

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19369 - L2 Version 2
Chandra X-Ray Center

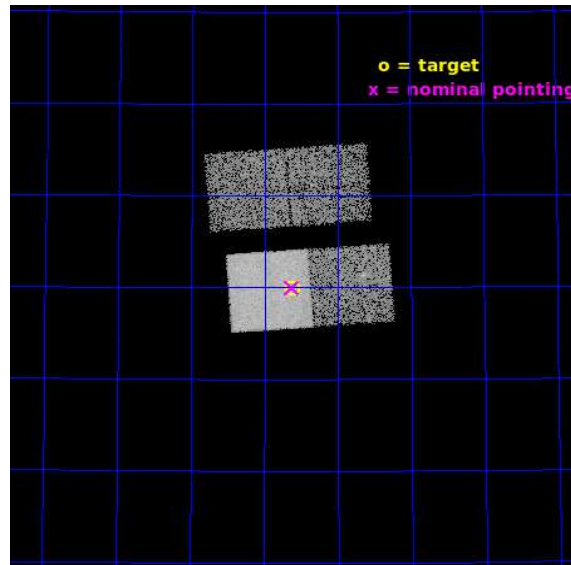
L2 Processing Date : Oct 25 2020

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1 Front

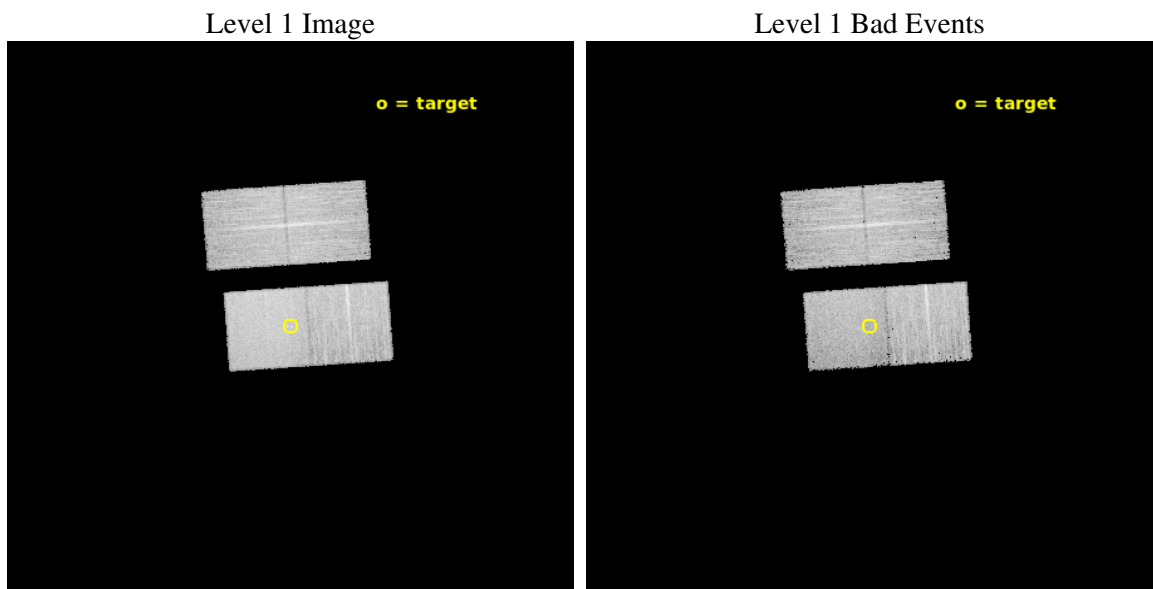
seq_num	601326	Sequence number
obs_id	19369	Observation id
title	A Statistically Complete High Resolution Chandra and Radio (eMERLIN) Survey of the Palomar Nearby Galaxies Sample	Proposal title
observer	Ian McHardy	Principal investigator
object	NGC 5985	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	234.904583	Observer's specified target RA [deg]
dec_targ	59.331944	Observer's specified target Dec [deg]
ra_nom	234.90651089292	Nominal RA [deg]
dec_nom	59.333006345661	Nominal Dec [deg]
roll_nom	175.92736851905	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10064.285257816	Sum of GTIs [s]
livetime	9932.7879617039	Livetime [s]
ontime2	10064.162137866	Sum of GTIs [s]
ontime3	10064.20317781	Sum of GTIs [s]
ontime6	10064.244217873	Sum of GTIs [s]
ontime7	10064.285257816	Sum of GTIs [s]
l2events	61092	Number of level 2 events



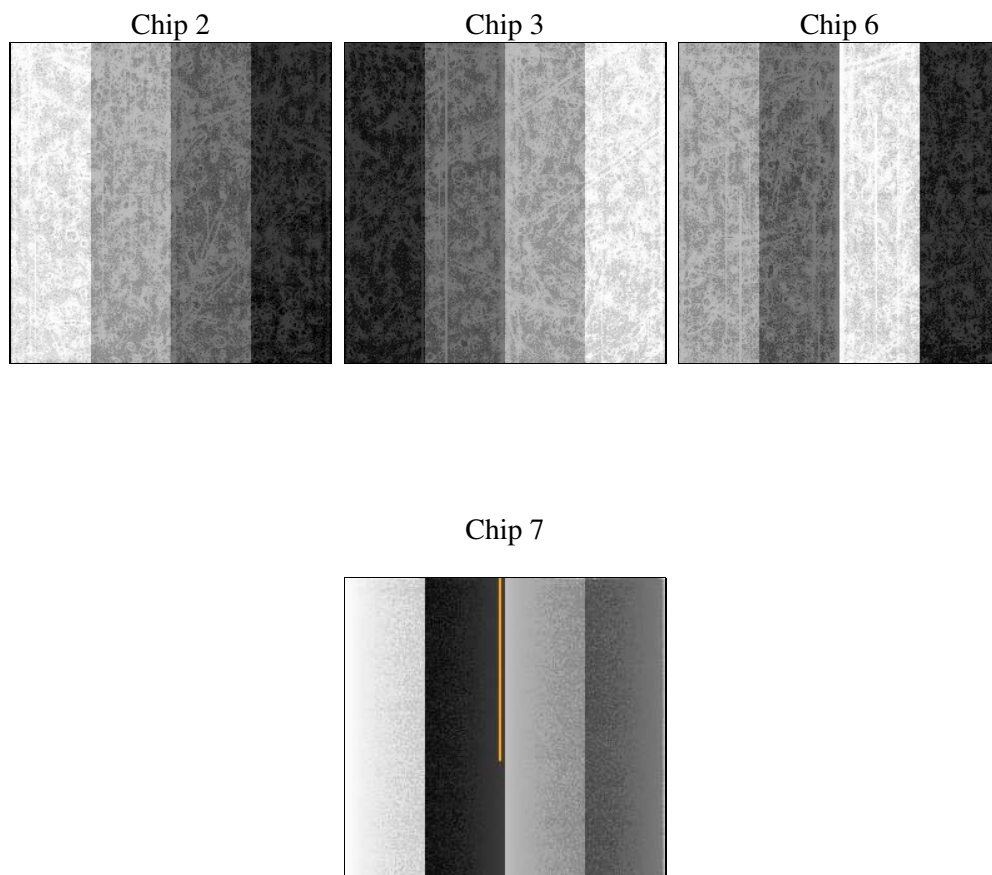
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	10064.285257816	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	10064.162137866	Sum of GTIs [s]
date	2020-10-25T22:34:10	Date and time of file creation	ontime3	10064.20317781	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	10064.244217873	Sum of GTIs [s]
			ontime7	10064.285257816	Sum of GTIs [s]
			l1events	327883	Number of level 1 events

2.1.4 Events

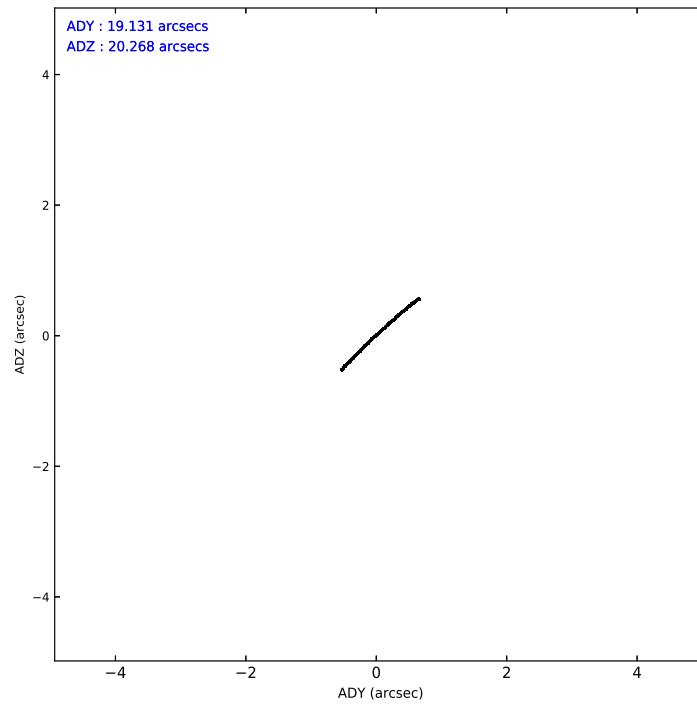
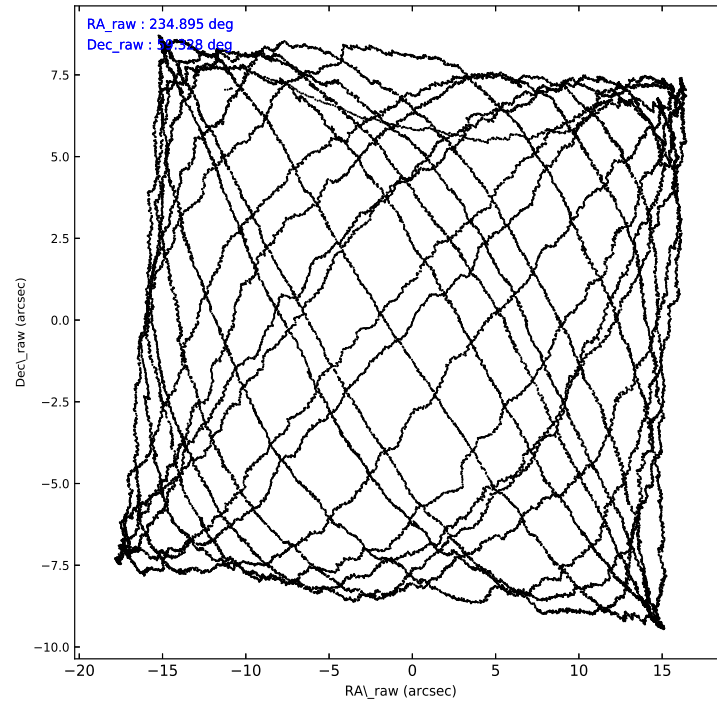
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	78266	72973	80092	96552
rejected events	70511	65537	71207	54887
rejected %	90%	89%	88%	56%

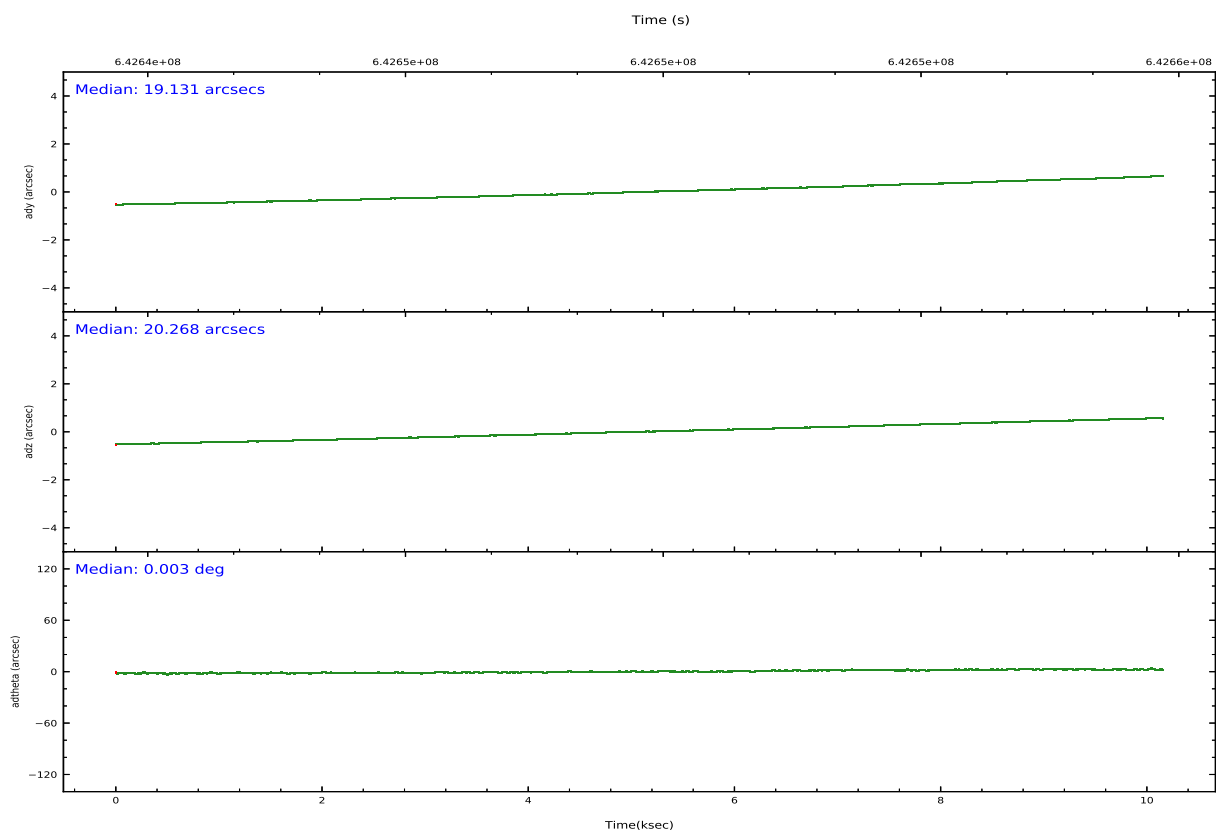
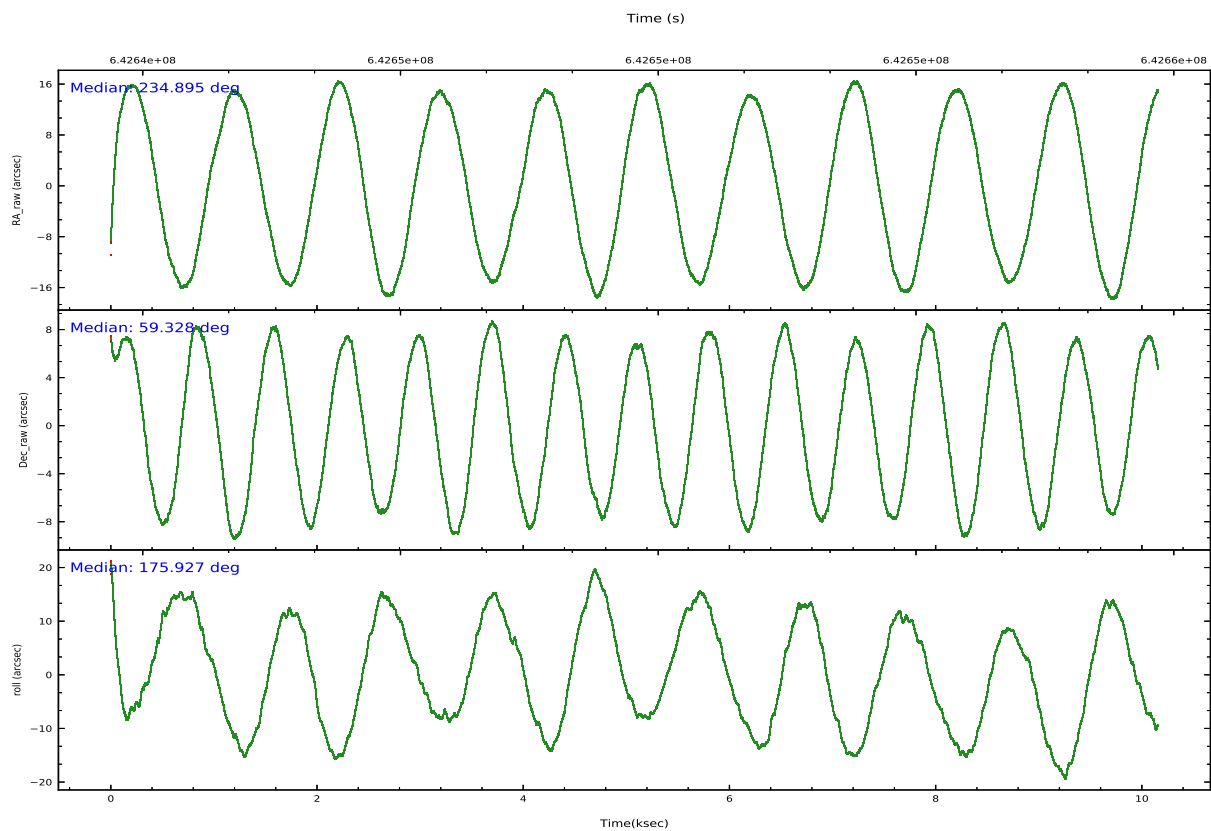
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2883	2576	2842	3450
	3%	3%	3%	3%
grade 1 events	51	35	40	129
	0%	0%	0%	0%
grade 2 events	1781	1622	2360	8728
	2%	2%	2%	9%
grade 3 events	750	777	745	3400
	0%	1%	0%	3%
grade 4 events	771	815	727	3311
	0%	1%	0%	3%
grade 5 events	2903	3395	3301	9142
	3%	4%	4%	9%
grade 6 events	1573	1648	2213	22797
	2%	2%	2%	23%
grade 7 events	67554	62105	67864	45595
	86%	85%	84%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-2367	ACIS-2367	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	234.942929	234.90651089292	Subarray requested	NONE	NONE
[deg] Pointing Dec	59.339833	59.333006345661	Alternating exposures requested	N	N
[deg] Pointing Roll	175.735225	175.92736851905	[s] Primary exposure time	0.000000	3.1
[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)	642644848.184000	642643803.89203			
Observation start date	2018-05-14T00:26:19	2018-05-14T00:10:03			
[s] Observation end time (MET)	642654848.184000	642655352.56771			
Observation end date	2018-05-14T03:12:59	2018-05-14T03:22:32			
Read mode	TIMED	TIMED			

2.3 Aspect



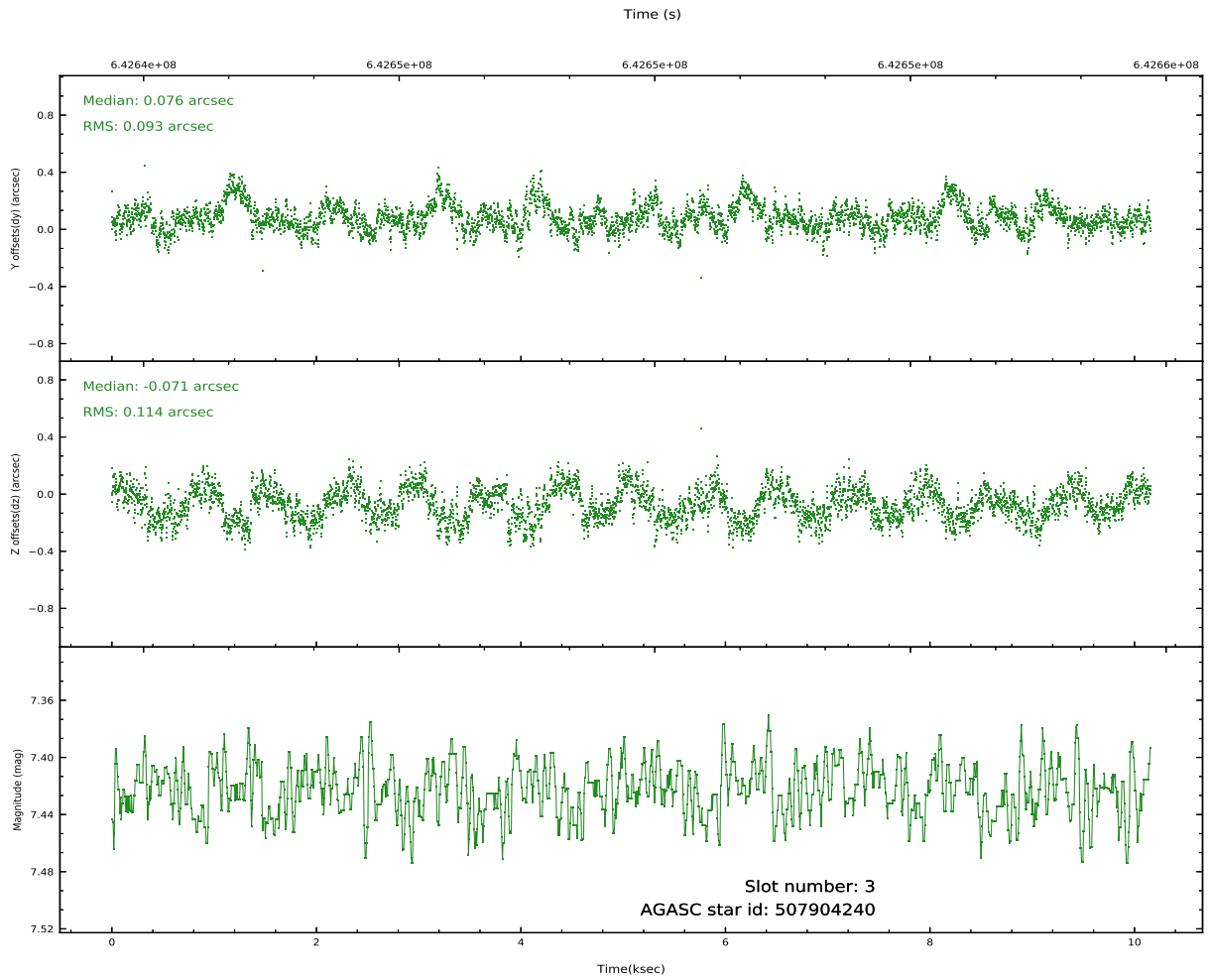
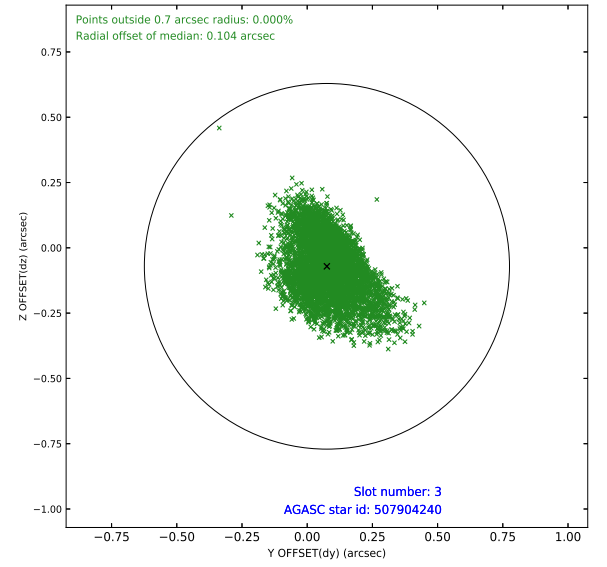
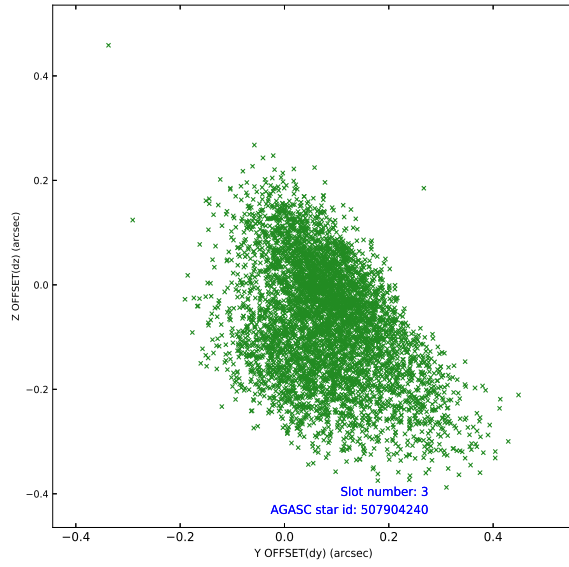


Slot Statistics

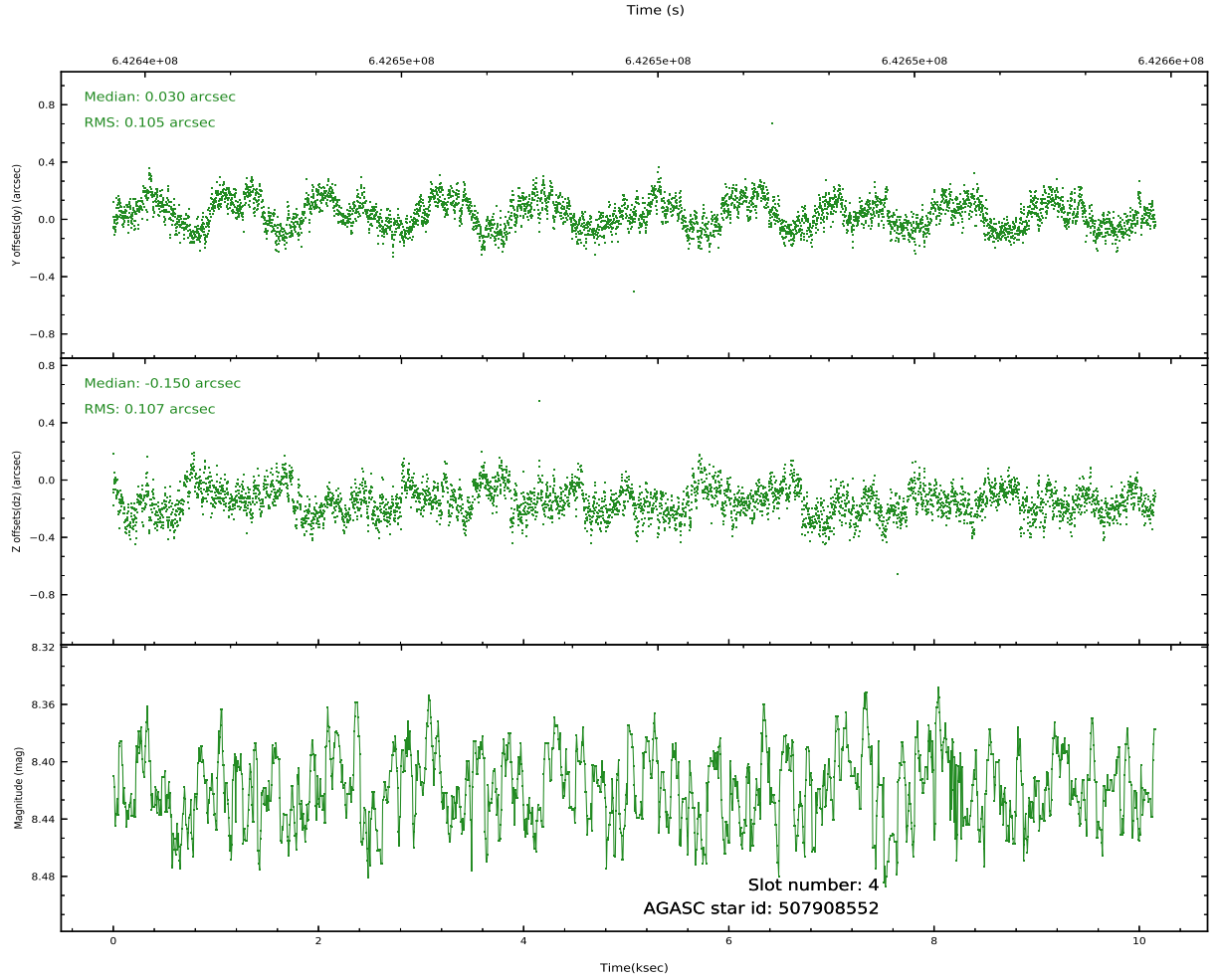
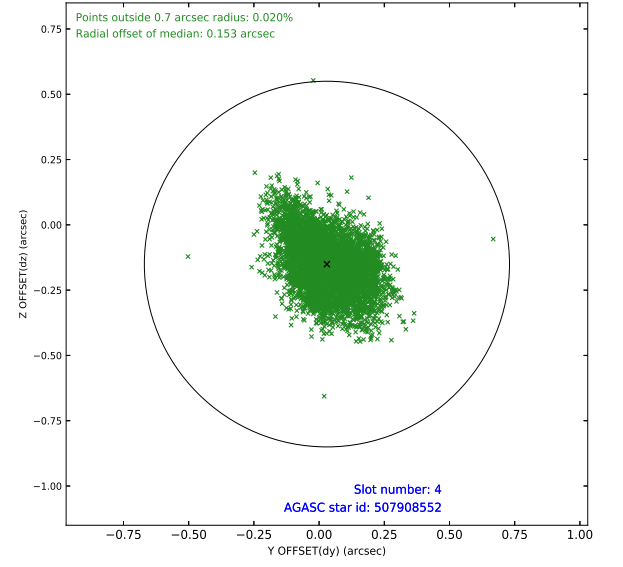
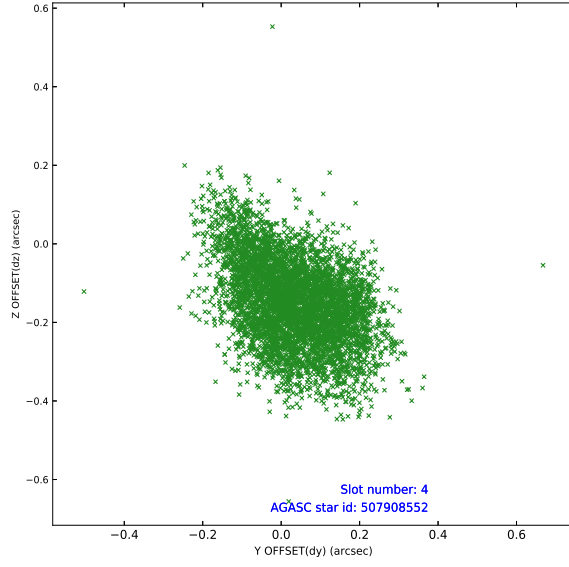
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.14	2478	1.000	0.096	-0.110	0.008	0.013	0.000000	0.000000	-772.35	-1741
1	FID		ACIS-S-4	7.26	2478	1.000	0.154	-0.016	0.017	0.032	0.000000	0.000000	2140.97	165
2	FID		ACIS-S-5	7.24	2477	1.000	-0.280	0.135	0.016	0.031	0.000000	0.000000	-1824.67	160
3	GUIDE	used	507904240	7.42	4956	1.000	0.076	-0.071	0.153	0.259	233.834990	59.679000	2101.06	-1084
4	GUIDE	used	507908552	8.42	4954	1.000	0.030	-0.150	0.158	0.259	233.880841	59.097342	1895.22	1000
5	GUIDE	used	508038464	9.22	4950	1.000	0.089	0.164	0.158	0.258	235.886564	59.716346	-1605.53	-1489
6	GUIDE	used	508038008	9.16	4950	1.000	-0.190	-0.052	0.234	0.364	236.092642	58.792698	-2283.71	1786
7	GUIDE	used	548146112	8.59	4952	1.000	-0.003	0.100	0.133	0.224	234.692236	60.011012	629.39	-2375

2.4 Star Slots

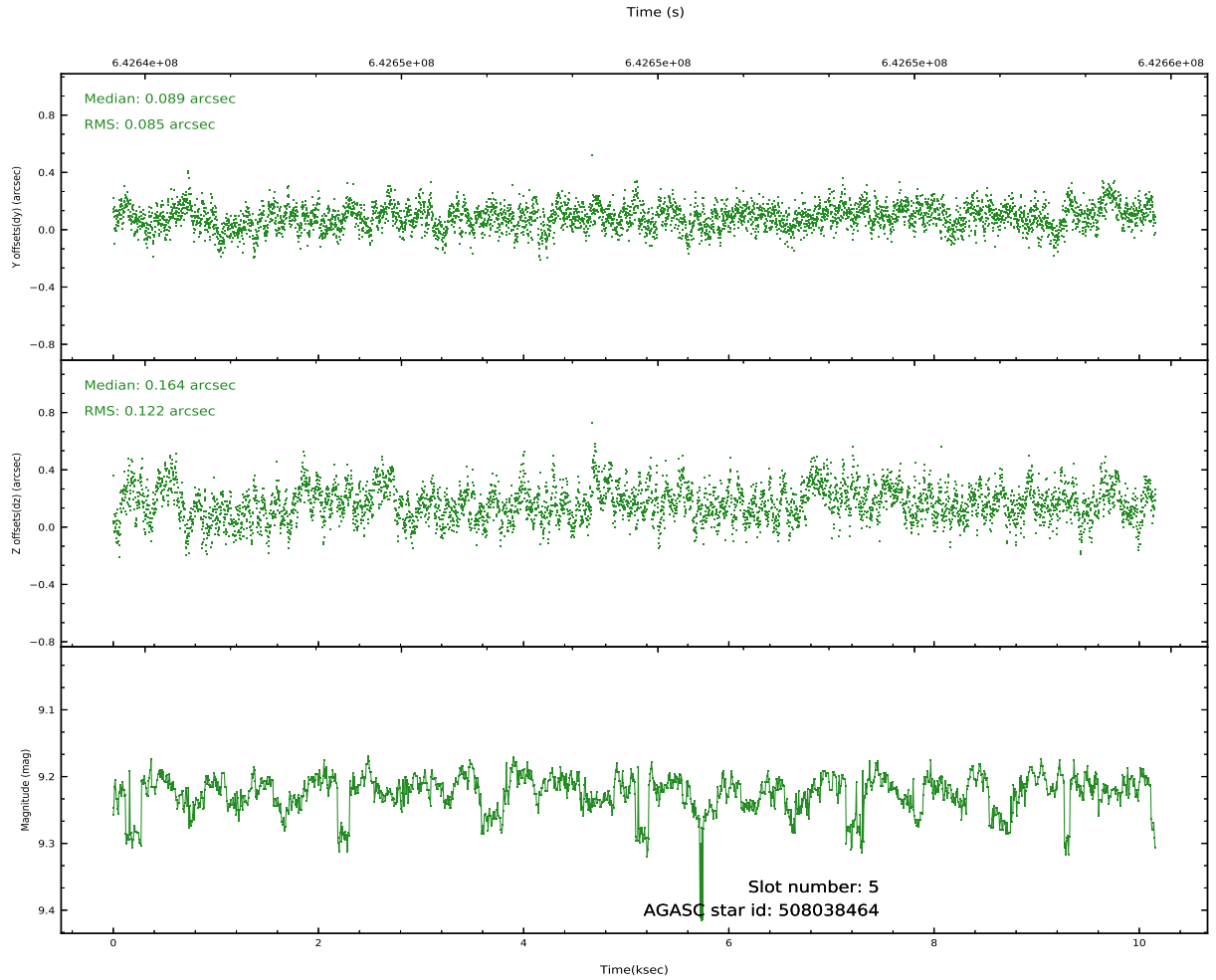
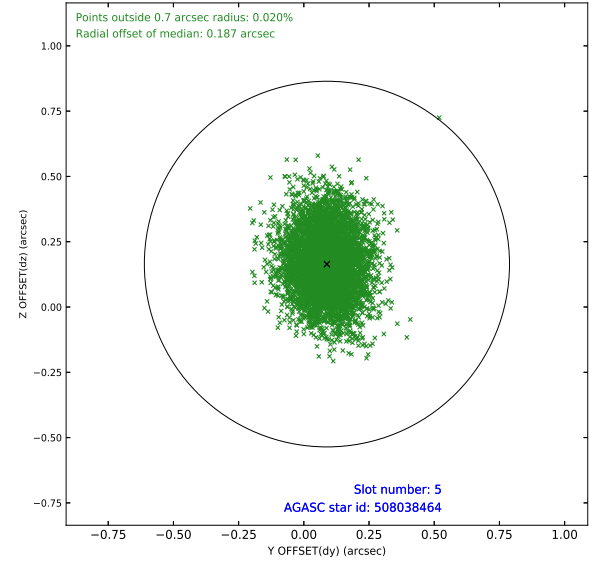
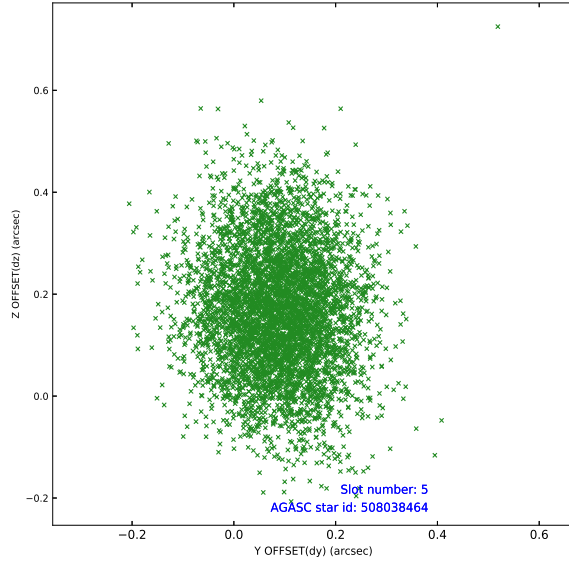
2.4.1 Slot 3



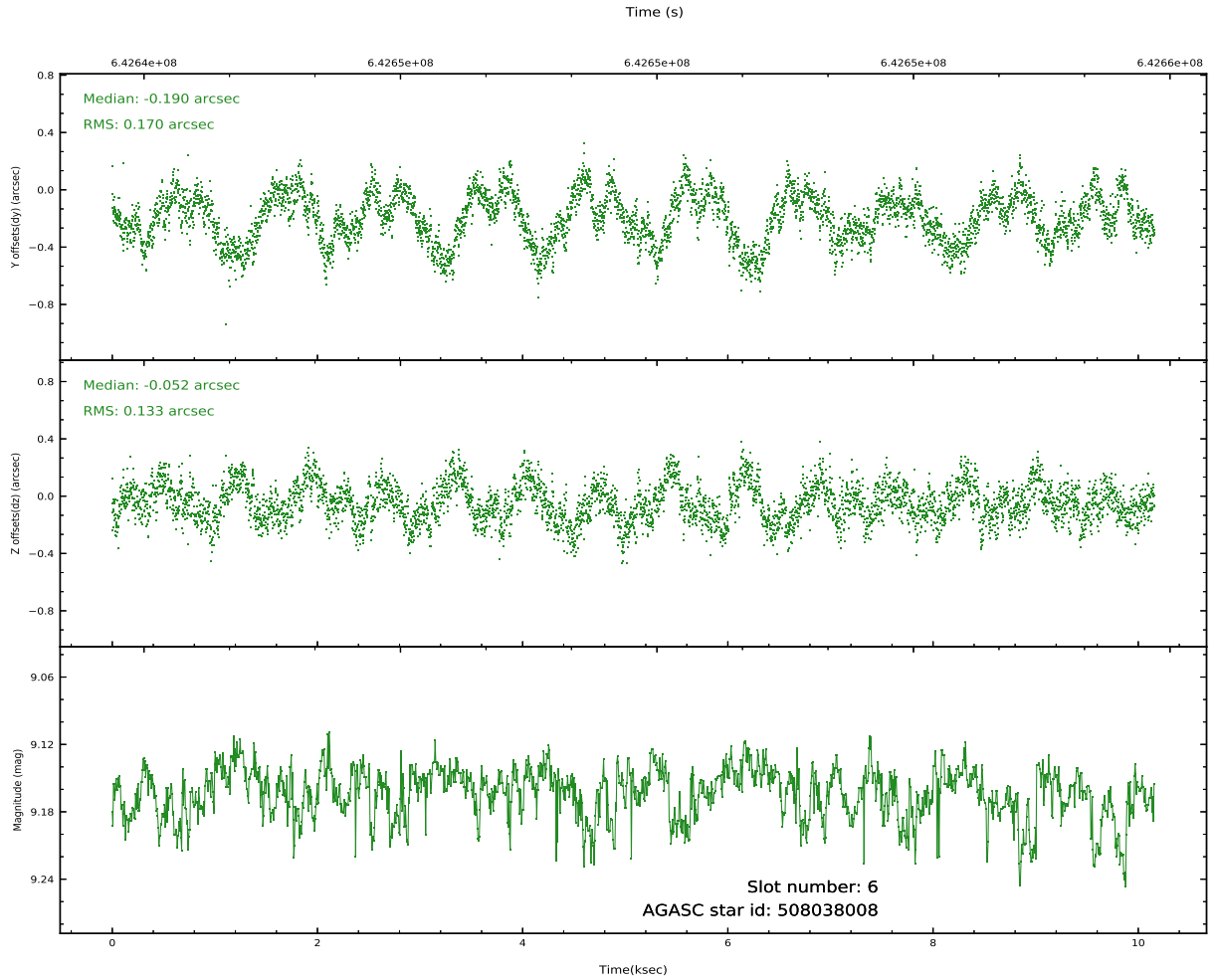
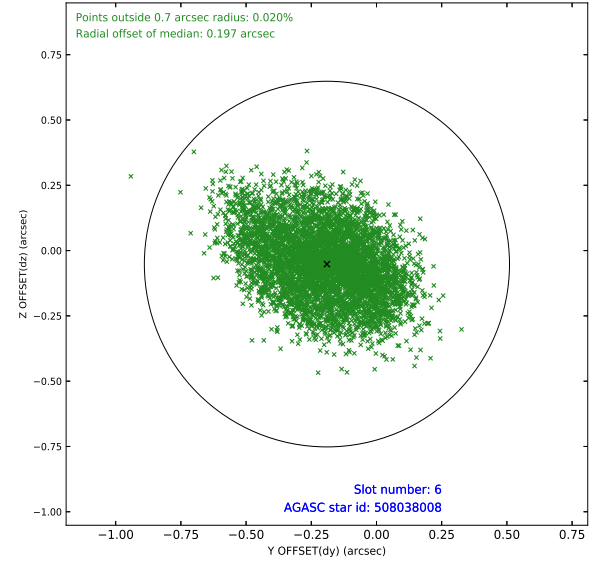
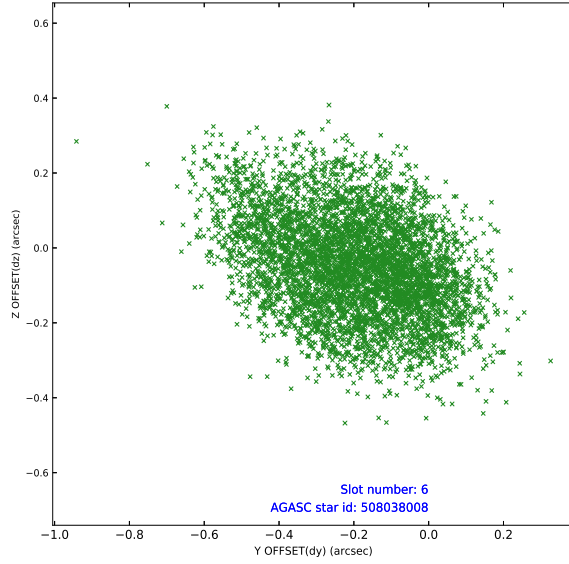
2.4.2 Slot 4



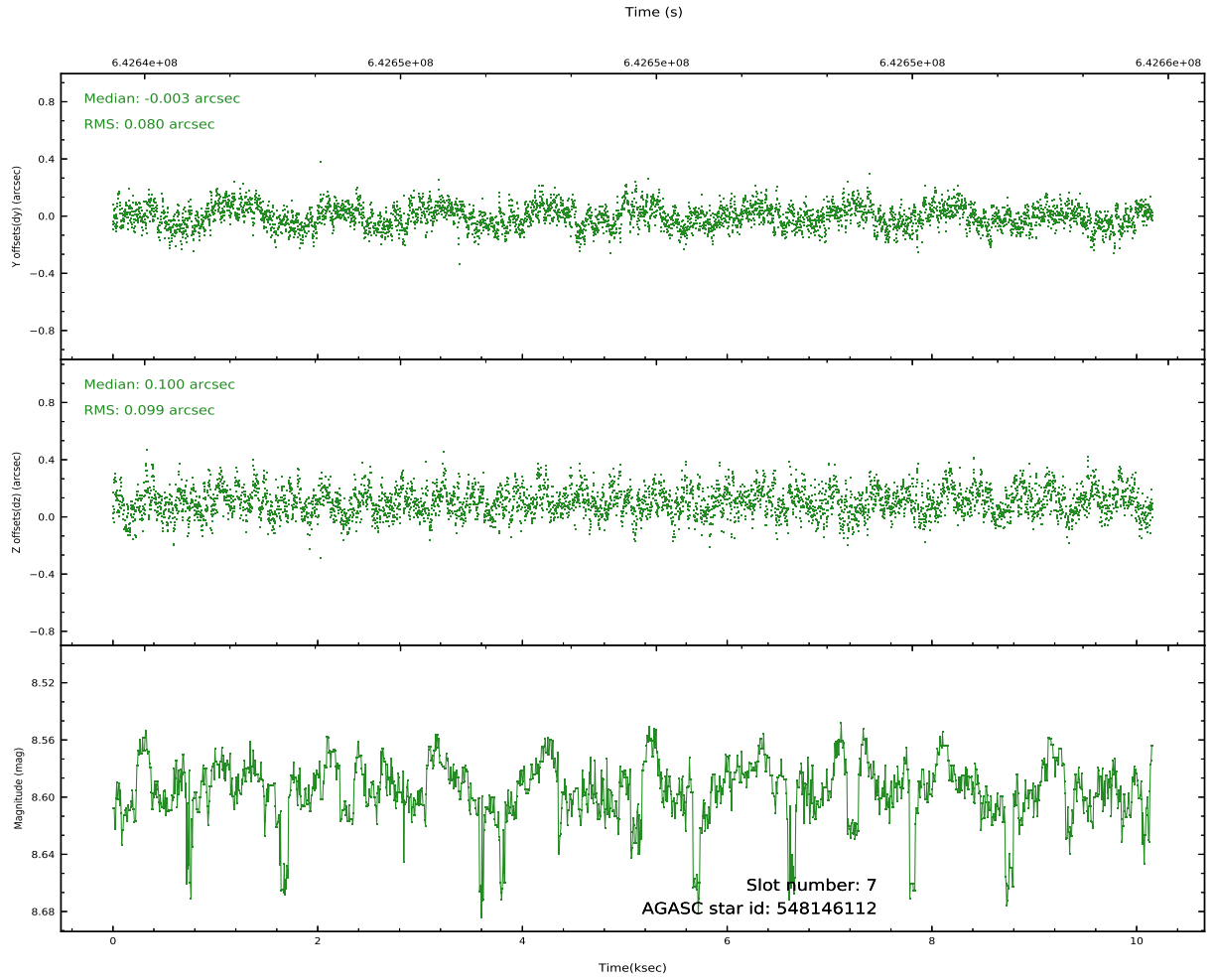
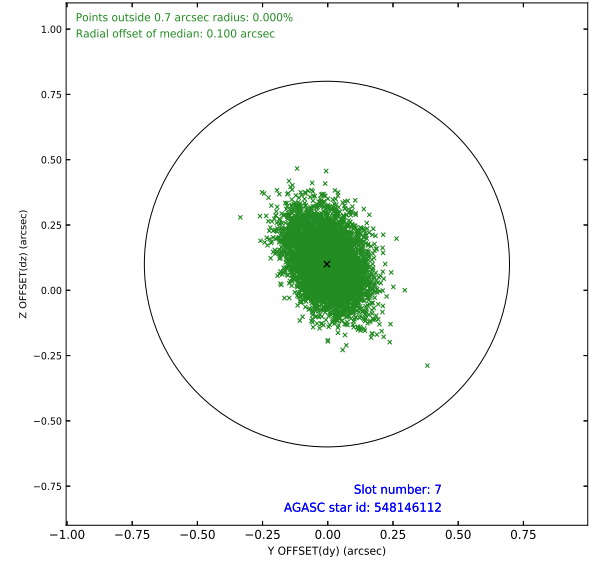
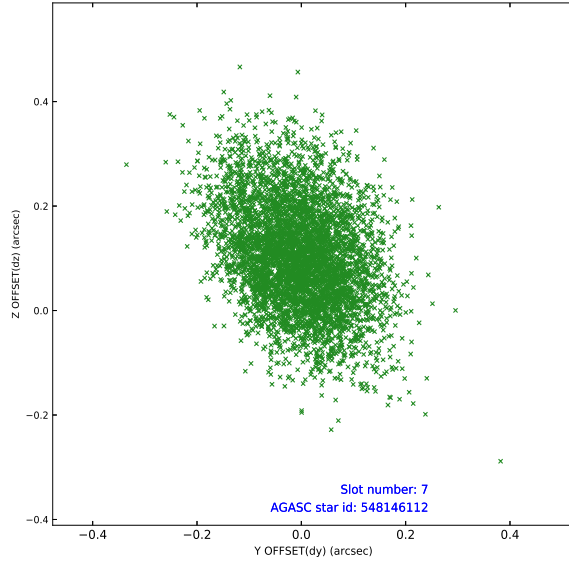
2.4.3 Slot 5



2.4.4 Slot 6

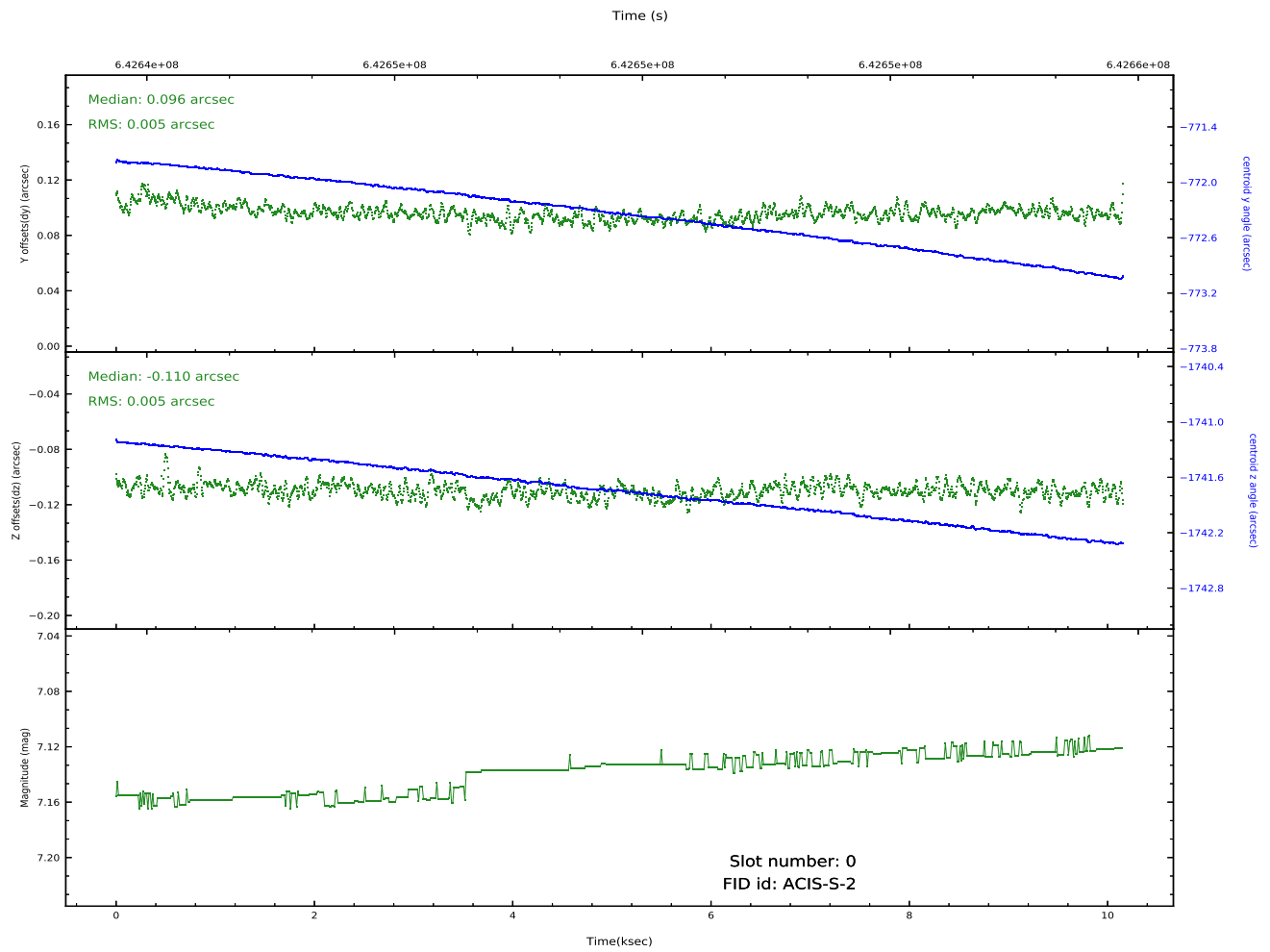
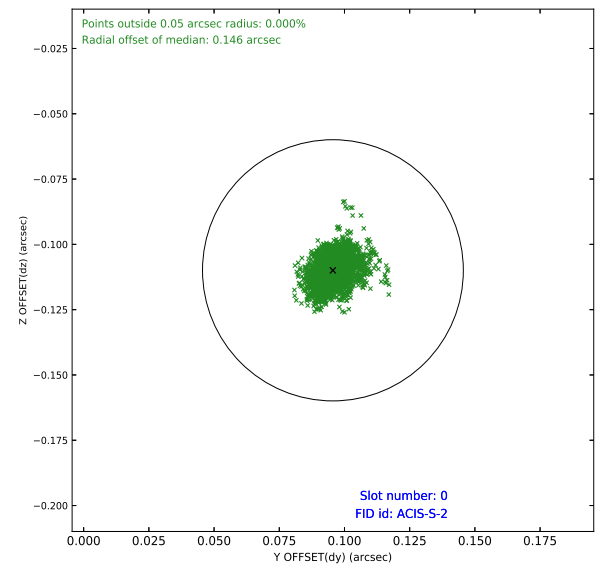
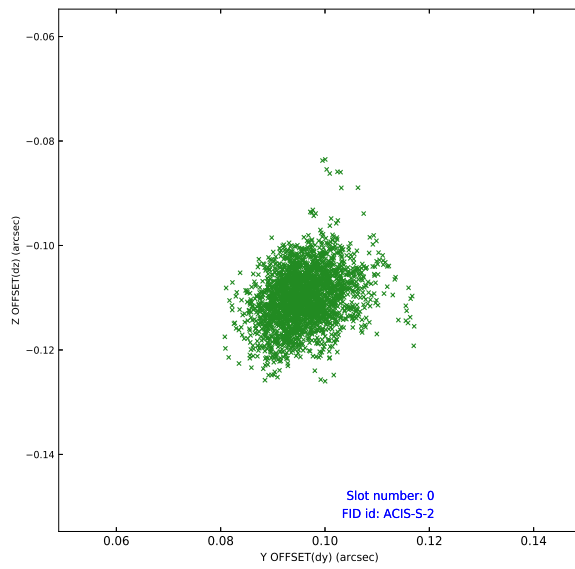


2.4.5 Slot 7

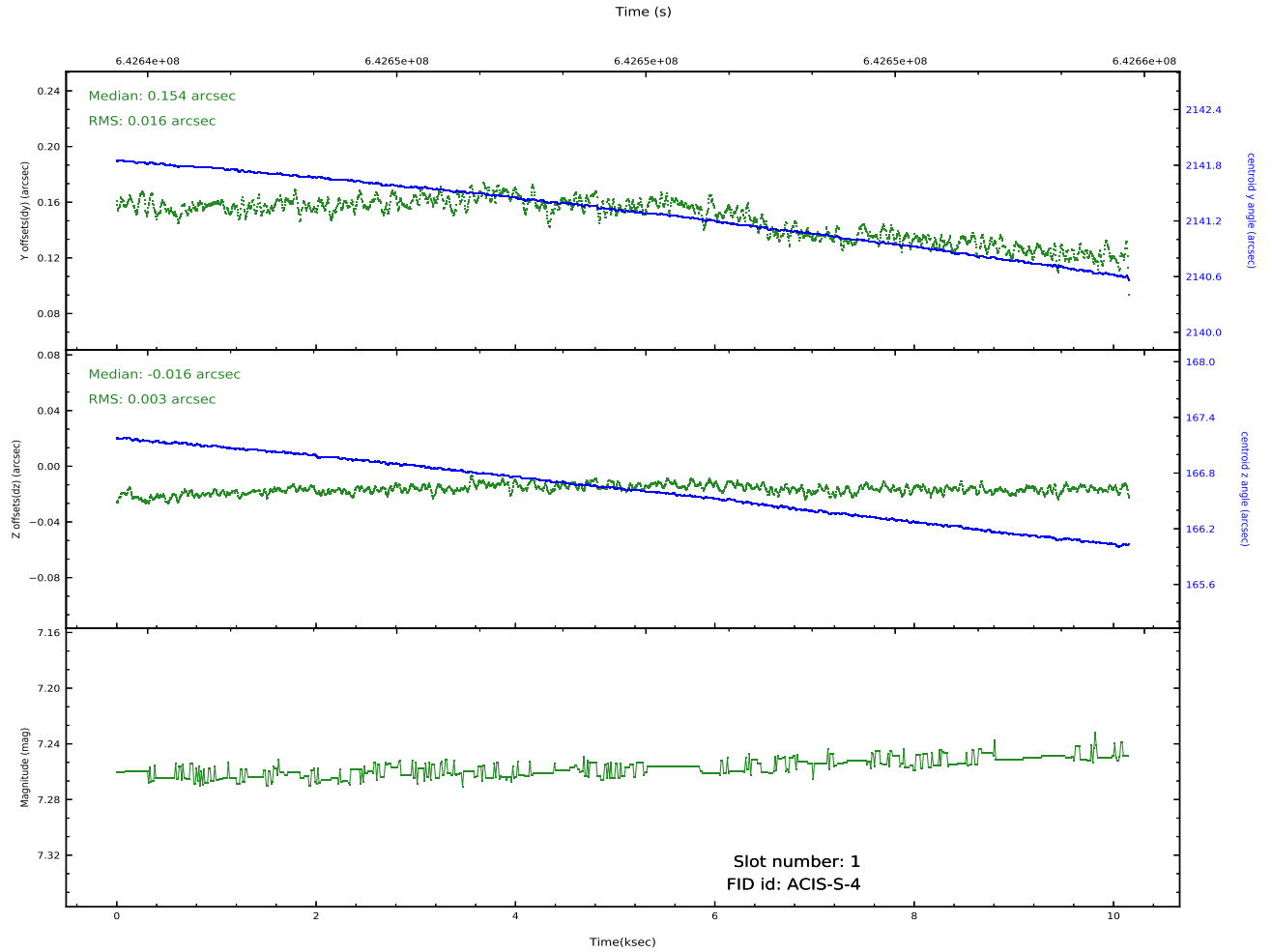
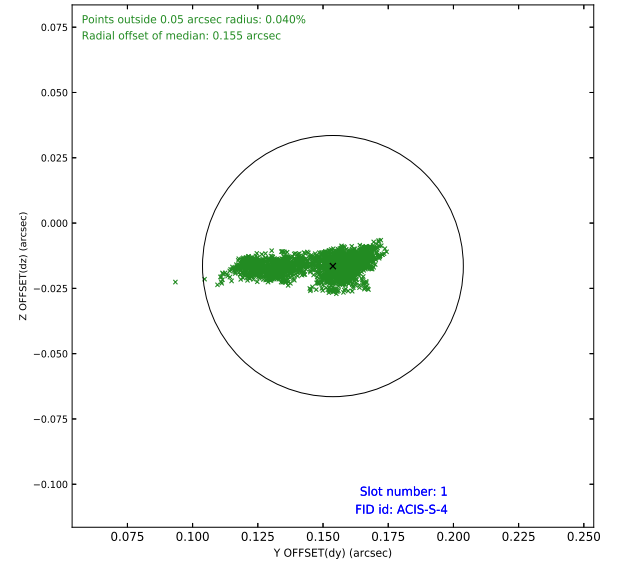
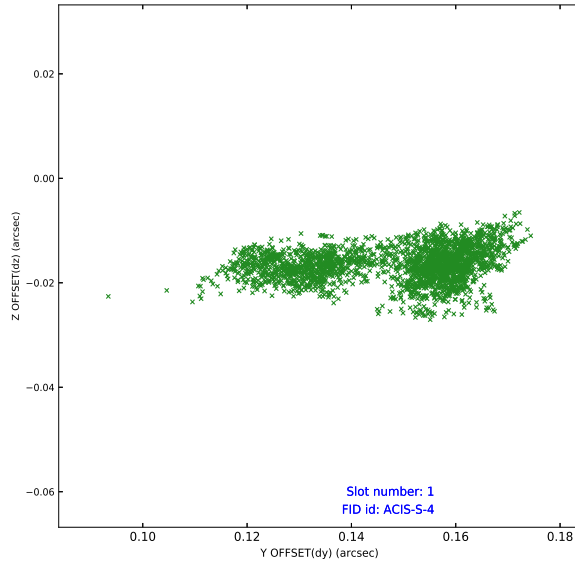


2.5 FID Slots

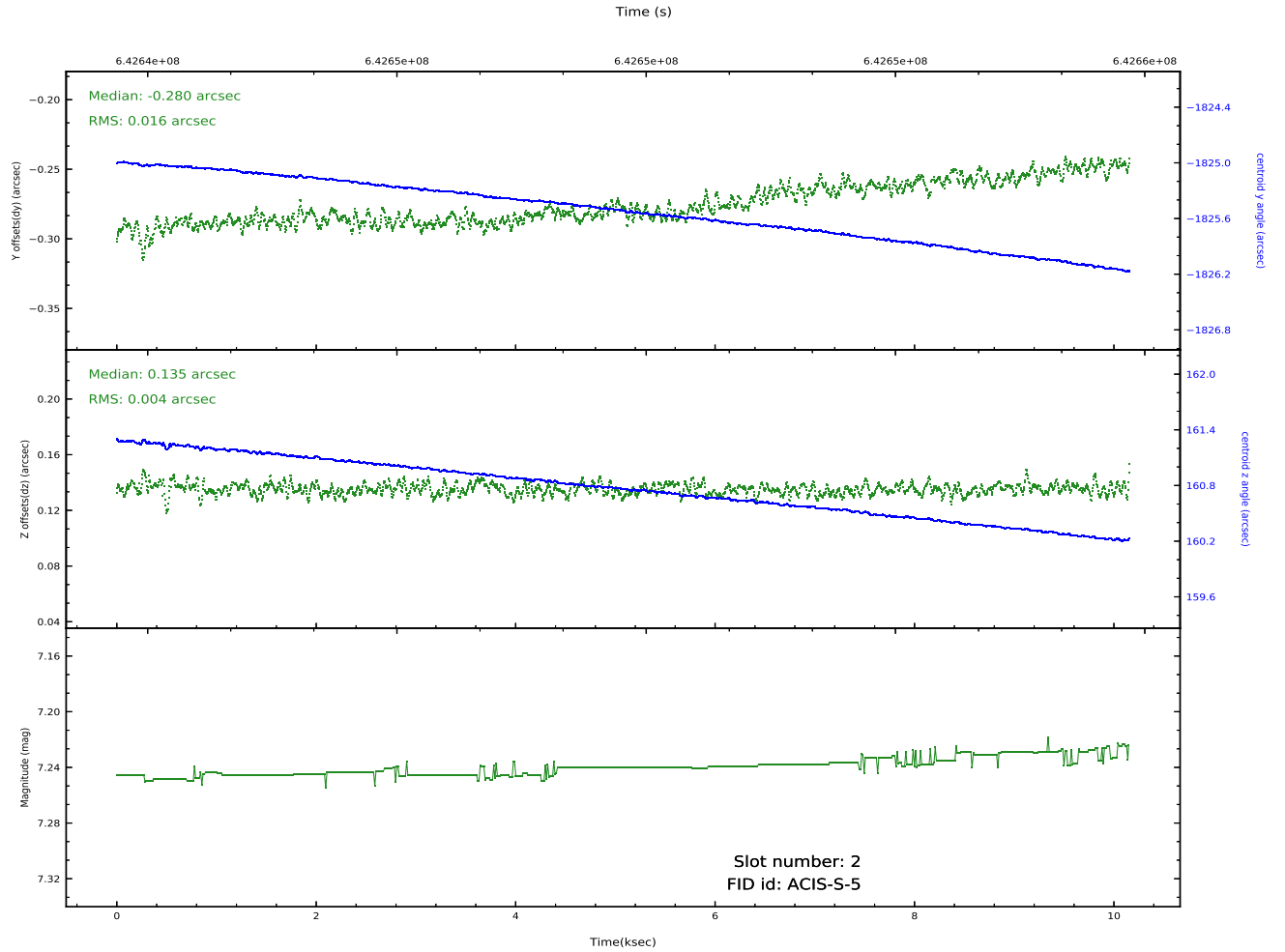
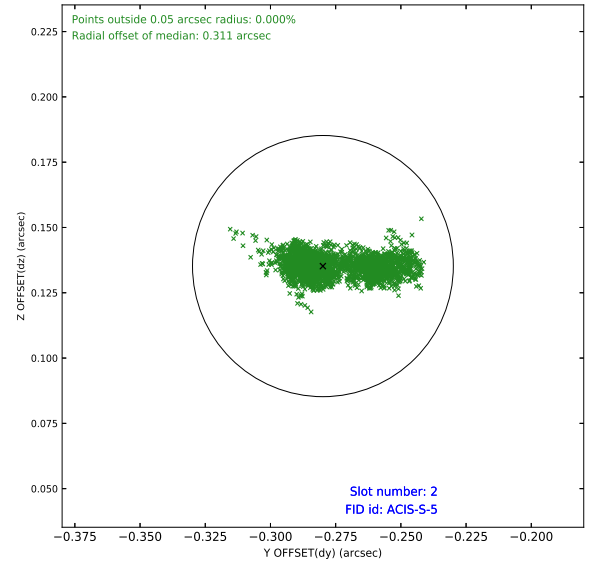
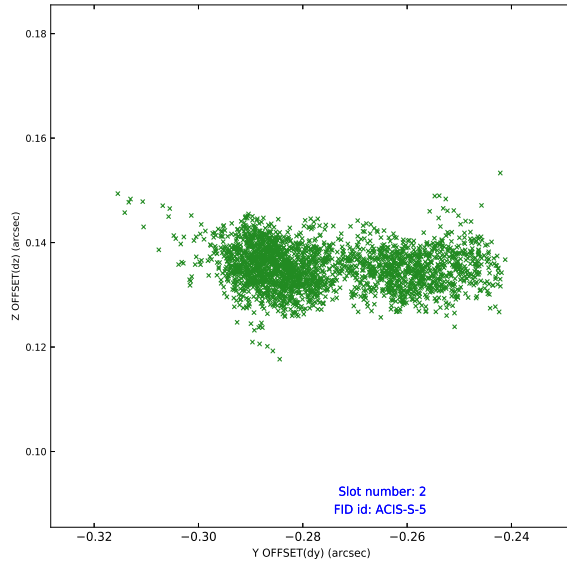
2.5.1 Slot 0



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)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.064285258651

A.2 Comments