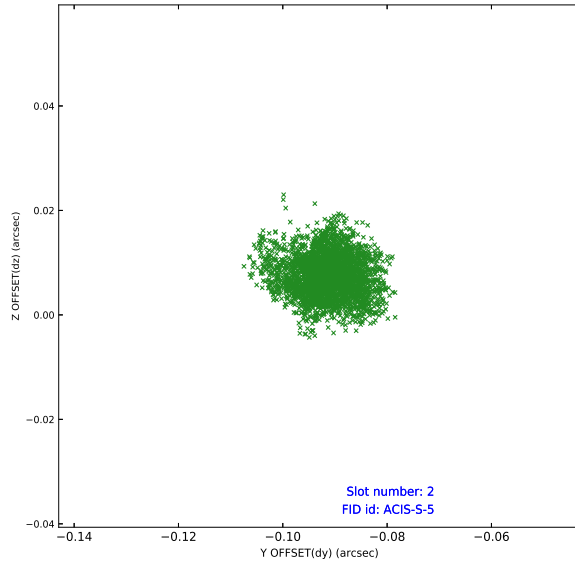
2.5.1 Slot 0



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)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.12799

A.2 Comments