

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 7197 - L2 Version 4
Chandra X-Ray Center

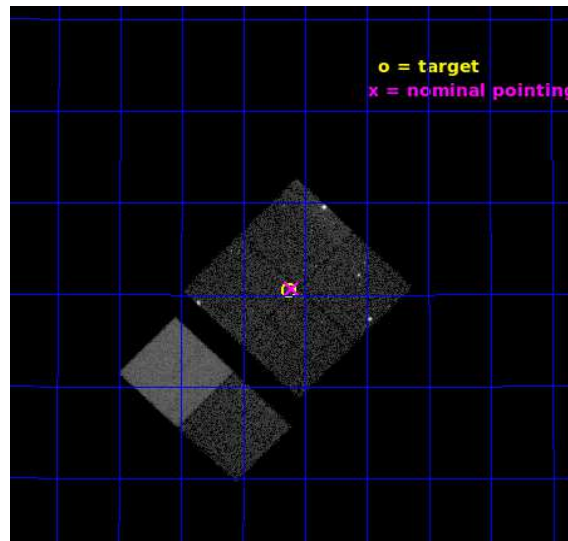
L2 Processing Date : Oct 11 2020

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1 Front

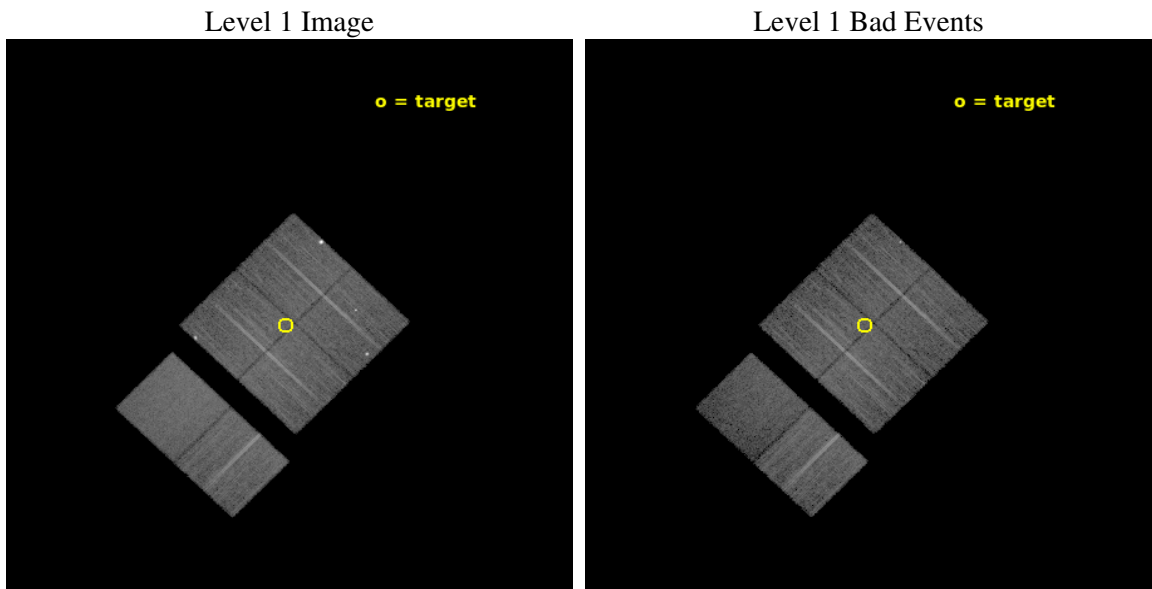
seq_num	600488	Sequence number
obs_id	7197	Observation id
title	The Chandra ACIS Survey of M33 (ChASem33): A Deep Survey of the Nearest Face-on Spiral Galaxy	Proposal title
observer	Manami Sasaki	Principal investigator
object	M33	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	23.532083	Observer's specified target RA [deg]
dec_targ	30.509111	Observer's specified target Dec [deg]
ra_nom	23.526436436931	Nominal RA [deg]
dec_nom	30.511230315275	Nominal Dec [deg]
roll_nom	224.21146324588	Nominal Roll [deg]
revision	4	Processing version of data
ontime	12812.717971772	Sum of GTIs [s]
livetime	12650.475621921	Livetime [s]
ontime0	12819.199952245	Sum of GTIs [s]
ontime1	12819.199952245	Sum of GTIs [s]
ontime2	12819.199952245	Sum of GTIs [s]
ontime3	12812.717971772	Sum of GTIs [s]
ontime6	12815.958981991	Sum of GTIs [s]
ontime7	12819.199952245	Sum of GTIs [s]
l2events	92377	Number of level 2 events



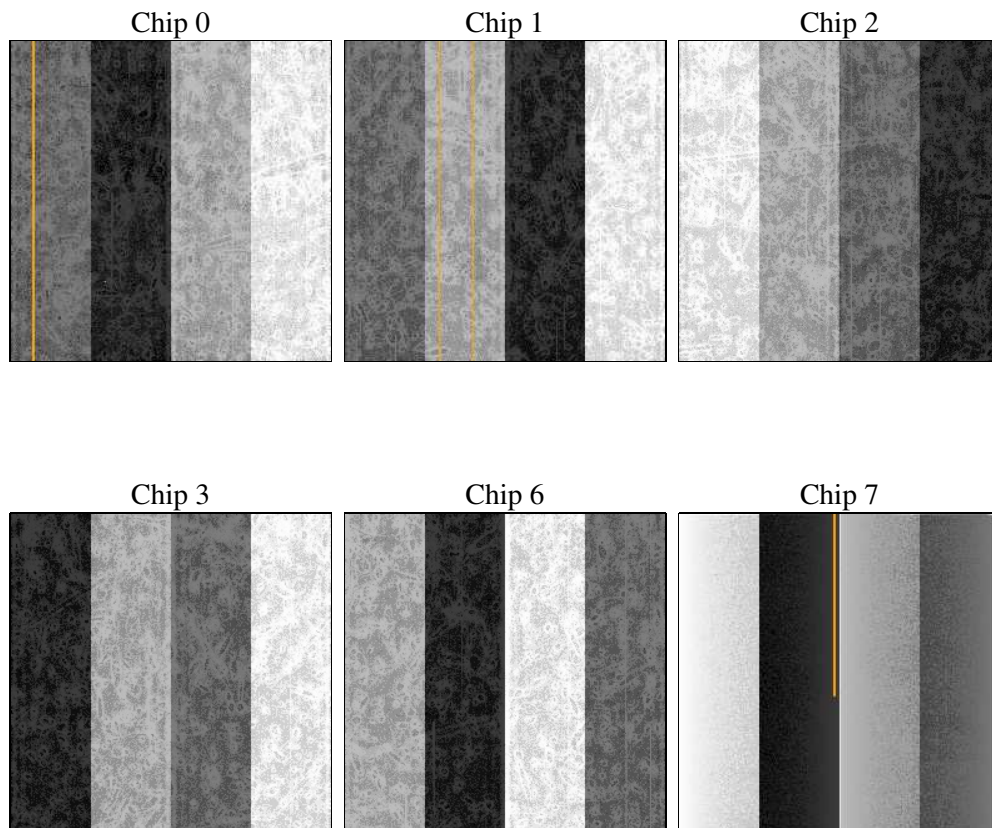
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	13000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	12812.717971772	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	12819.199952245	Sum of GTIs [s]
date	2020-10-11T13:43:08	Date and time of file creation	ontime1	12819.199952245	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	12819.199952245	Sum of GTIs [s]
			ontime3	12812.717971772	Sum of GTIs [s]
			ontime6	12815.958981991	Sum of GTIs [s]
			ontime7	12819.199952245	Sum of GTIs [s]
			l1events	529635	Number of level 1 events

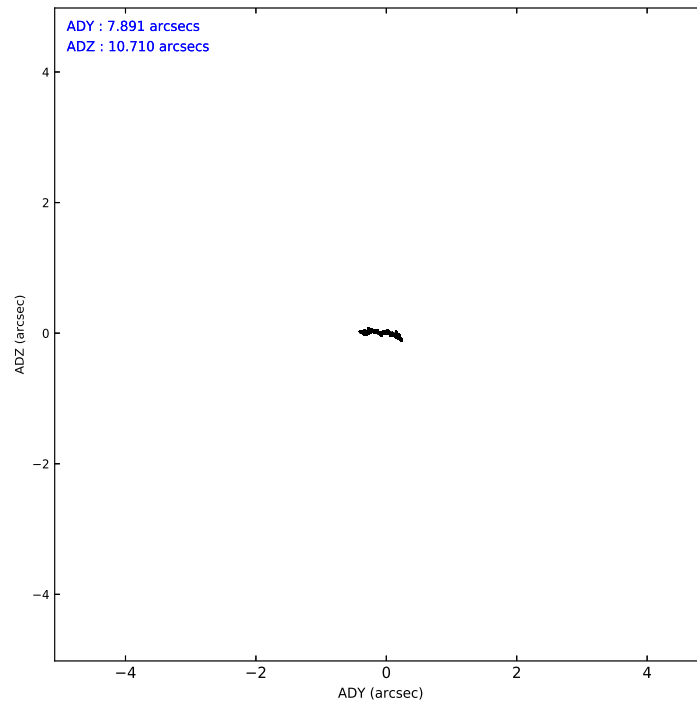
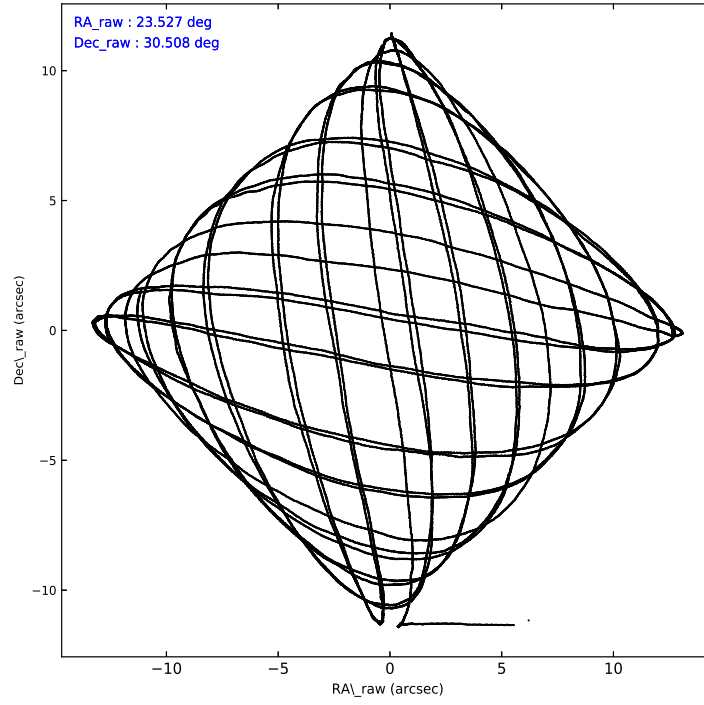
2.1.4 Events

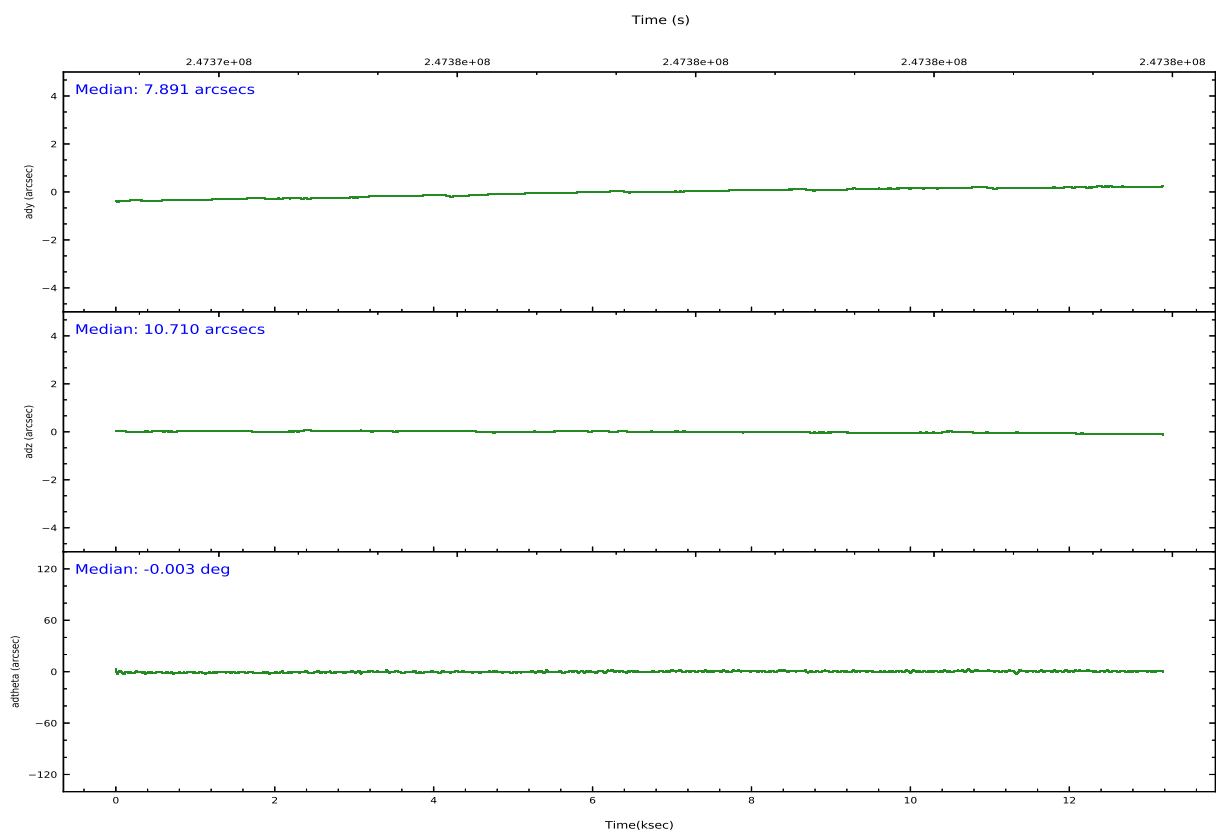
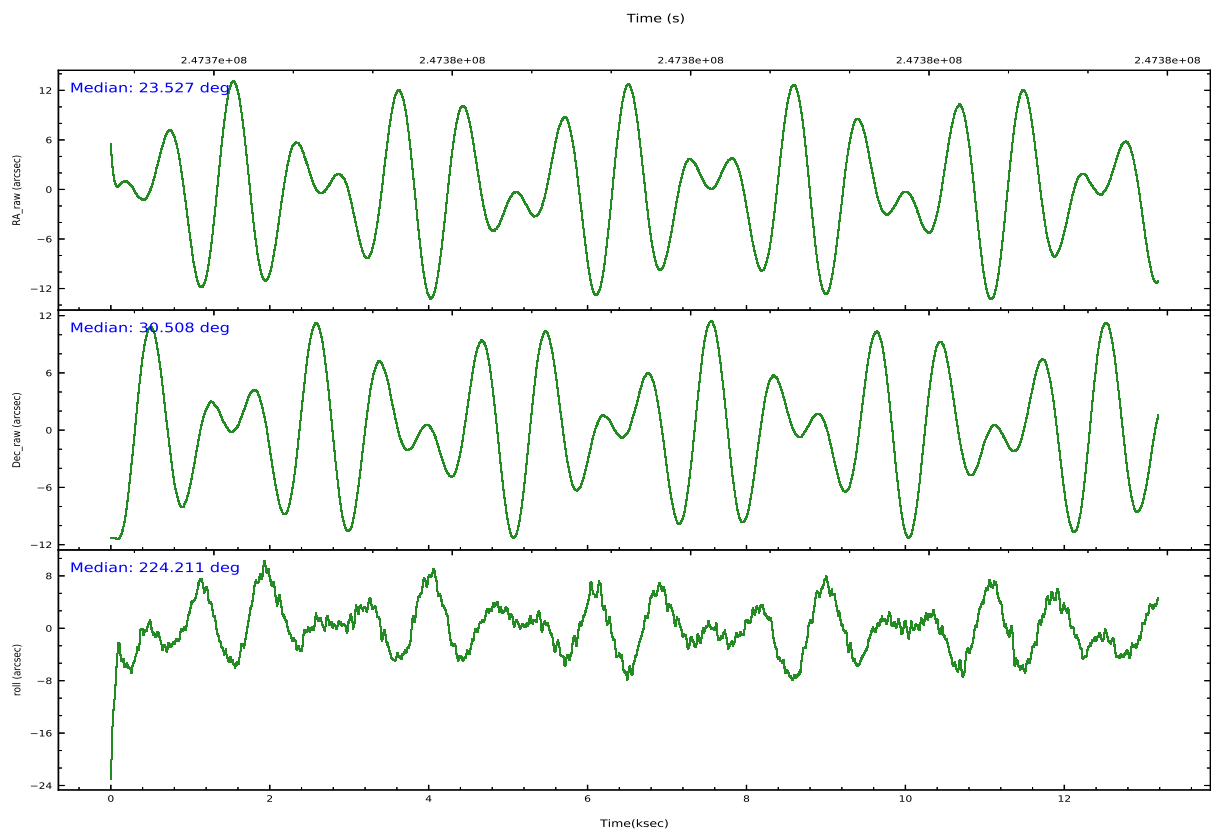
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	81368	91689	89500	84338	88685	94055	grade 0 events	6059	13993	2881	4503	2971	3420
rejected events	69092	68855	81492	74217	80023	51673		7%	15%	3%	5%	3%	3%
rejected %	84%	75%	91%	87%	90%	54%	grade 1 events	56	250	44	37	33	72
								0%	0%	0%	0%	0%	0%
							grade 2 events	2370	3647	1933	1927	1922	8242
								2%	3%	2%	2%	2%	8%
							grade 3 events	1115	1469	874	1081	1005	3941
								1%	1%	0%	1%	1%	4%
							grade 4 events	1049	1421	884	986	900	3962
								1%	1%	0%	1%	1%	4%
							grade 5 events	2798	3402	2753	3509	3526	10002
								3%	3%	3%	4%	3%	10%
							grade 6 events	1689	2309	1440	1625	1868	22826
								2%	2%	1%	1%	2%	24%
							grade 7 events	66232	65198	78691	70670	76460	41590
								81%	71%	87%	83%	86%	44%

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	23.535589	23.526436436931	Subarray requested	NONE	NONE
[deg] Pointing Dec	30.533805	30.511230315275	Alternating exposures requested	N	N
[deg] Pointing Roll	223.998215	224.21146324588	[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)	247370883.184000	247369936.60563			
Observation start date	2005-11-03T02:06:59	2005-11-03T01:52:16			
[s] Observation end time (MET)	247383883.184000	247384588.98131			
Observation end date	2005-11-03T05:43:39	2005-11-03T05:56:28			
Read mode	TIMED	TIMED			

2.3 Aspect



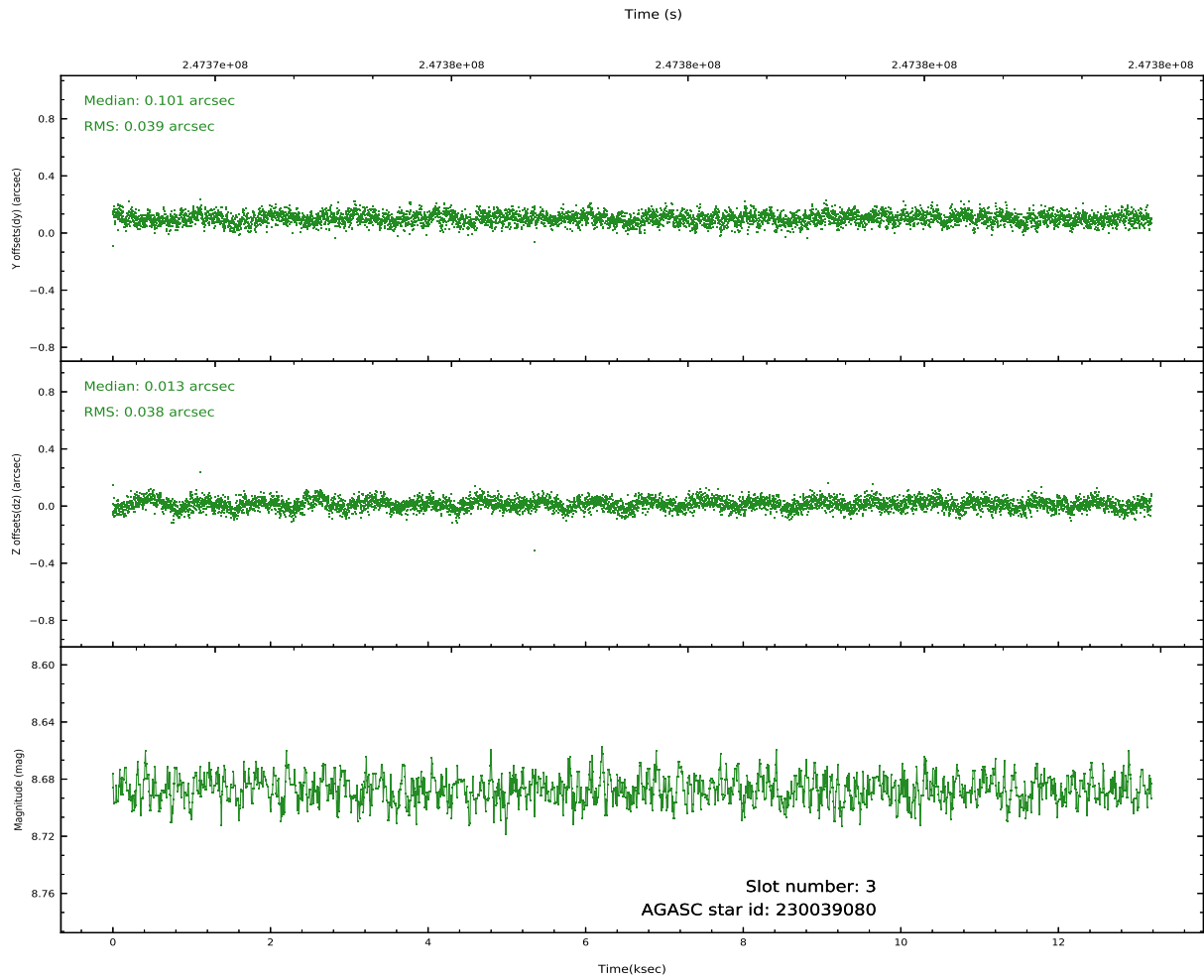
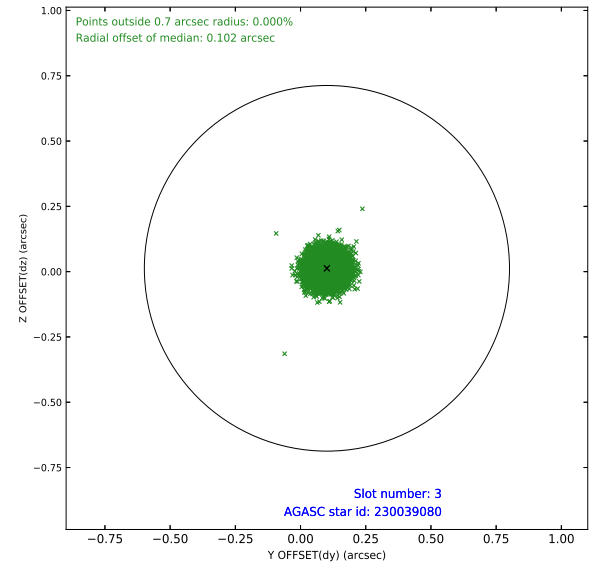
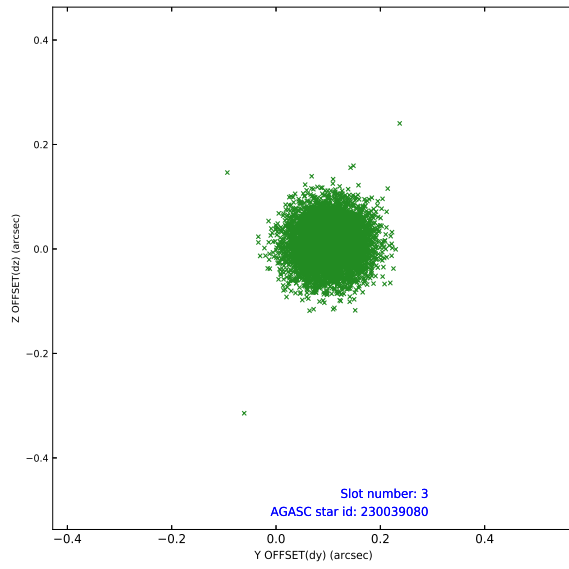


Slot Statistics

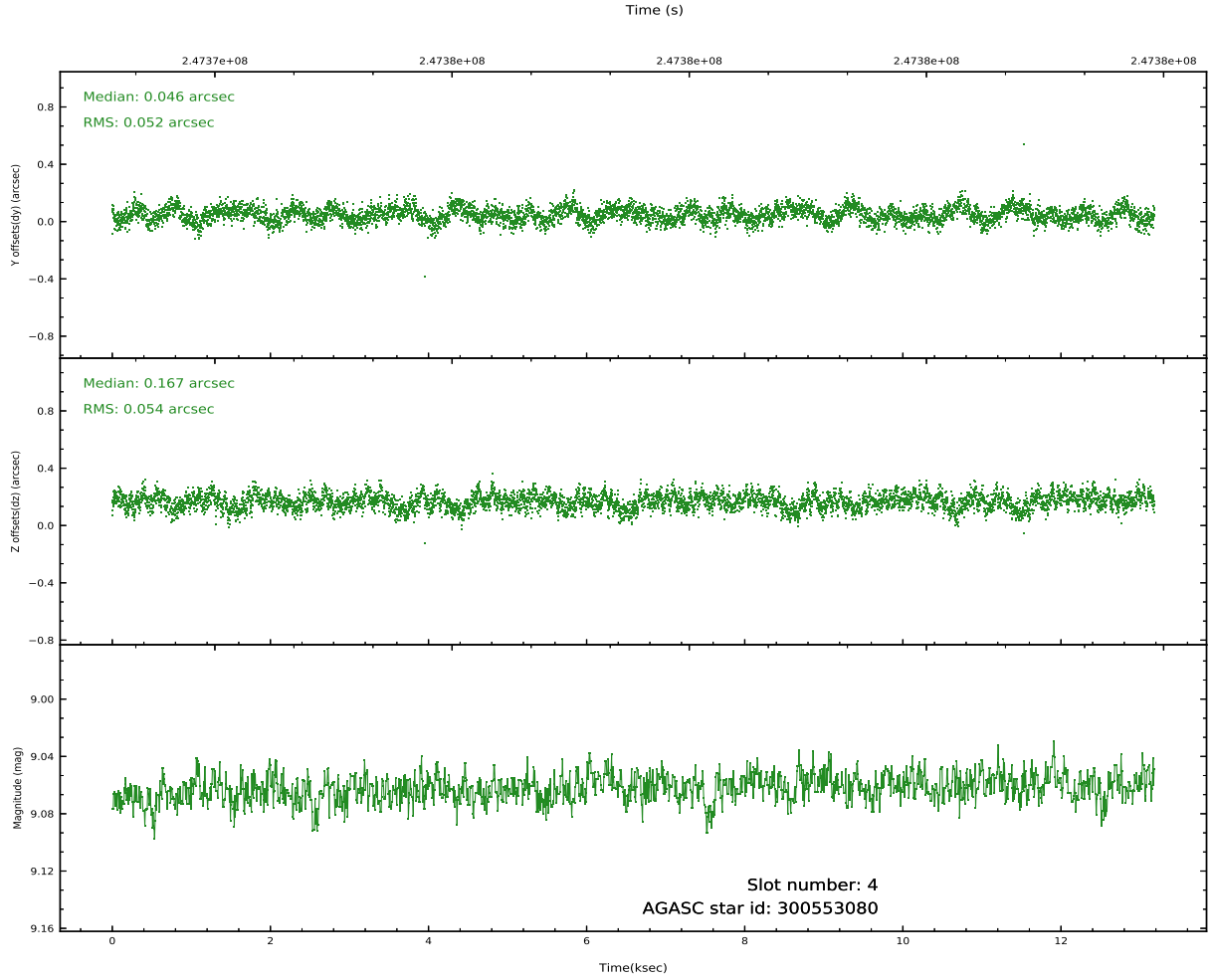
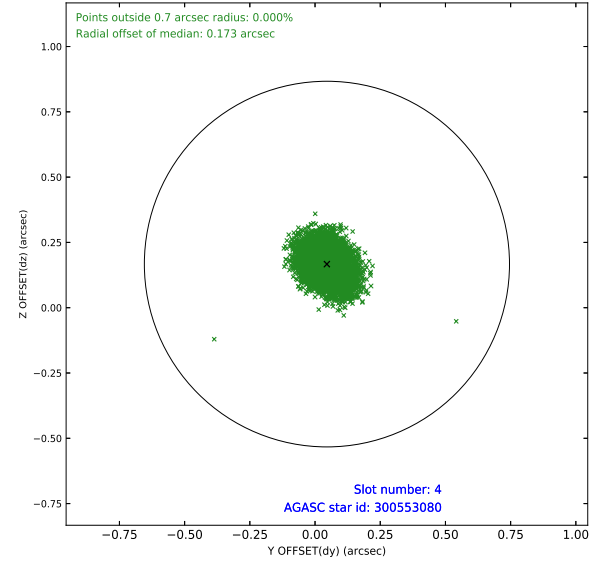
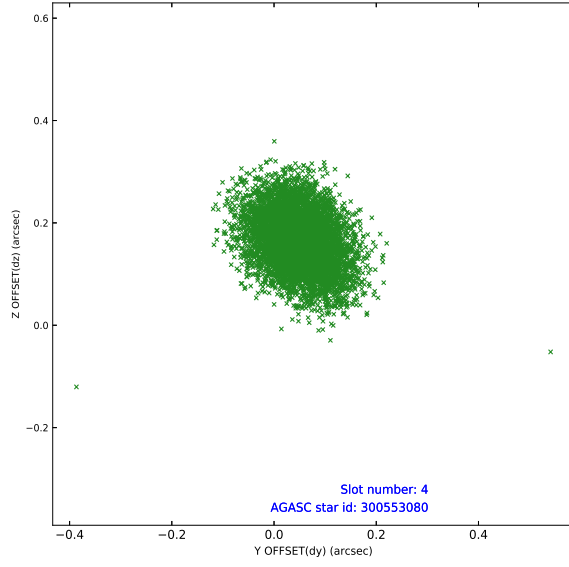
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	3215	1.000	0.015	0.006	0.009	0.014	0.000000	0.000000	931.84	-834
1	FID		ACIS-I-2	7.14	3215	1.000	-0.117	-0.077	0.011	0.017	0.000000	0.000000	-762.18	-840
2	FID		ACIS-I-6	7.25	3214	1.000	0.011	0.137	0.008	0.014	0.000000	0.000000	397.24	1707
3	GUIDE	used	230039080	8.69	6430	1.000	0.101	0.013	0.057	0.093	23.320866	29.887774	2097.43	1207
4	GUIDE	used	300553080	9.06	6426	1.000	0.046	0.167	0.079	0.129	23.777101	30.773227	-1136.17	-101
5	GUIDE	used	300559160	9.40	6423	1.000	-0.051	-0.102	0.093	0.153	24.161026	30.632205	-1643.53	1087
6	GUIDE	used	300559832	7.87	6431	1.000	-0.041	-0.046	0.052	0.084	24.407732	30.552794	-2000.00	1821
7	GUIDE	used	300559960	7.88	6430	1.000	-0.055	-0.026	0.058	0.093	22.944463	30.624765	1086.27	-1510

2.4 Star Slots

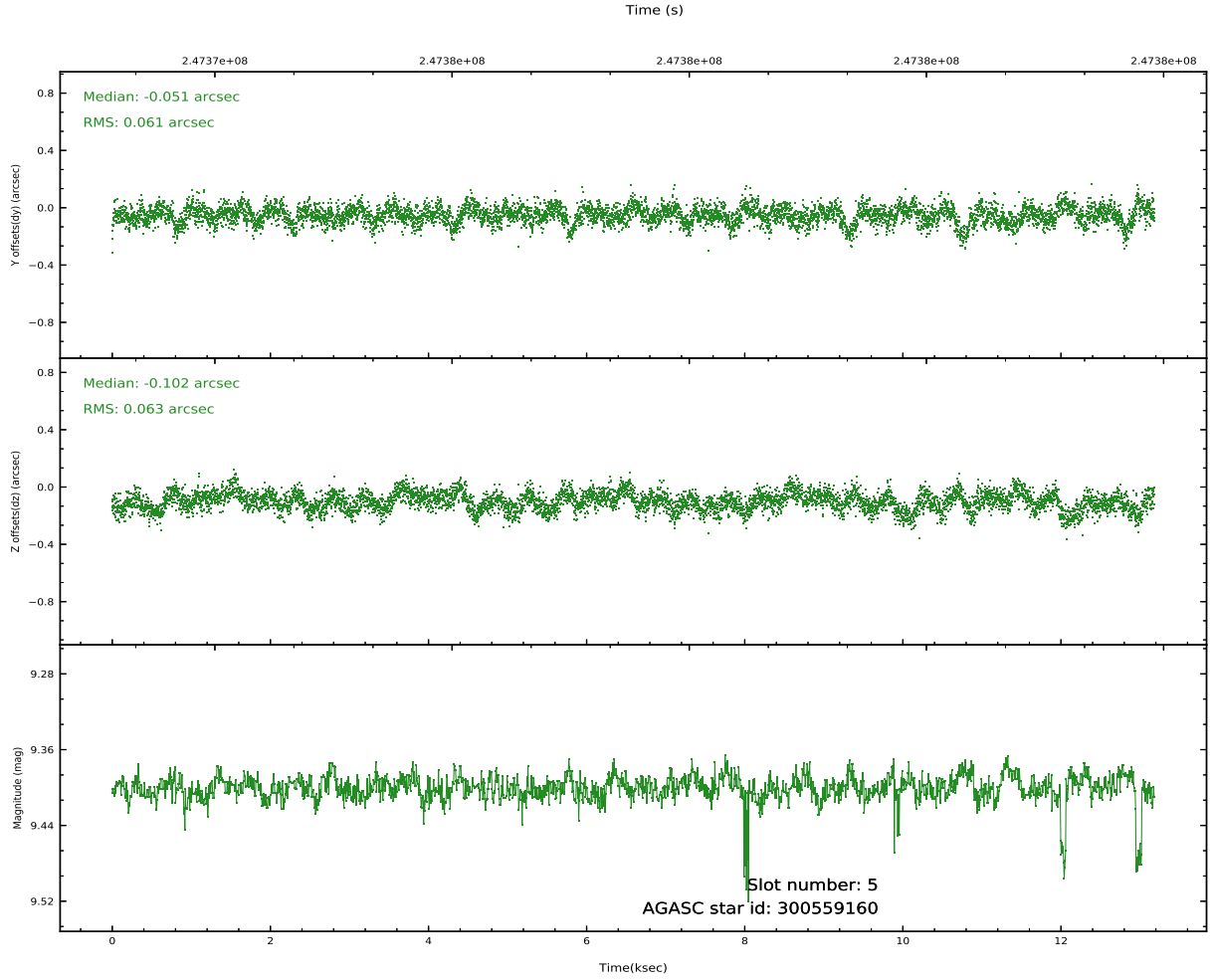
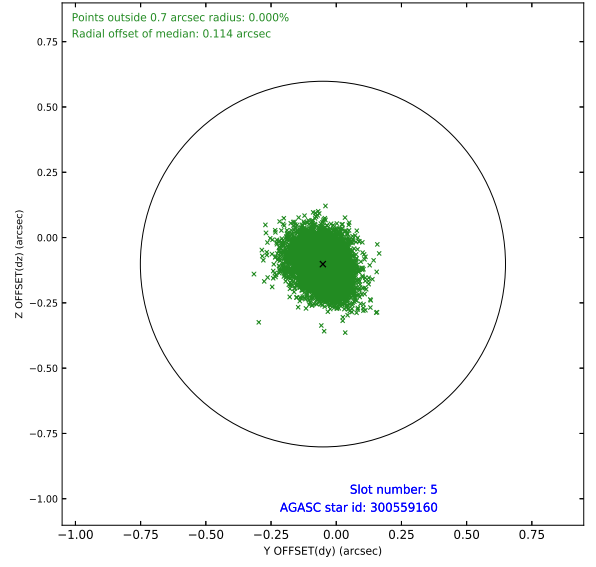
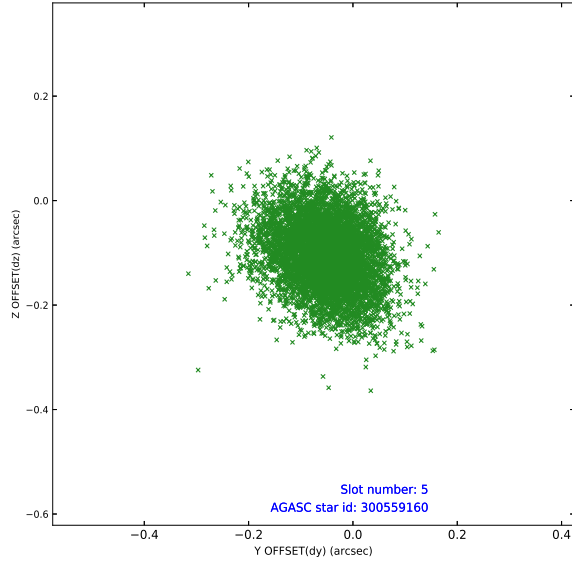
2.4.1 Slot 3



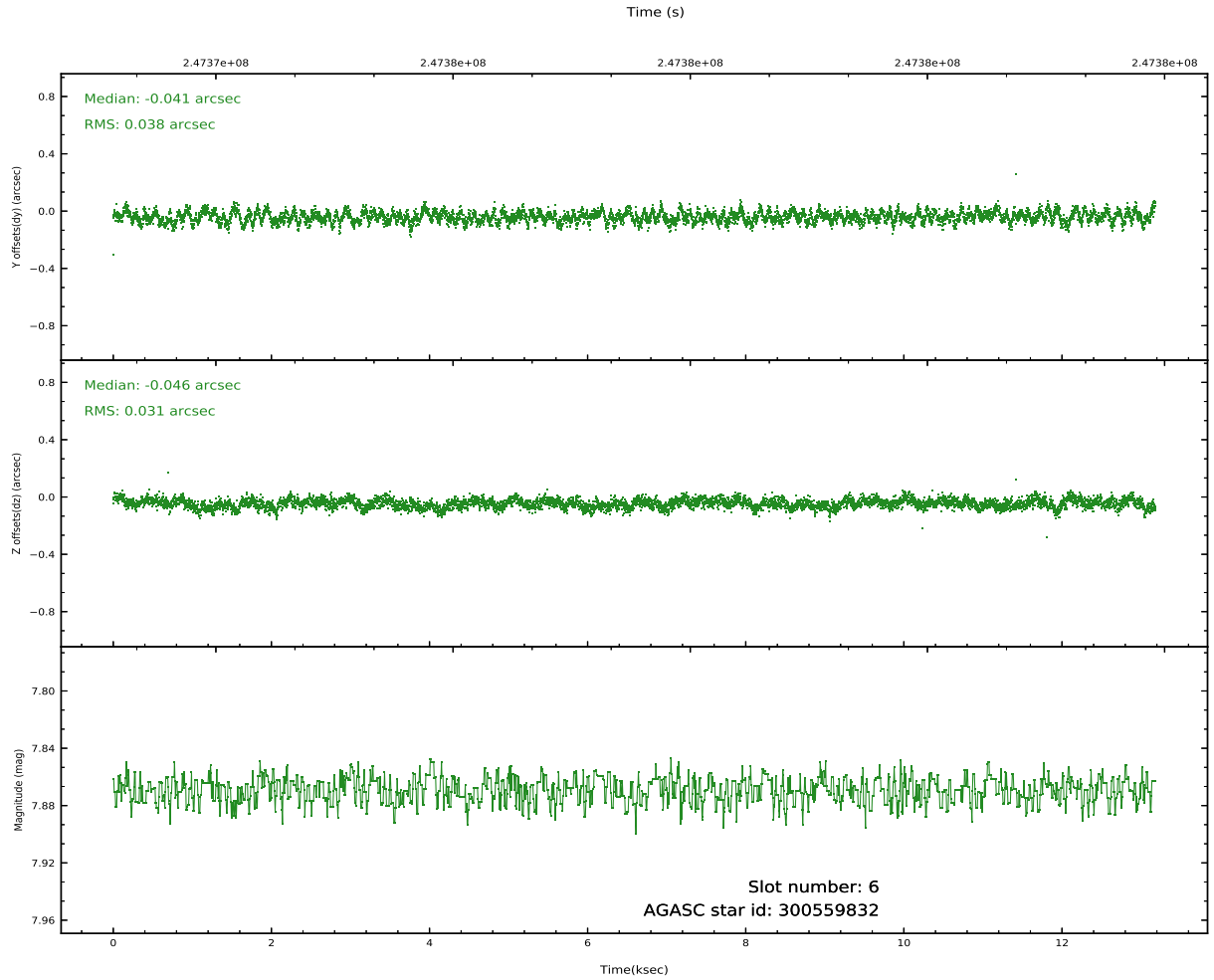
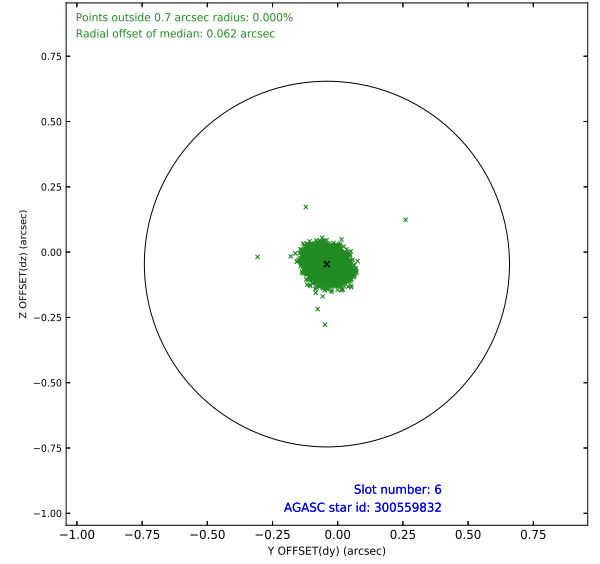
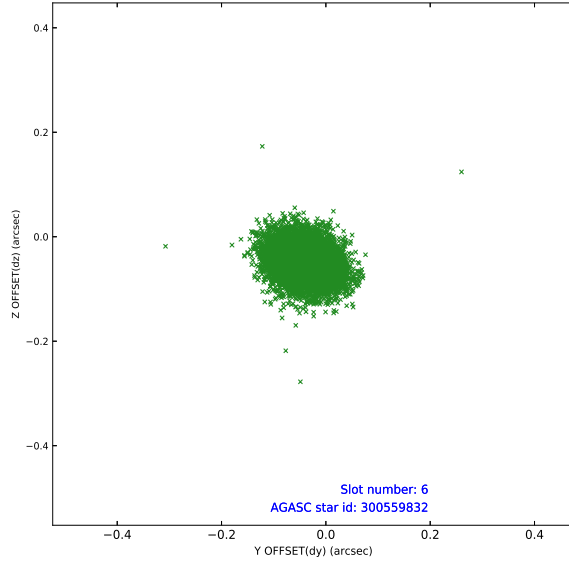
2.4.2 Slot 4



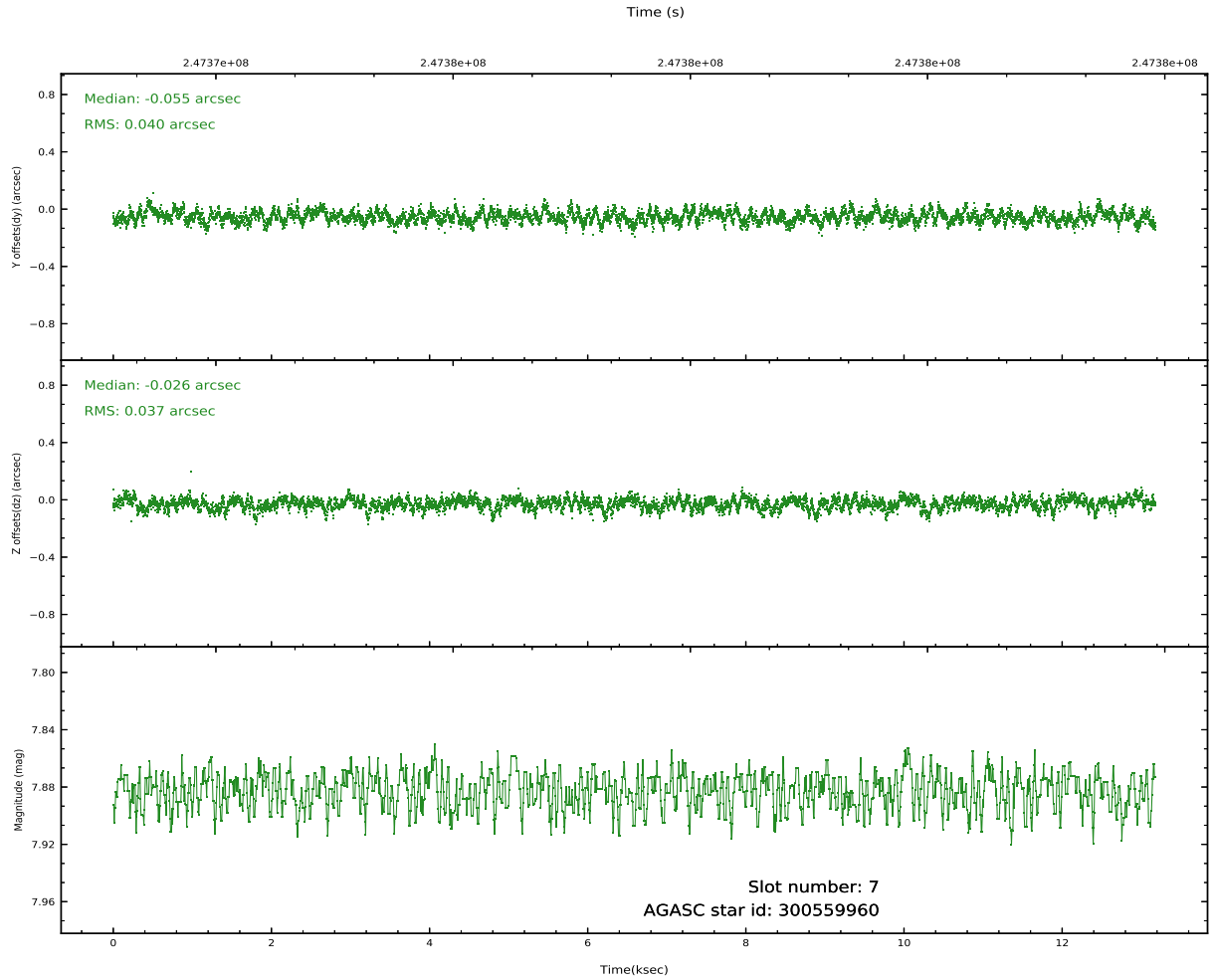
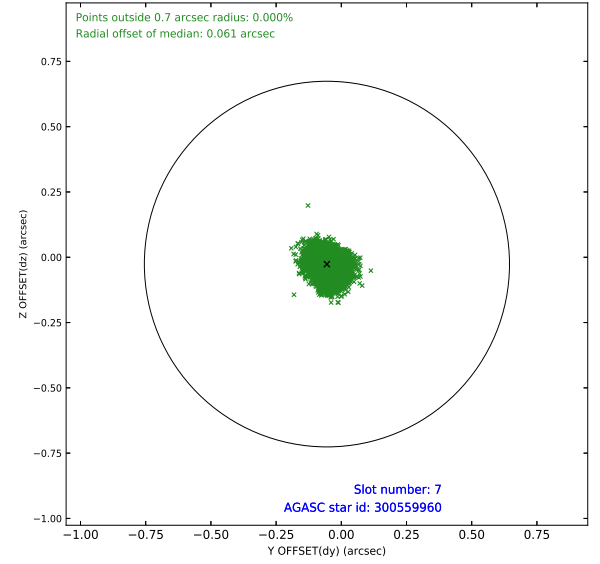
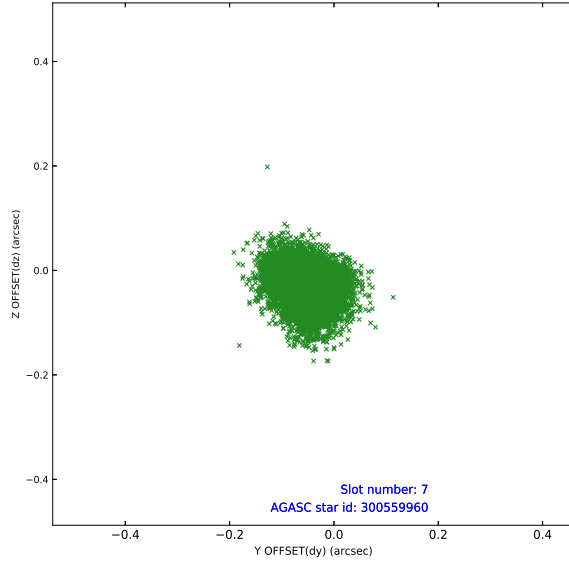
2.4.3 Slot 5



2.4.4 Slot 6

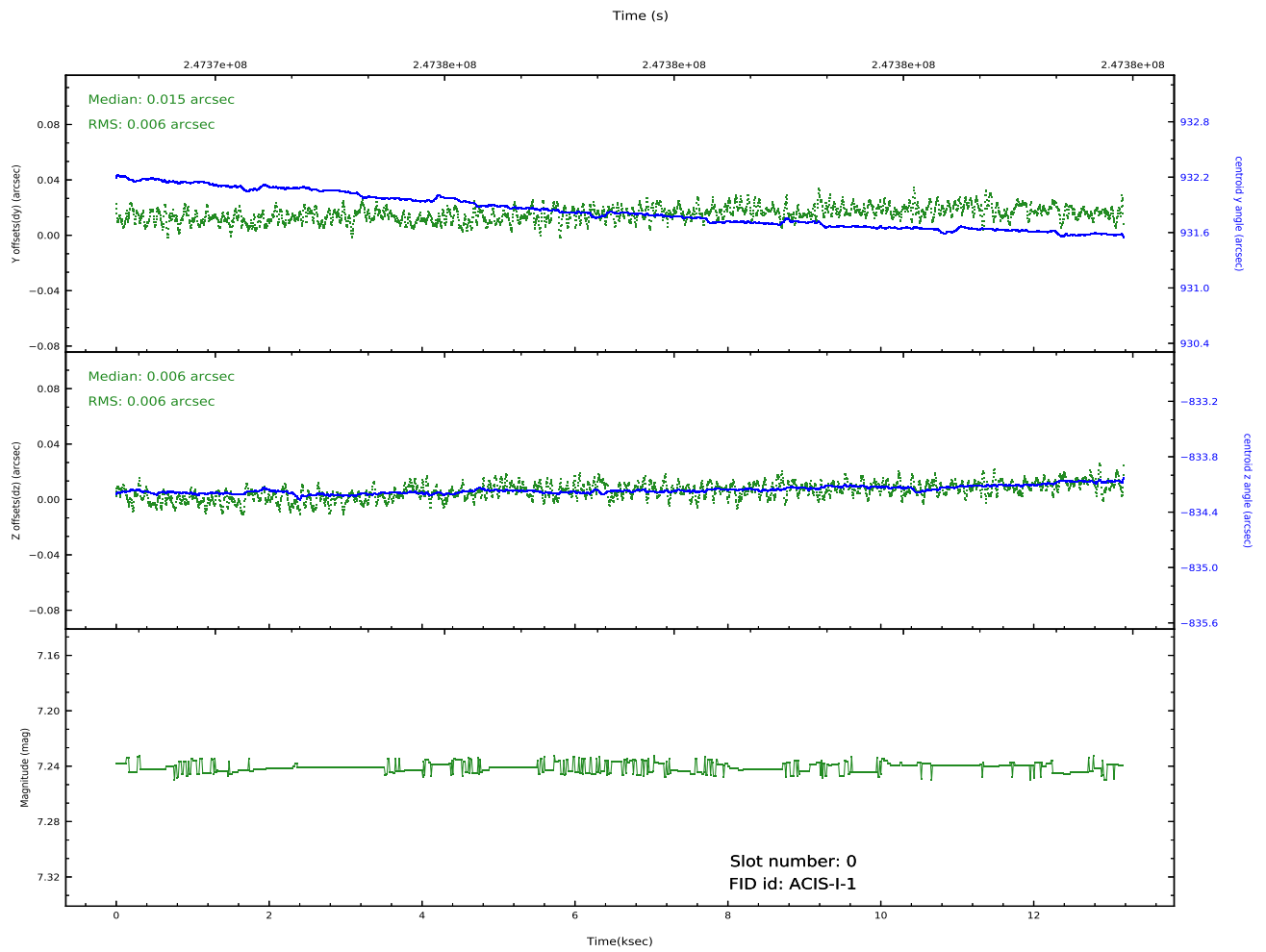
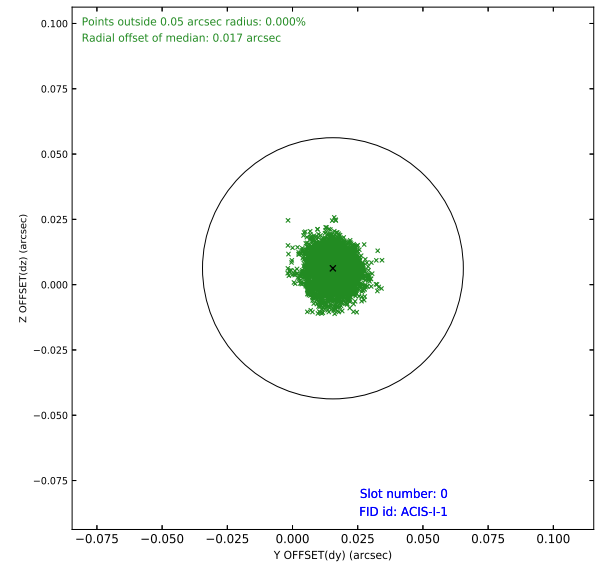
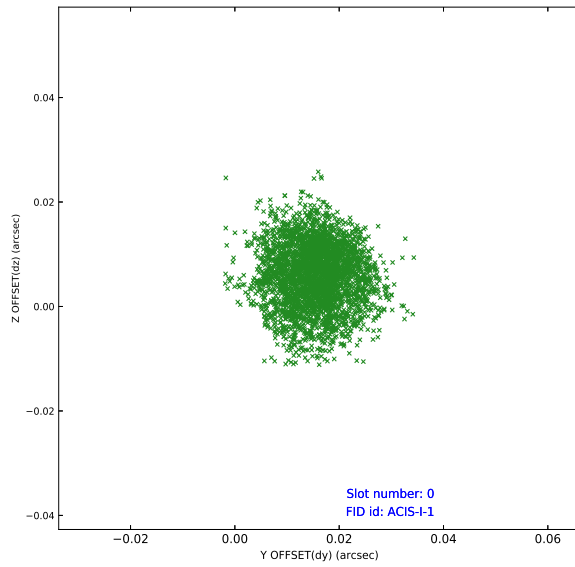


2.4.5 Slot 7

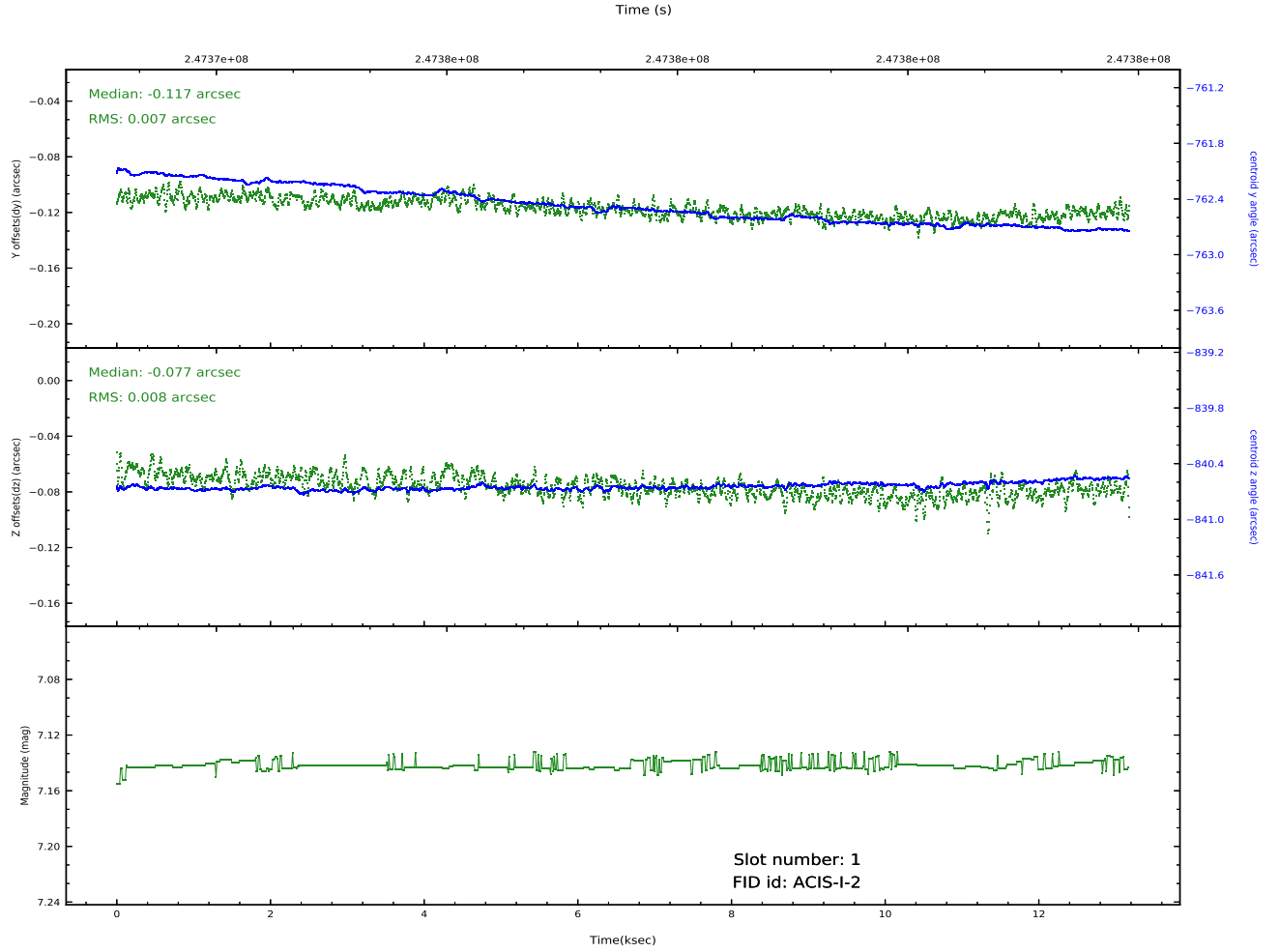
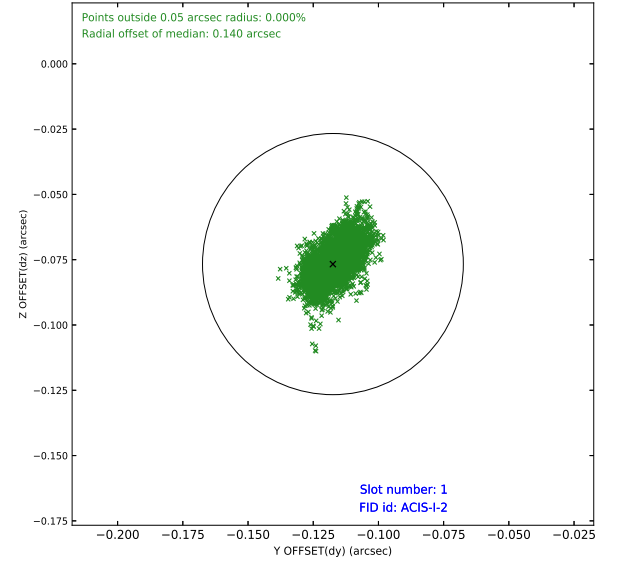
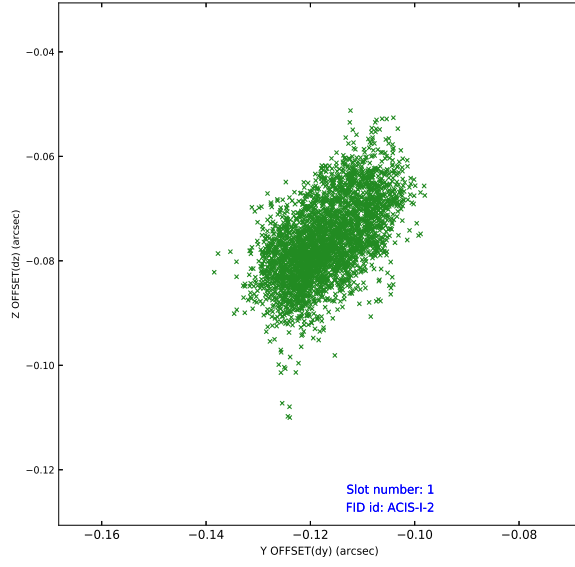


2.5 FID Slots

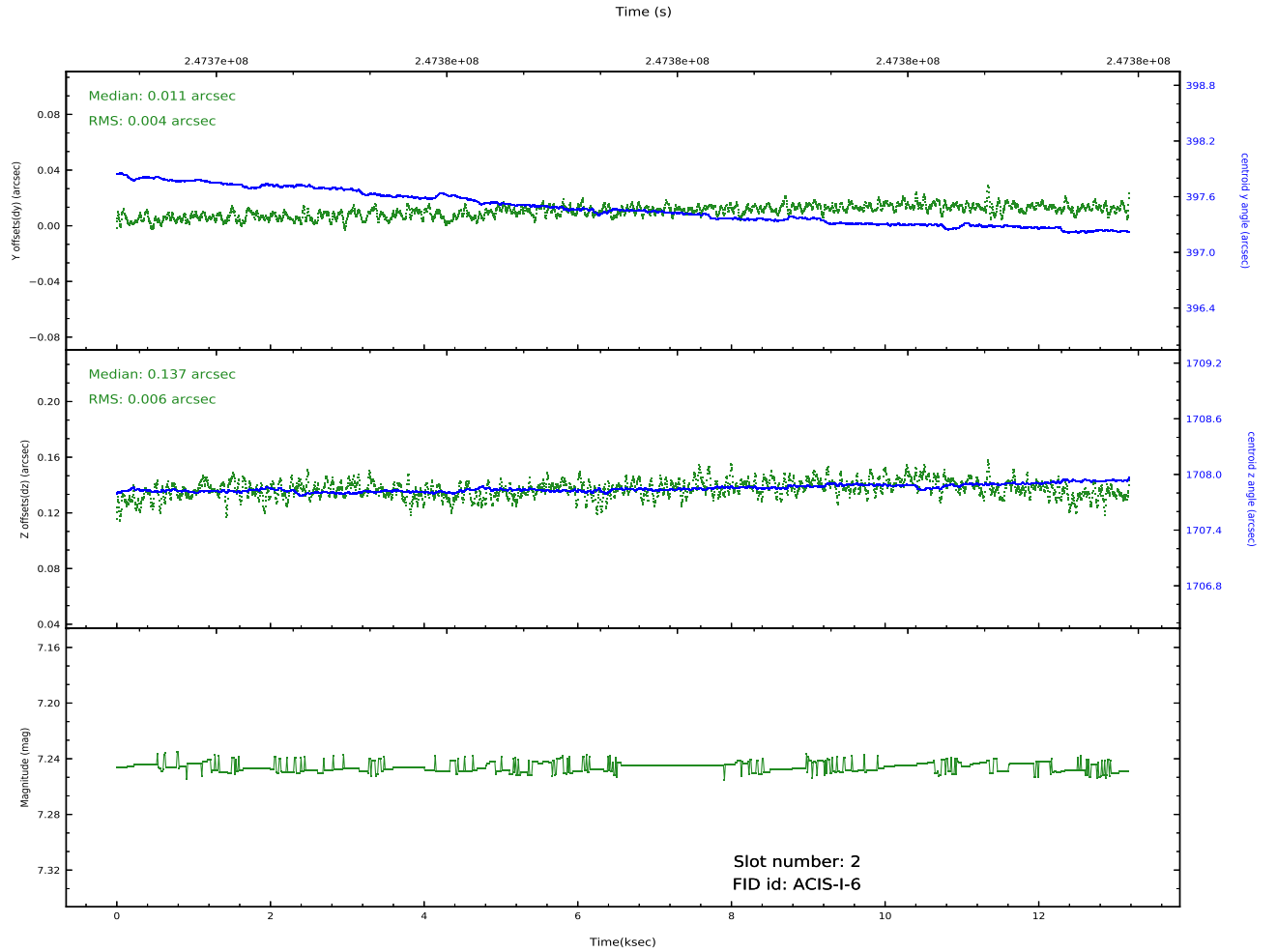
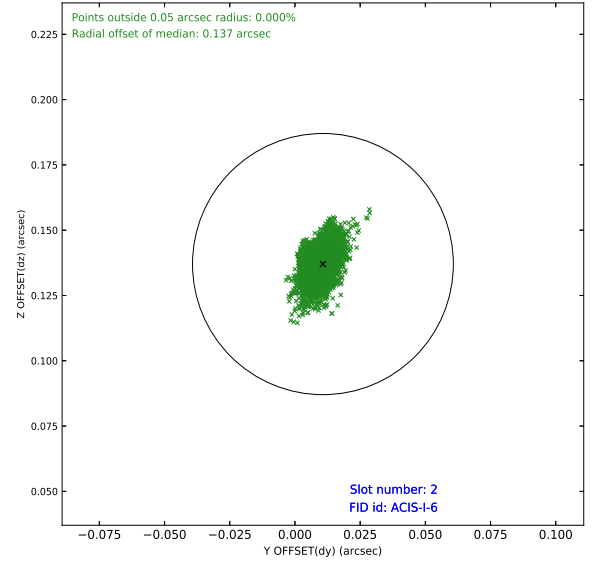
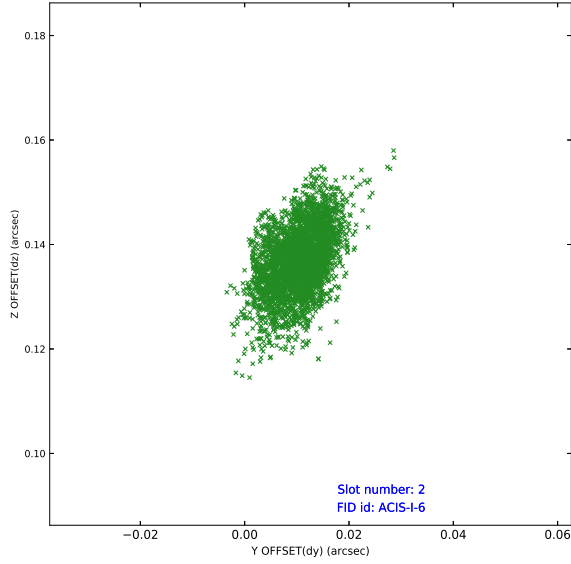
2.5.1 Slot 0



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	12.81271

A.2 Comments

Roll preference met.