

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 7226 - L2 Version 3
Chandra X-Ray Center

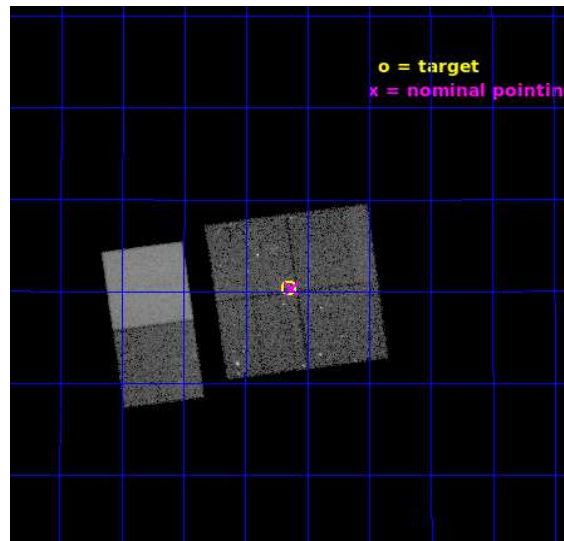
L2 Processing Date : Oct 11 2020

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1 Front

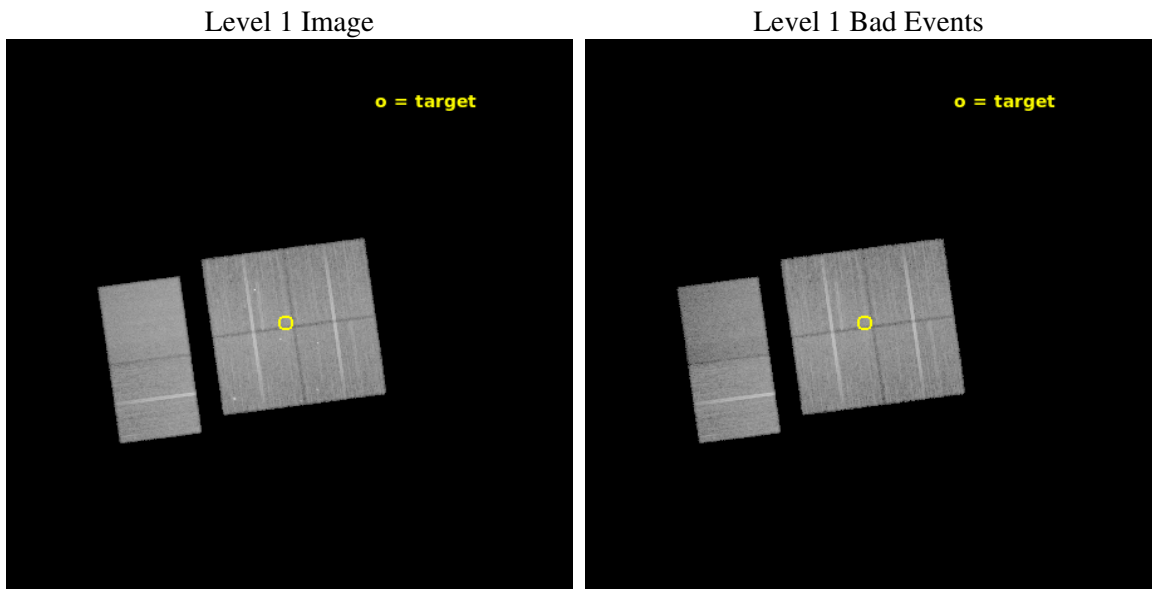
seq_num	600484	Sequence number
obs_id	7226	Observation id
title	The Chandra ACIS Survey of M33 (ChASem33): A Deep Survey of the Nearest Face-on Spiral Galaxy	Proposal title
observer	Manami Sasaki	Principal investigator
object	M33	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	23.286938	Observer's specified target RA [deg]
dec_targ	30.673589	Observer's specified target Dec [deg]
ra_nom	23.281062854765	Nominal RA [deg]
dec_nom	30.671955491267	Nominal Dec [deg]
roll_nom	262.20459136183	Nominal Roll [deg]
revision	3	Processing version of data
ontime	25171.117925704	Sum of GTIs [s]
livetime	24852.386074301	Livetime [s]
ontime0	25177.599906206	Sum of GTIs [s]
ontime1	25177.599906206	Sum of GTIs [s]
ontime2	25177.599906206	Sum of GTIs [s]
ontime3	25171.117925704	Sum of GTIs [s]
ontime6	25177.599906206	Sum of GTIs [s]
ontime7	25177.599906206	Sum of GTIs [s]
l2events	159280	Number of level 2 events



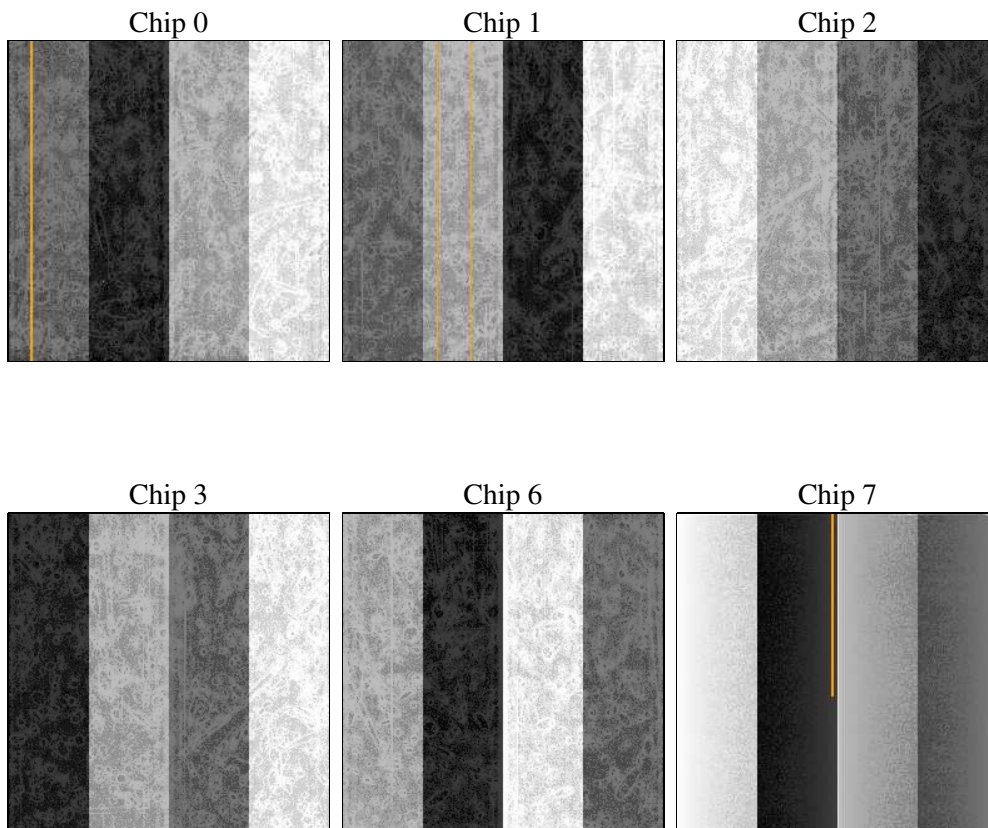
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	25171.117925704	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	25177.599906206	Sum of GTIs [s]
date	2020-10-11T16:41:30	Date and time of file creation	ontime1	25177.599906206	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	25177.599906206	Sum of GTIs [s]
			ontime3	25171.117925704	Sum of GTIs [s]
			ontime6	25177.599906206	Sum of GTIs [s]
			ontime7	25177.599906206	Sum of GTIs [s]
			l1events	1059008	Number of level 1 events

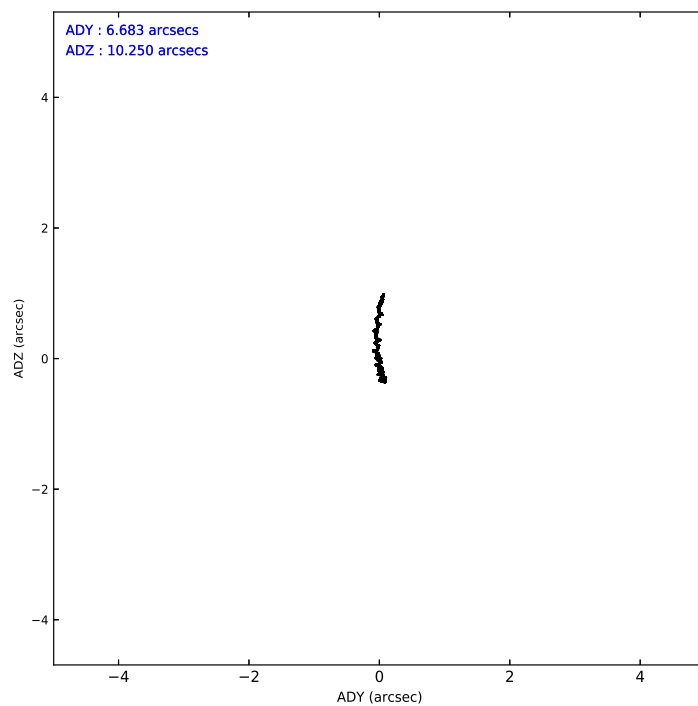
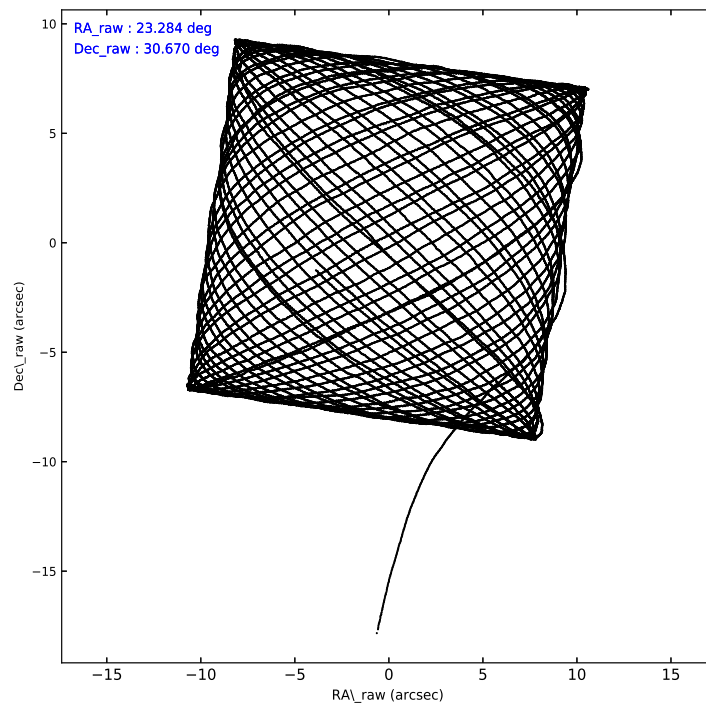
2.1.4 Events

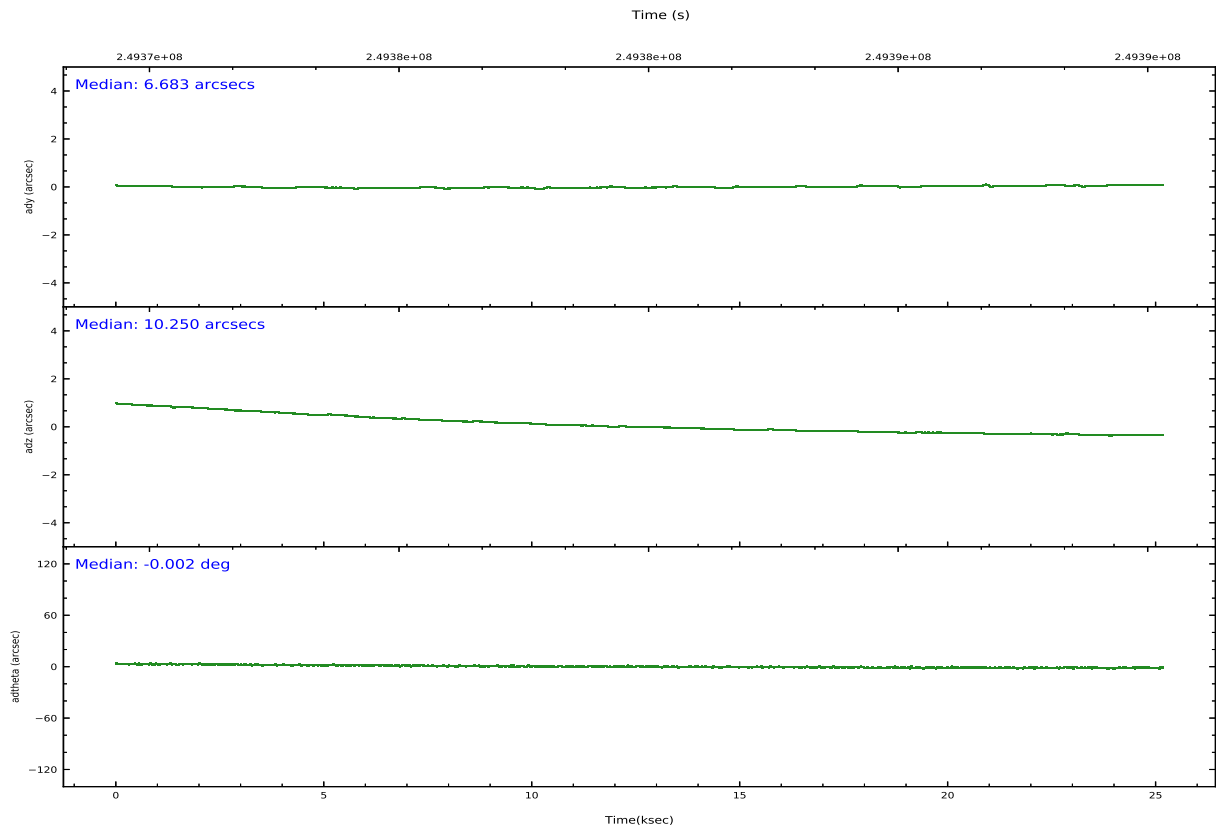
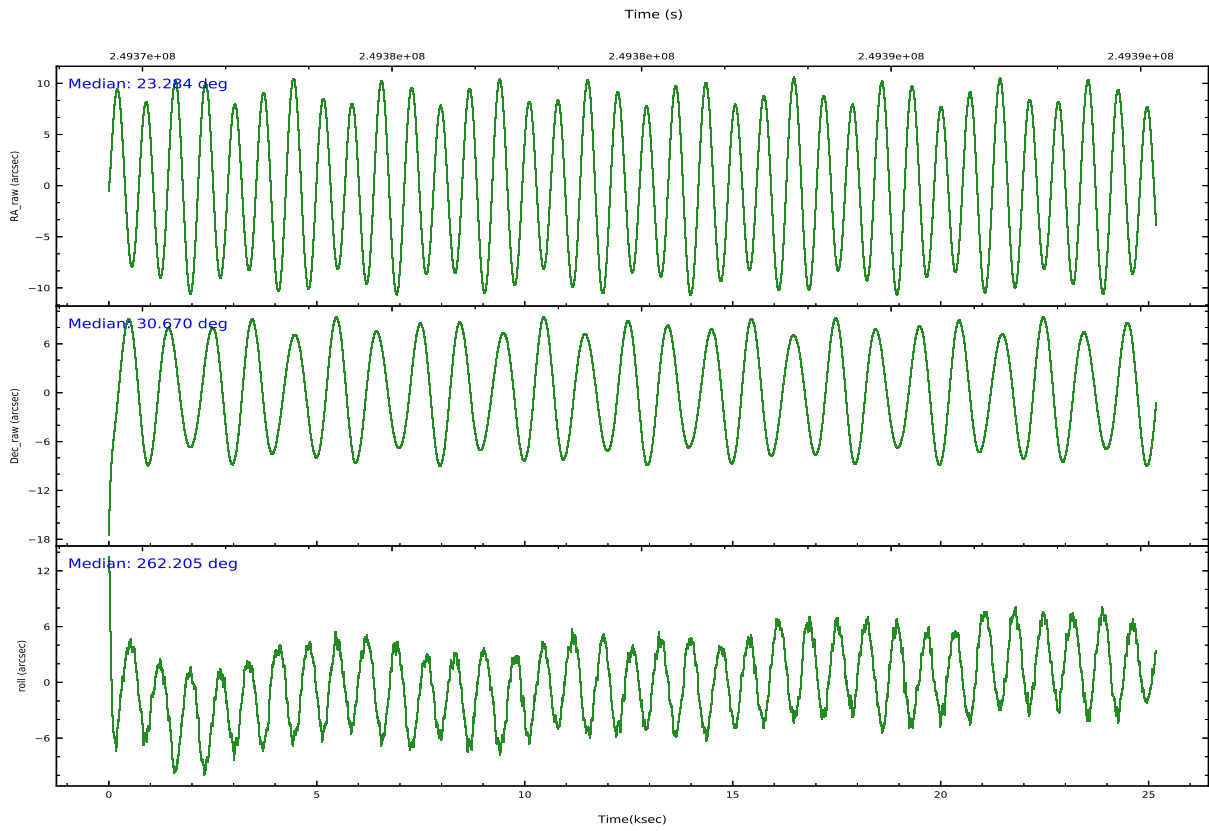
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	162458	159090	181353	180018	180250	195839	grade 0 events	6569	6862	7925	8077	6613	7707
rejected events	145368	140573	162676	161397	162287	109842		4%	4%	4%	4%	3%	3%
rejected %	89%	88%	89%	89%	90%	56%	grade 1 events	83	92	109	125	123	164
								0%	0%	0%	0%	0%	0%
							grade 2 events	4019	4149	4267	3838	3968	17775
								2%	2%	2%	2%	2%	9%
							grade 3 events	2020	2060	1870	2000	2037	8598
								1%	1%	1%	1%	1%	4%
							grade 4 events	1792	2146	1983	1957	2003	8323
								1%	1%	1%	1%	1%	4%
							grade 5 events	5759	6569	5465	6780	7177	20863
								3%	4%	3%	3%	3%	10%
							grade 6 events	3282	3901	3209	3274	3945	46404
								2%	2%	1%	1%	2%	23%
							grade 7 events	138934	133311	156525	153967	154384	86005
								85%	83%	86%	85%	85%	43%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	23.272019	23.281062854765	Subarray requested	NONE	NONE
[deg] Pointing Dec	30.694913	30.671955491267	Alternating exposures requested	N	N
[deg] Pointing Roll	262.007609	262.20459136183	[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)	249369371.184000	249367888.73537			
Observation start date	2005-11-26T05:15:07	2005-11-26T04:51:28			
[s] Observation end time (MET)	249394371.184000	249395321.32413			
Observation end date	2005-11-26T12:11:47	2005-11-26T12:28:41			
Read mode	TIMED	TIMED			

2.3 Aspect





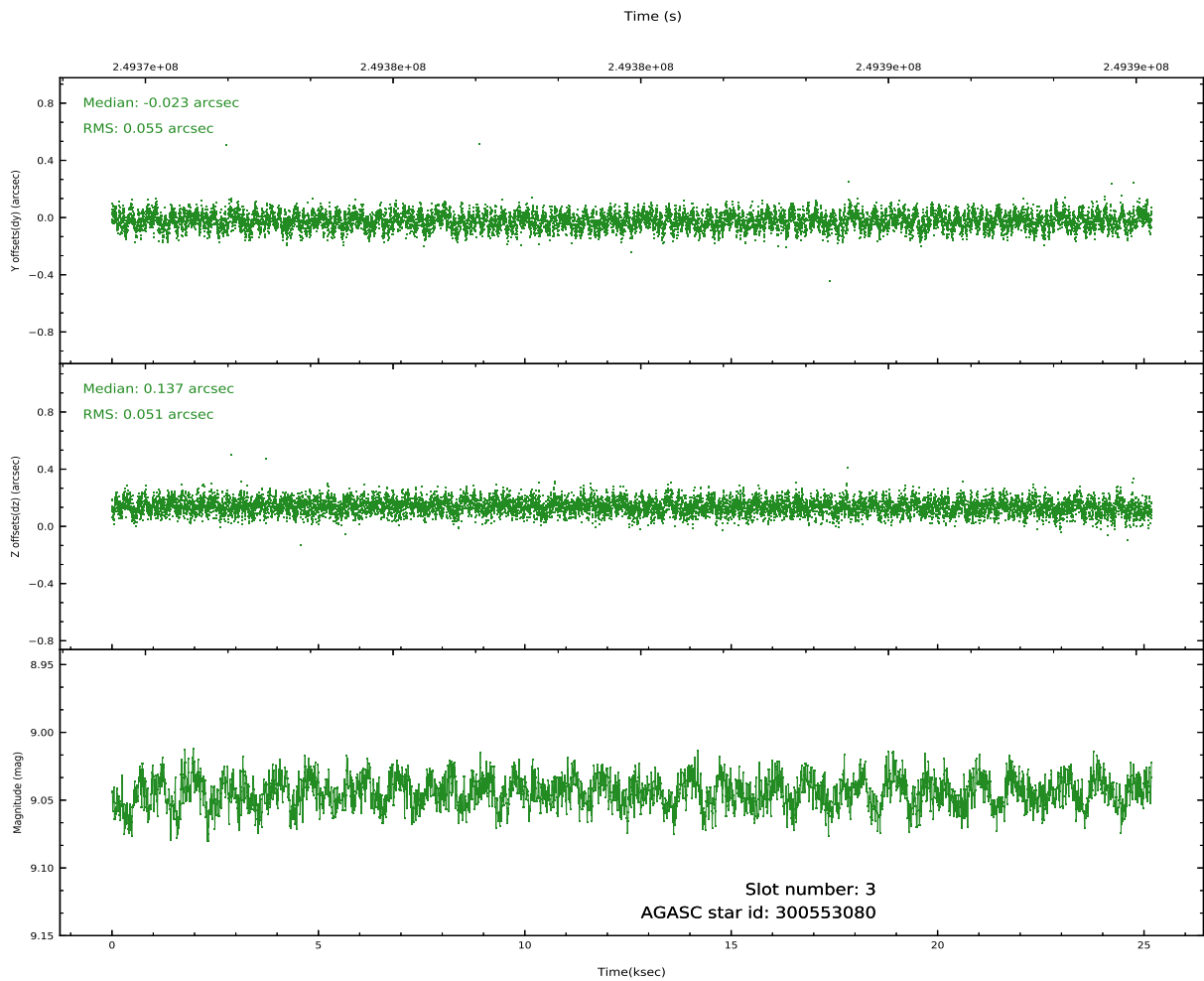
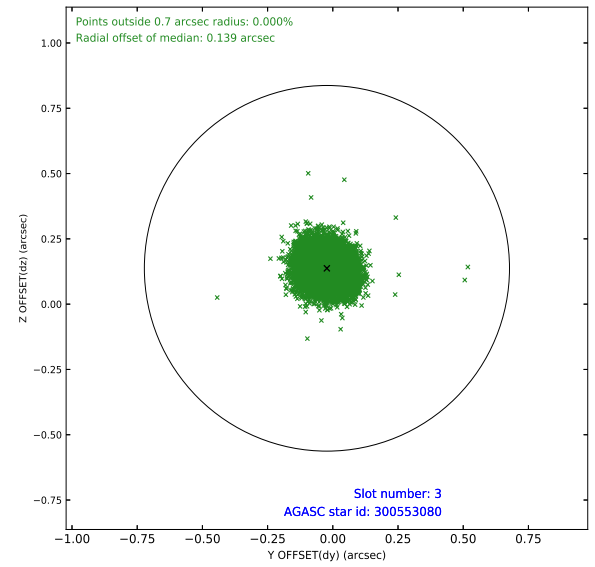
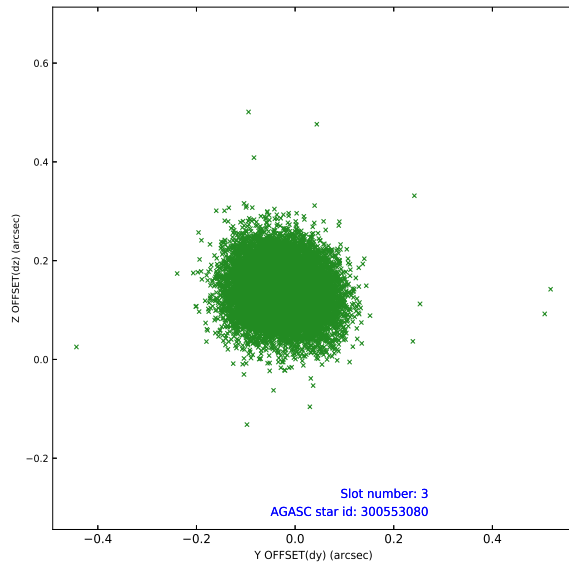
Slot Statistics

pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.25	6141	1.000	0.023	-0.024	0.024	0.044	0.000000	0.000000	933.03	-833
1	FID		ACIS-I-5	7.23	6141	1.000	-0.195	0.027	0.014	0.027	0.000000	0.000000	-1815.23	1063
2	FID		ACIS-I-6	7.26	6140	1.000	0.078	0.068	0.014	0.021	0.000000	0.000000	398.50	1708
3	GUIDE	used	300553080	9.04	12273	1.000	-0.023	0.137	0.080	0.126	23.777101	30.773227	-499.84	1507
4	GUIDE	used	300558472	8.01	12283	1.000	0.044	0.010	0.075	0.113	22.523923	30.150572	2257.43	-2034
5	GUIDE	used	300559960	7.88	12282	1.000	-0.005	-0.007	0.061	0.100	22.944463	30.624765	390.47	-969
6	GUIDE	used	300418408	9.36	12268	1.000	0.119	-0.088	0.115	0.195	22.485762	30.261517	1877.80	-2205
7	GUIDE	used	300553600	8.87	12277	1.000	-0.136	-0.055	0.075	0.122	22.659100	31.349100	-2074.79	-2194

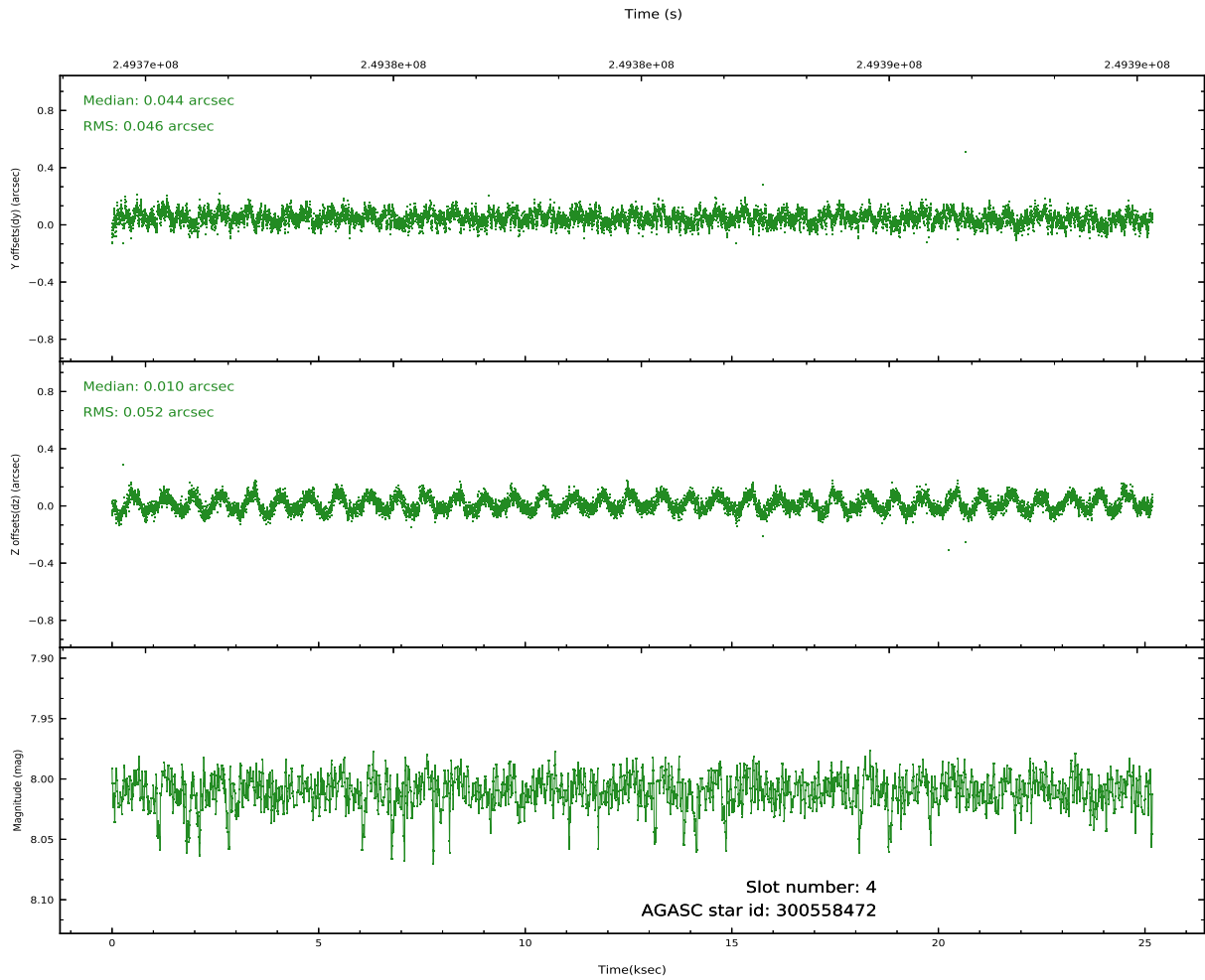
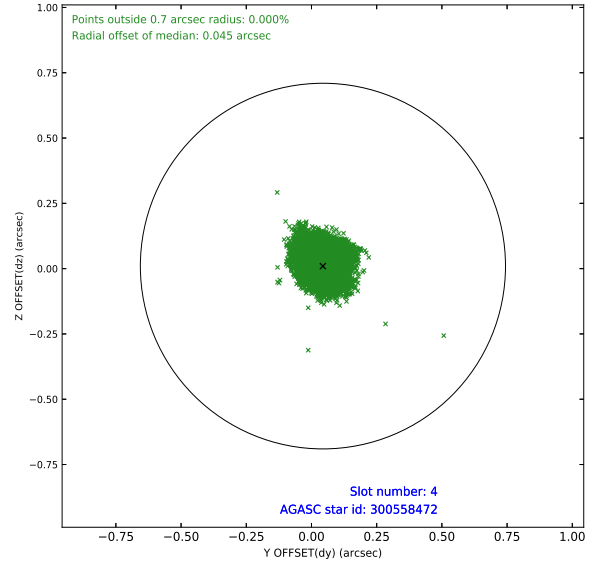
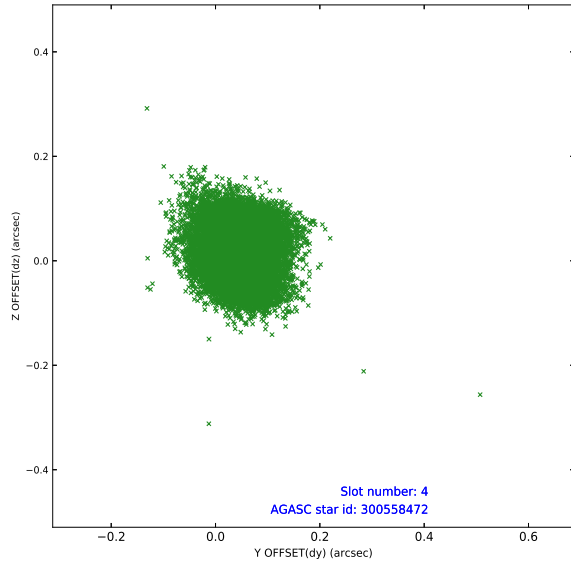
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2.4 Star Slots

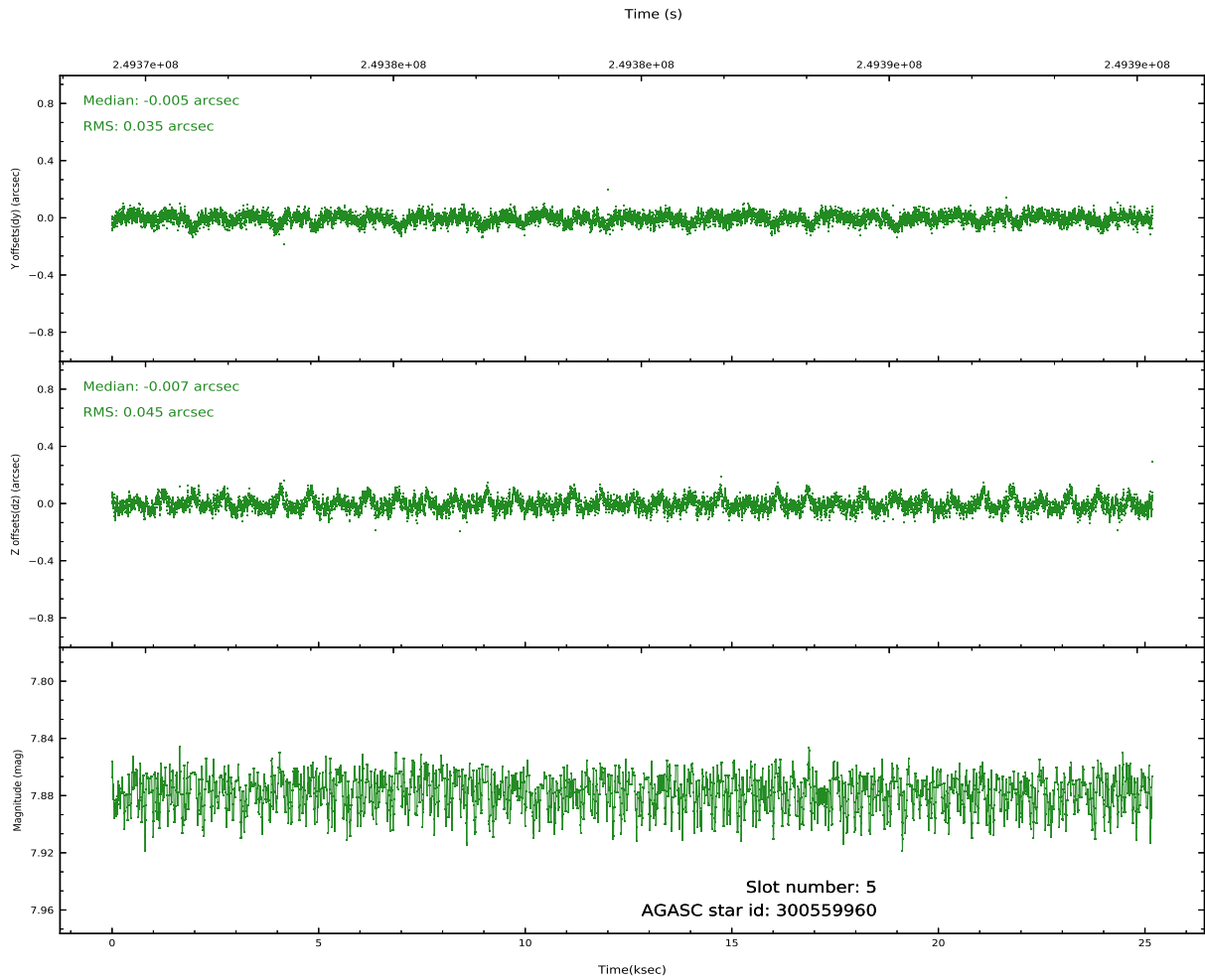
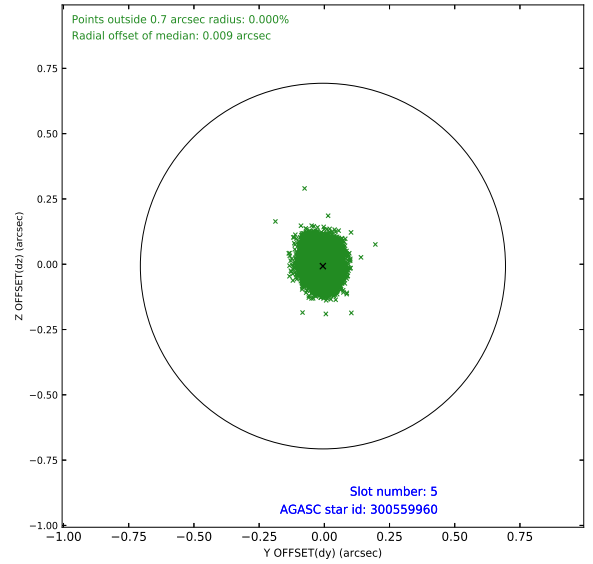
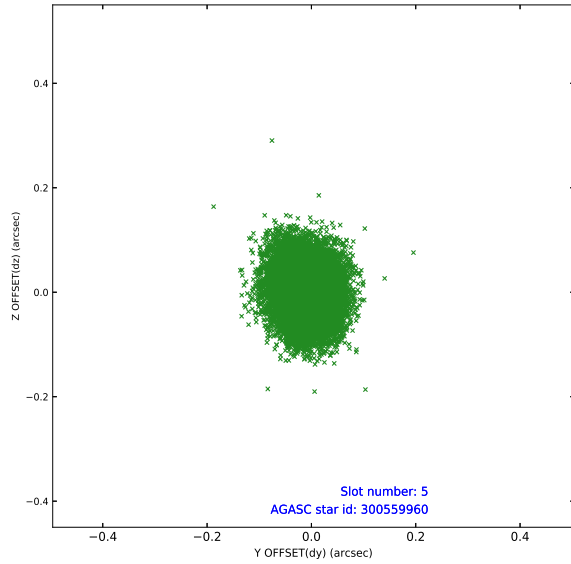
2.4.1 Slot 3



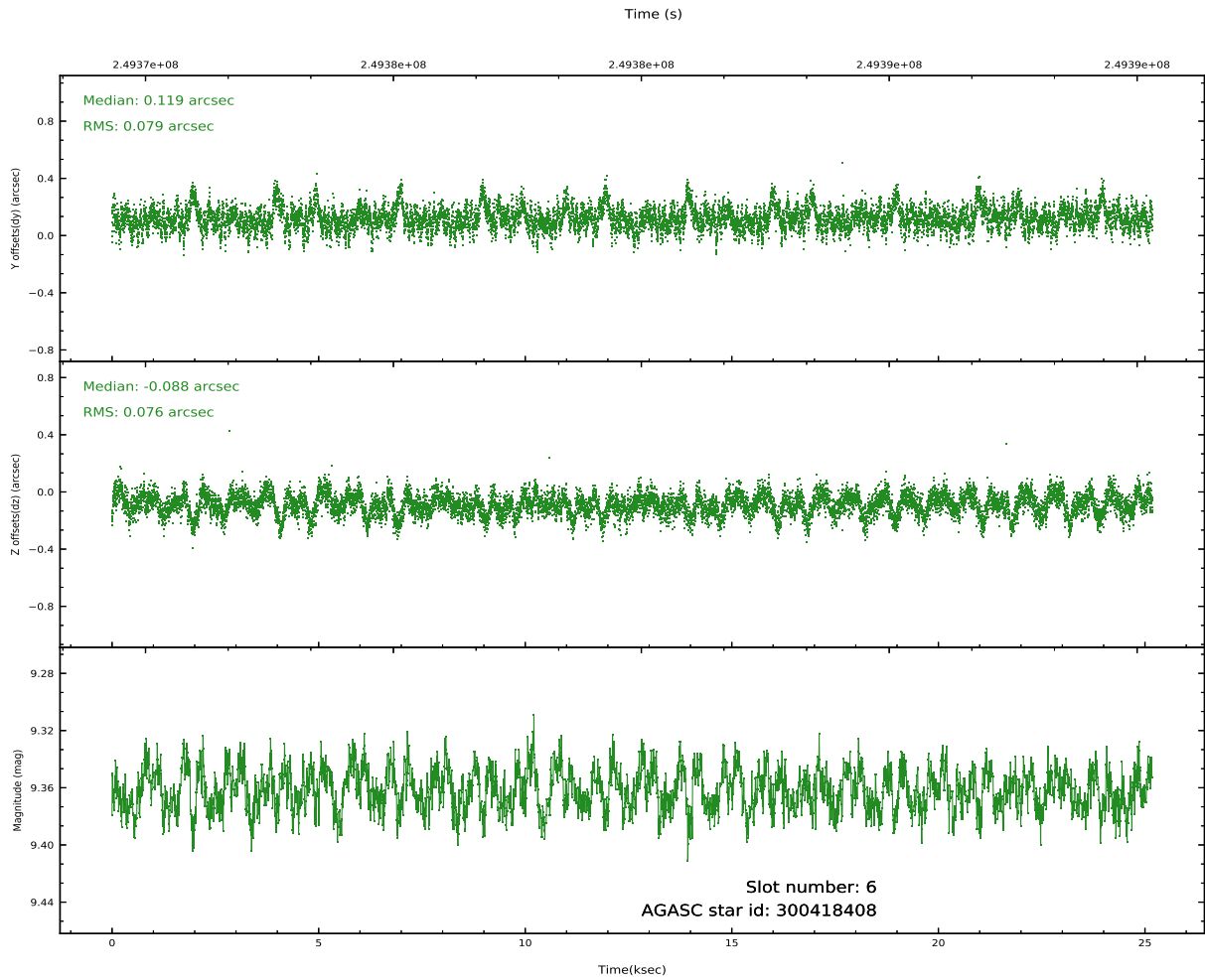
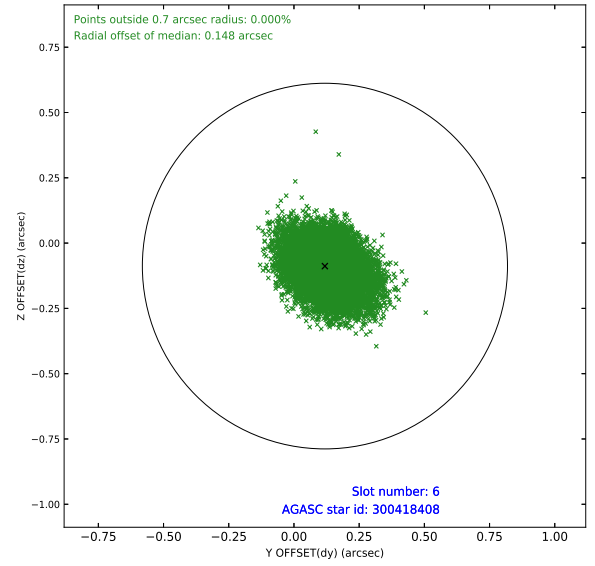
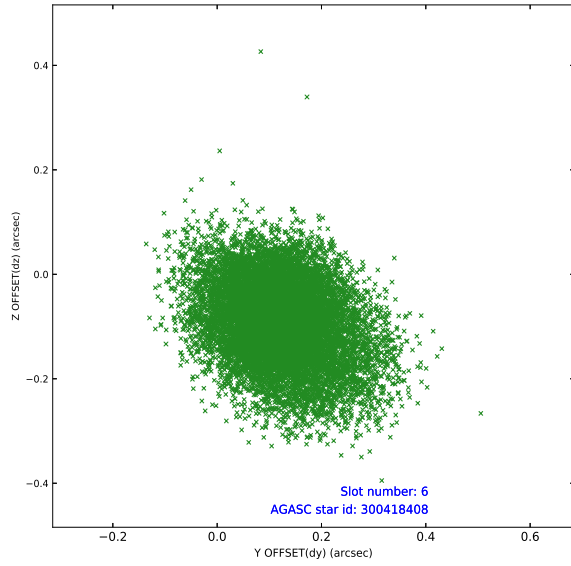
2.4.2 Slot 4



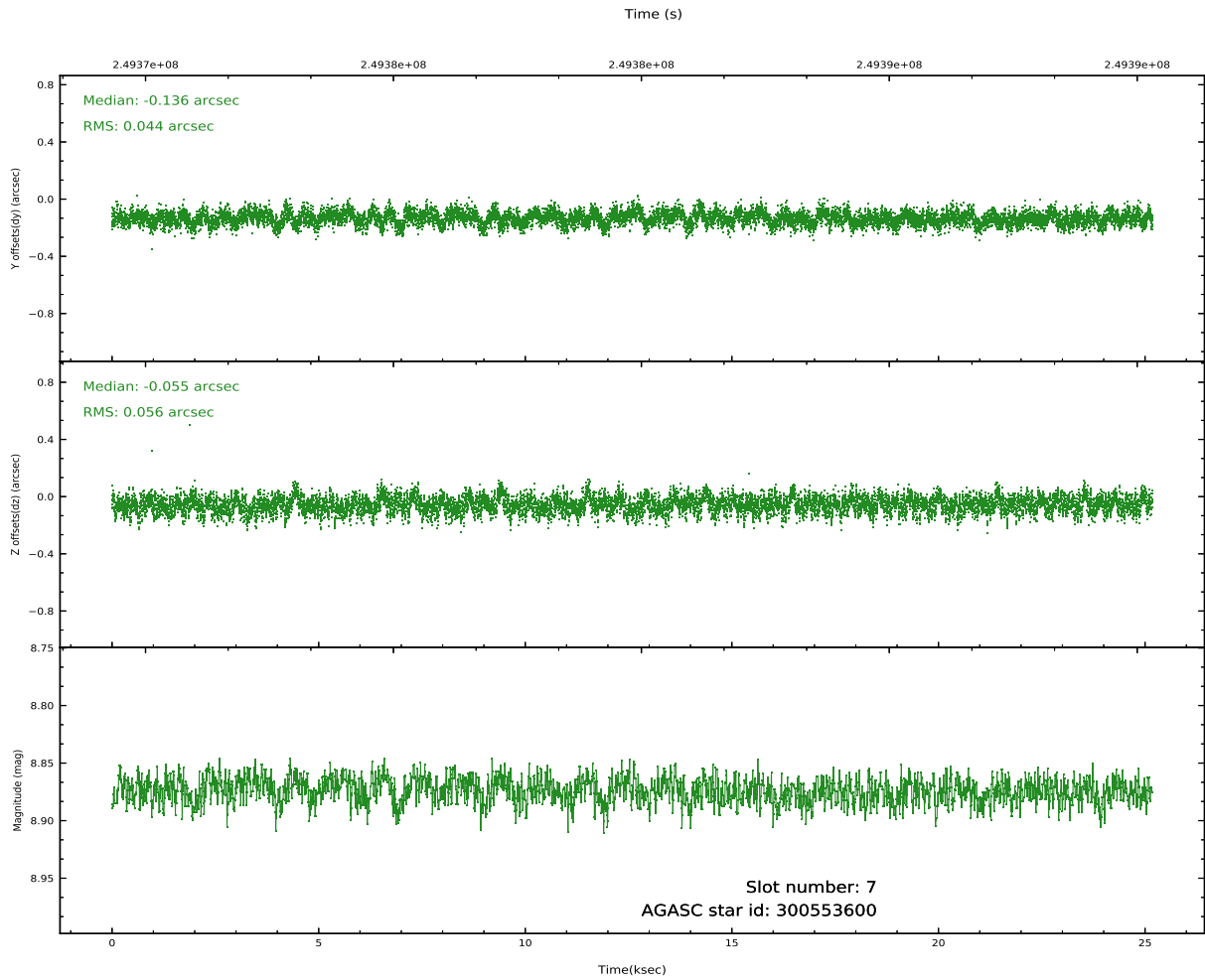
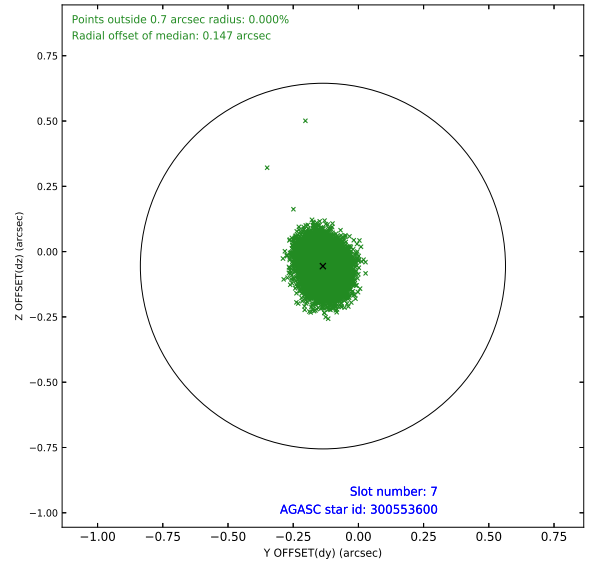
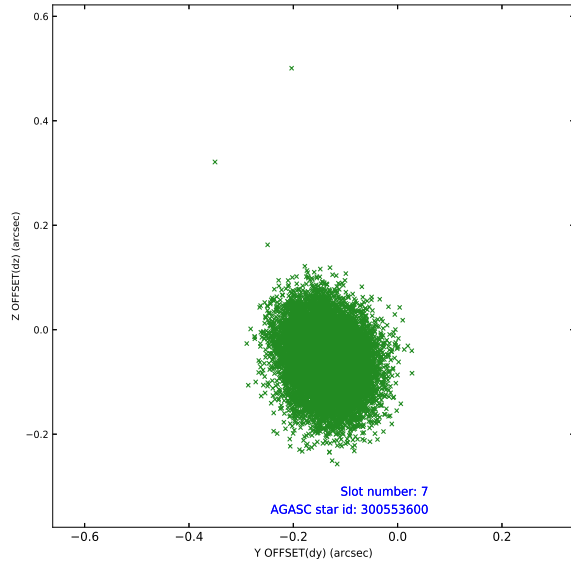
2.4.3 Slot 5



2.4.4 Slot 6

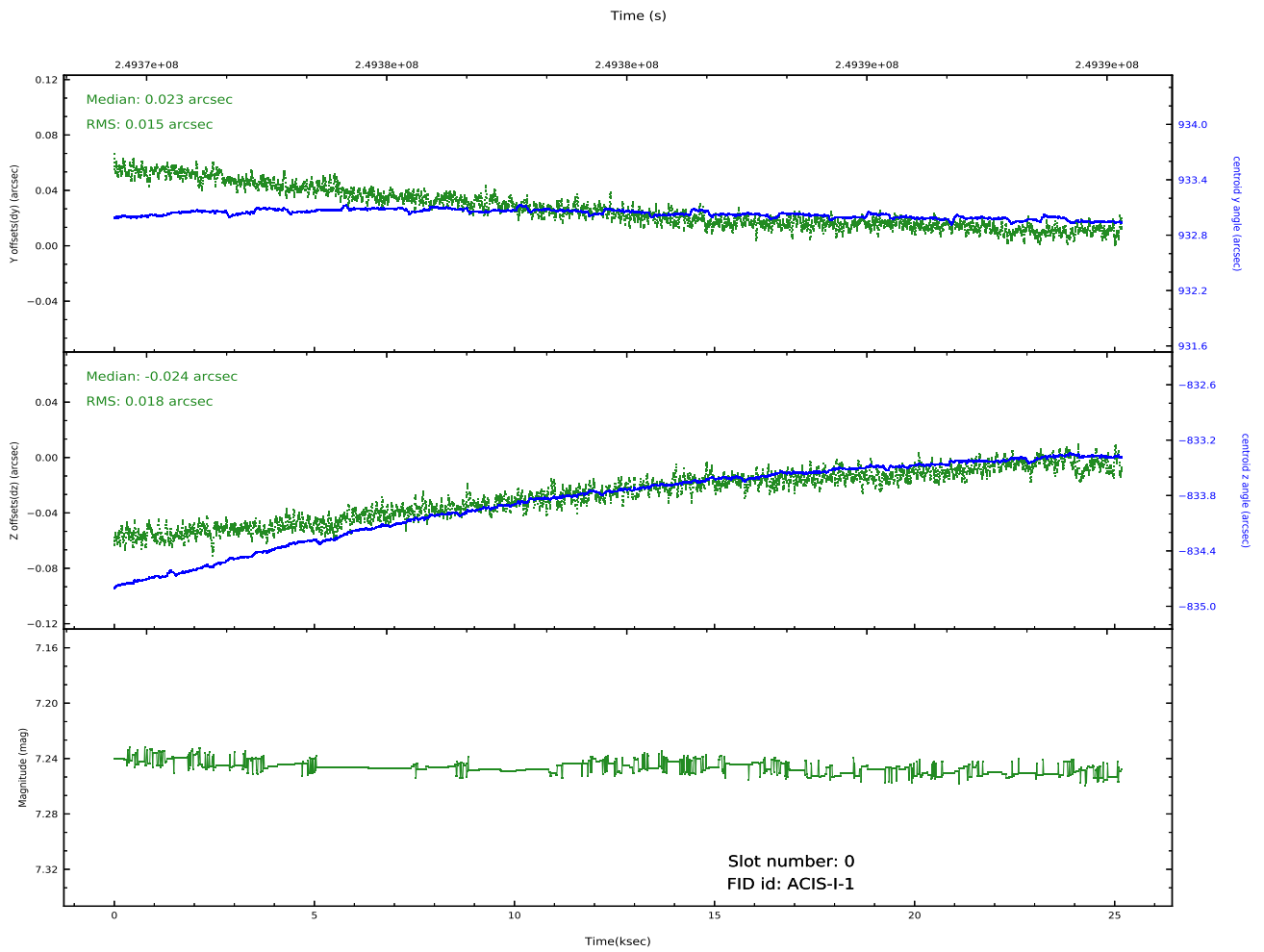
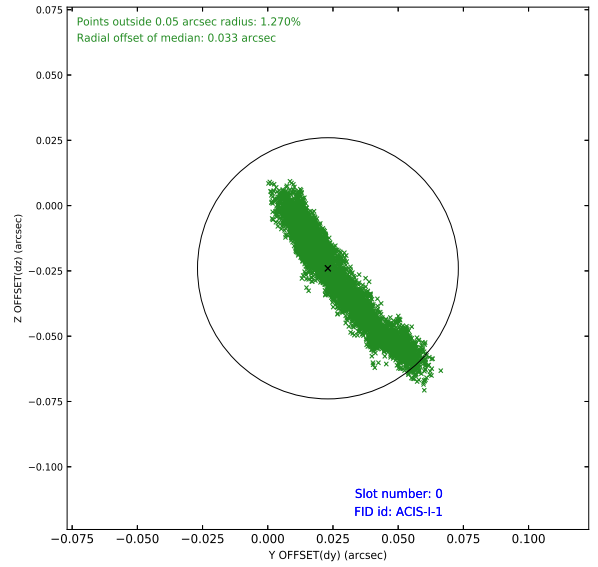
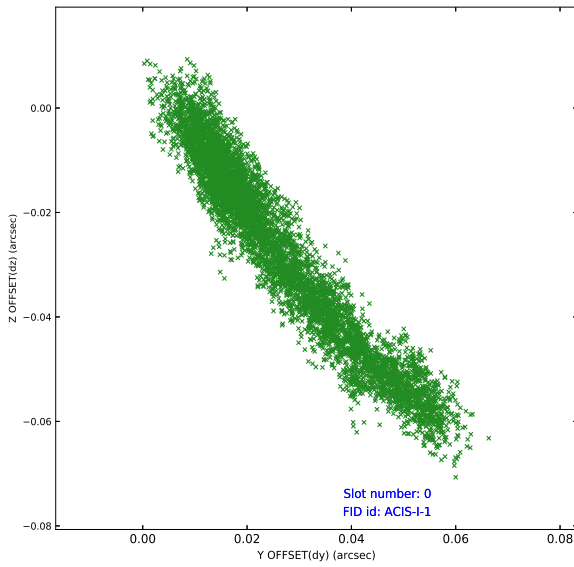


2.4.5 Slot 7

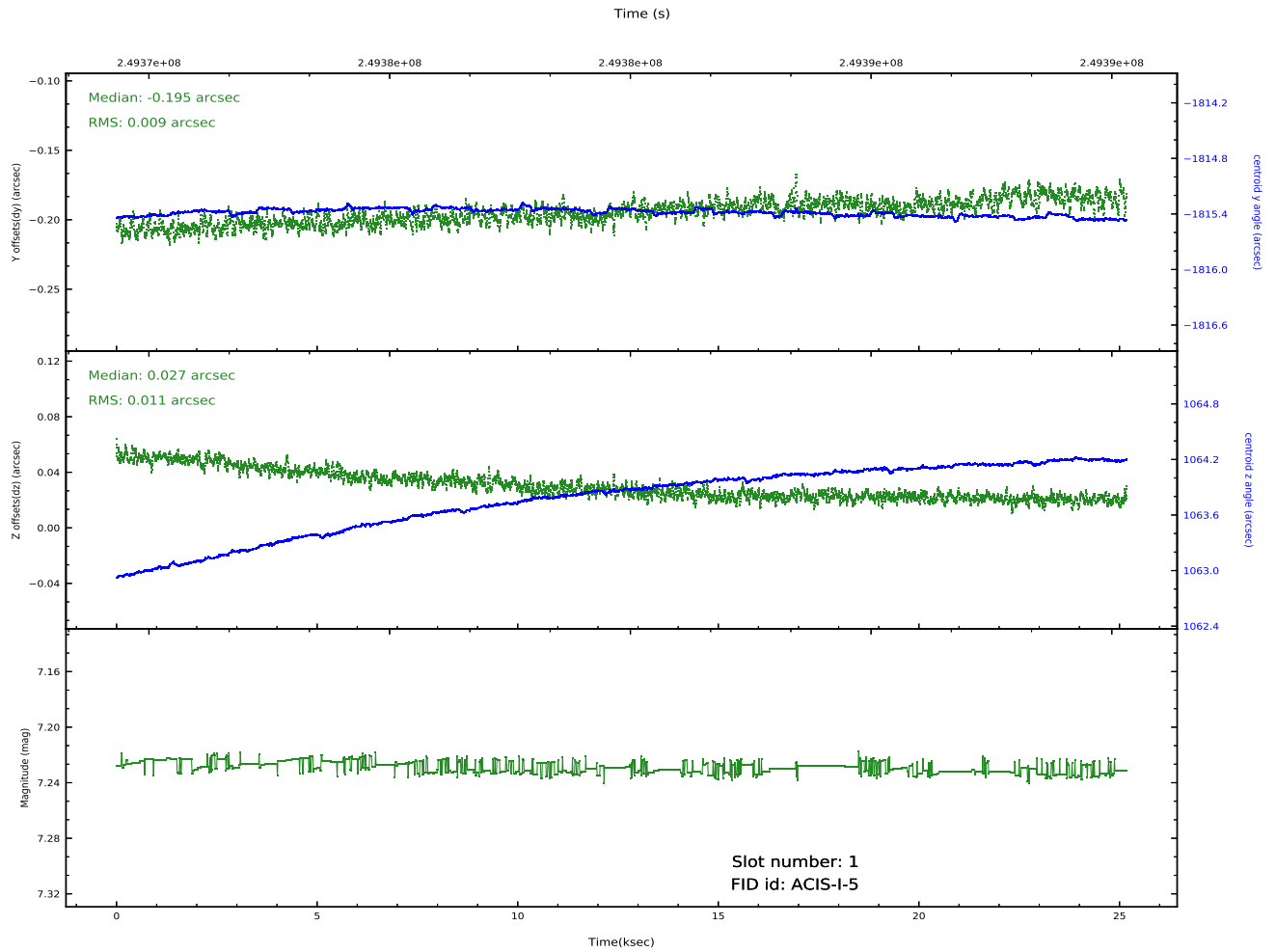
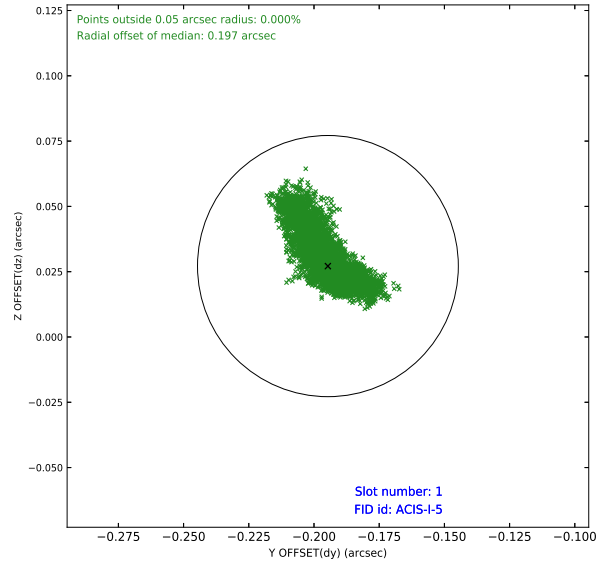
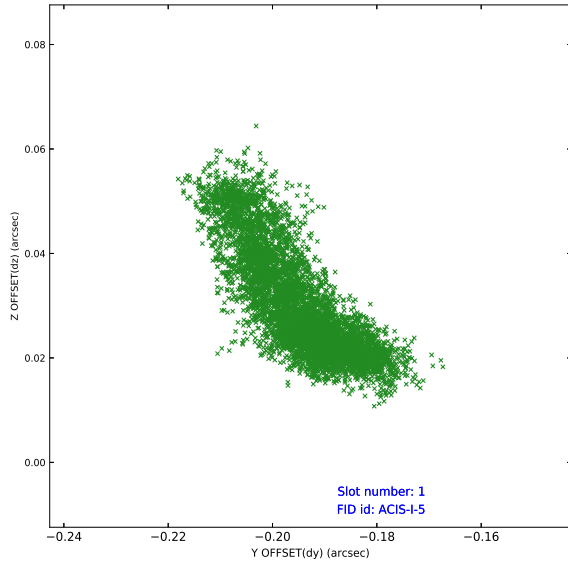


2.5 FID Slots

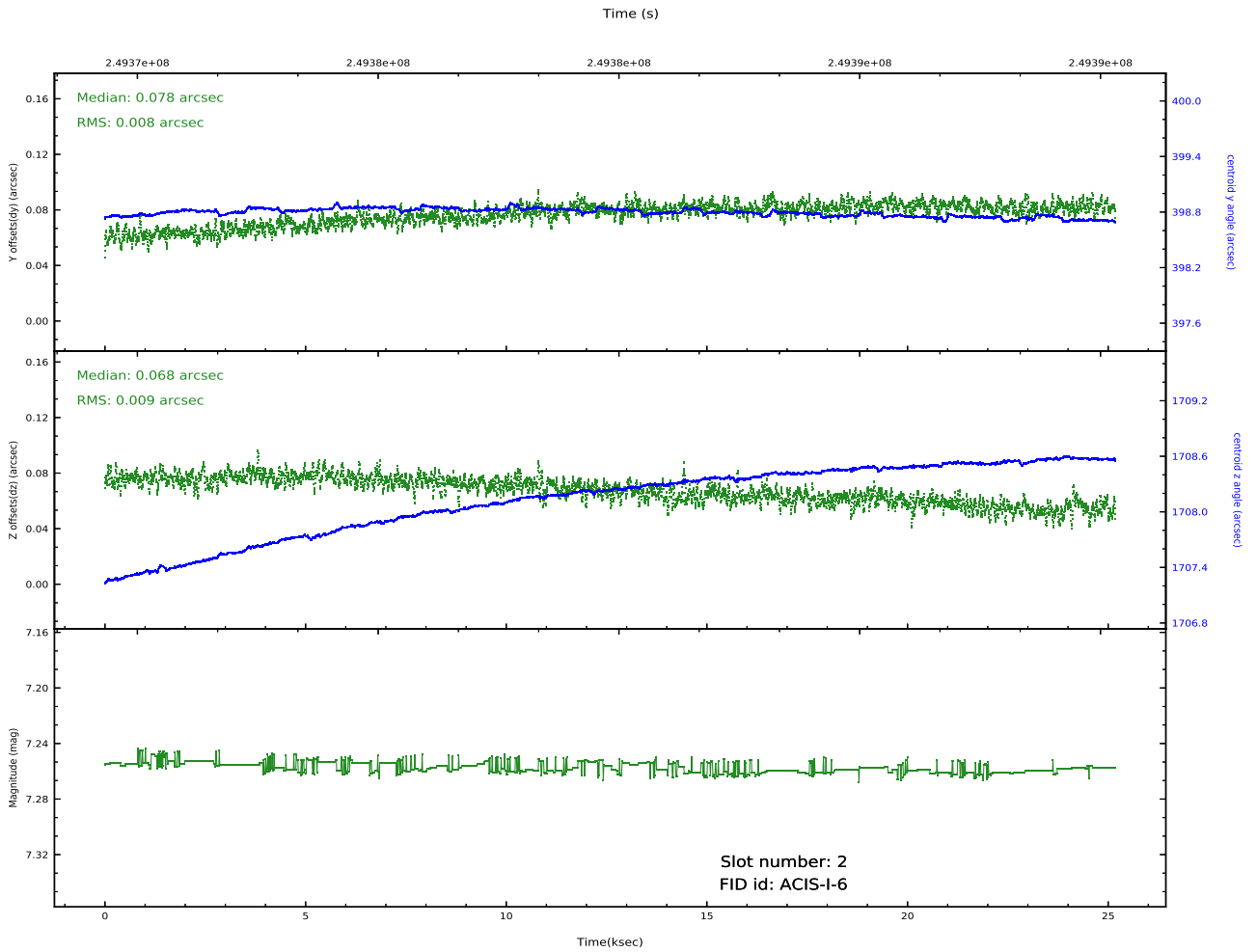
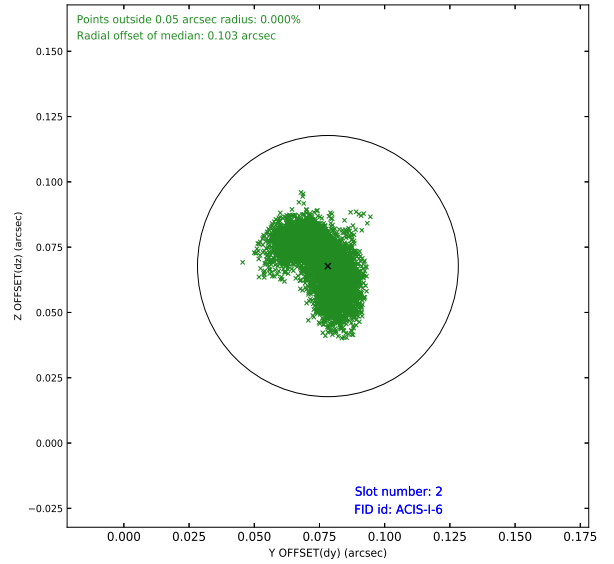
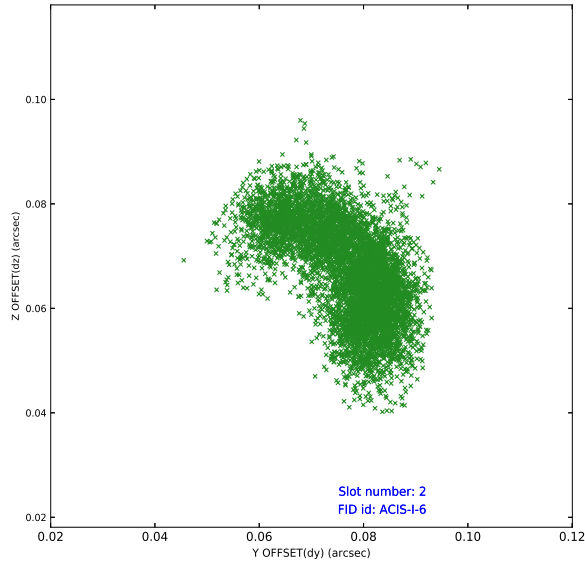
2.5.1 Slot 0



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)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.17111

A.2 Comments

Roll preference met.