

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19383 - L2 Version 2
Chandra X-Ray Center

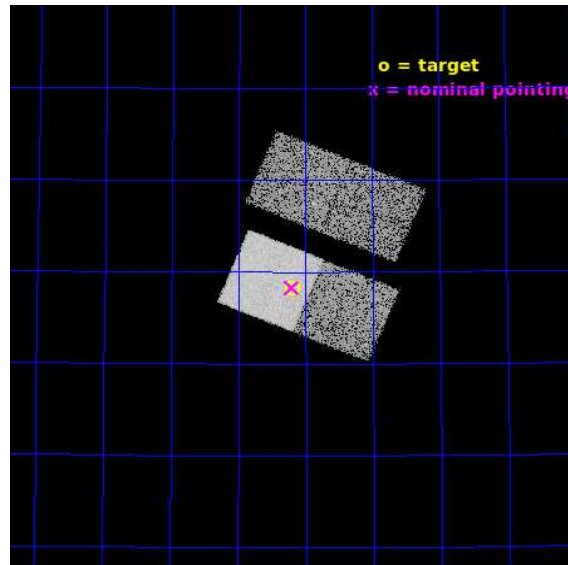
L2 Processing Date : Oct 25 2020

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1 Front

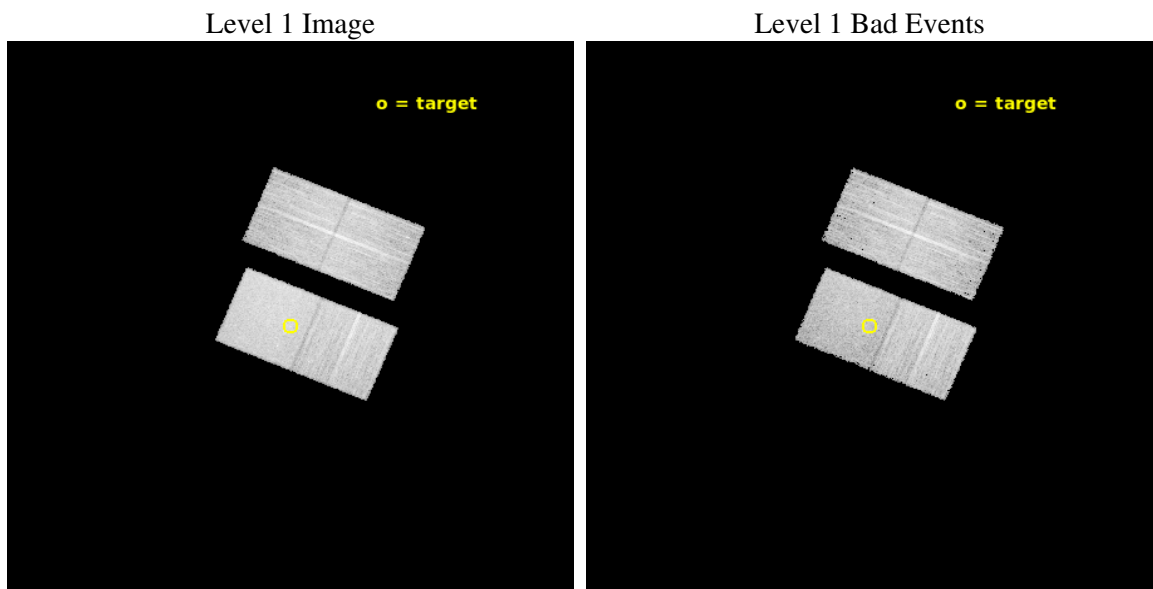
seq_num	601340	Sequence number
obs_id	19383	Observation id
title	A Statistically Complete High Resolution Chandra and Radio (eMERLIN) Survey of the Palomar Nearby Galaxies Sample	Proposal title
observer	Ian McHardy	Principal investigator
object	NGC 4041	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	180.550833	Observer's specified target RA [deg]
dec_targ	62.137278	Observer's specified target Dec [deg]
ra_nom	180.55118907025	Nominal RA [deg]
dec_nom	62.138350542921	Nominal Dec [deg]
roll_nom	202.57526794835	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10068.323808551	Sum of GTIs [s]
livetime	9936.7737458	Livetime [s]
ontime2	10065.059628367	Sum of GTIs [s]
ontime3	10068.241728544	Sum of GTIs [s]
ontime6	10062.000627756	Sum of GTIs [s]
ontime7	10068.323808551	Sum of GTIs [s]
l2events	60777	Number of level 2 events



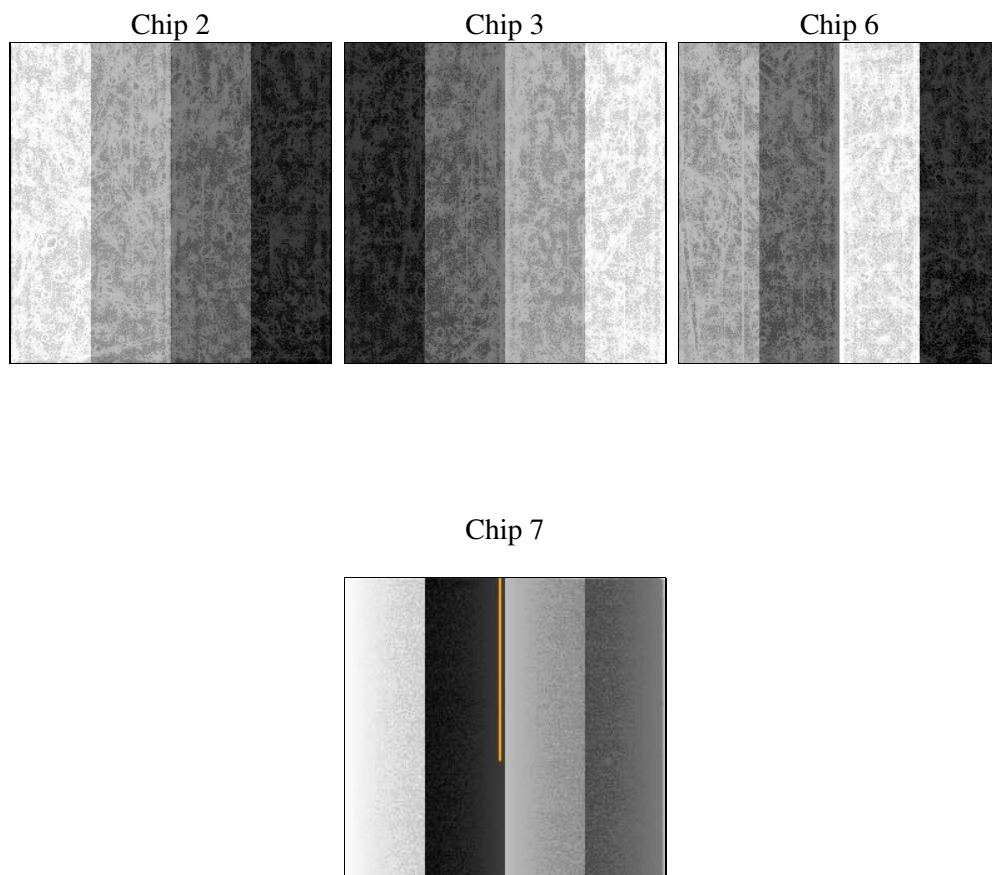
2 OBI

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	10068.323808551	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	10065.059628367	Sum of GTIs [s]
date	2020-10-25T12:26:19	Date and time of file creation	ontime3	10068.241728544	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	10062.000627756	Sum of GTIs [s]
			ontime7	10068.323808551	Sum of GTIs [s]
			l1events	331401	Number of level 1 events

2.1.4 Events

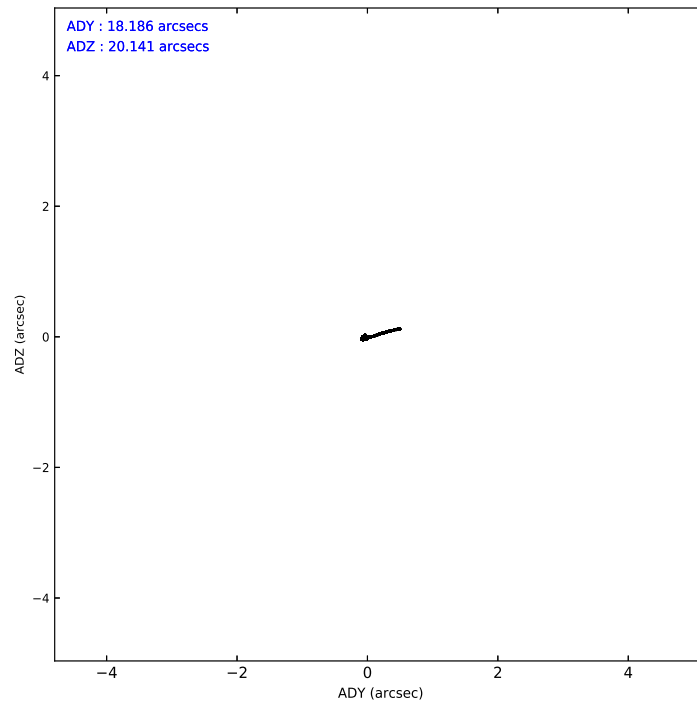
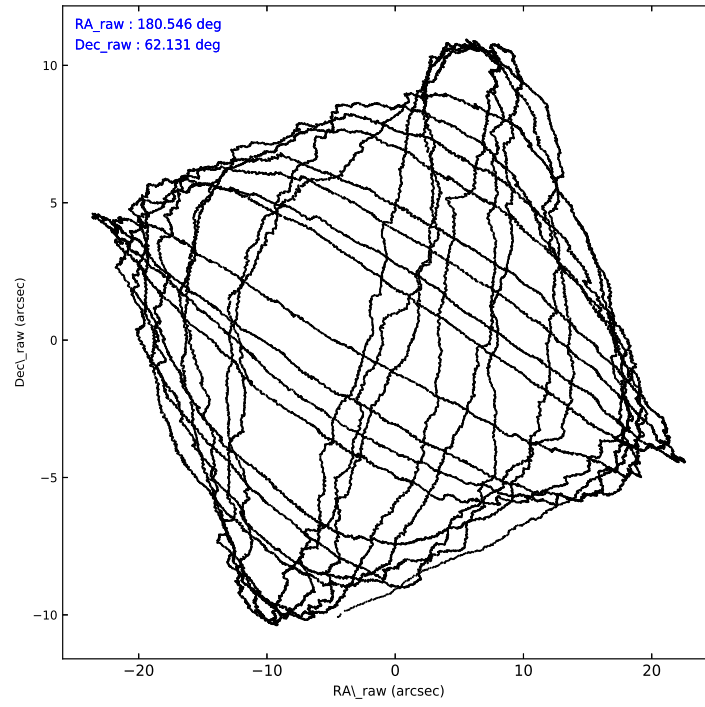
	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	78673	74516	82006	96206
rejected events	70903	67014	73317	54671
rejected %	90%	89%	89%	56%

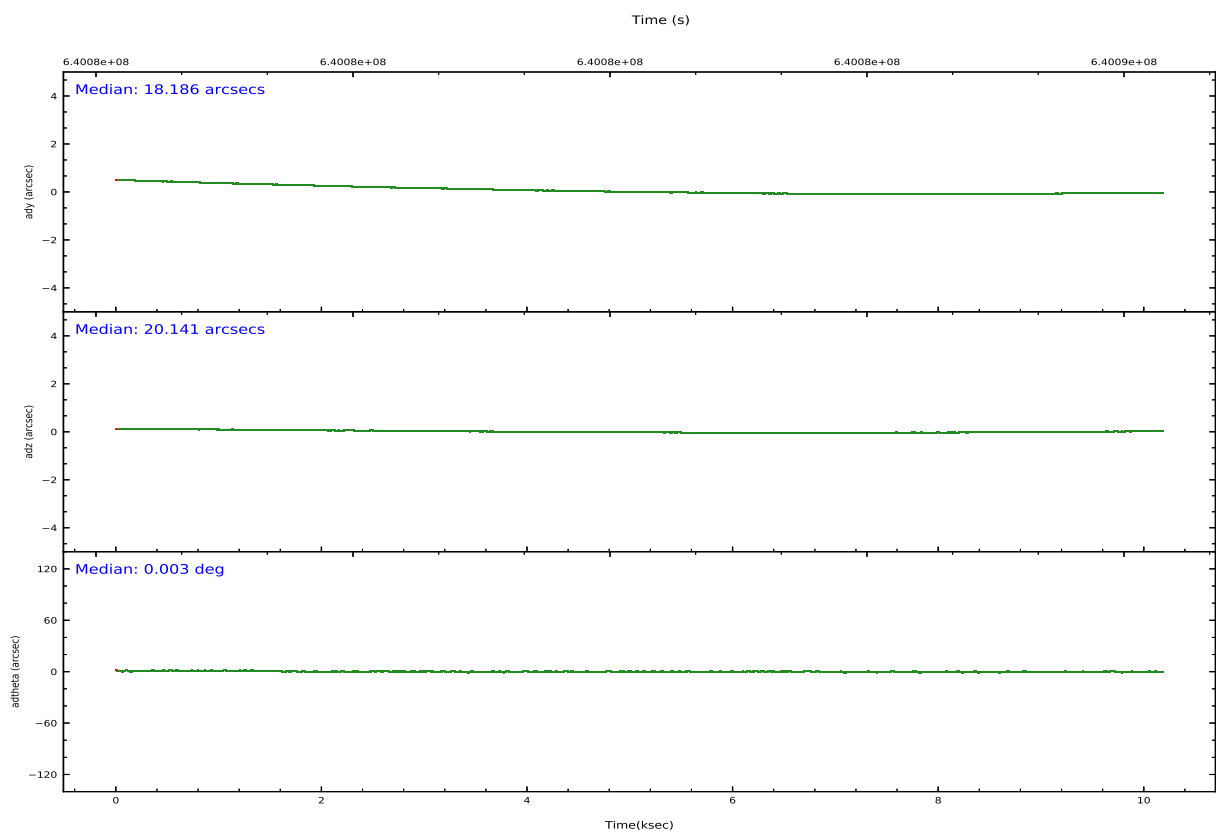
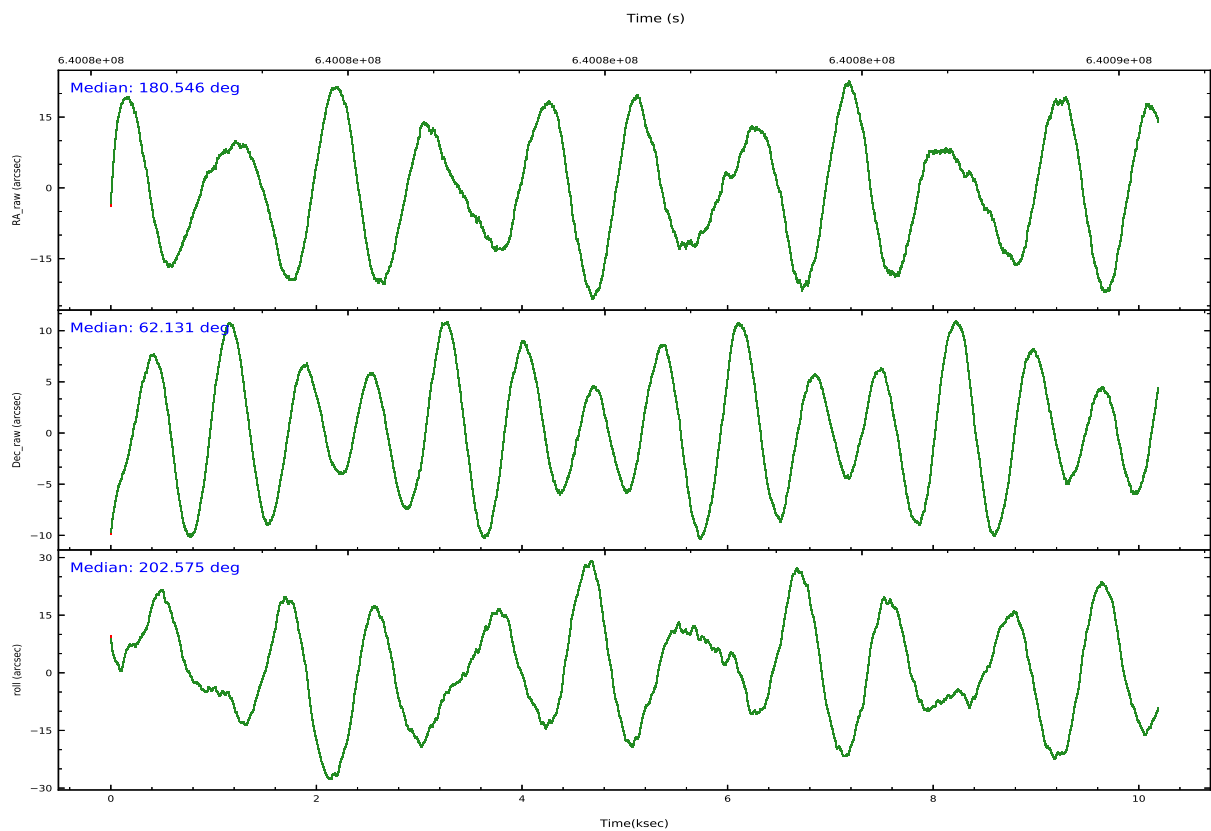
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2808	2659	2643	3524
	3%	3%	3%	3%
grade 1 events	43	47	30	151
	0%	0%	0%	0%
grade 2 events	1827	1629	2201	8660
	2%	2%	2%	9%
grade 3 events	812	801	827	3240
	1%	1%	1%	3%
grade 4 events	808	817	806	3176
	1%	1%	0%	3%
grade 5 events	2740	3236	3283	9450
	3%	4%	4%	9%
grade 6 events	1521	1602	2220	22972
	1%	2%	2%	23%
grade 7 events	68114	63725	69996	45033
	86%	85%	85%	46%

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	180.580573	180.55118907025	Subarray requested	NONE	NONE
[deg] Pointing Dec	62.153063	62.138350542921	Alternating exposures requested	N	N
[deg] Pointing Roll	202.395070	202.57526794835	[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)	640077881.184000	640076957.74043			
Observation start date	2018-04-14T07:23:32	2018-04-14T07:09:17			
[s] Observation end time (MET)	640087881.184000	640088533.06611			
Observation end date	2018-04-14T10:10:12	2018-04-14T10:22:13			
Read mode	TIMED	TIMED			

2.3 Aspect



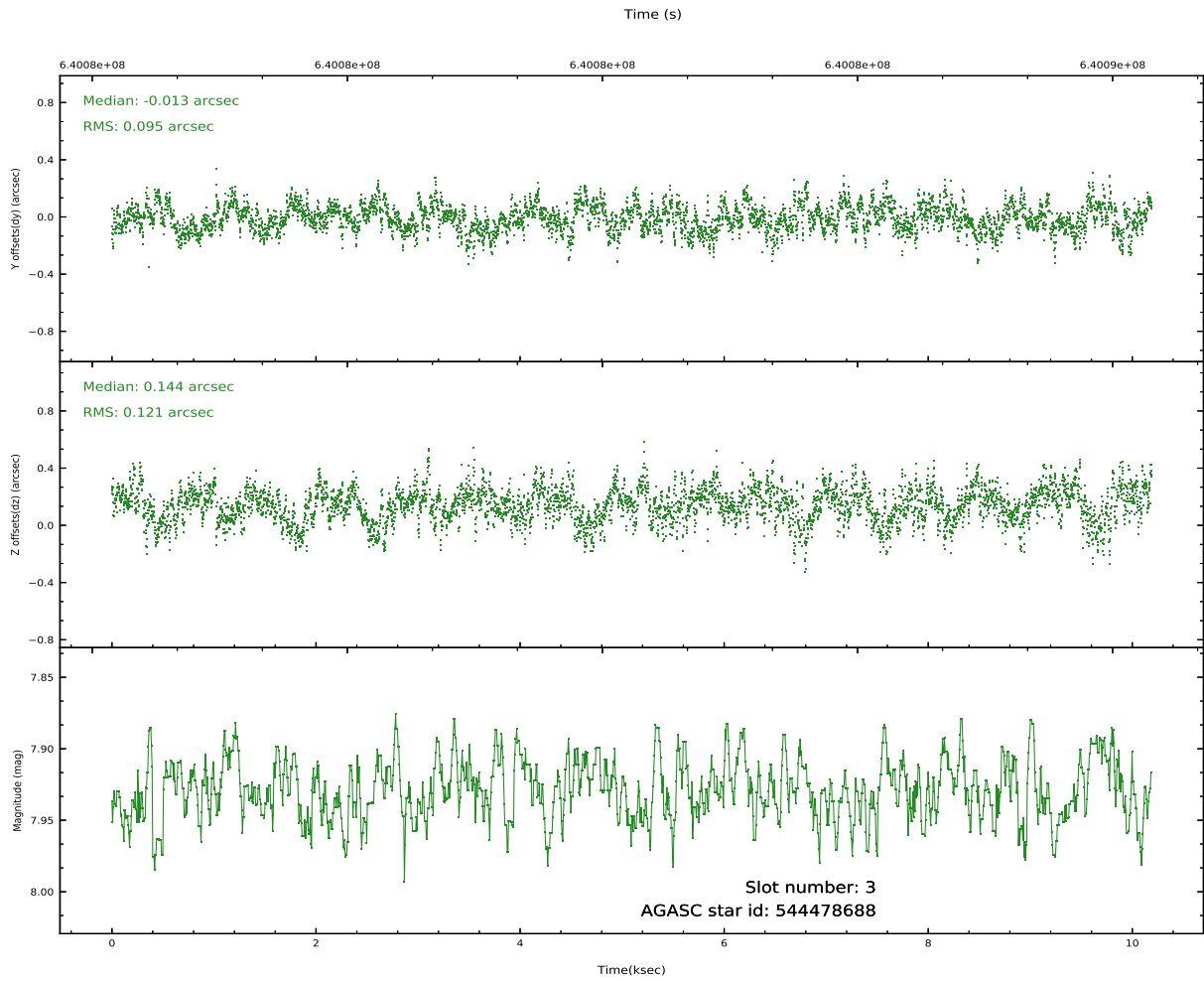
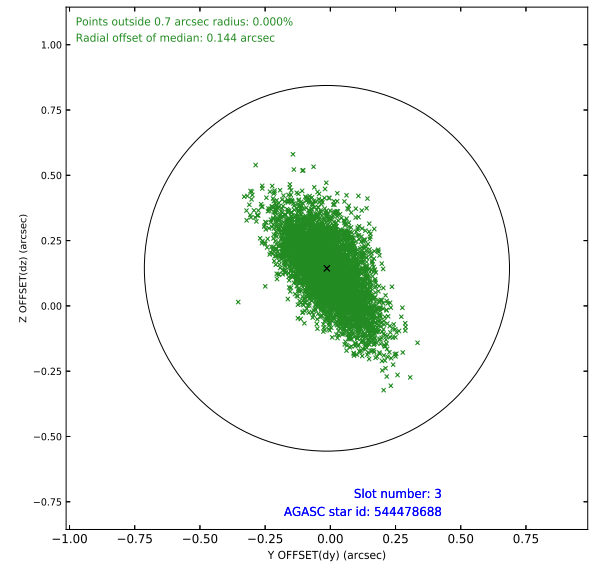
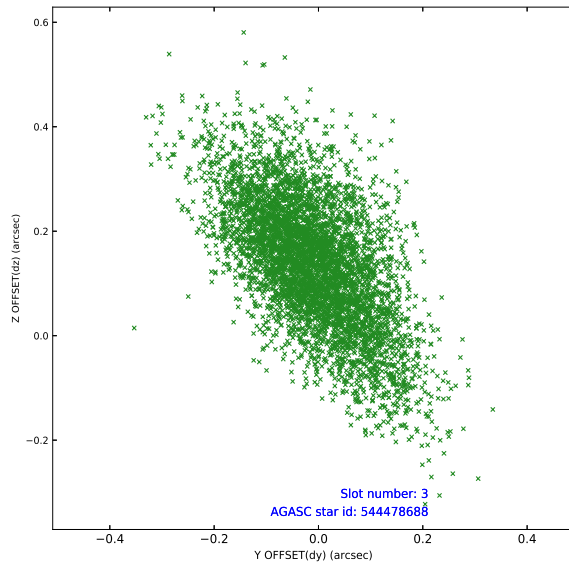


Slot Statistics

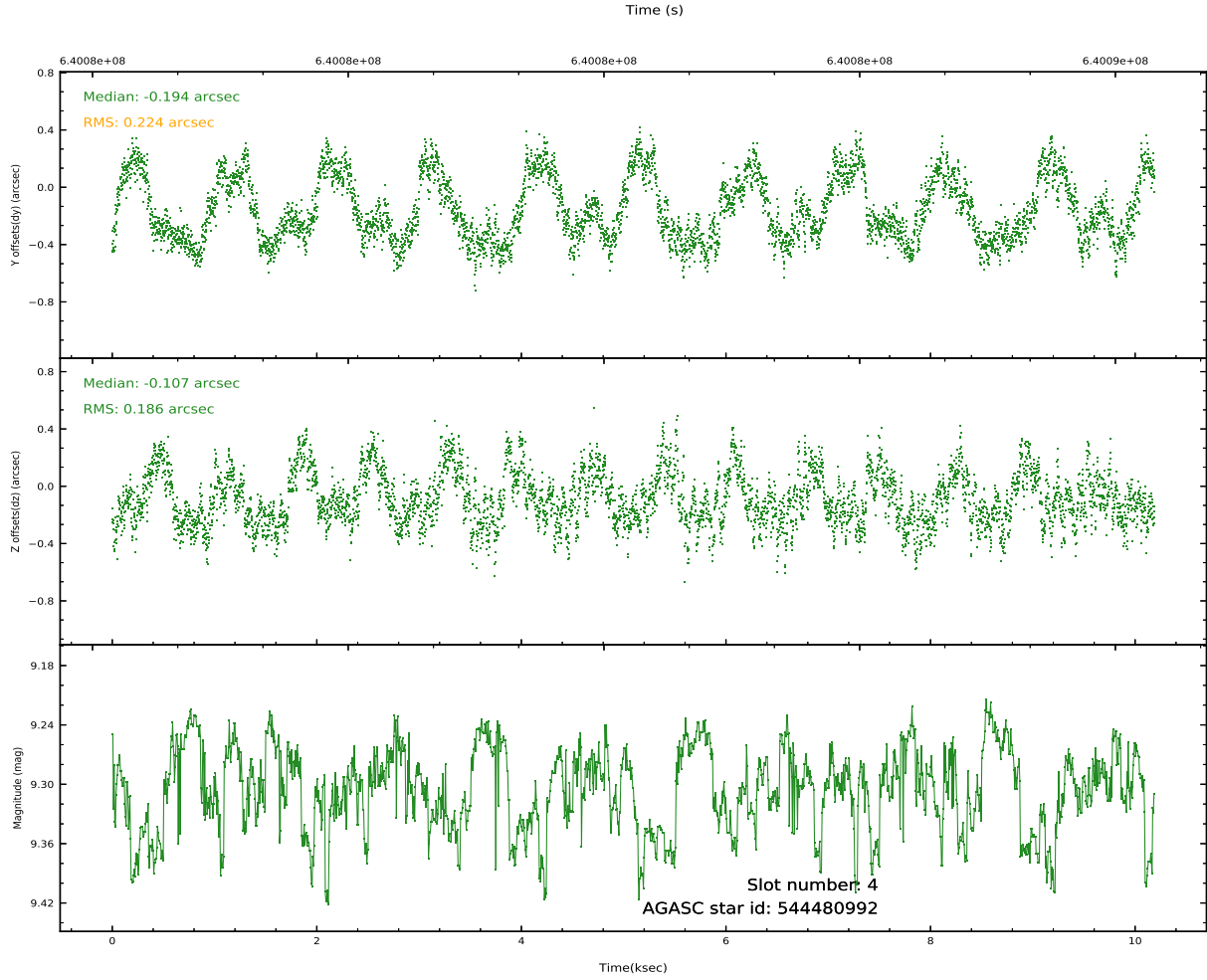
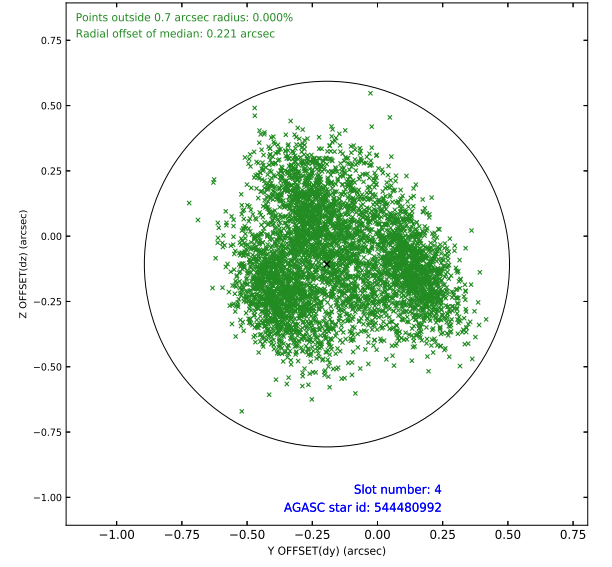
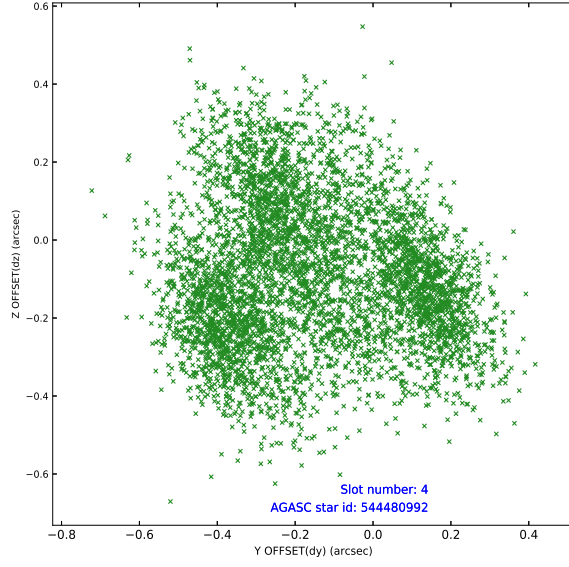
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.12	2486	1.000	0.108	-0.095	0.009	0.014	0.000000	0.000000	-771.42	-1741
1	FID		ACIS-S-4	7.22	2485	1.000	0.158	-0.026	0.007	0.013	0.000000	0.000000	2141.89	166
2	FID		ACIS-S-5	7.21	2485	1.000	-0.297	0.130	0.008	0.013	0.000000	0.000000	-1823.79	160
3	GUIDE	used	544478688	7.93	4969	1.000	-0.013	0.144	0.156	0.287	179.813162	61.334378	2346.39	2213
4	GUIDE	used	544480992	9.30	4965	1.000	-0.194	-0.107	0.322	0.456	179.851935	61.633984	1861.88	1246
5	GUIDE	used	544482352	9.52	4961	1.000	0.165	-0.189	0.232	0.385	179.405811	62.446262	1400.77	-1739
6	GUIDE	used	544872224	9.18	4955	1.000	0.109	0.017	0.193	0.309	180.794182	62.501254	-805.09	-1024
7	GUIDE	used	544874592	9.25	4964	1.000	-0.110	0.122	0.211	0.346	181.163672	62.972932	-2006.51	-2370

2.4 Star Slots

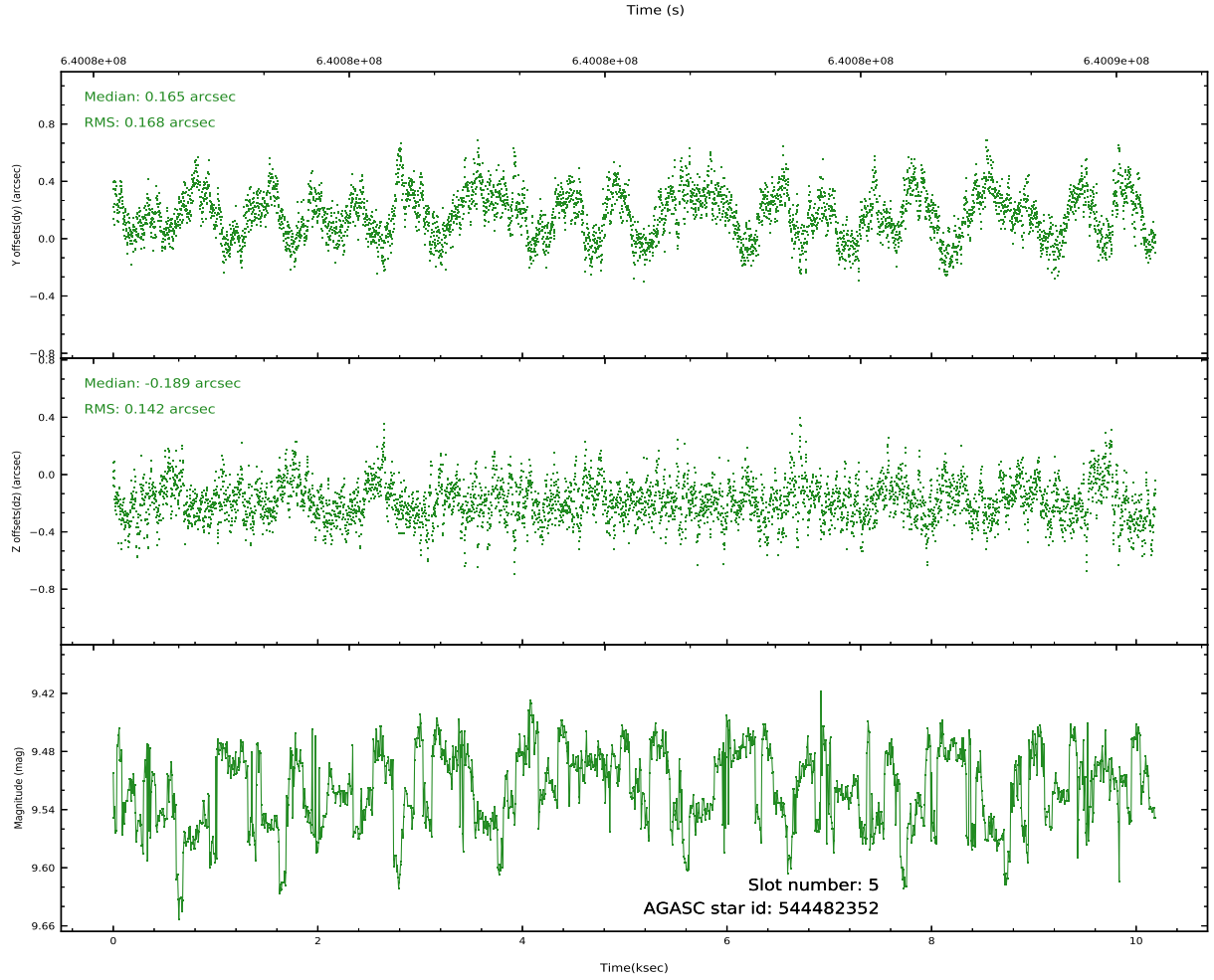
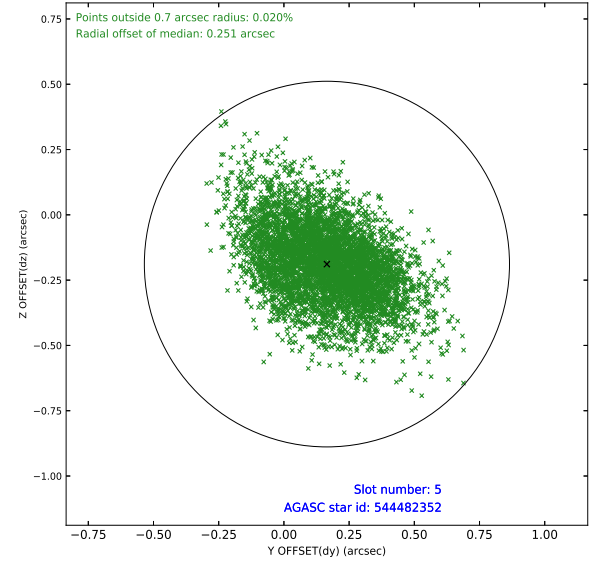
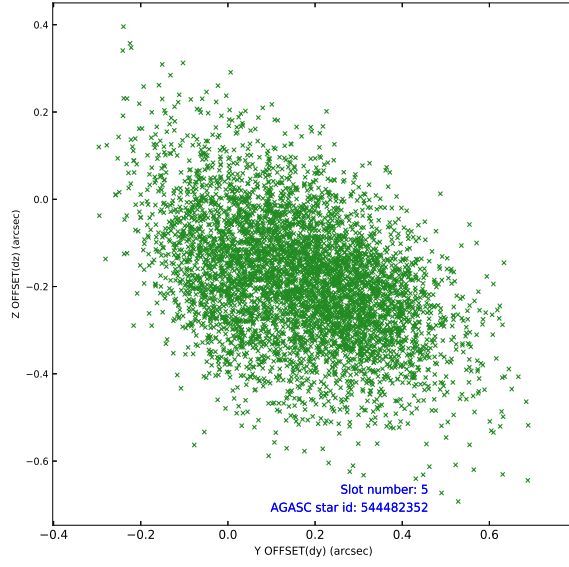
2.4.1 Slot 3



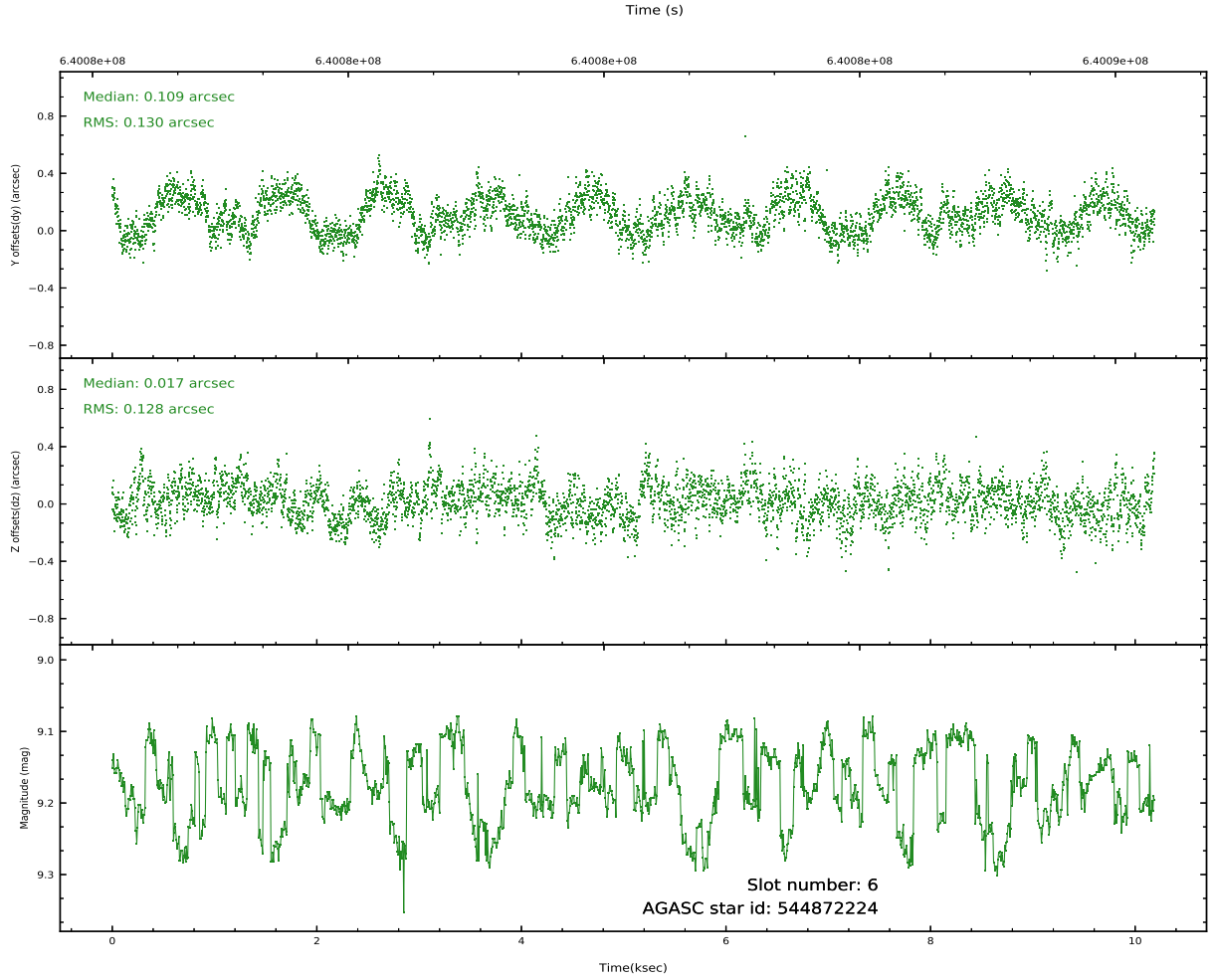
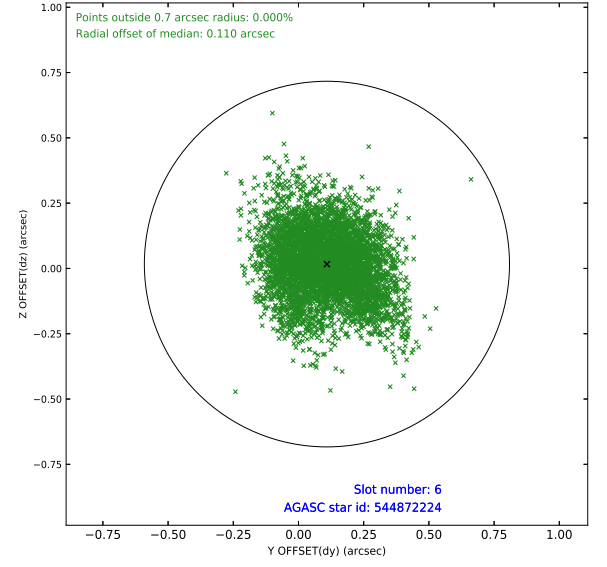
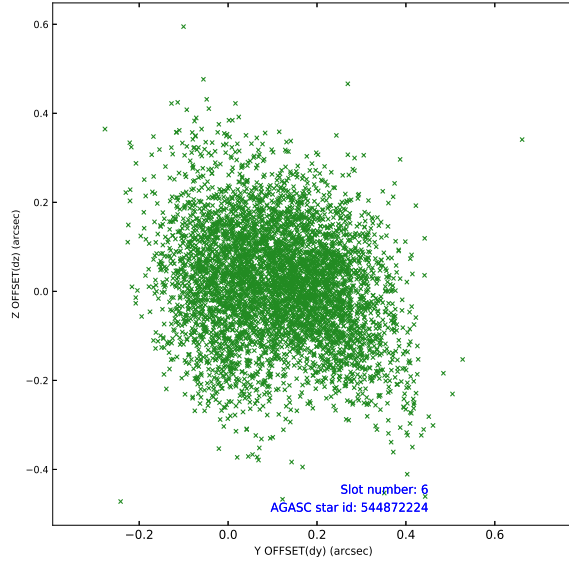
2.4.2 Slot 4



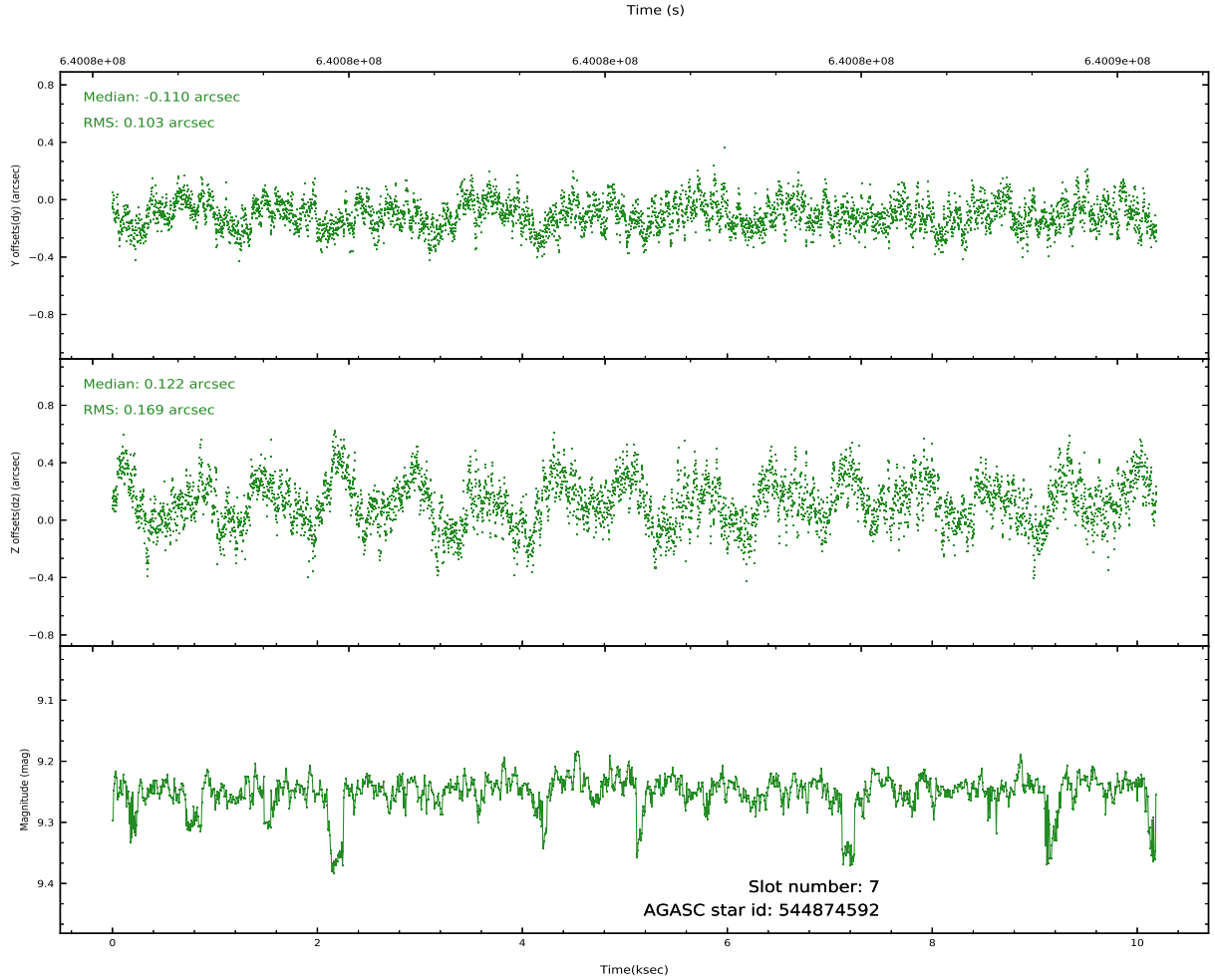
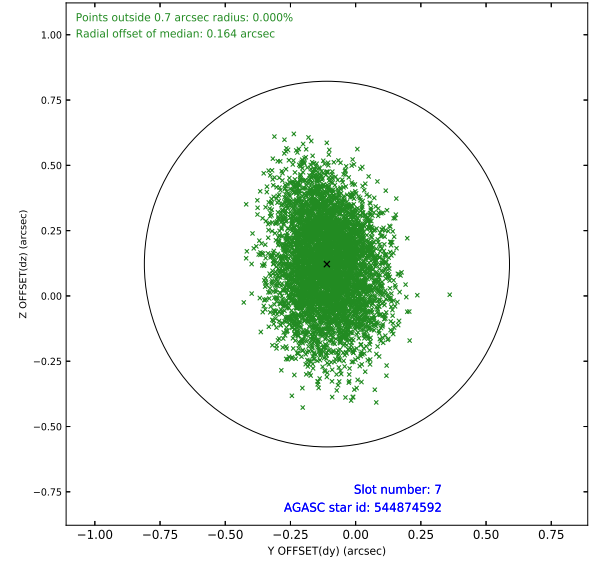
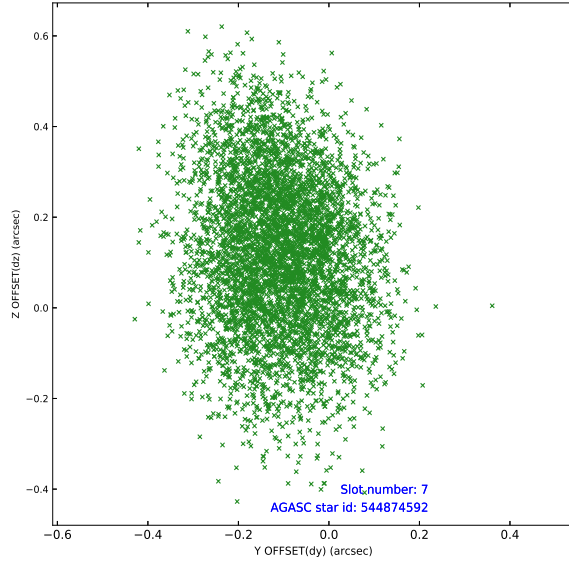
2.4.3 Slot 5



2.4.4 Slot 6

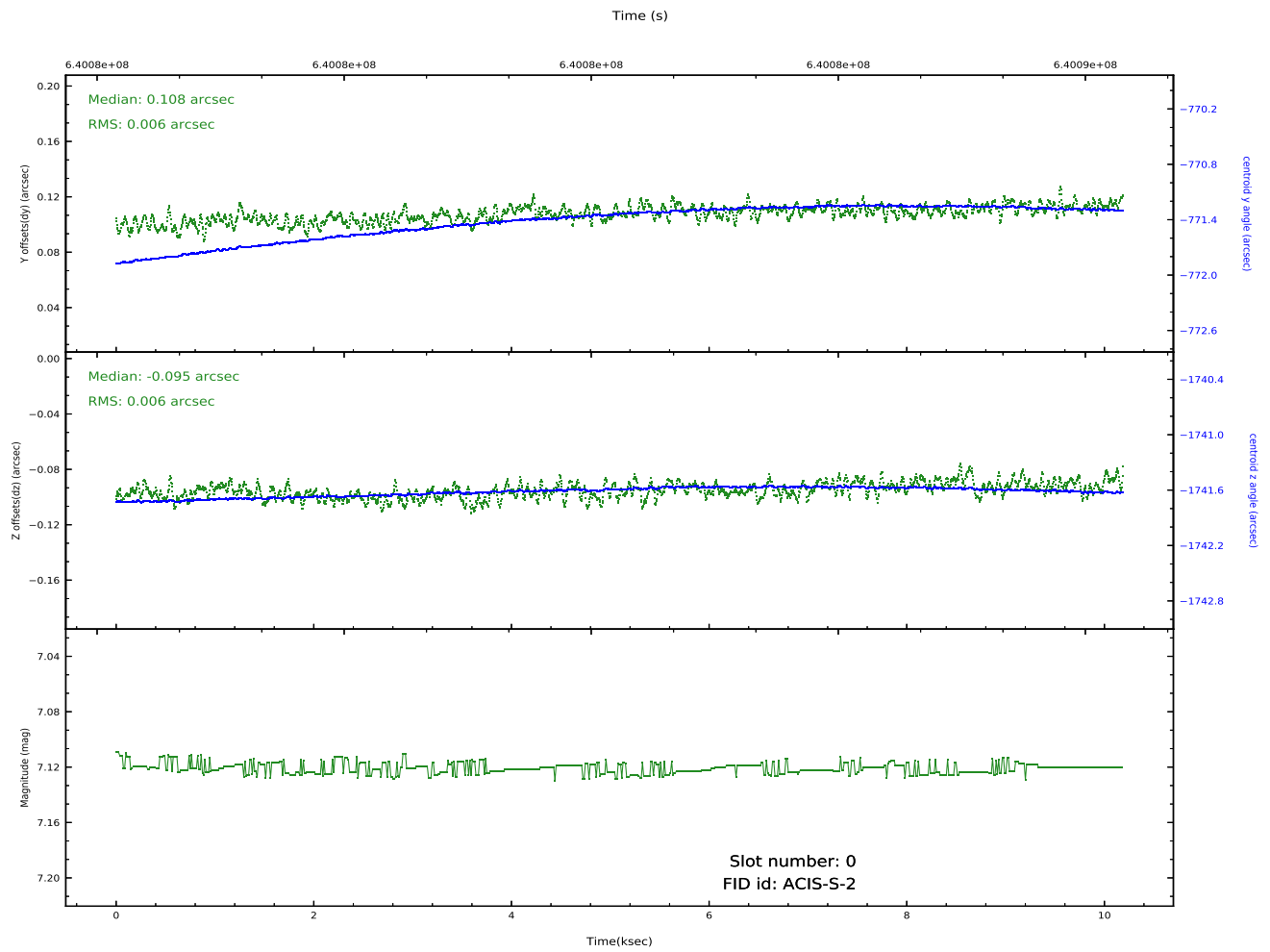
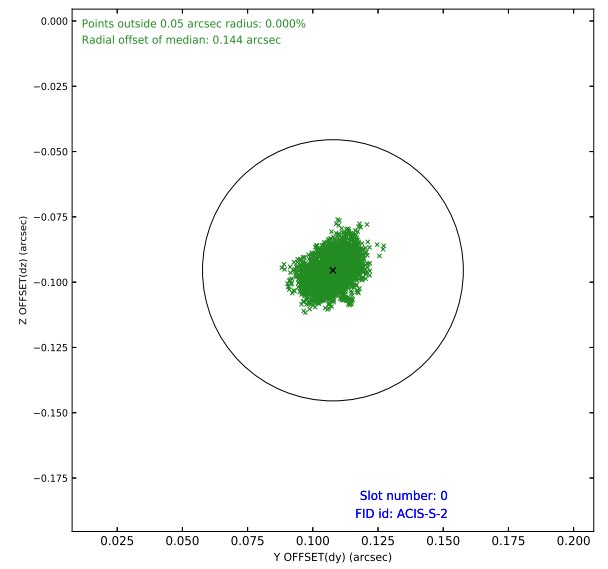
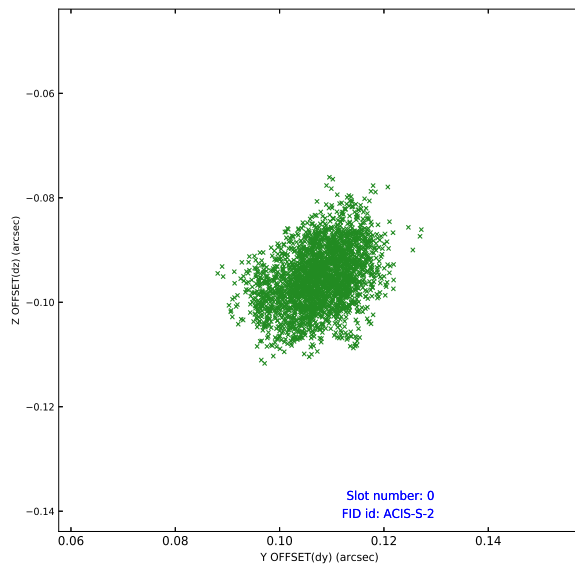


2.4.5 Slot 7

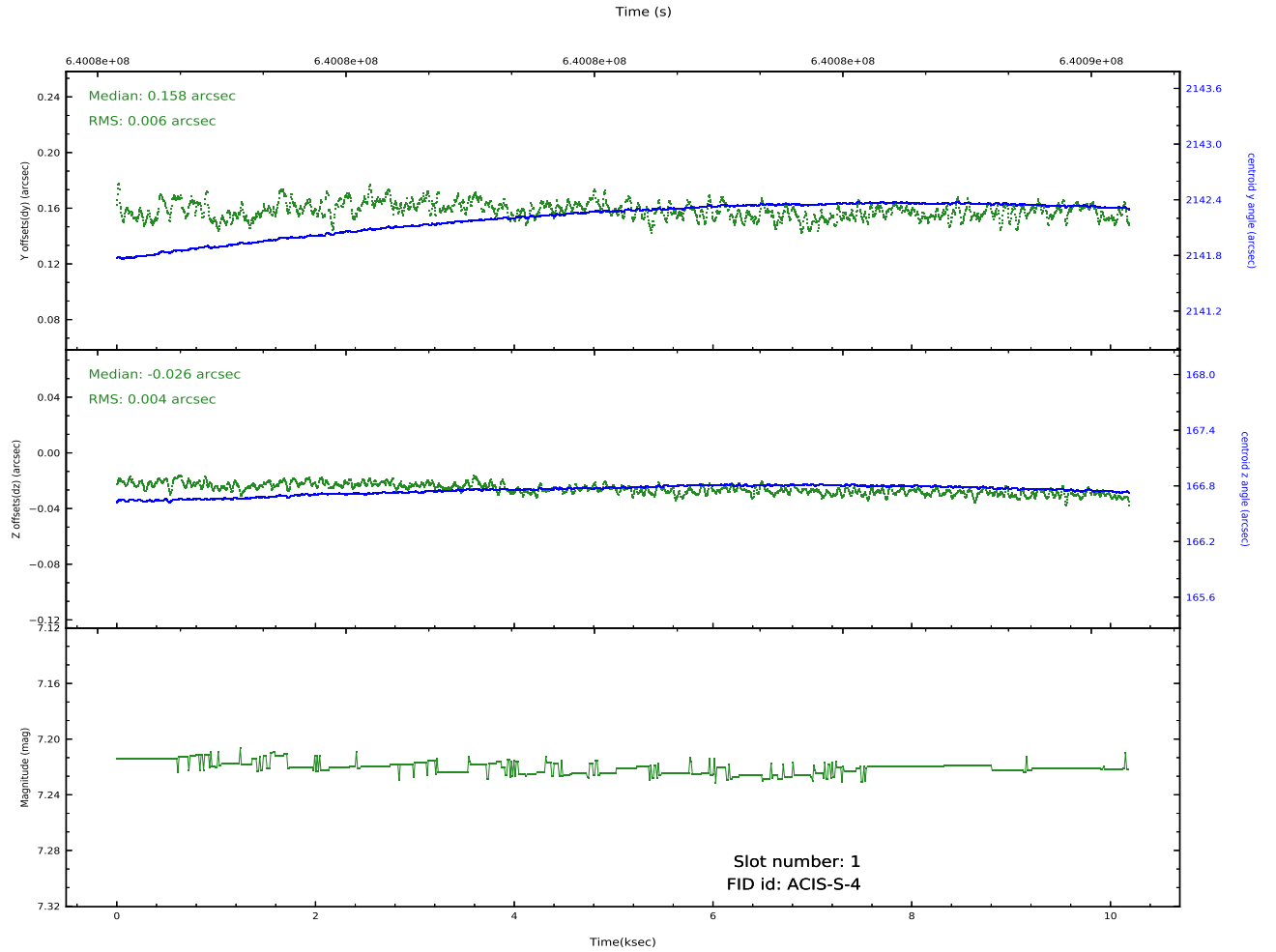
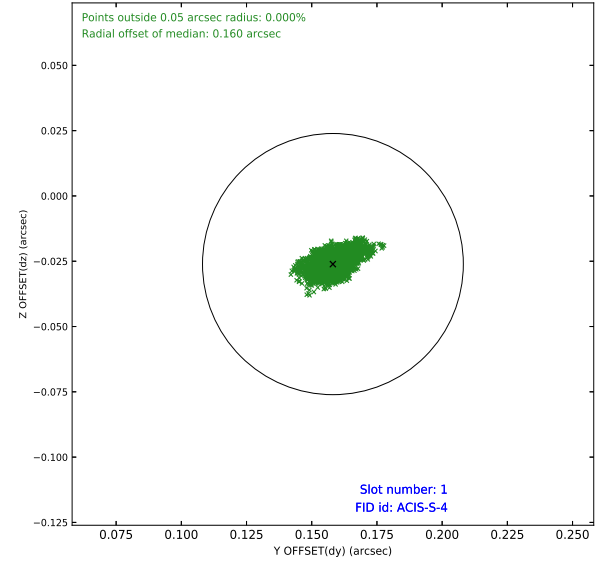
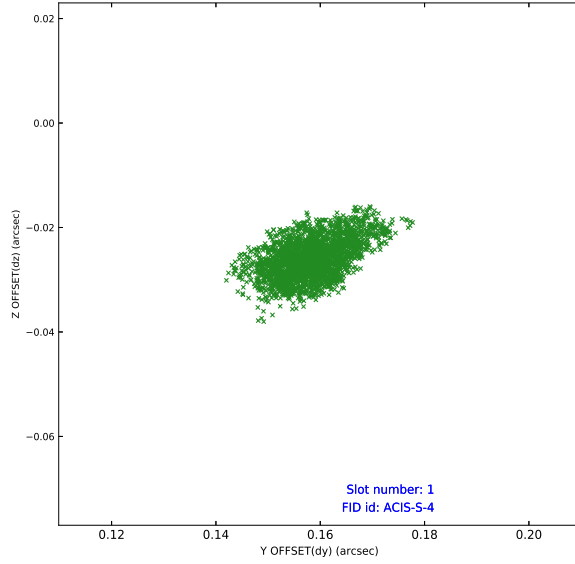


2.5 FID Slots

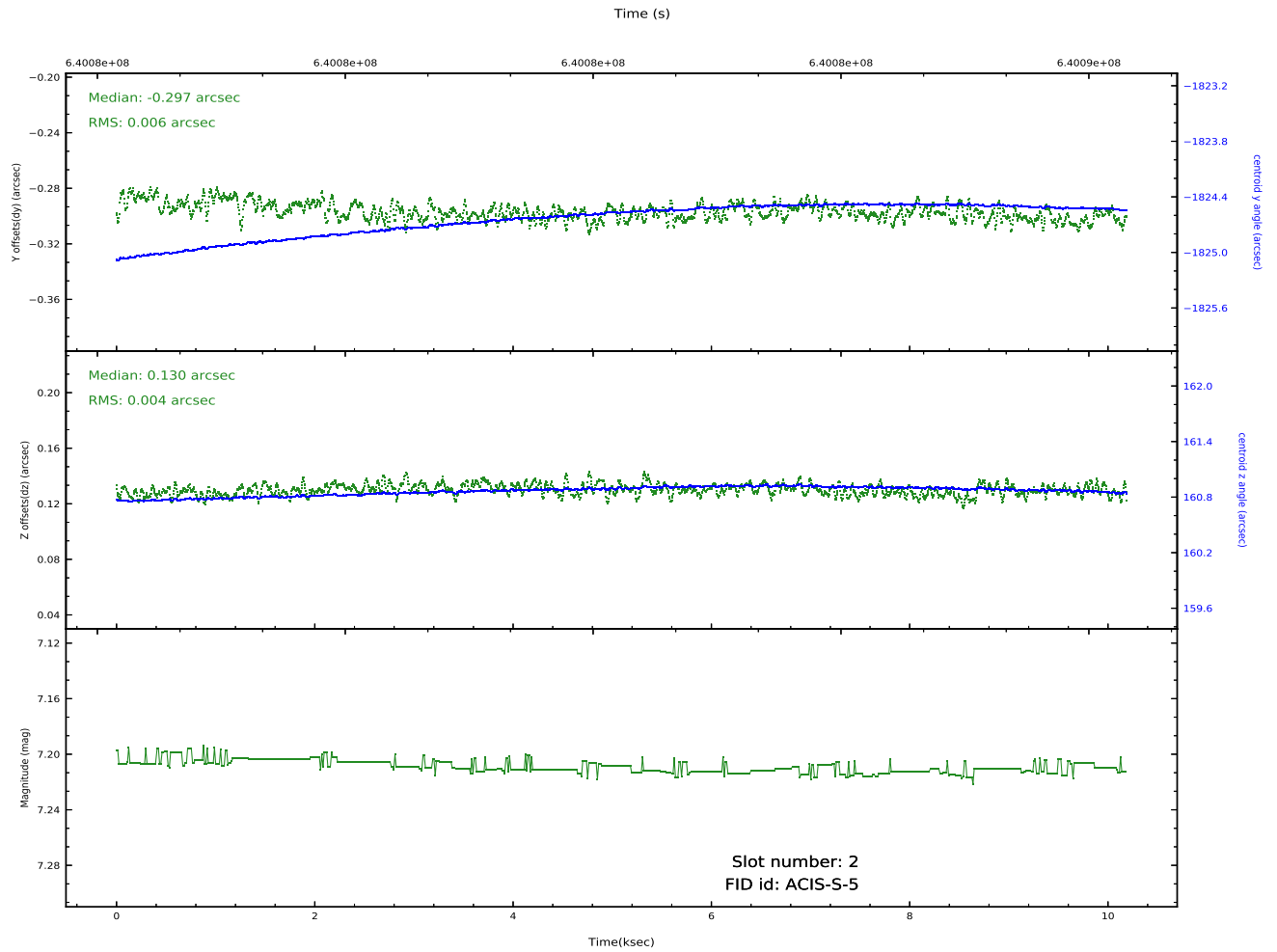
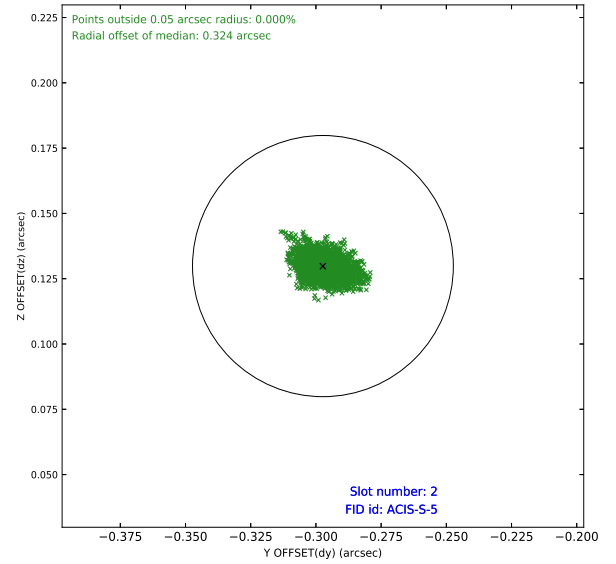
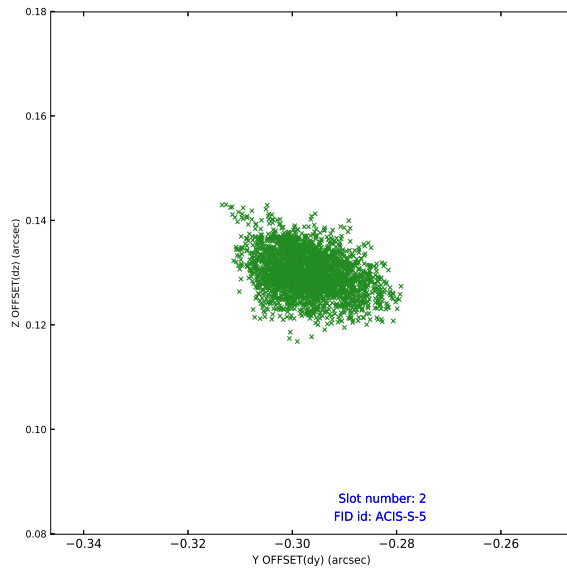
2.5.1 Slot 0



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	10.068323806524

A.2 Comments