

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5611 - L2 Version 4
Chandra X-Ray Center

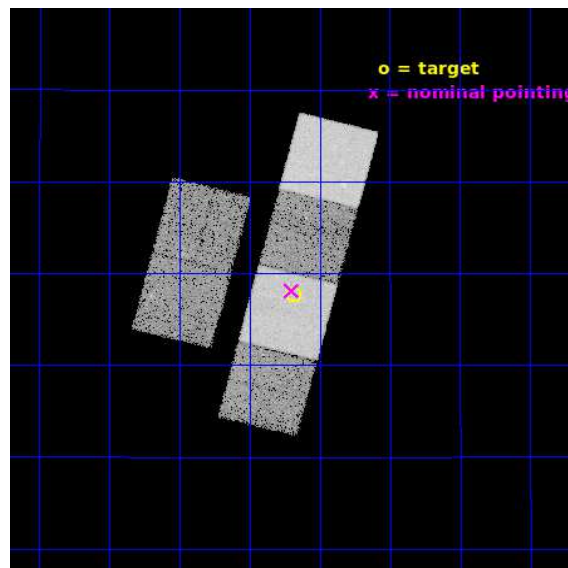
L2 Processing Date : Oct 7 2020

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1 Front

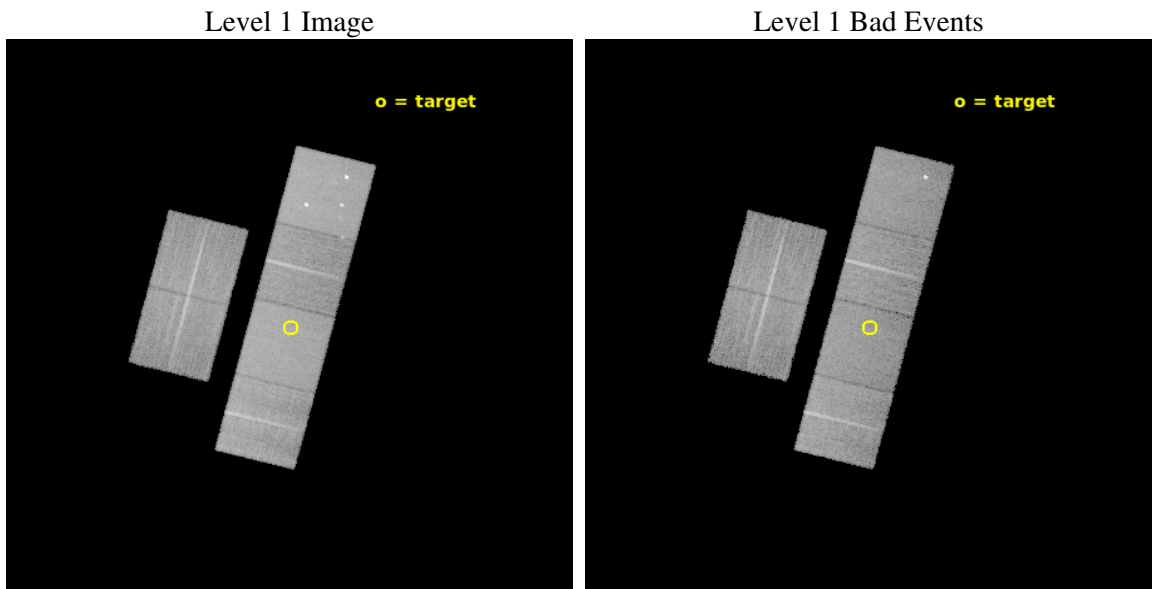
seq_num	701034	Sequence number
obs_id	5611	Observation id
title	A Chandra Survey of the Most Distant Quasars: X-raying the First Massive Black Holes	Proposal title
observer	William Brandt	Principal investigator
object	SDSS J1411+1217	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	212.797083	Observer's specified target RA [deg]
dec_targ	12.293694	Observer's specified target Dec [deg]
ra_nom	212.79959548676	Nominal RA [deg]
dec_nom	12.301893878986	Nominal Dec [deg]
roll_nom	104.42902141092	Nominal Roll [deg]
revision	4	Processing version of data
ontime	14457.599946141	Sum of GTIs [s]
livetime	14274.529110302	Livetime [s]
ontime2	14457.599946141	Sum of GTIs [s]
ontime3	14454.358965874	Sum of GTIs [s]
ontime5	14457.599946141	Sum of GTIs [s]
ontime6	14457.599946141	Sum of GTIs [s]
ontime7	14457.599946141	Sum of GTIs [s]
ontime8	14457.599946141	Sum of GTIs [s]
l2events	175101	Number of level 2 events



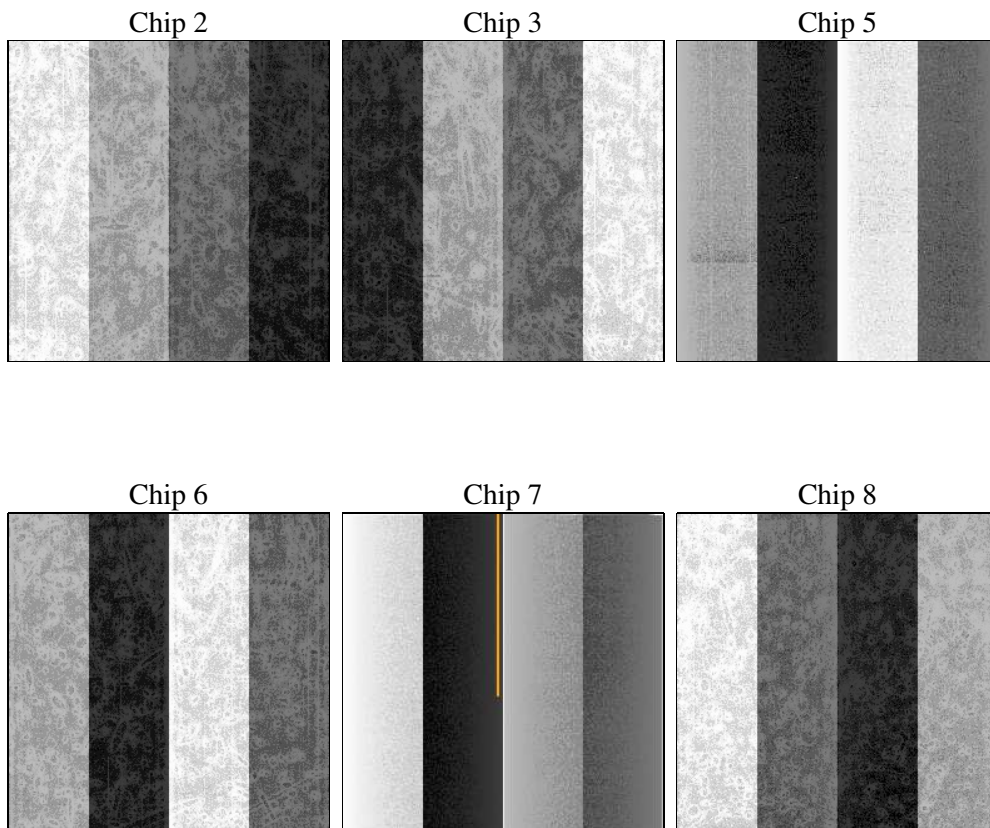
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	14457.599946141	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	14457.599946141	Sum of GTIs [s]
date	2020-10-07T10:34:36	Date and time of file creation	ontime3	14454.358965874	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	14457.599946141	Sum of GTIs [s]
			ontime6	14457.599946141	Sum of GTIs [s]
			ontime7	14457.599946141	Sum of GTIs [s]
			ontime8	14457.599946141	Sum of GTIs [s]
			l1events	772657	Number of level 1 events

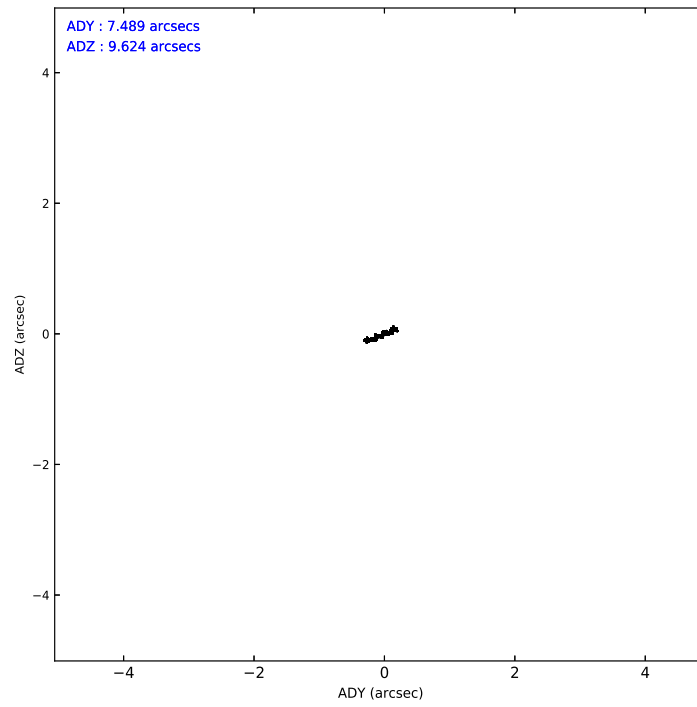
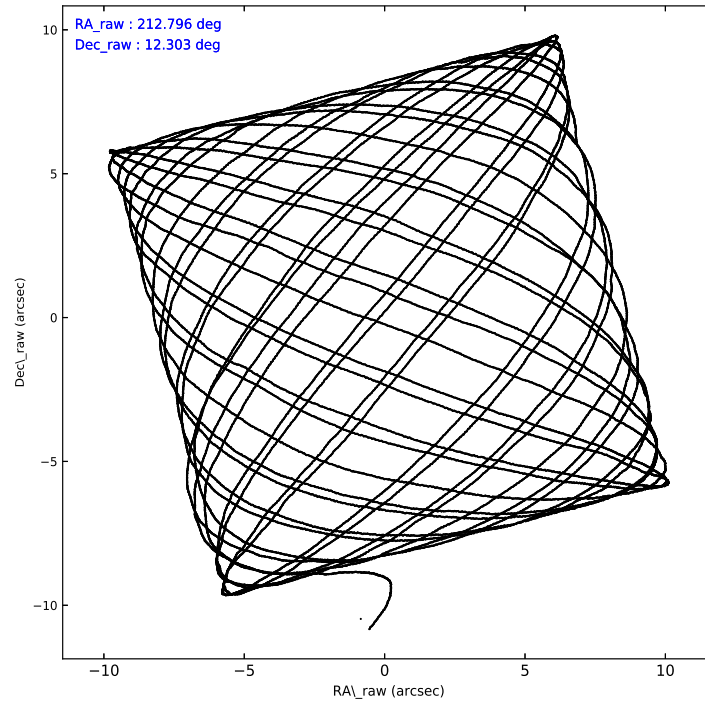
2.1.4 Events

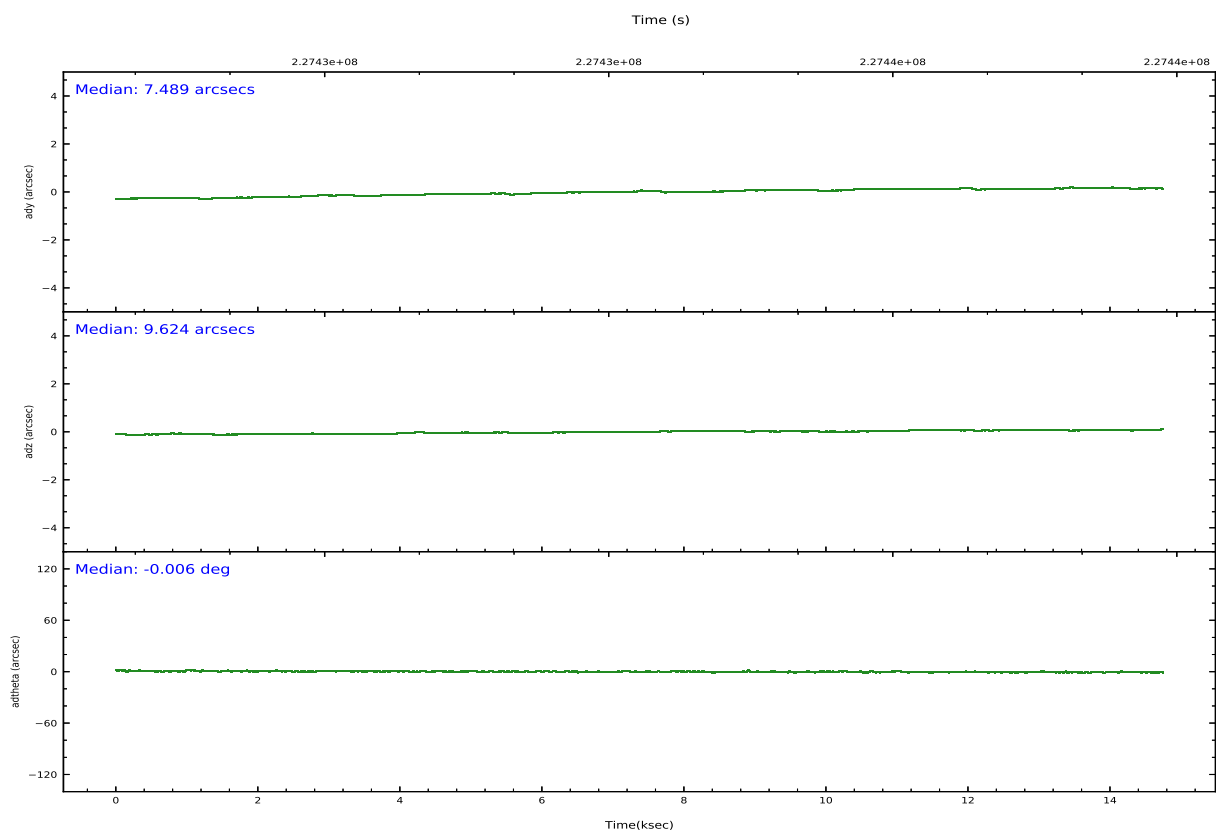
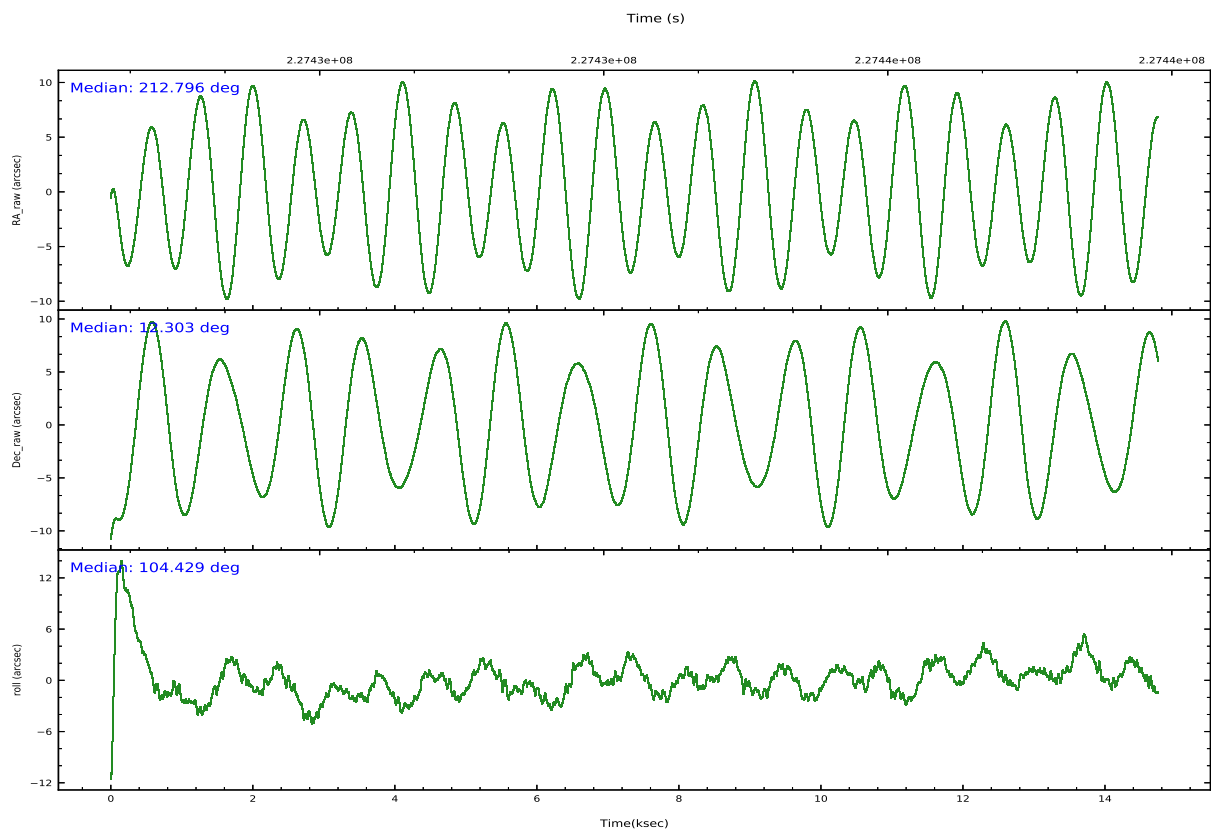
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	109666	102797	167611	108268	147861	136454	grade 0 events	5684	5646	10206	5523	5606	9715
rejected events	96791	90091	89715	94915	86607	107102		5%	5%	6%	5%	3%	7%
rejected %	88%	87%	53%	87%	58%	78%	grade 1 events	81	59	225	43	153	76
								0%	0%	0%	0%	0%	0%
							grade 2 events	2648	2425	23267	2798	12200	6492
								2%	2%	13%	2%	8%	4%
							grade 3 events	1208	1251	2887	1222	5299	2950
								1%	1%	1%	1%	3%	2%
							grade 4 events	1157	1202	2773	1169	5361	2870
								1%	1%	1%	1%	3%	2%
							grade 5 events	4527	4873	12368	5222	13919	6512
								4%	4%	7%	4%	9%	4%
							grade 6 events	2180	2186	38779	2645	32802	7327
								1%	2%	23%	2%	22%	5%
							grade 7 events	92181	85155	77106	89646	72521	100512
								84%	82%	46%	82%	49%	73%

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	212.816108	212.79959548676	Subarray requested	NONE	NONE
[deg] Pointing Dec	12.284153	12.301893878986	Alternating exposures requested	N	N
[deg] Pointing Roll	104.268787	104.42902141092	[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	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	227425307.184000	227424313.09335			
Observation start date	2005-03-17T05:40:43	2005-03-17T05:25:13			
[s] Observation end time (MET)	227439807.184000	227440408.66908			
Observation end date	2005-03-17T09:42:23	2005-03-17T09:53:28			
Read mode	TIMED	TIMED			

2.3 Aspect



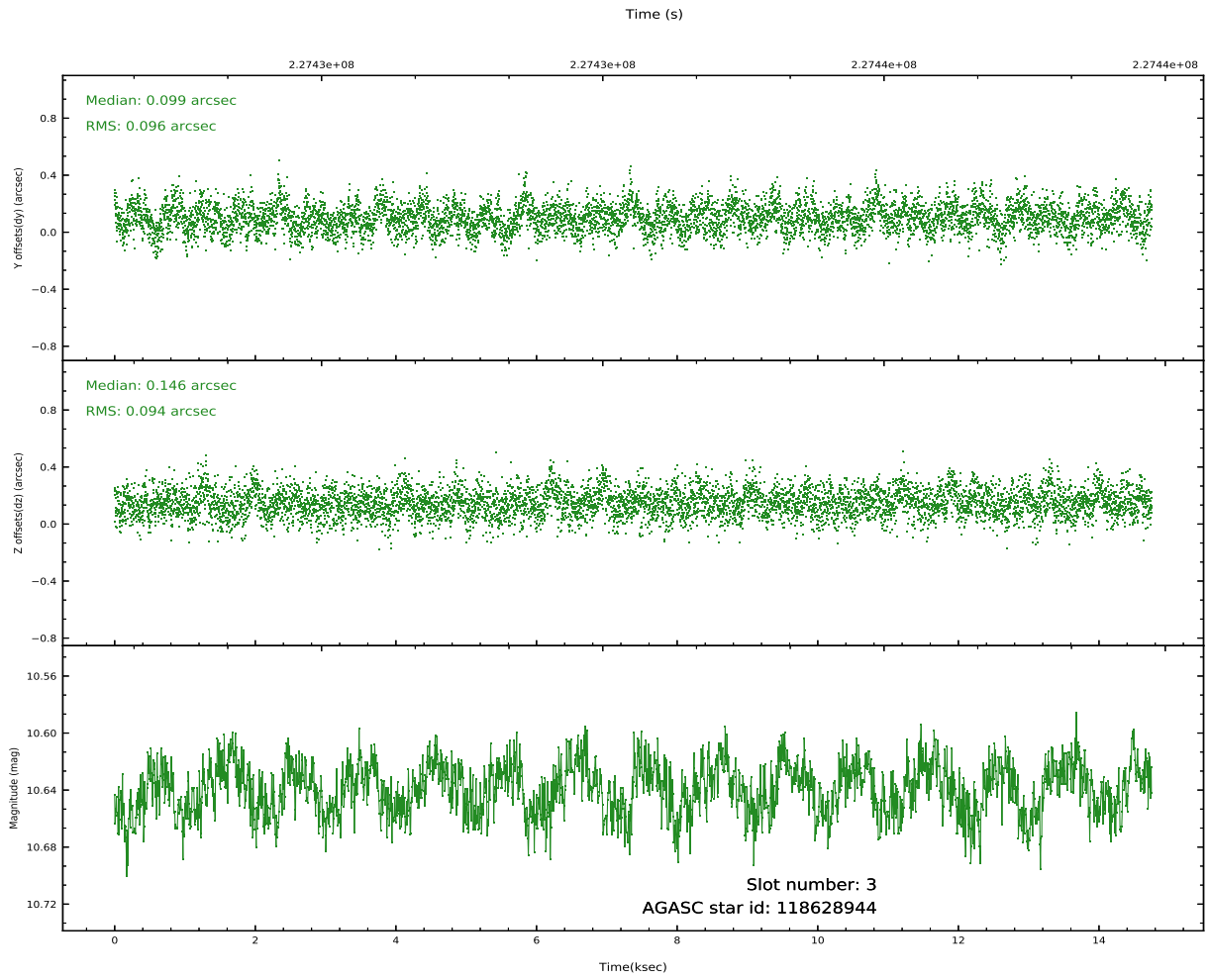
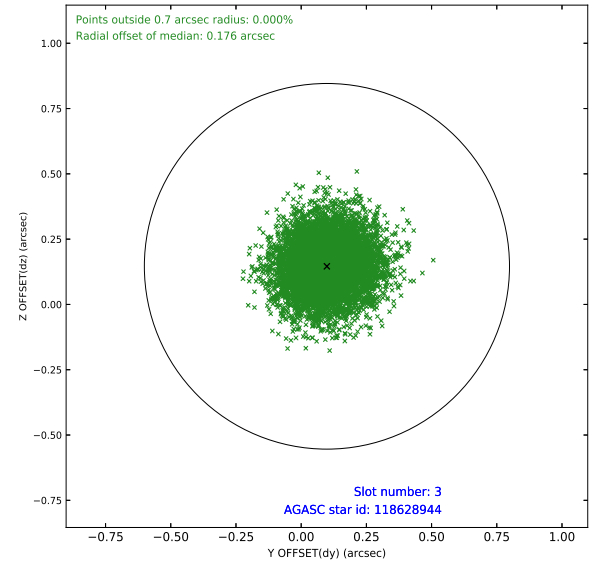
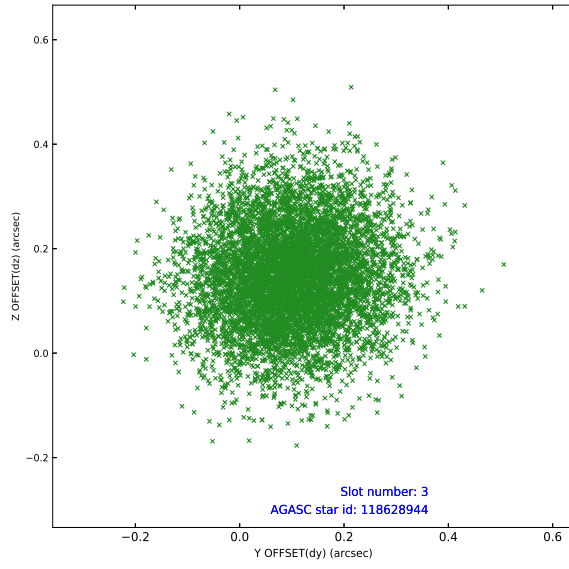


Slot Statistics

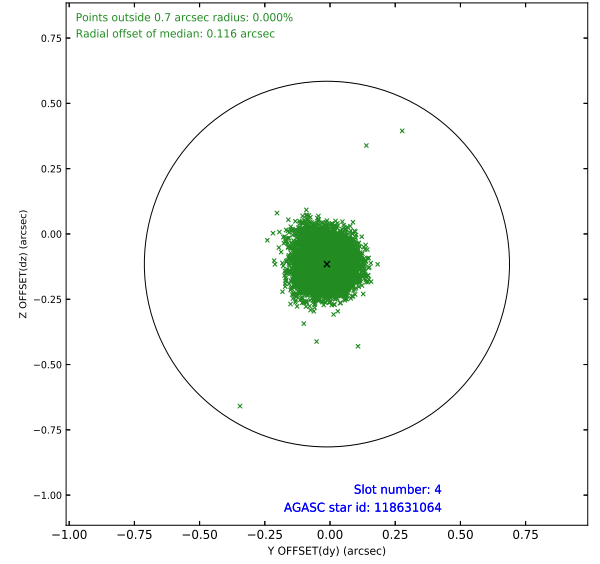
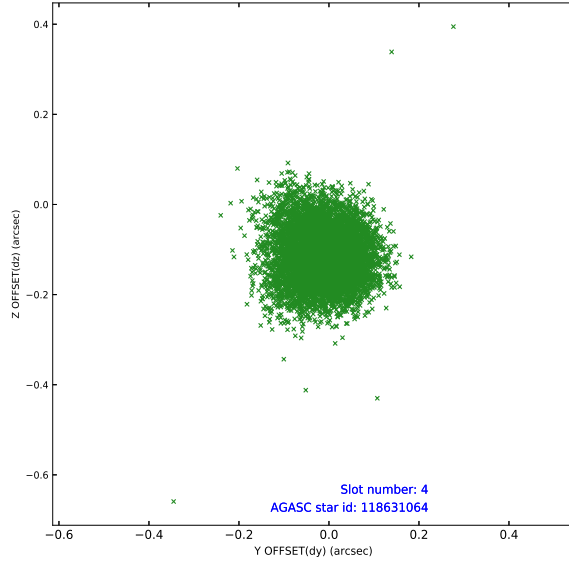
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	3598	1.000	-0.065	-0.071	0.009	0.014	0.000000	0.000000	-760.23	-1730
1	FID		ACIS-S-4	7.20	3598	1.000	0.155	0.050	0.007	0.012	0.000000	0.000000	2153.06	177
2	FID		ACIS-S-5	7.23	3598	1.000	-0.121	0.030	0.009	0.014	0.000000	0.000000	-1812.80	171
3	GUIDE	used	118628944	10.64	7184	1.000	0.099	0.146	0.144	0.233	213.433124	11.875502	-1958.59	-1744
4	GUIDE	used	118631064	9.02	7191	1.000	-0.012	-0.115	0.090	0.142	212.287444	12.244527	321.94	1836
5	GUIDE	used	119021896	9.51	7189	1.000	-0.069	-0.117	0.097	0.153	212.526410	12.506556	1027.86	790
6	GUIDE	used	119022488	9.34	7192	1.000	-0.066	-0.036	0.095	0.153	212.245442	12.543111	1399.94	1713
7	GUIDE	used	119022824	9.66	7192	1.000	0.050	0.115	0.103	0.170	212.791020	12.549000	946.16	-148

2.4 Star Slots

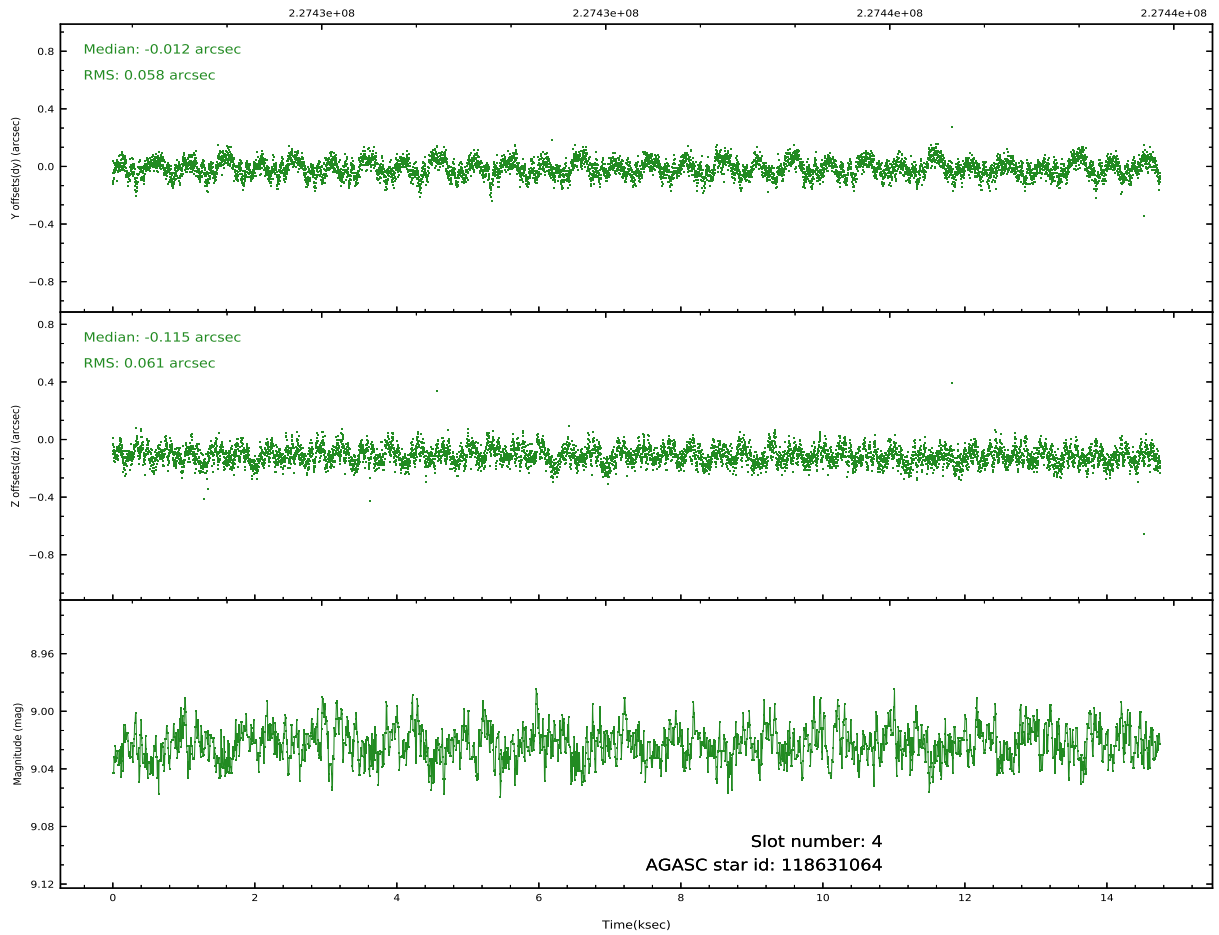
2.4.1 Slot 3



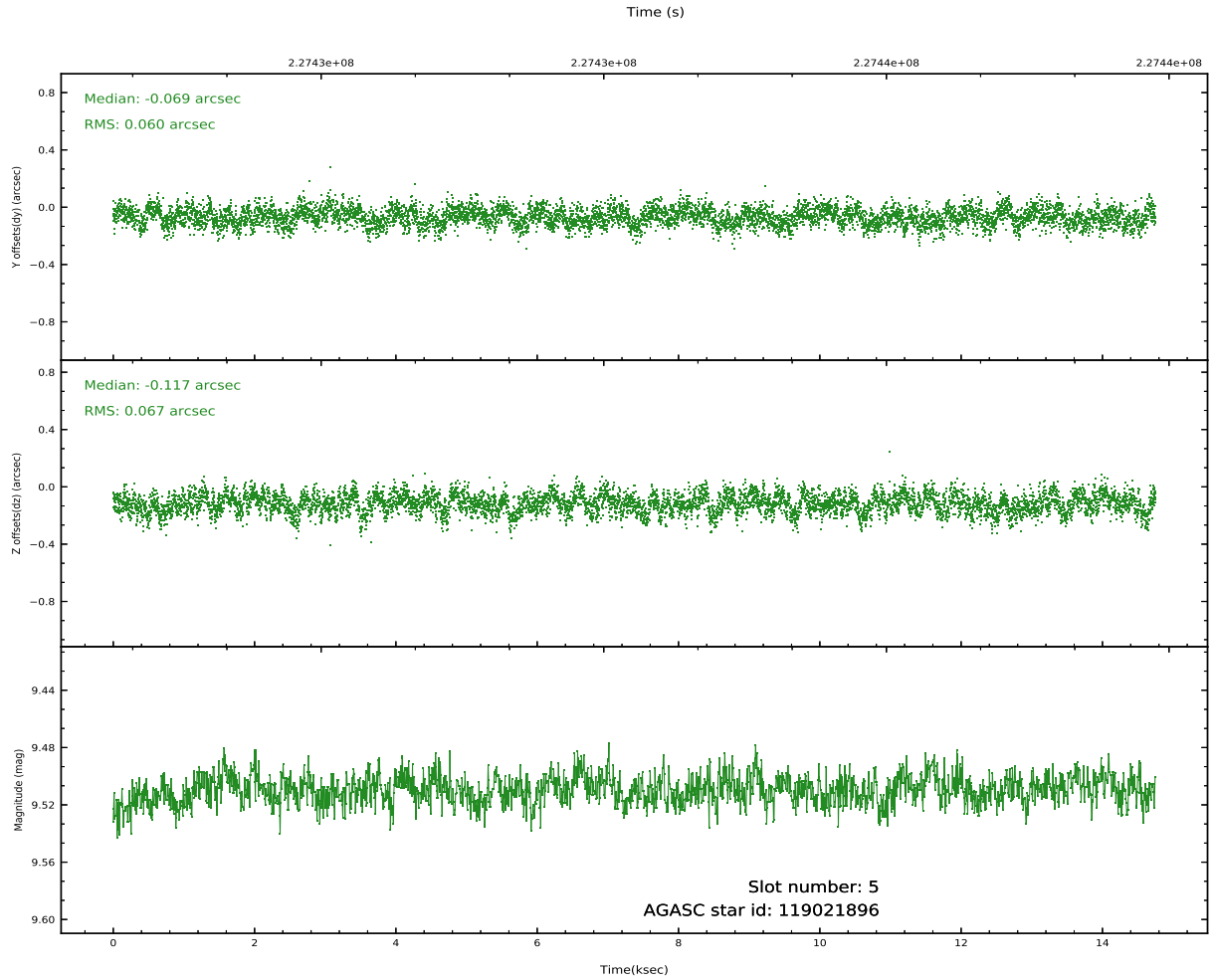
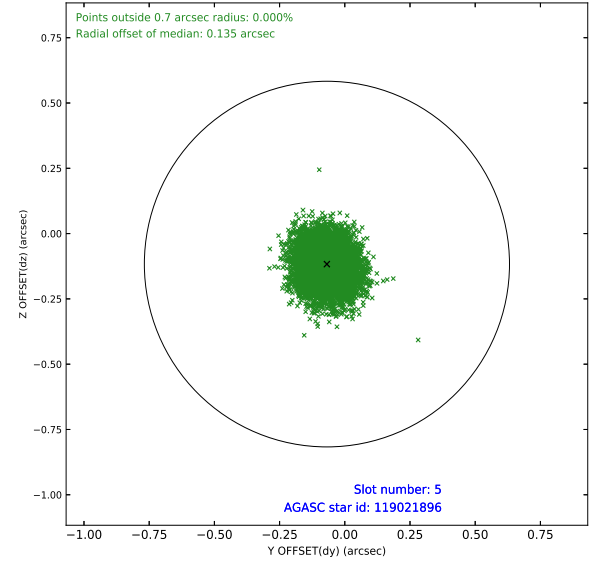
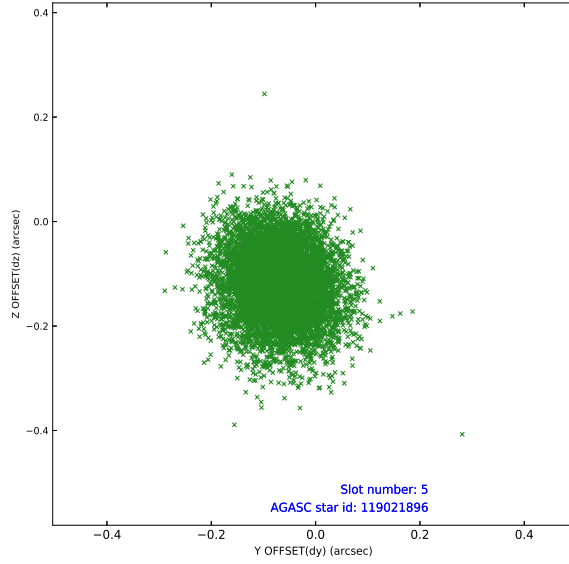
2.4.2 Slot 4



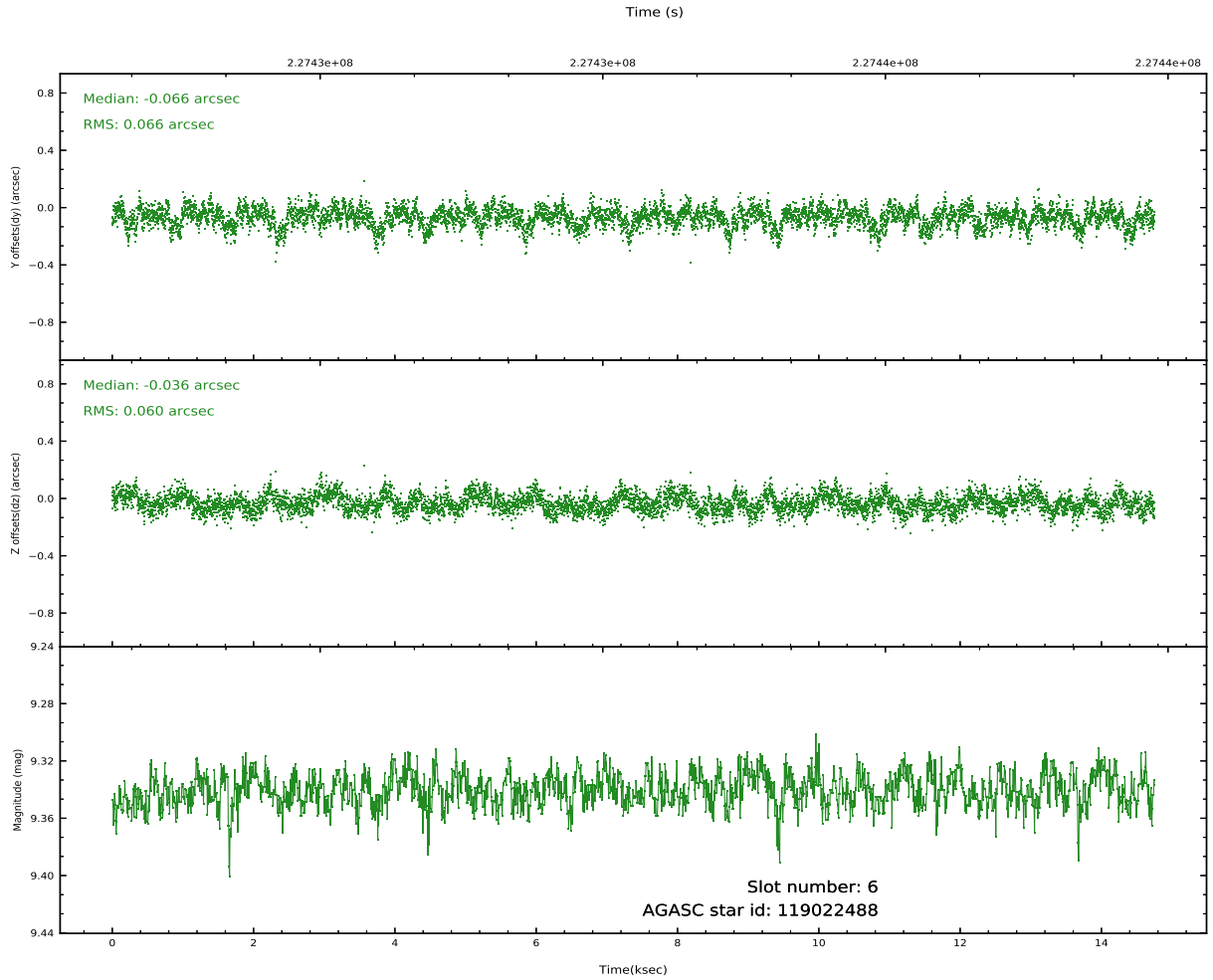
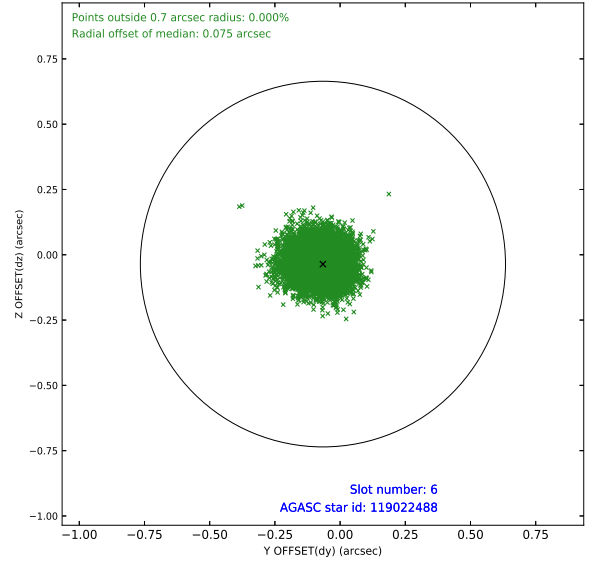
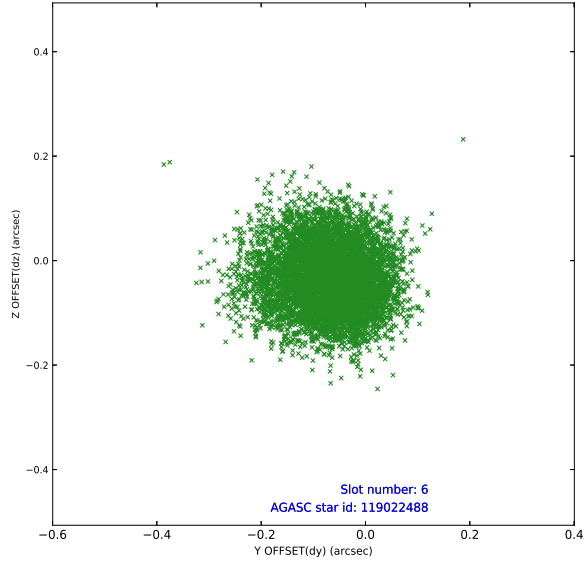
Time (s)



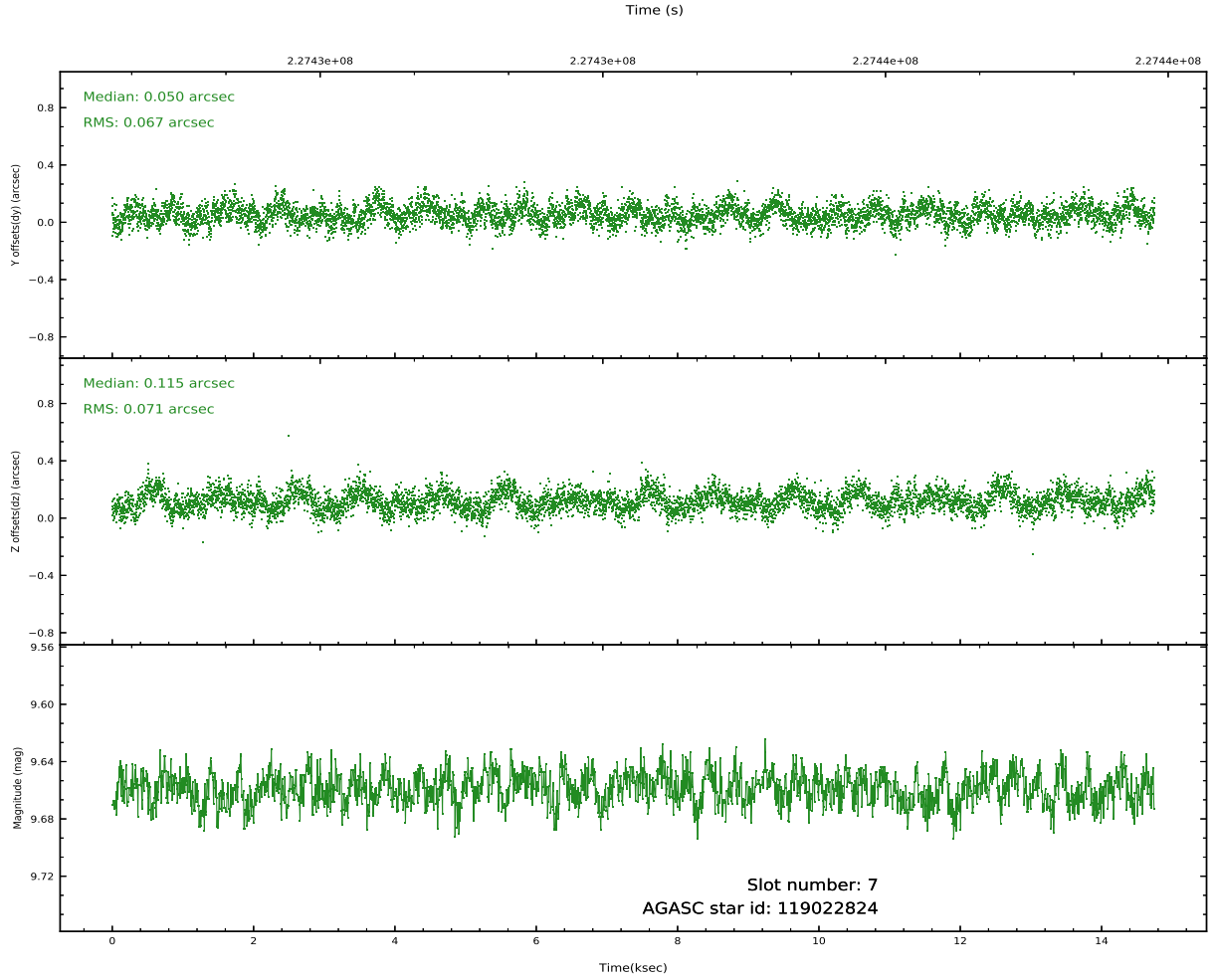
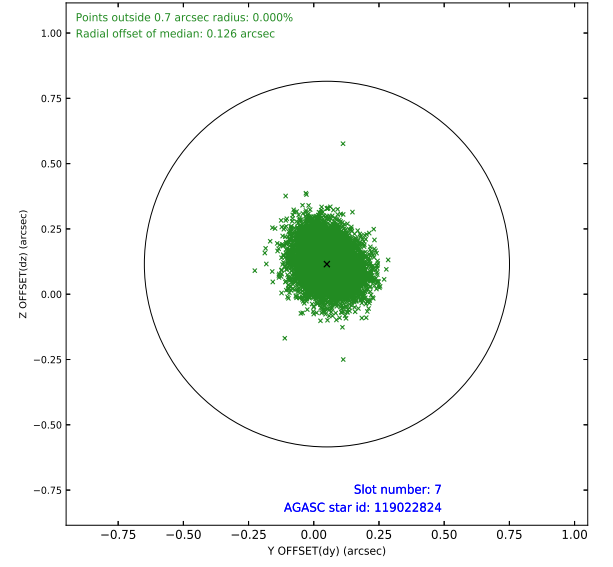
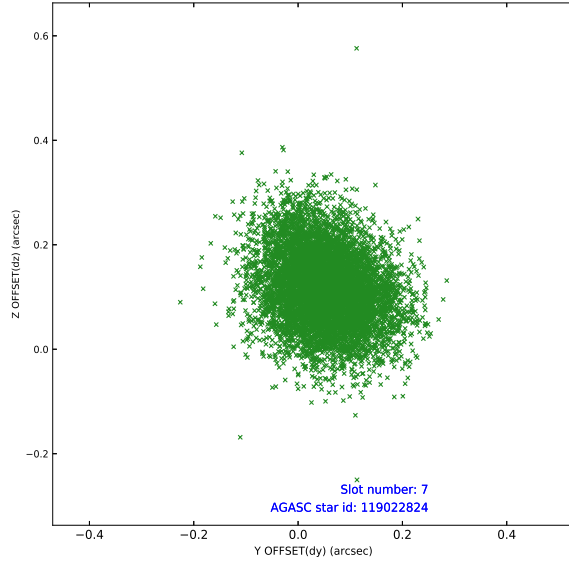
2.4.3 Slot 5



2.4.4 Slot 6

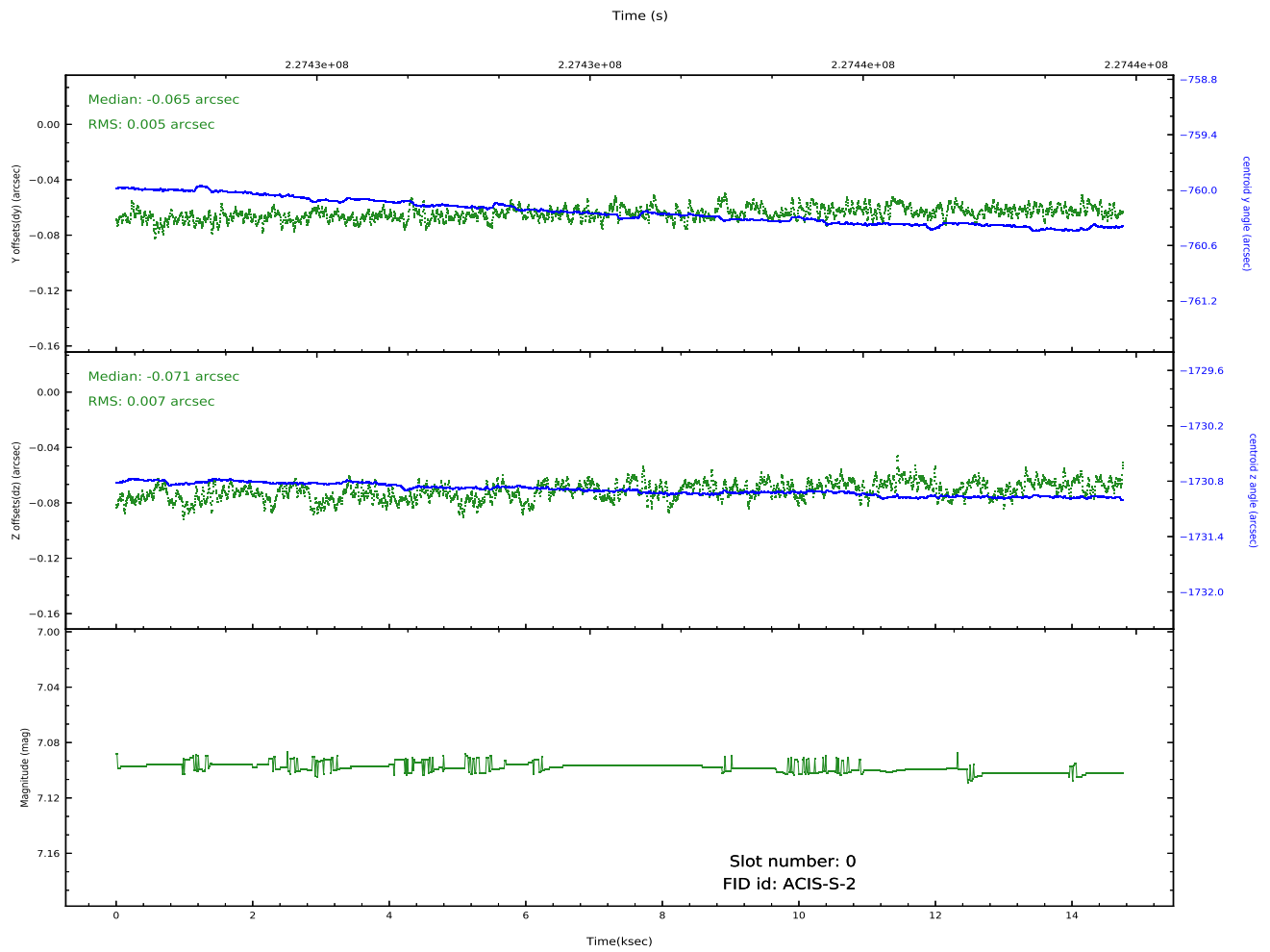
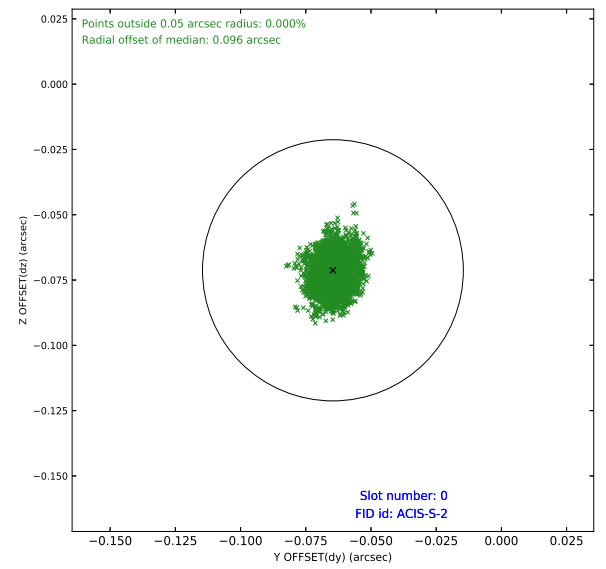
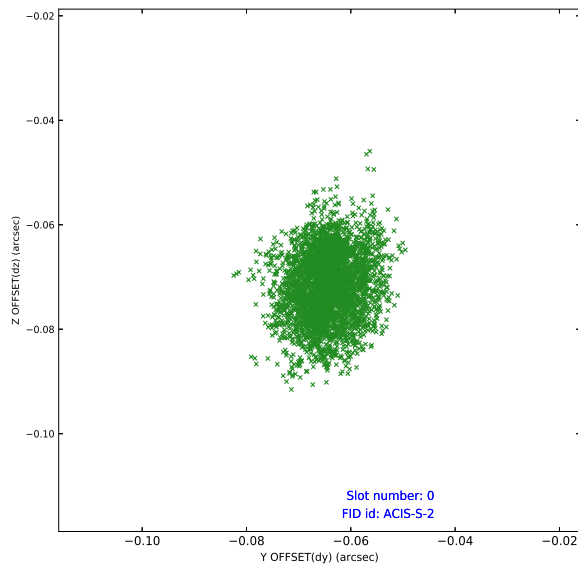


2.4.5 Slot 7

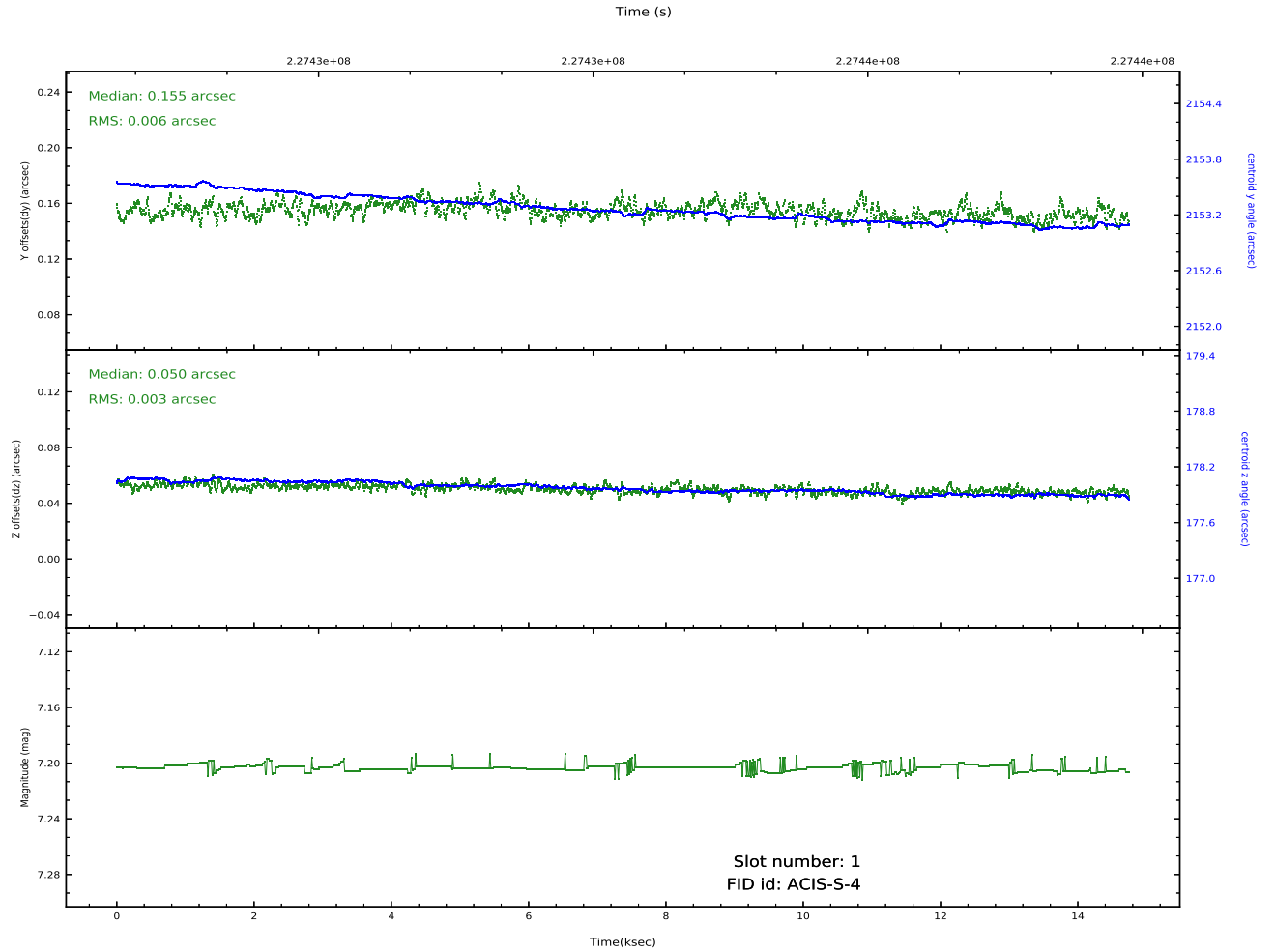
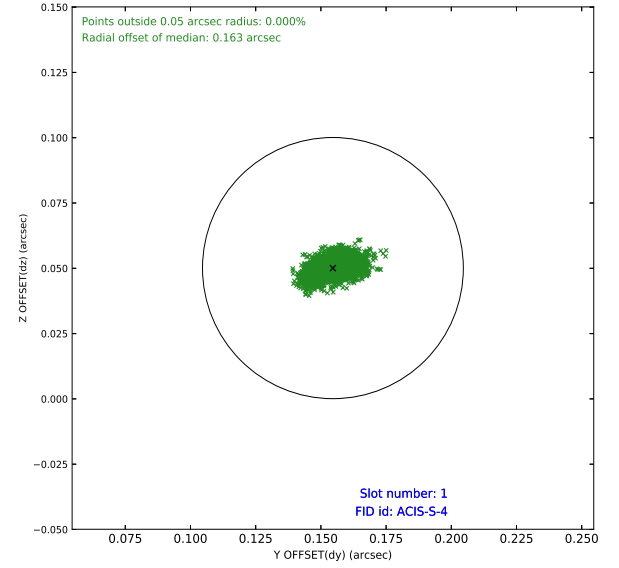
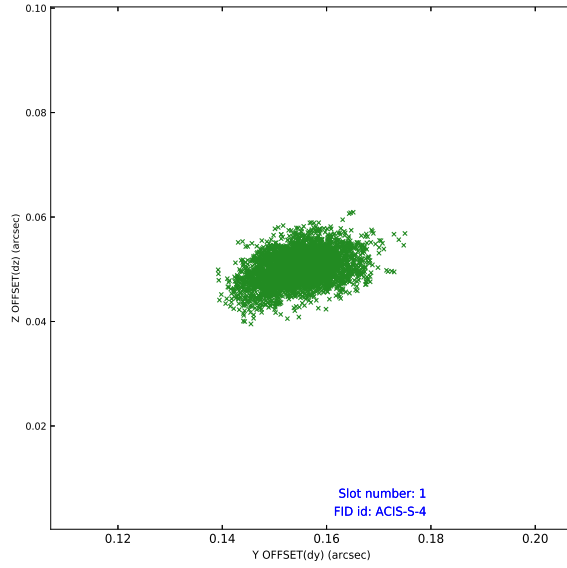


2.5 FID Slots

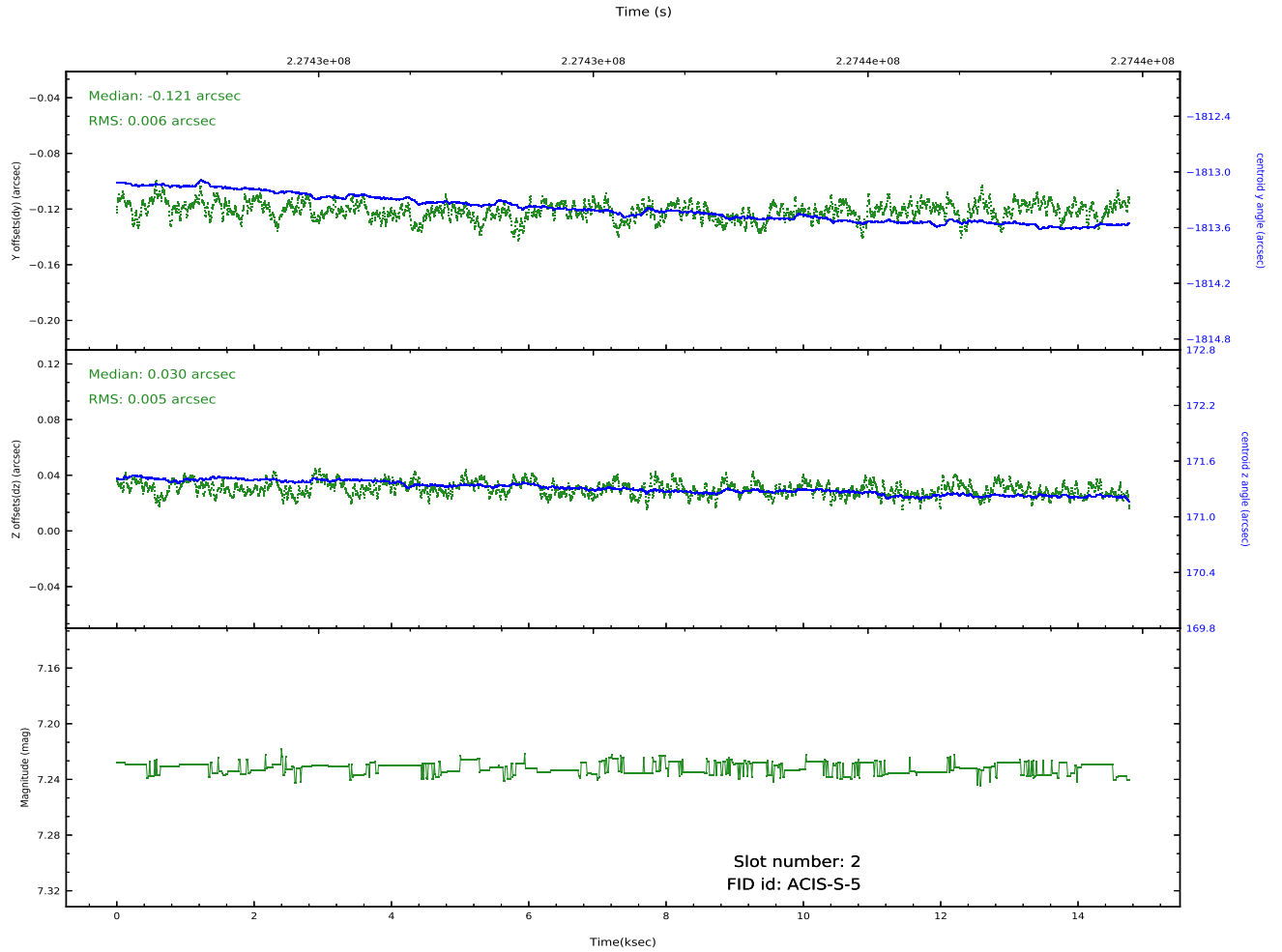
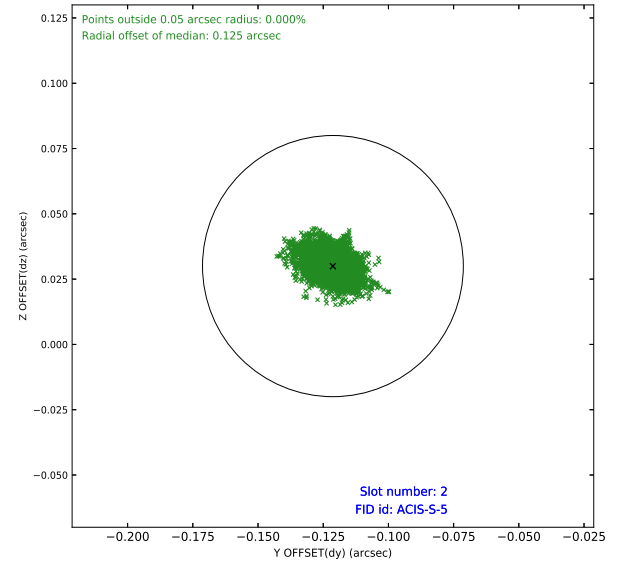
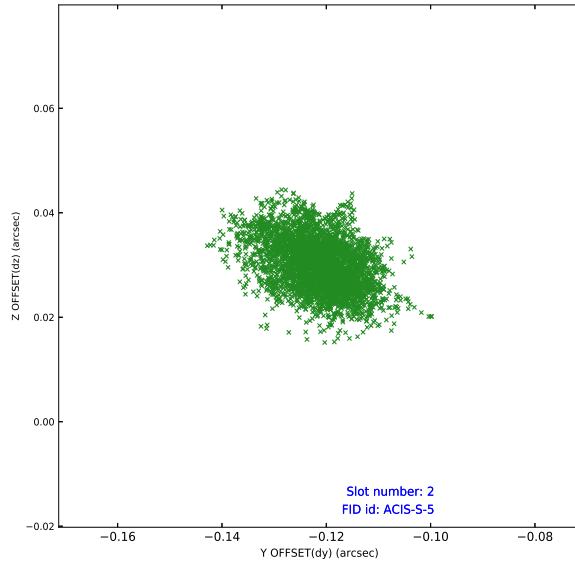
2.5.1 Slot 0



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)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.45759

A.2 Comments