

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 21035 - L2 Version 2
Chandra X-Ray Center

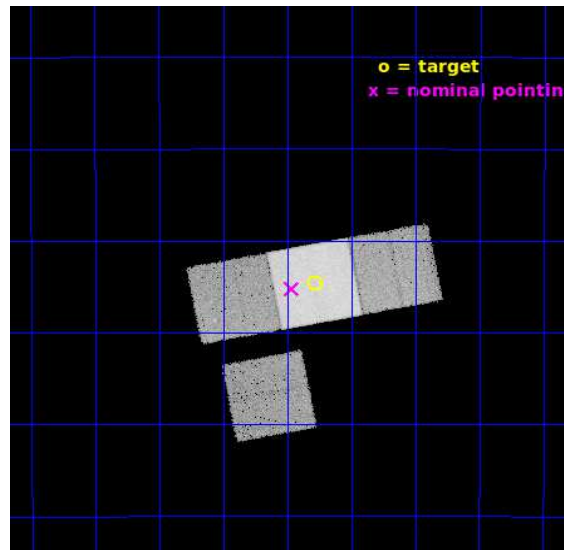
L2 Processing Date : Oct 24 2020

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1 Front

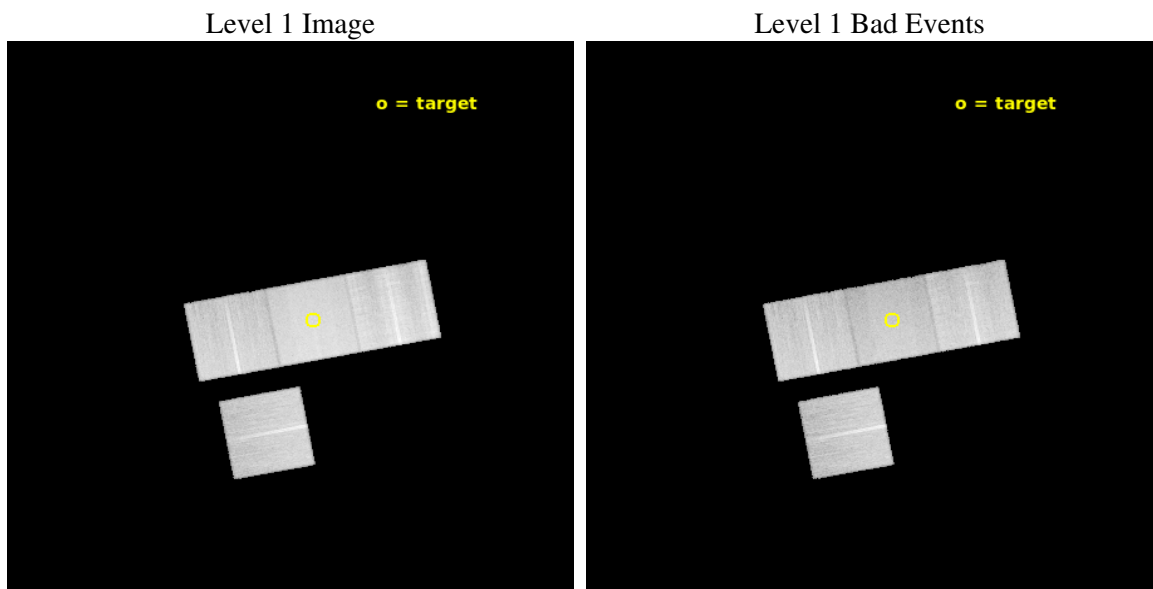
seq_num	601289	Sequence number
obs_id	21035	Observation id
title	A Statistically Robust Constraint on the Evolution of Field LMXBs	
observer	Bret Lehmer	Principal investigator
object	NGC 3585	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	168.32125	Observer's specified target RA [deg]
dec_targ	-26.745	Observer's specified target Dec [deg]
ra_nom	168.36614349362	Nominal RA [deg]
dec_nom	-26.753875068311	Nominal Dec [deg]
roll_nom	349.16823450231	Nominal Roll [deg]
revision	2	Processing version of data
ontime	30252.526253104	Sum of GTIs [s]
livetime	29857.254726022	Livetime [s]
ontime2	30249.262112856	Sum of GTIs [s]
ontime6	30252.485213161	Sum of GTIs [s]
ontime7	30252.526253104	Sum of GTIs [s]
ontime8	30249.303152919	Sum of GTIs [s]
l2events	191044	Number of level 2 events



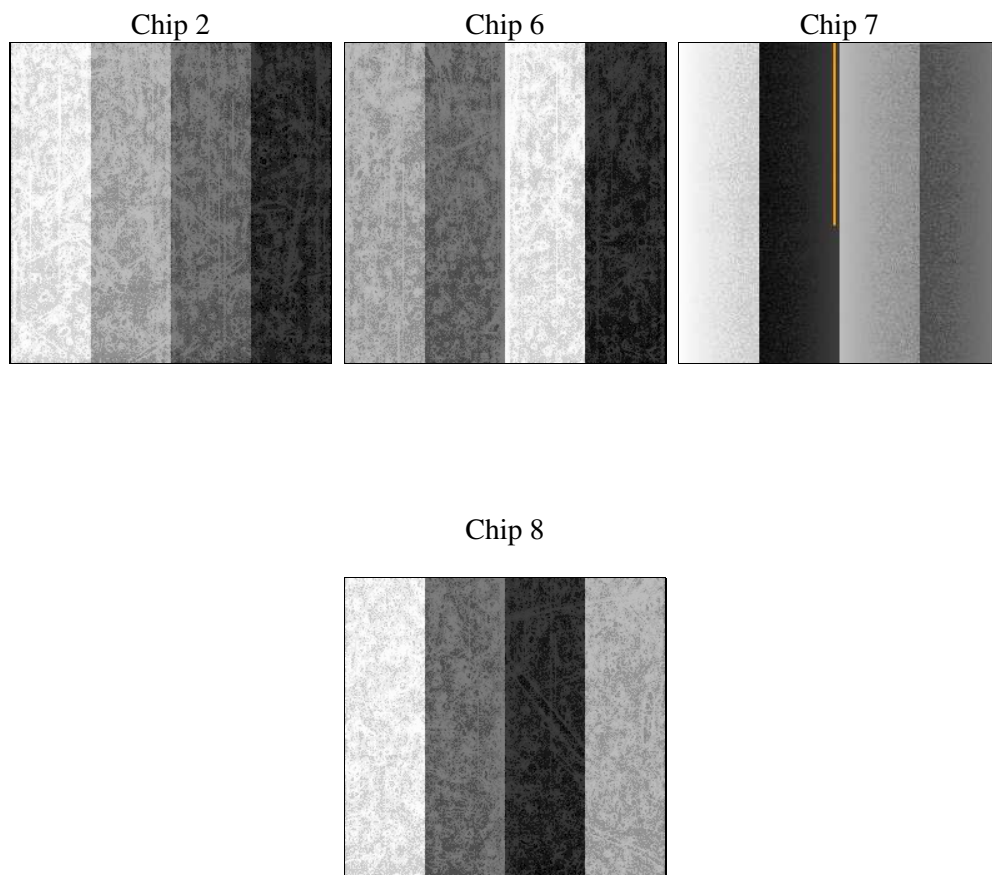
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30137.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	30252.526253104	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	30249.262112856	Sum of GTIs [s]
date	2020-10-25T03:26:49	Date and time of file creation	ontime6	30252.485213161	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	30252.526253104	Sum of GTIs [s]
			ontime8	30249.303152919	Sum of GTIs [s]
			l1events	1039817	Number of level 1 events

2.1.4 Events

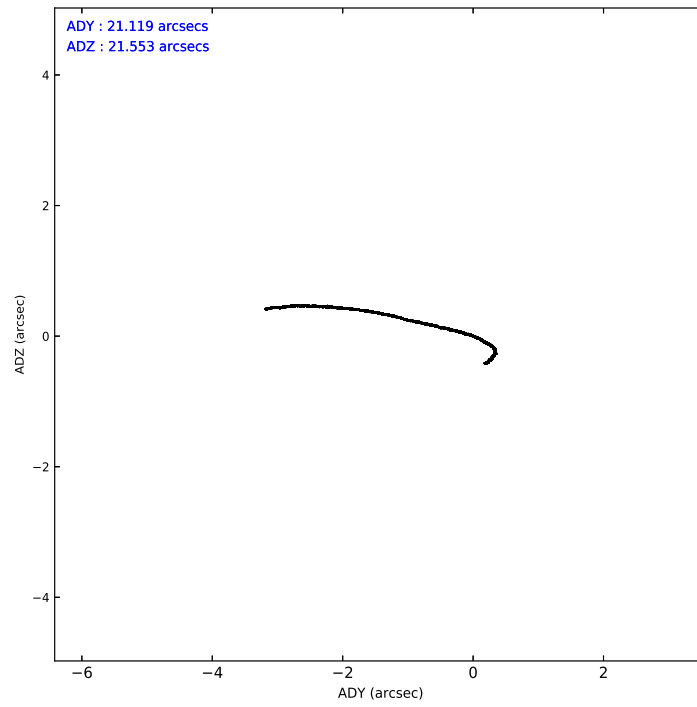
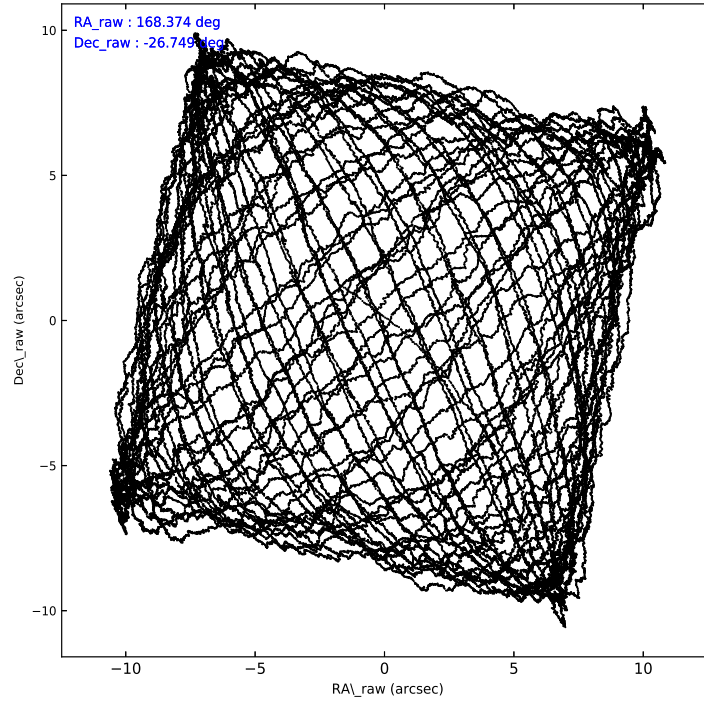
	ccd 2	ccd 6	ccd 7	ccd 8
level 1 events	216626	231714	290400	301077
rejected events	192829	205754	162816	218764
rejected %	89%	88%	56%	72%

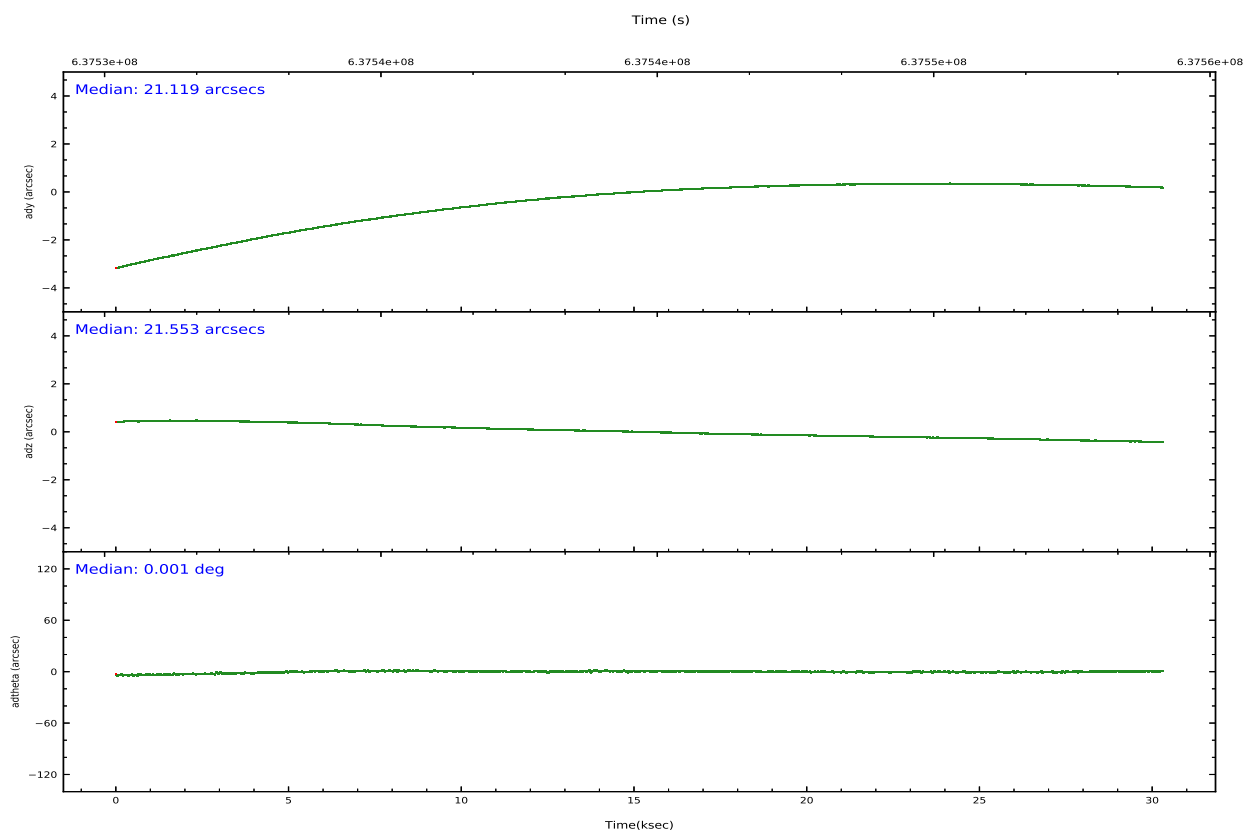
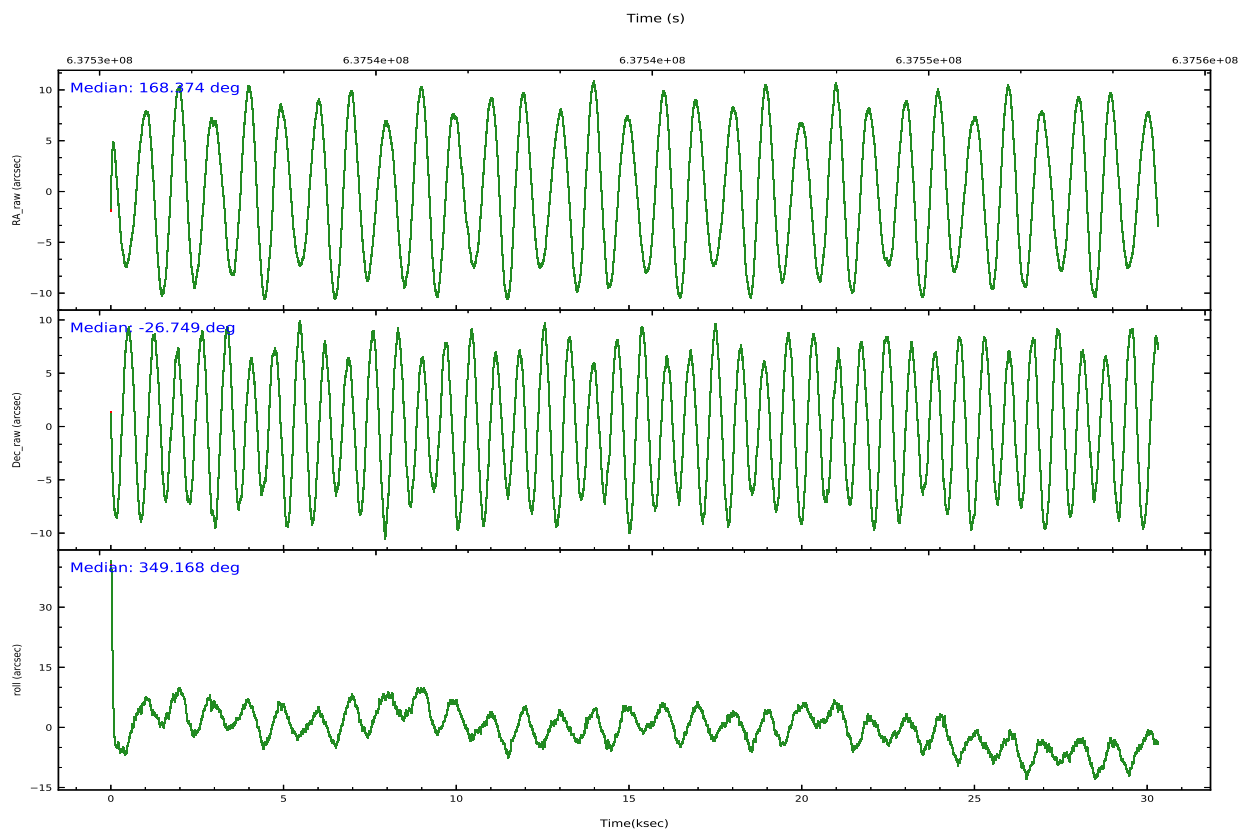
	ccd 2	ccd 6	ccd 7	ccd 8
grade 0 events	8191	8462	11035	22706
	3%	3%	3%	7%
grade 1 events	117	106	420	249
	0%	0%	0%	0%
grade 2 events	6098	6105	27201	20260
	2%	2%	9%	6%
grade 3 events	2323	2586	10340	8784
	1%	1%	3%	2%
grade 4 events	2367	2626	10150	8094
	1%	1%	3%	2%
grade 5 events	9149	10920	29124	16400
	4%	4%	10%	5%
grade 6 events	4820	6187	68888	22503
	2%	2%	23%	7%
grade 7 events	183561	194722	133242	202081
	84%	84%	45%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-2678	ACIS-2678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	168.345172	168.36614349362	CCD I2 on	O2	Y
[deg] Pointing Dec	-26.758278	-26.753875068311	CCD I3 on	O1	N
[deg] Pointing Roll	349.010761	349.16823450231	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	637528505.184000	637527435.62752	CCD S5 on	N	N
Observation start date	2018-03-15T19:13:56	2018-03-15T18:57:15	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	637558642.184000	637560053.69195	On-chip summing requested	N	N
Observation end date	2018-03-16T03:36:13	2018-03-16T04:00:53	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



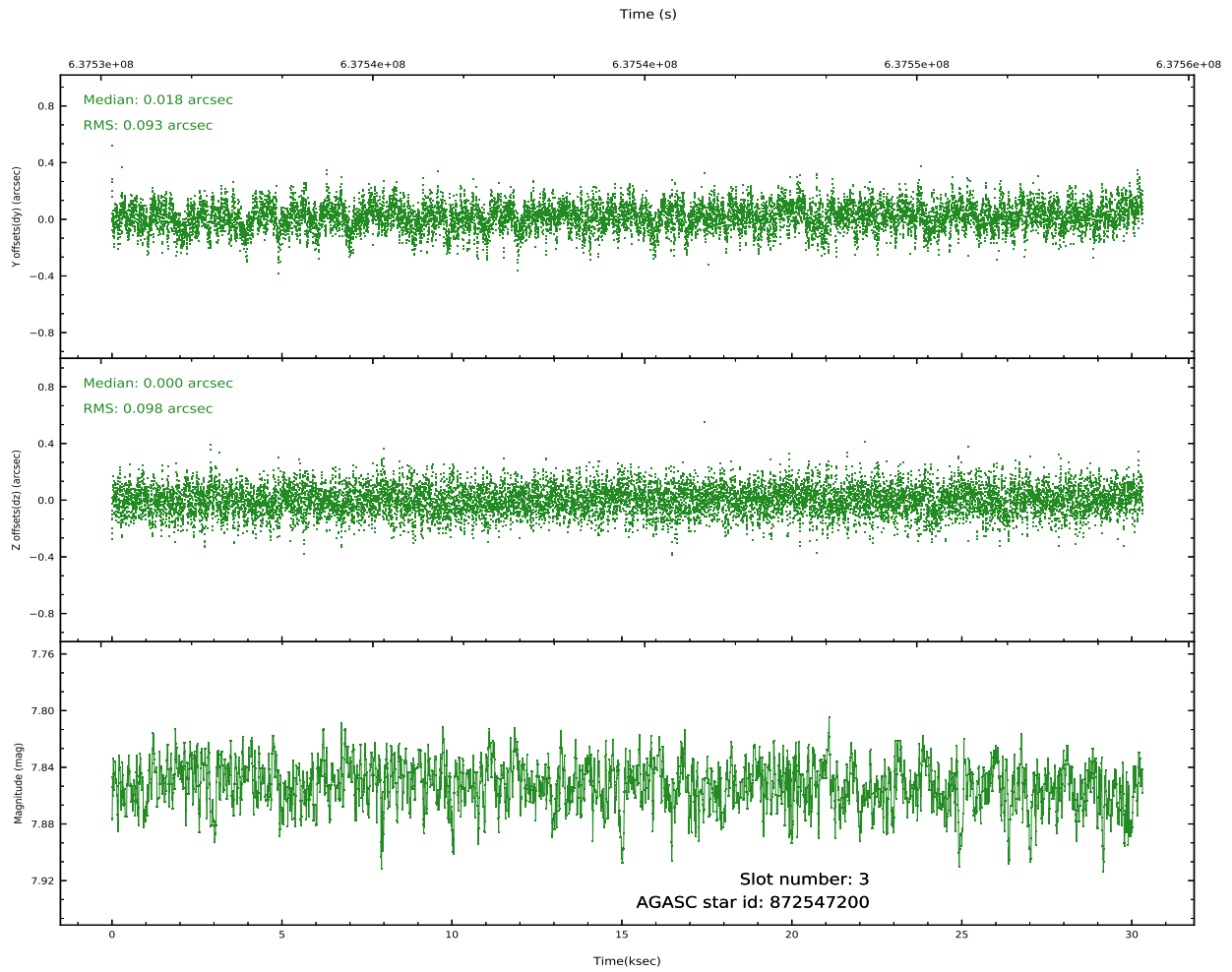
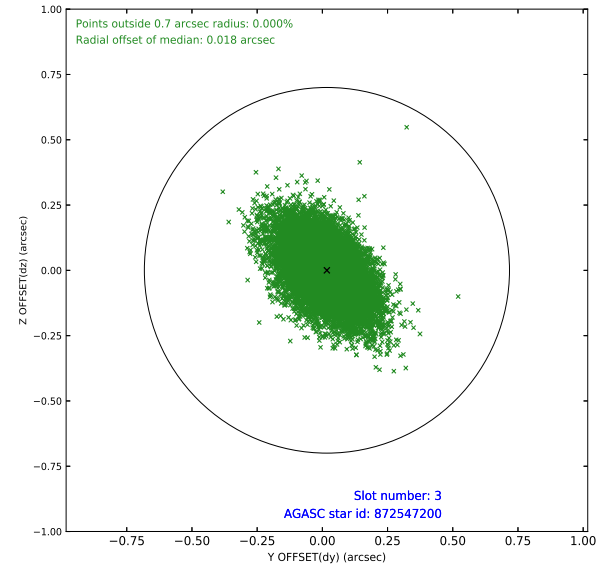
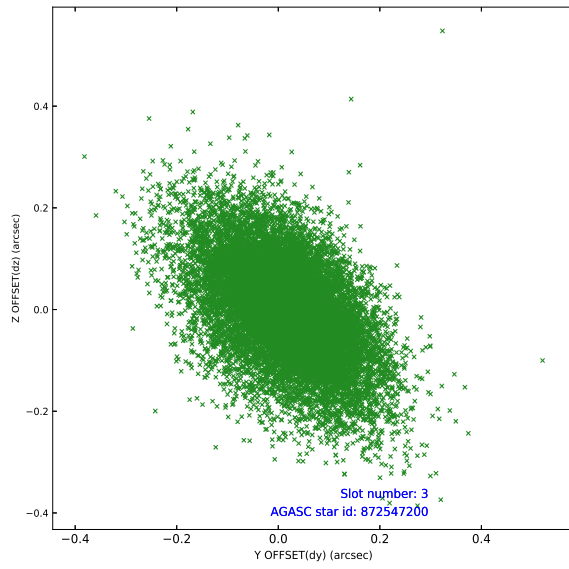


Slot Statistics

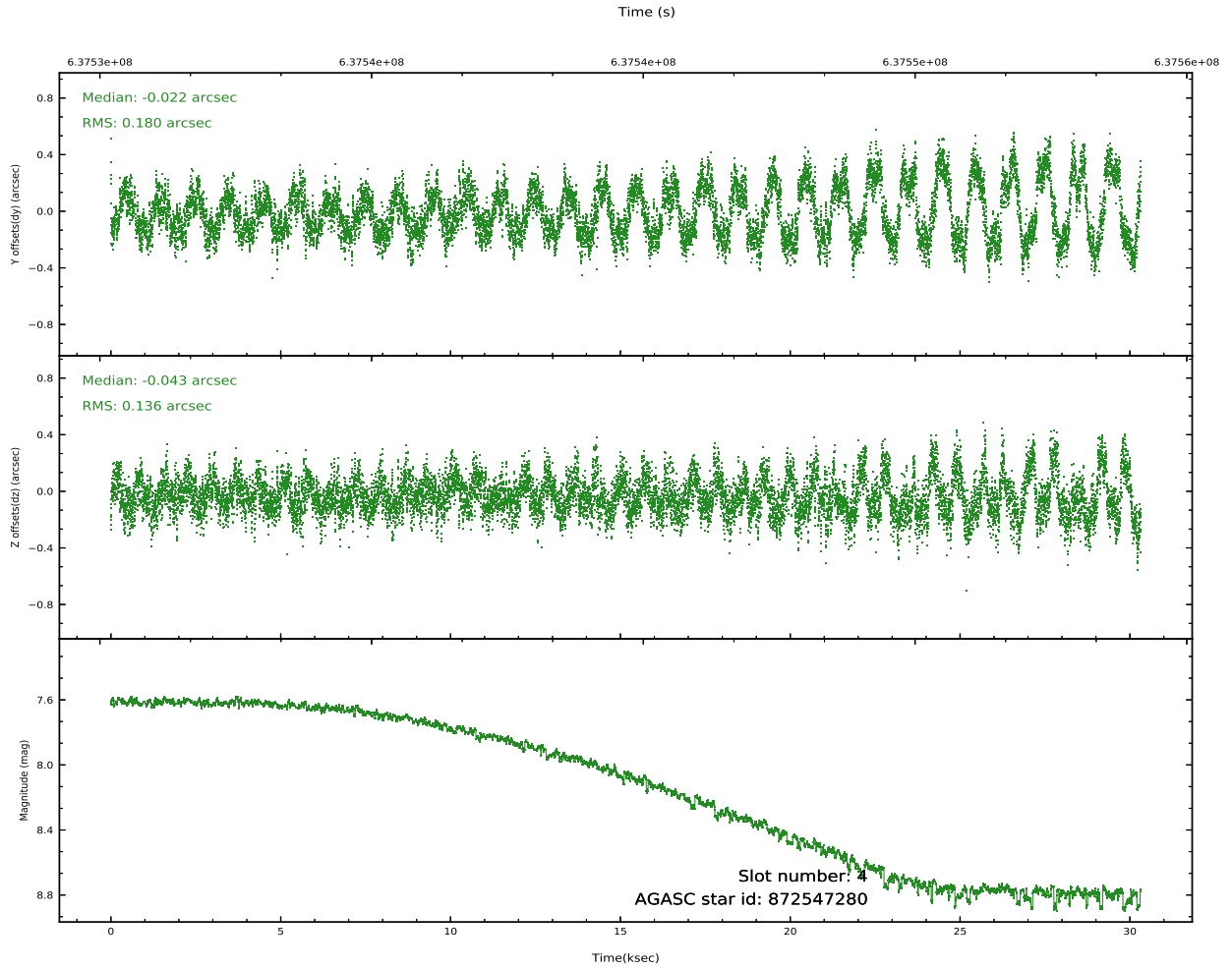
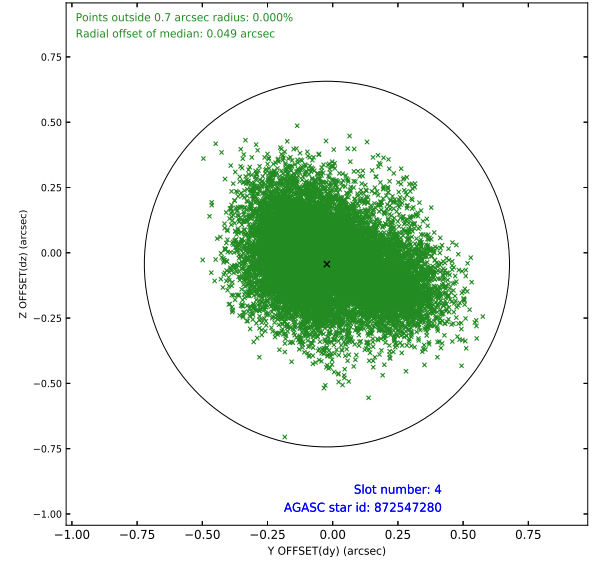
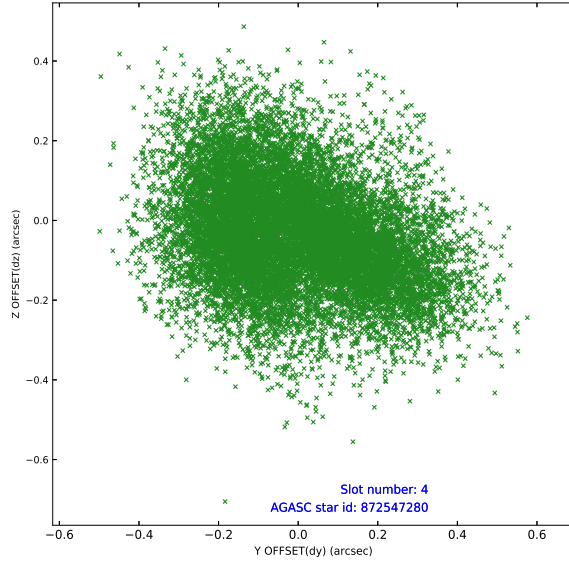
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.06	7395	1.000	0.298	-0.196	0.024	0.037	0.000000	0.000000	922.39	-1739
1	FID		ACIS-S-5	7.09	7395	1.000	-0.212	0.244	0.019	0.043	0.000000	0.000000	-1826.86	159
2	FID		ACIS-S-6	7.24	7395	1.000	-0.110	-0.031	0.025	0.050	0.000000	0.000000	387.77	802
3	GUIDE	used	872547200	7.85	14785	1.000	0.018	0.000	0.139	0.243	168.685987	-27.308159	1447.74	-1736
4	GUIDE	used	872547280	8.07	14787	1.000	-0.022	-0.043	0.240	0.387	168.302072	-26.465072	-337.48	1009
5	GUIDE	used	872548824	7.89	14783	1.000	0.014	0.088	0.140	0.244	168.573824	-27.061456	927.92	-931
6	GUIDE	used	872549104	8.06	14778	1.000	-0.074	0.014	0.130	0.235	168.431052	-26.854580	336.89	-287
7	GUIDE	used	872551816	8.74	14780	1.000	0.041	-0.063	0.196	0.314	168.963115	-26.911825	2054.09	-168

2.4 Star Slots

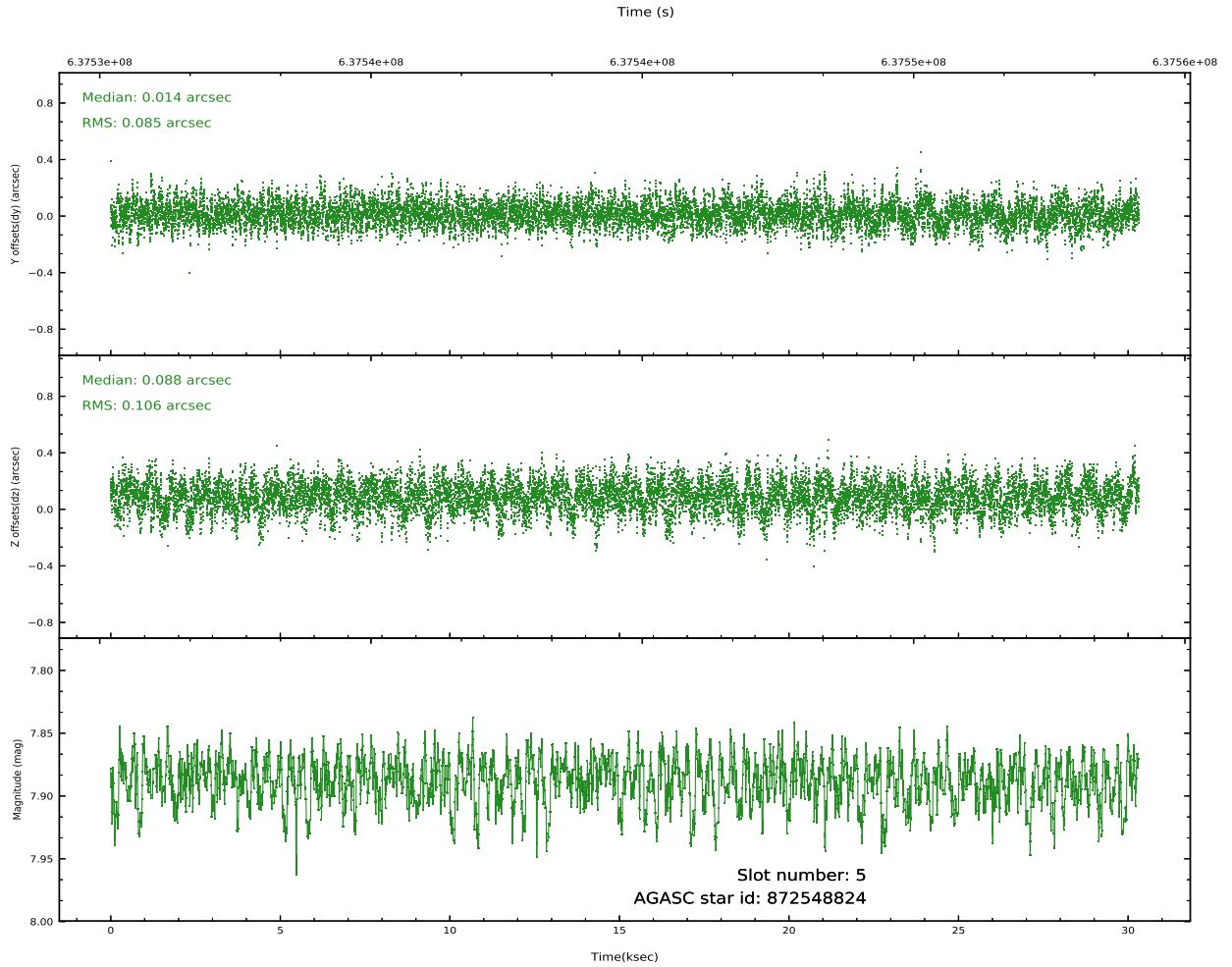
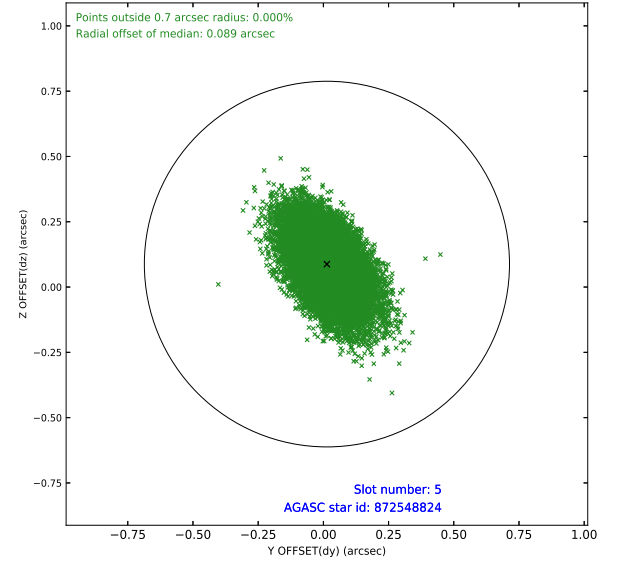
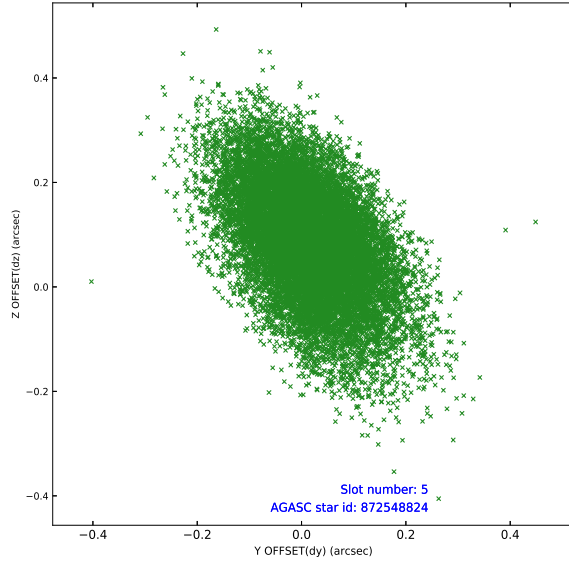
2.4.1 Slot 3



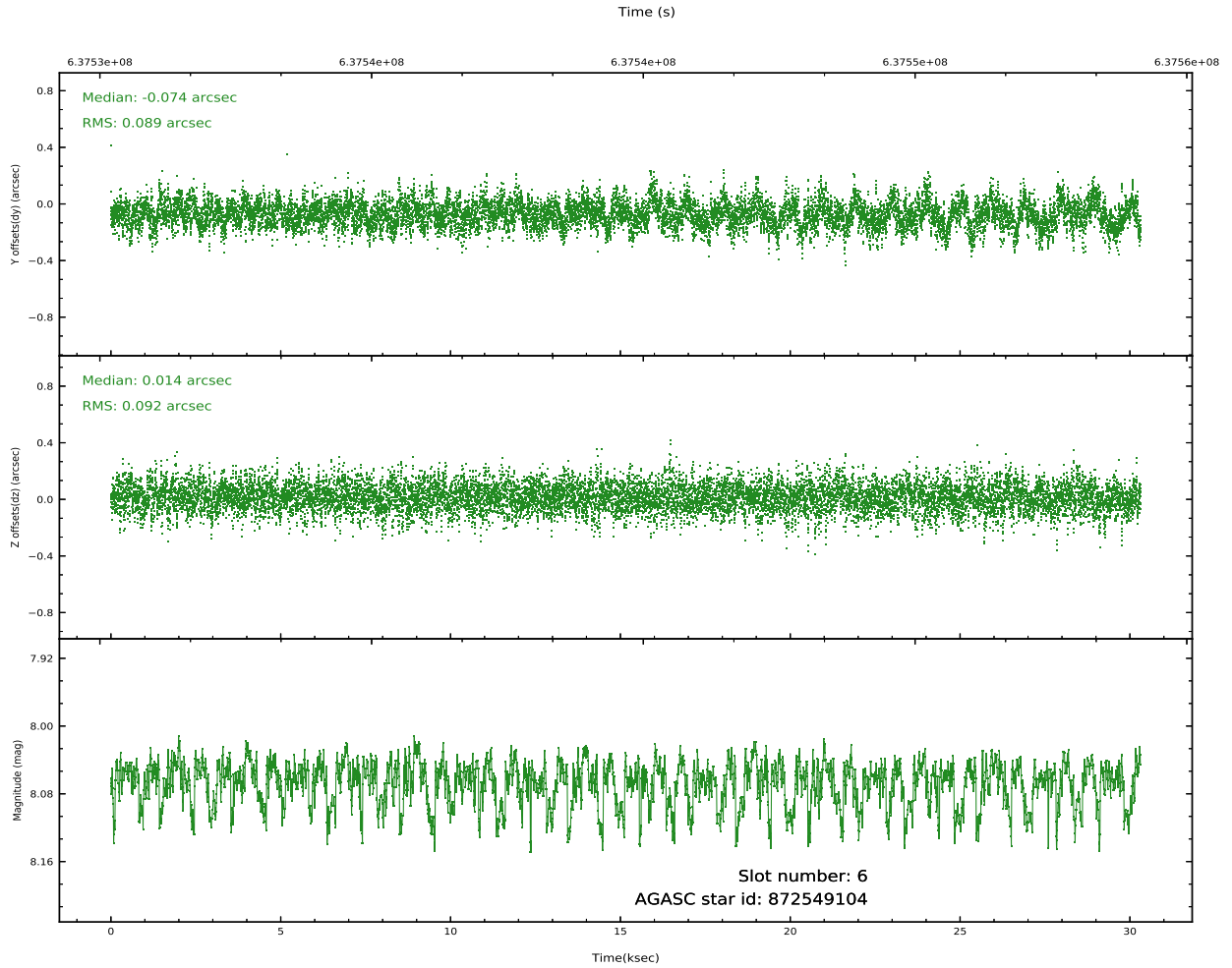
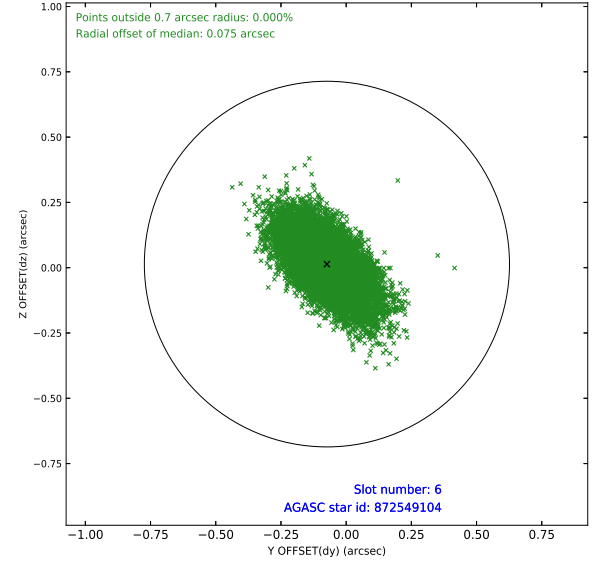
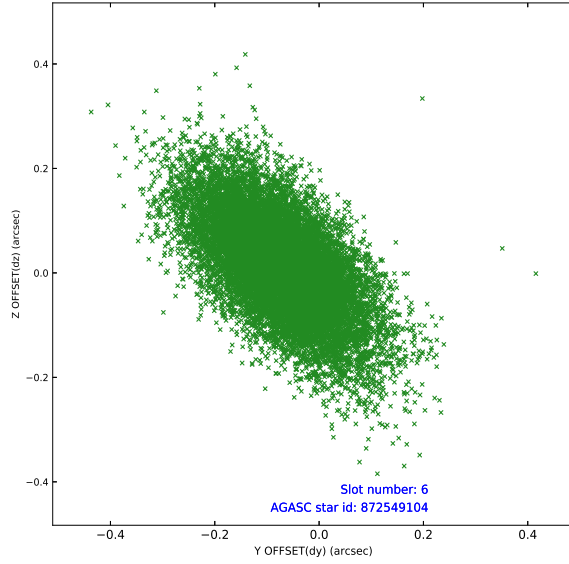
2.4.2 Slot 4



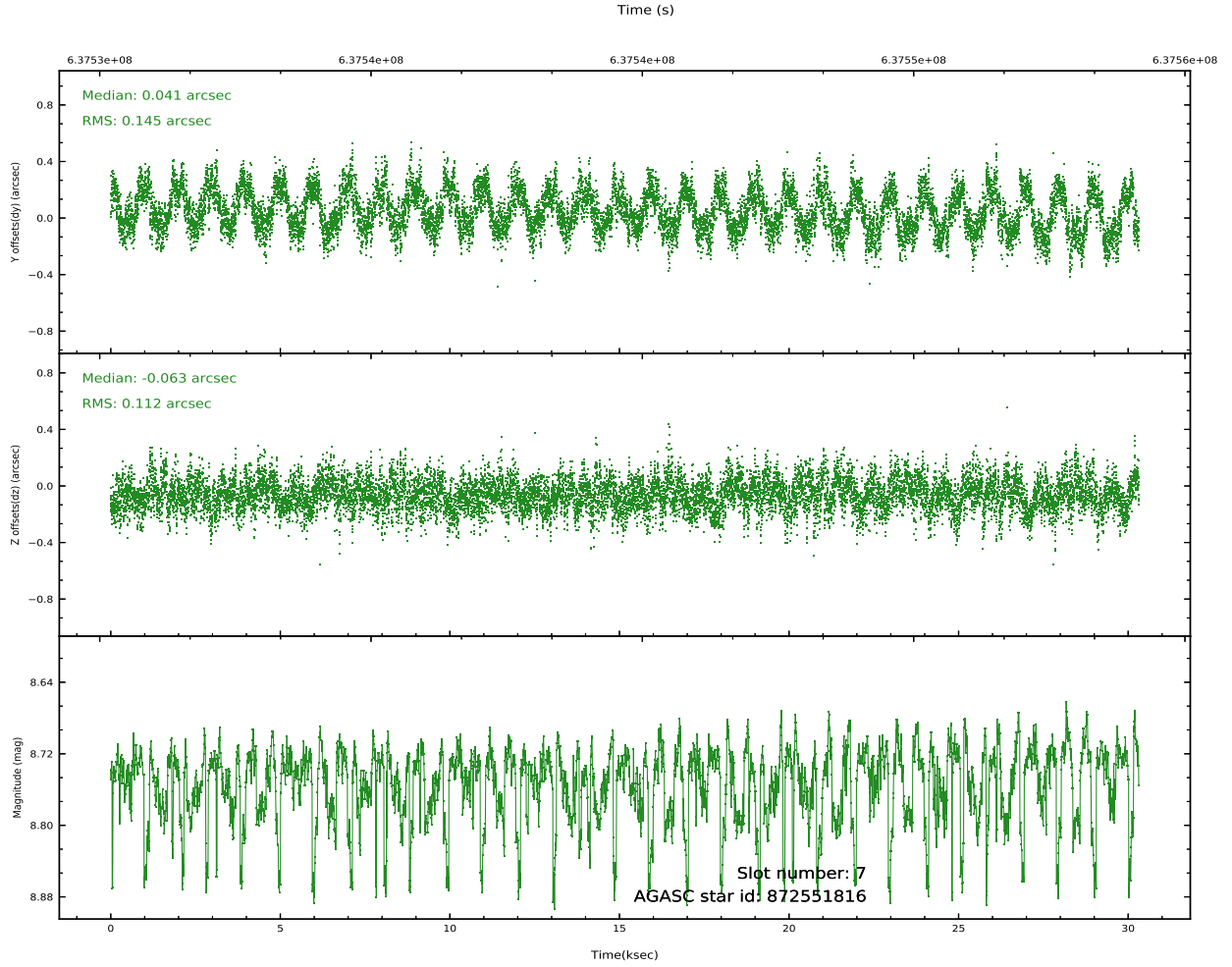
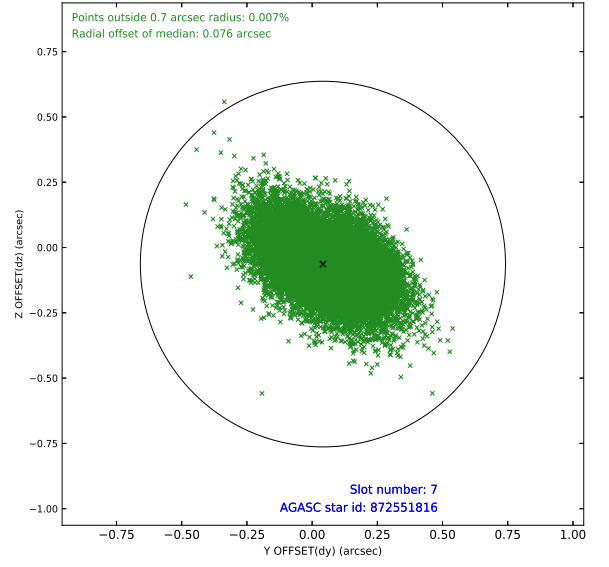
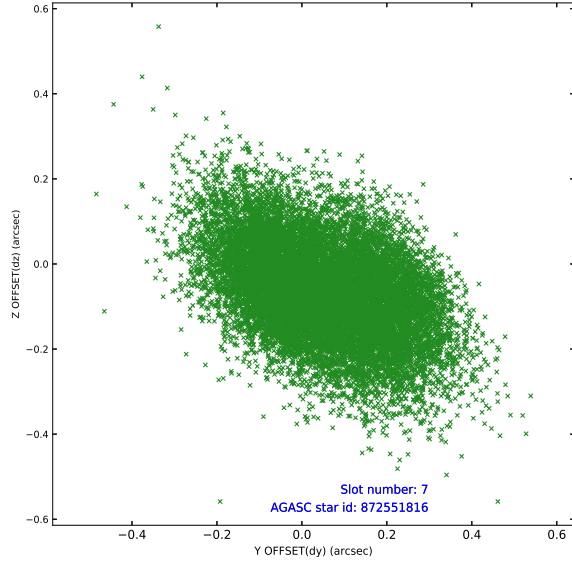
2.4.3 Slot 5



2.4.4 Slot 6

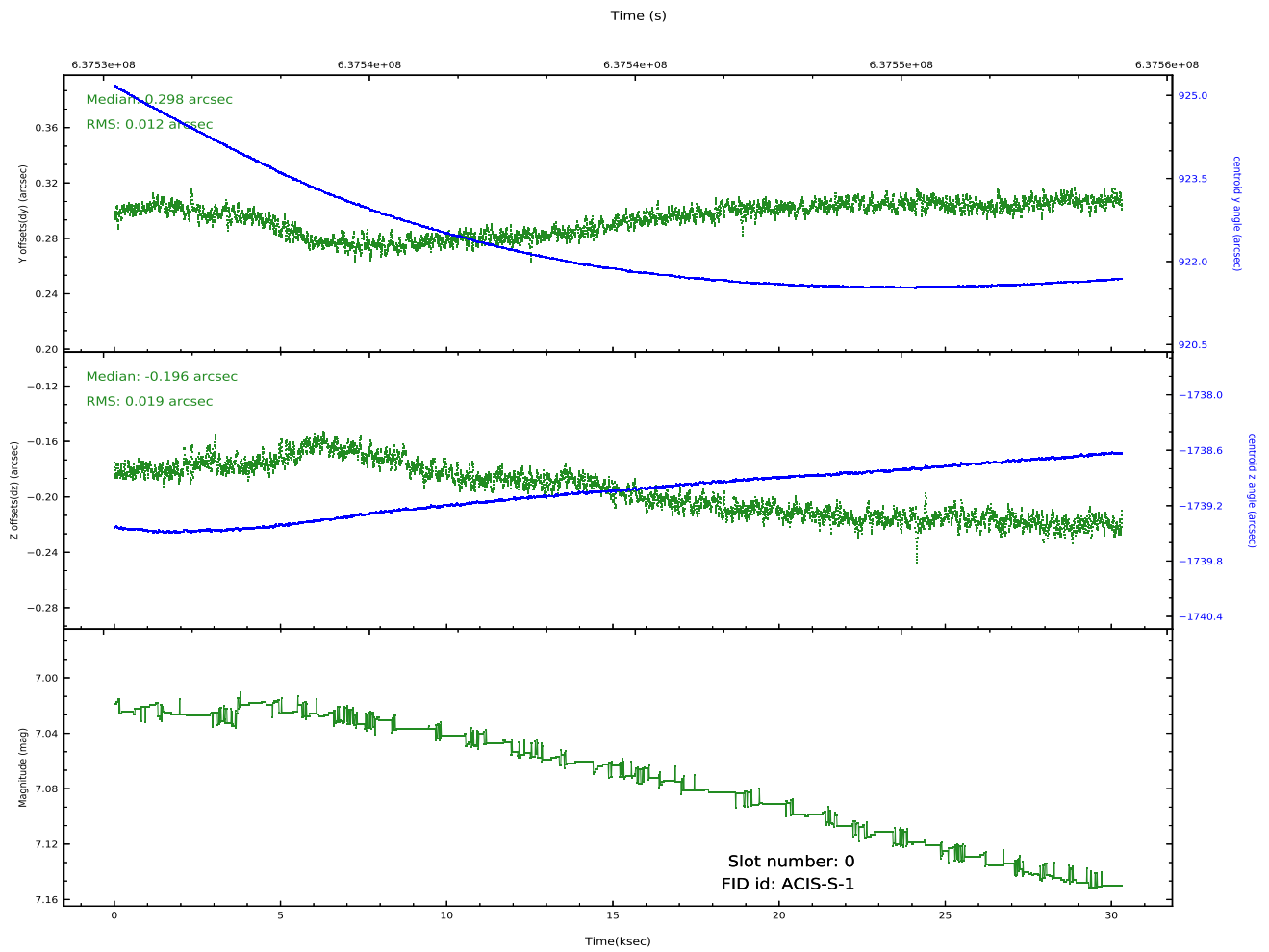
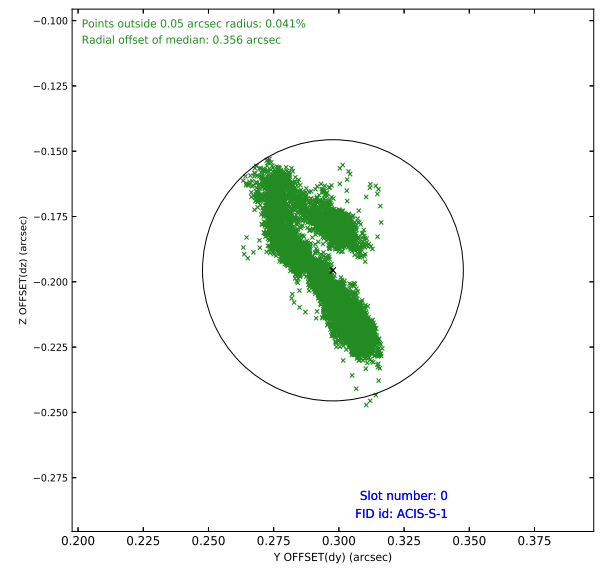
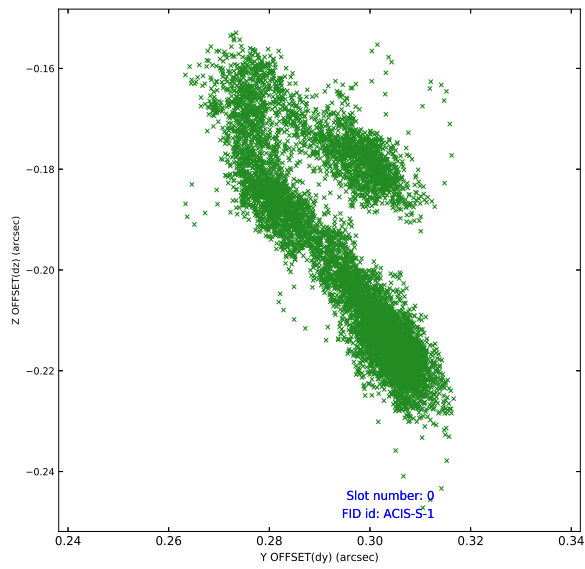


2.4.5 Slot 7

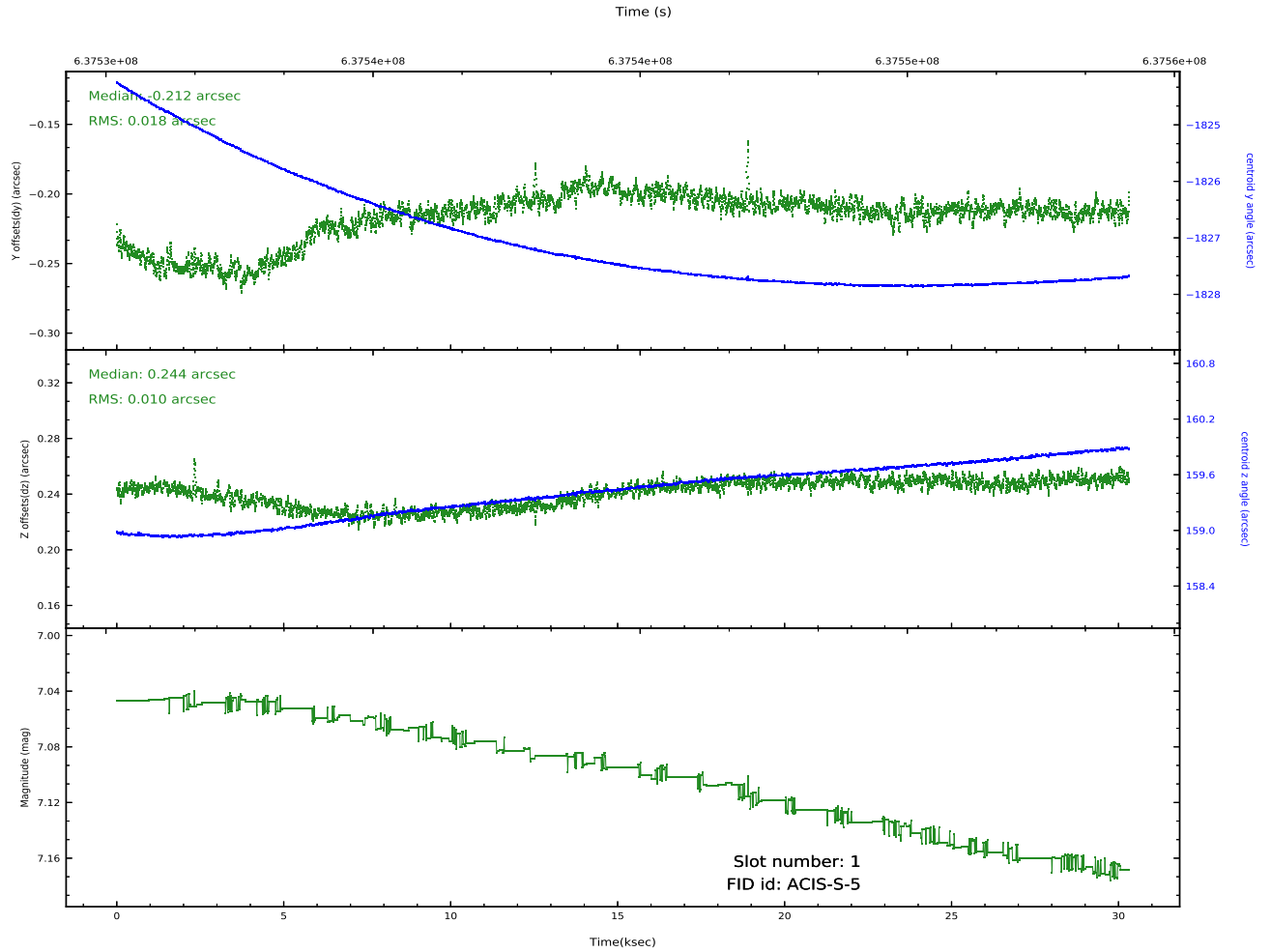
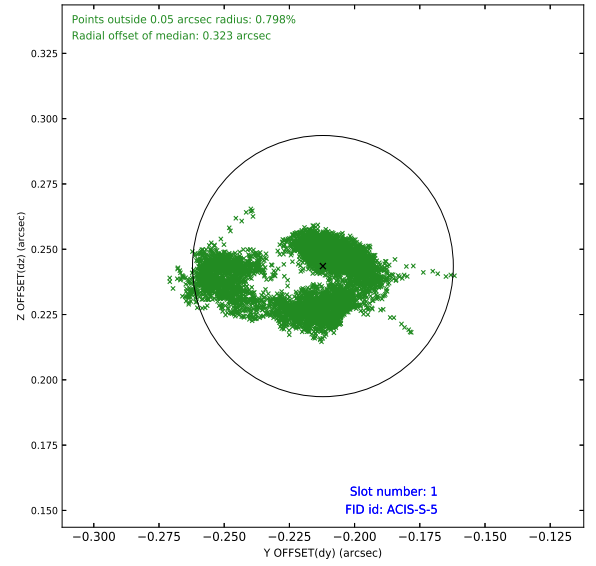
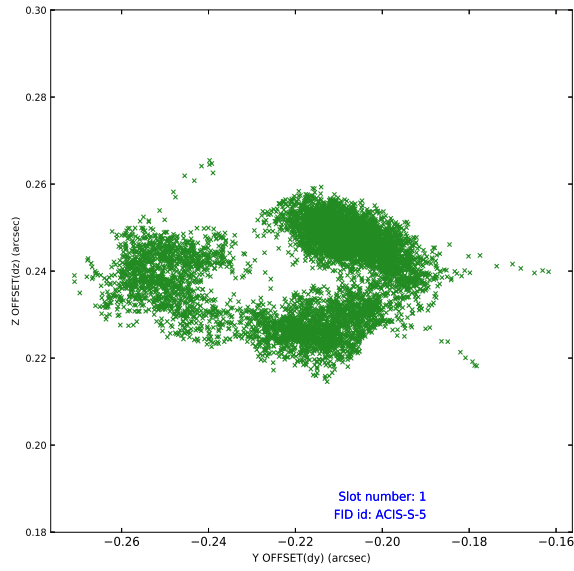


2.5 FID Slots

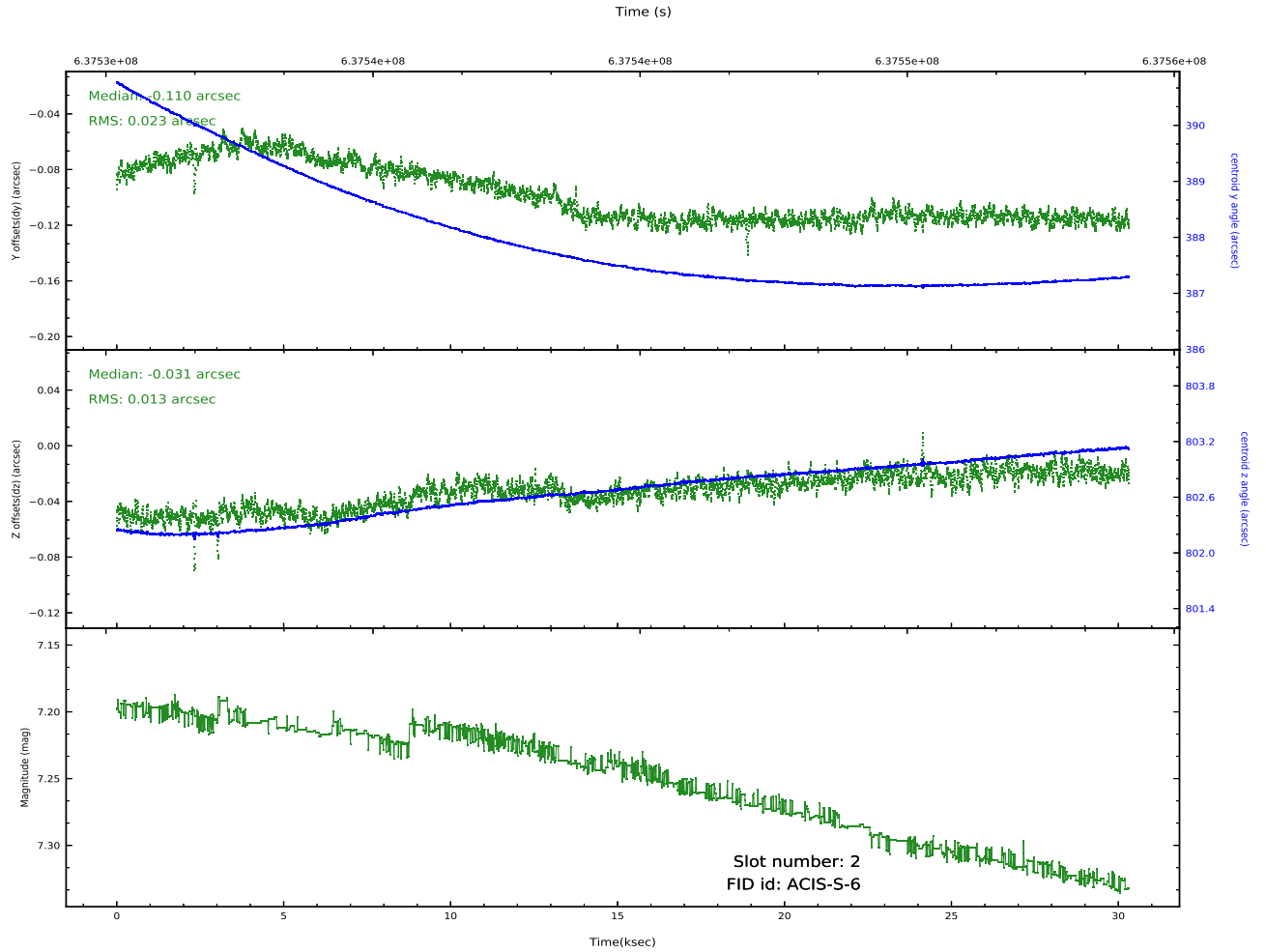
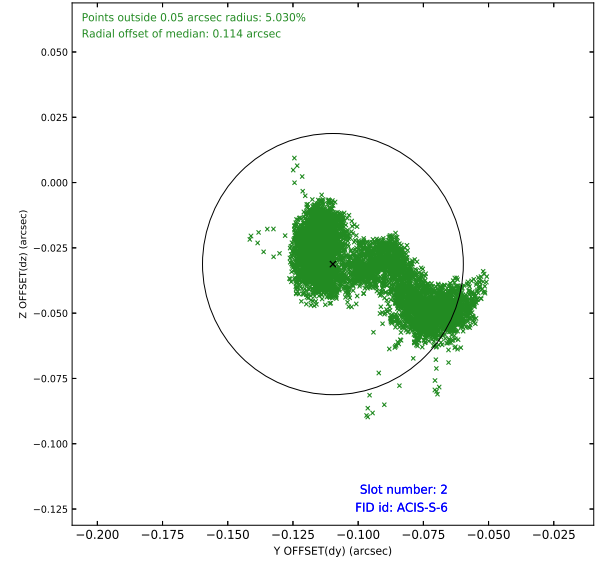
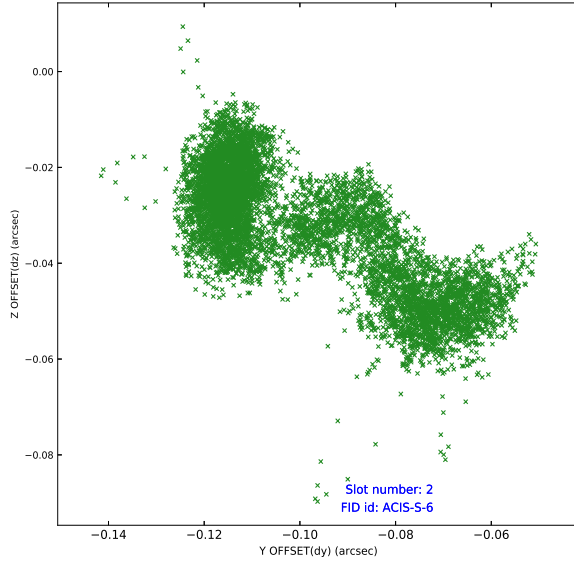
2.5.1 Slot 0



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)	2020.10.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.252526251078

A.2 Comments

Joint Proposal with HST. Optional chip I3 not included.