

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 21034 - L2 Version 2
Chandra X-Ray Center

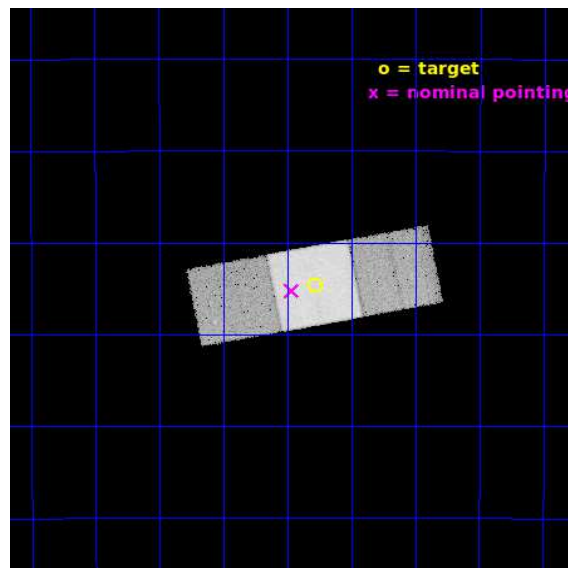
L2 Processing Date : Oct 24 2020

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1 Front

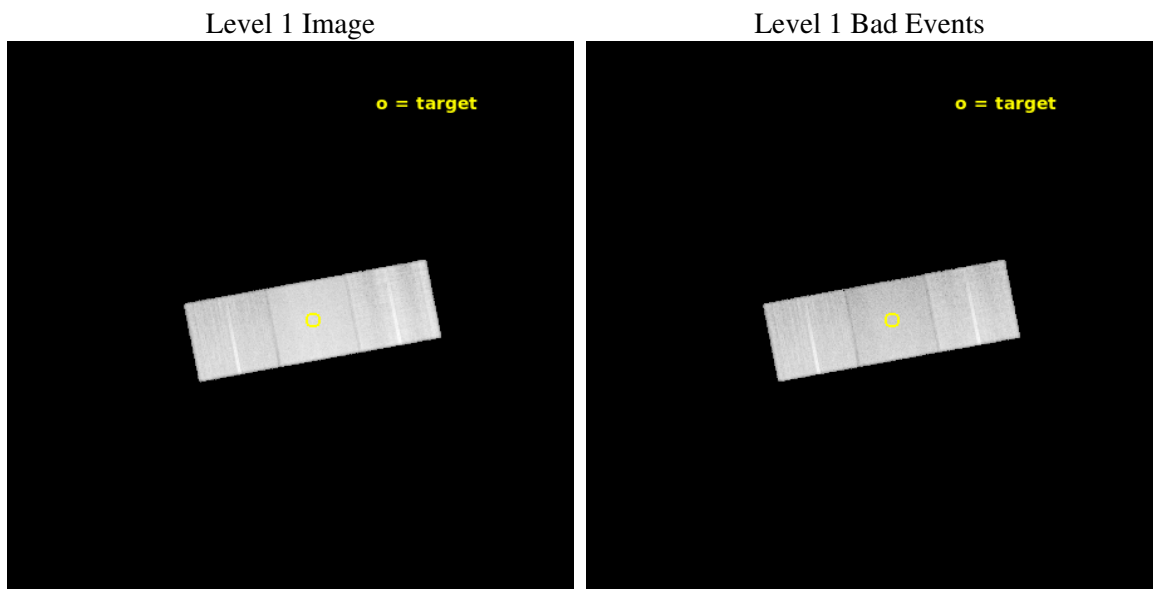
seq_num	601289	Sequence number
obs_id	21034	Observation id
title	A Statistically Robust Constraint on the Evolution of Field LMXBs	
observer	Bret Lehmer	Principal investigator
object	NGC 3585	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	168.32125	Observer's specified target RA [deg]
dec_targ	-26.745	Observer's specified target Dec [deg]
ra_nom	168.36619767747	Nominal RA [deg]
dec_nom	-26.753942276862	Nominal Dec [deg]
roll_nom	349.16879139949	Nominal Roll [deg]
revision	2	Processing version of data
ontime	29973.900230646	Sum of GTIs [s]
livetime	29582.269157668	Livetime [s]
ontime6	29973.900230646	Sum of GTIs [s]
ontime7	29973.900230646	Sum of GTIs [s]
ontime8	29970.759200692	Sum of GTIs [s]
l2events	168158	Number of level 2 events



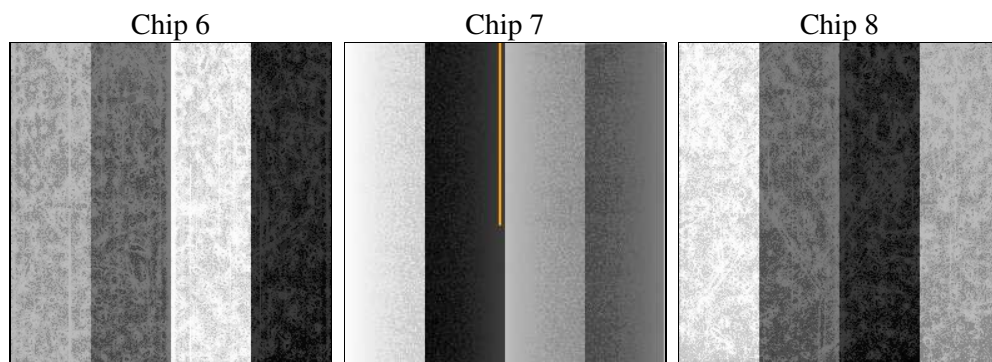
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	29863.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	29973.900230646	Sum of GTIs [s]
caldsver	4.9.3	 	ontime6	29973.900230646	Sum of GTIs [s]
date	2020-10-25T03:08:46	Date and time of file creation	ontime7	29973.900230646	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	29970.759200692	Sum of GTIs [s]
			l1events	812811	Number of level 1 events

2.1.4 Events

	ccd 6	ccd 7	ccd 8
level 1 events	232936	288178	291697
rejected events	207566	161802	214806
rejected %	89%	56%	73%

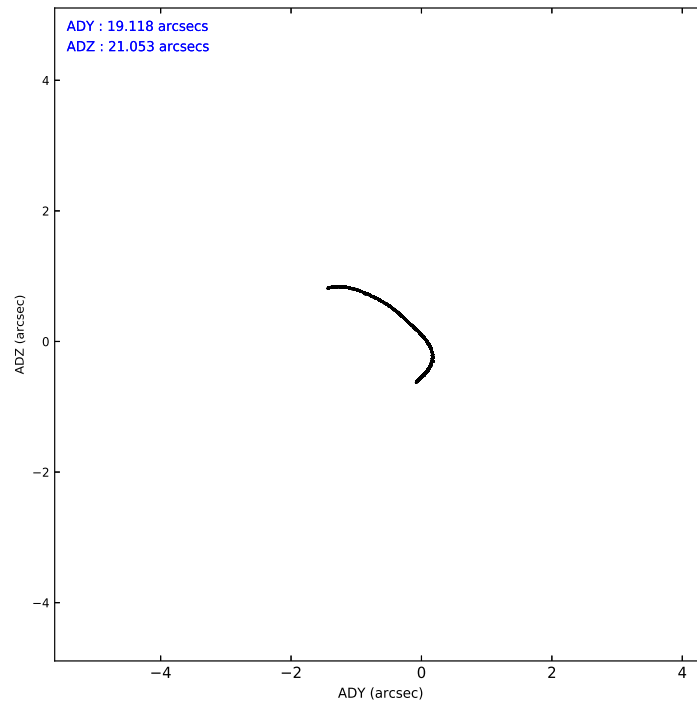
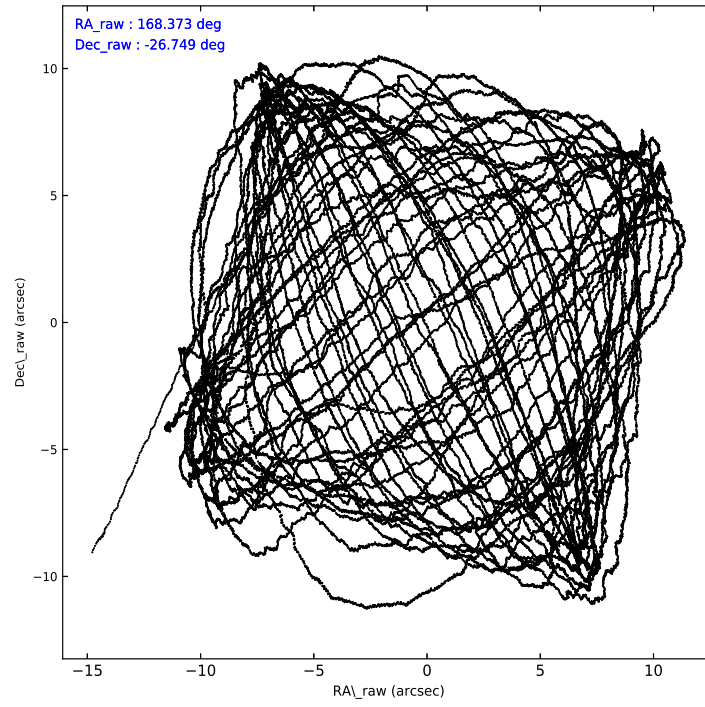
	ccd 6	ccd 7	ccd 8
grade 0 events	8237	10877	21281
	3%	3%	7%
grade 1 events	119	378	225
	0%	0%	0%
grade 2 events	6129	26372	18839
	2%	9%	6%
grade 3 events	2401	10040	8094
	1%	3%	2%
grade 4 events	2462	10118	7527
	1%	3%	2%
grade 5 events	10479	28301	16033
	4%	9%	5%
grade 6 events	6148	68981	21154
	2%	23%	7%
grade 7 events	196961	133111	198544
	84%	46%	68%

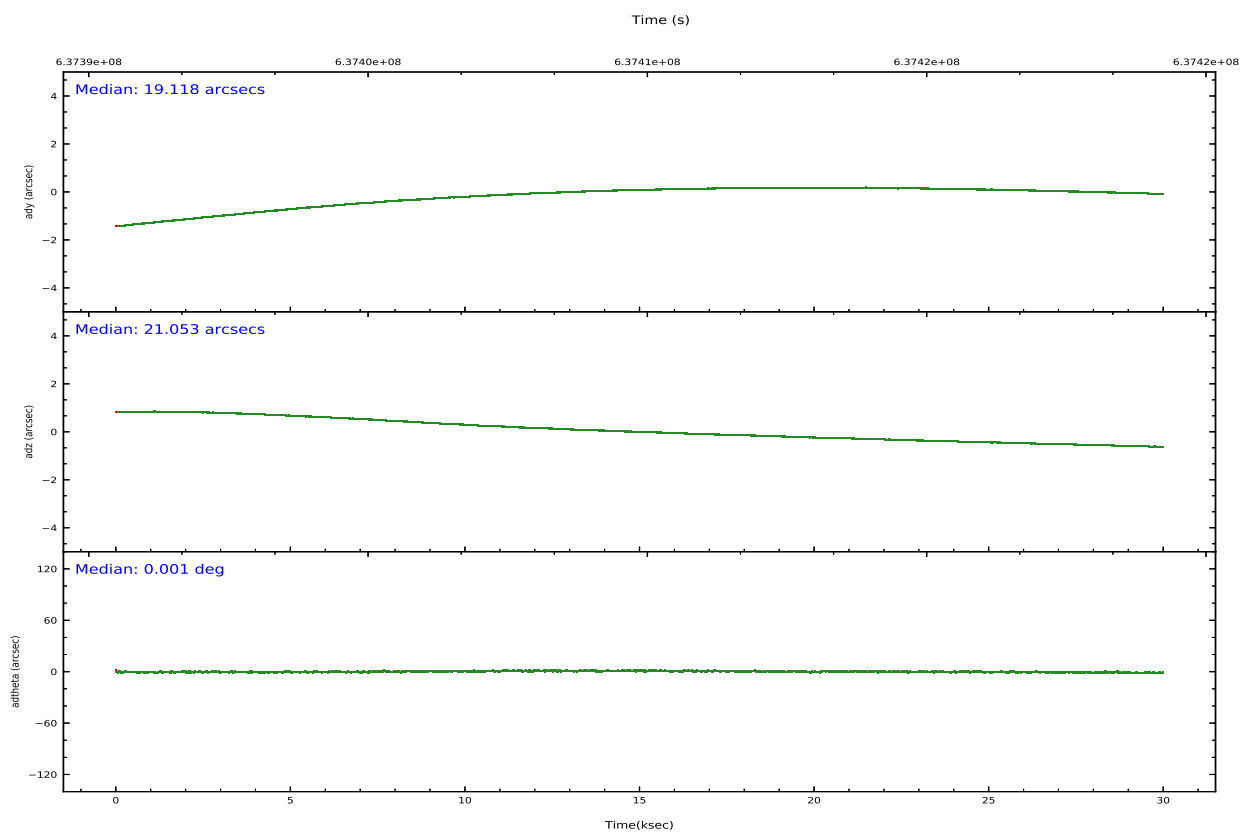
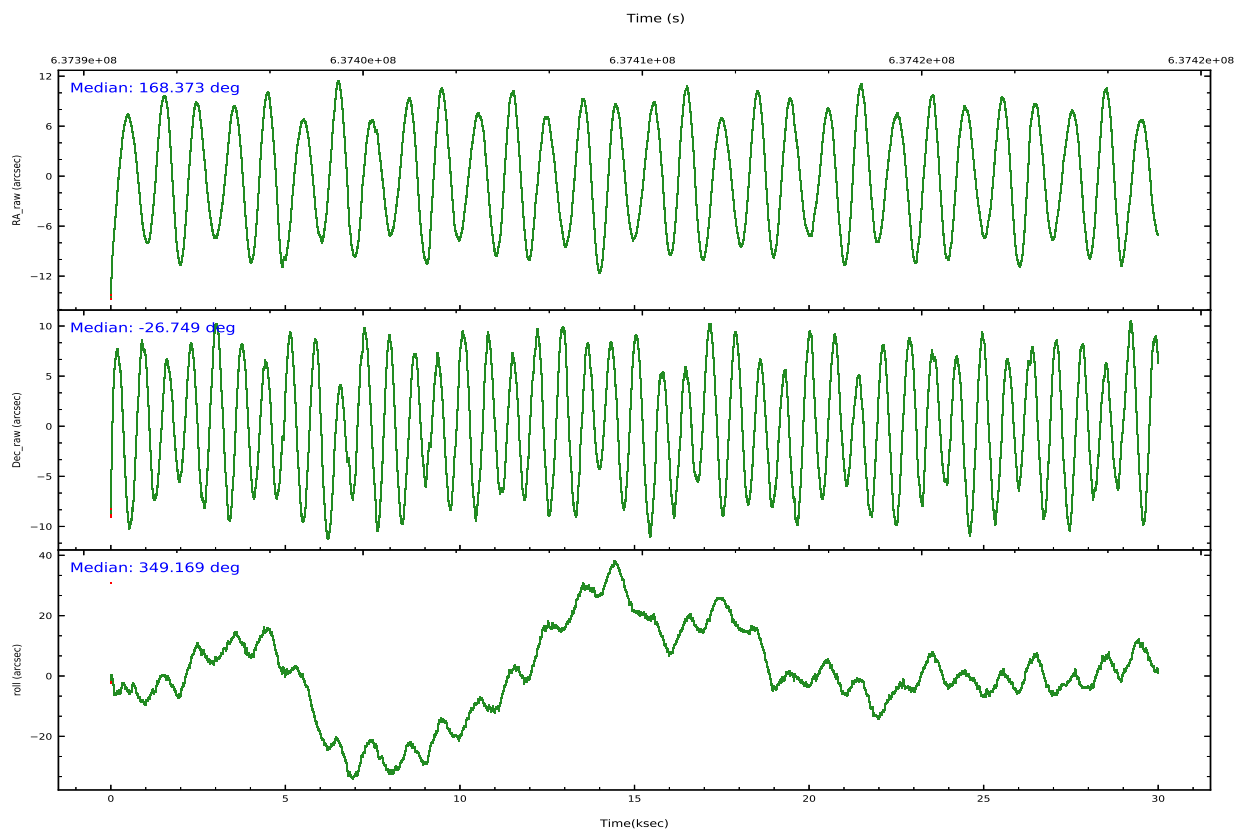
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-678	ACIS-678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	168.344675	168.36619767747
[deg] Pointing Dec	-26.758404	-26.753942276862
[deg] Pointing Roll	349.010540	349.16879139949
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	637392910.184000	637391880.3945301
Observation start date	2018-03-14T05:34:01	2018-03-14T05:18:00
[s] Observation end time (MET)	637422773.184000	637424068.47142
Observation end date	2018-03-14T13:51:44	2018-03-14T14:14:28
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O2	N
CCD I3 on	O1	N
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	2	2
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



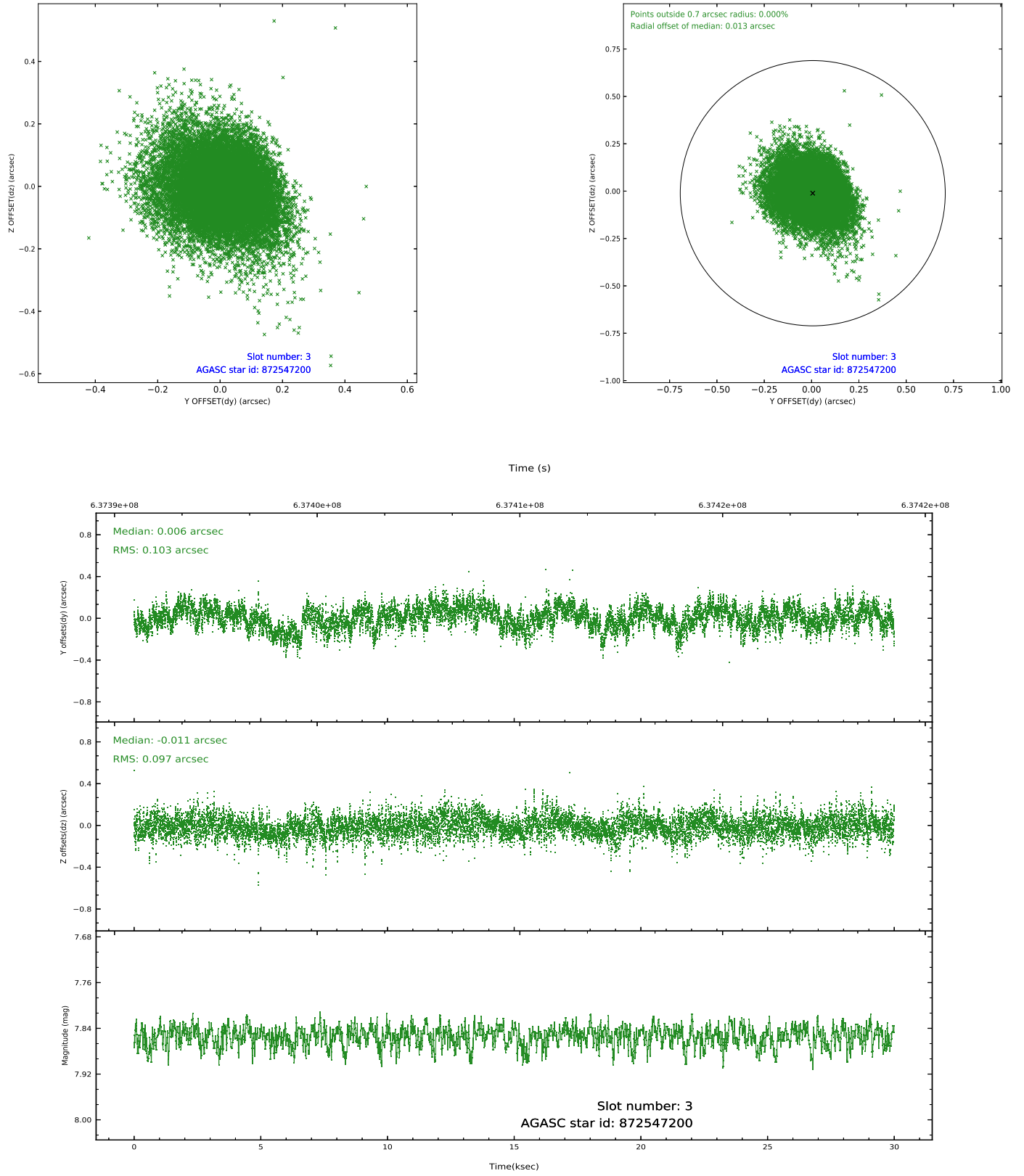


Slot Statistics

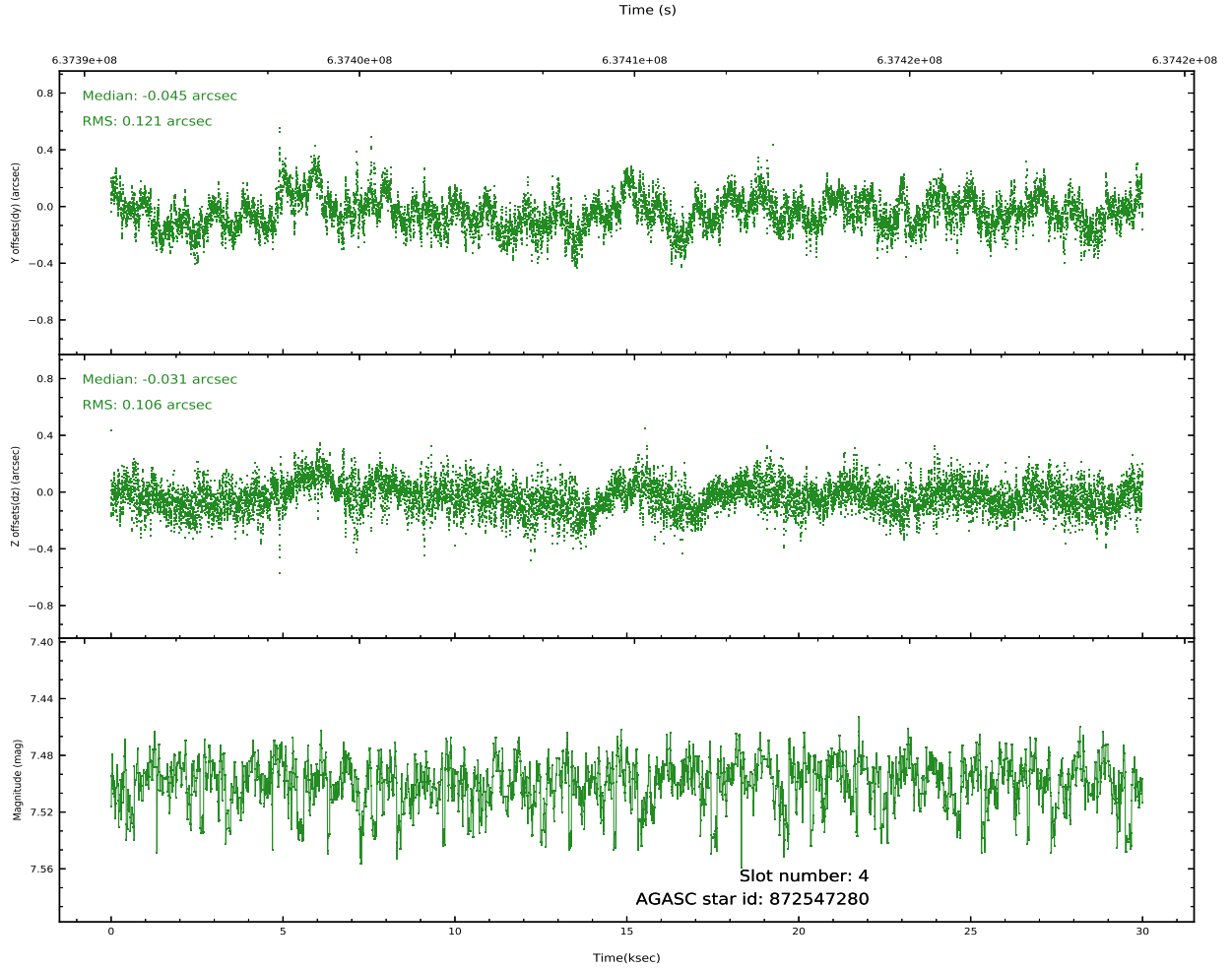
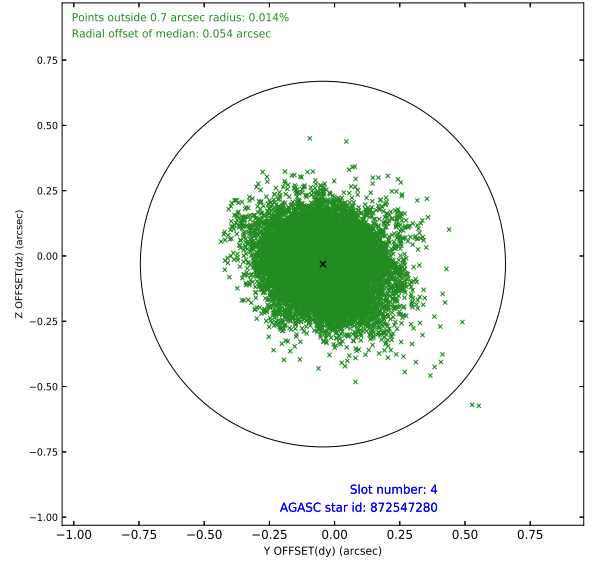
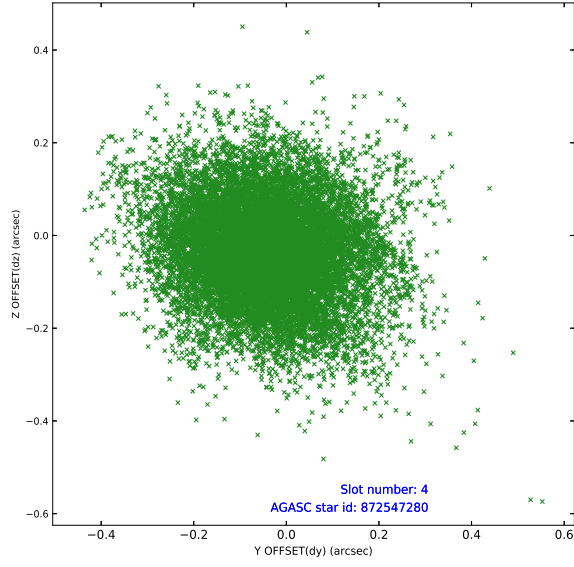
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.19	7317	1.000	0.316	-0.222	0.012	0.021	0.000000	0.000000	924.18	-1738
1	FID		ACIS-S-5	7.21	7316	1.000	-0.280	0.241	0.015	0.024	0.000000	0.000000	-1825.17	159
2	FID		ACIS-S-6	7.36	7317	1.000	-0.061	-0.007	0.015	0.029	0.000000	0.000000	389.55	803
3	GUIDE	used	872547200	7.85	14631	1.000	0.006	-0.011	0.146	0.248	168.685987	-27.308159	1449.25	-1735
4	GUIDE	used	872547280	7.50	14632	1.000	-0.045	-0.031	0.169	0.283	168.302072	-26.465072	-335.98	1010
5	GUIDE	used	872548824	7.90	14629	1.000	0.025	0.089	0.137	0.236	168.573824	-27.061456	929.45	-931
6	GUIDE	used	872549104	8.07	14633	1.000	-0.039	0.032	0.124	0.216	168.431052	-26.854580	338.45	-286
7	GUIDE	used	872551816	8.75	14621	1.000	0.043	-0.076	0.174	0.291	168.963115	-26.911825	2055.62	-168

2.4 Star Slots

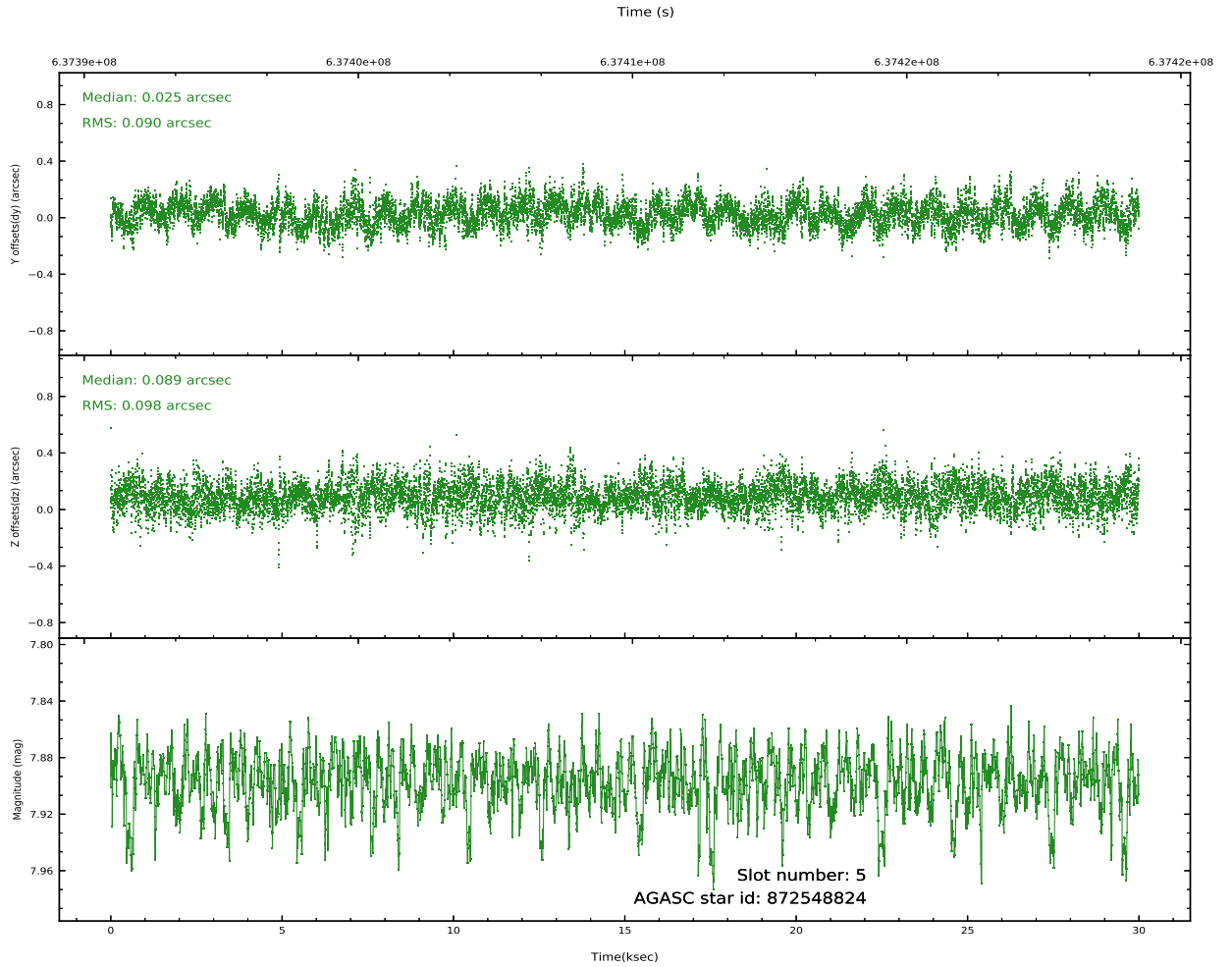
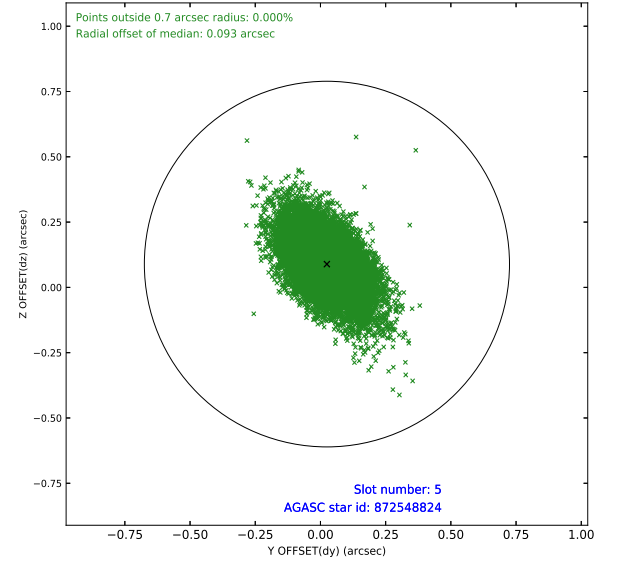
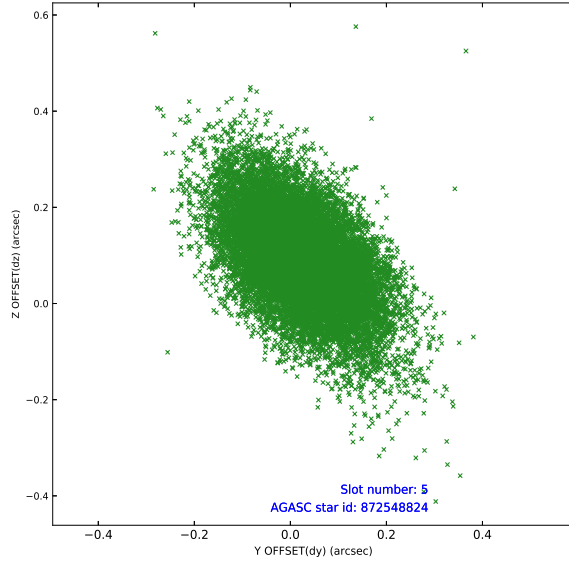
2.4.1 Slot 3



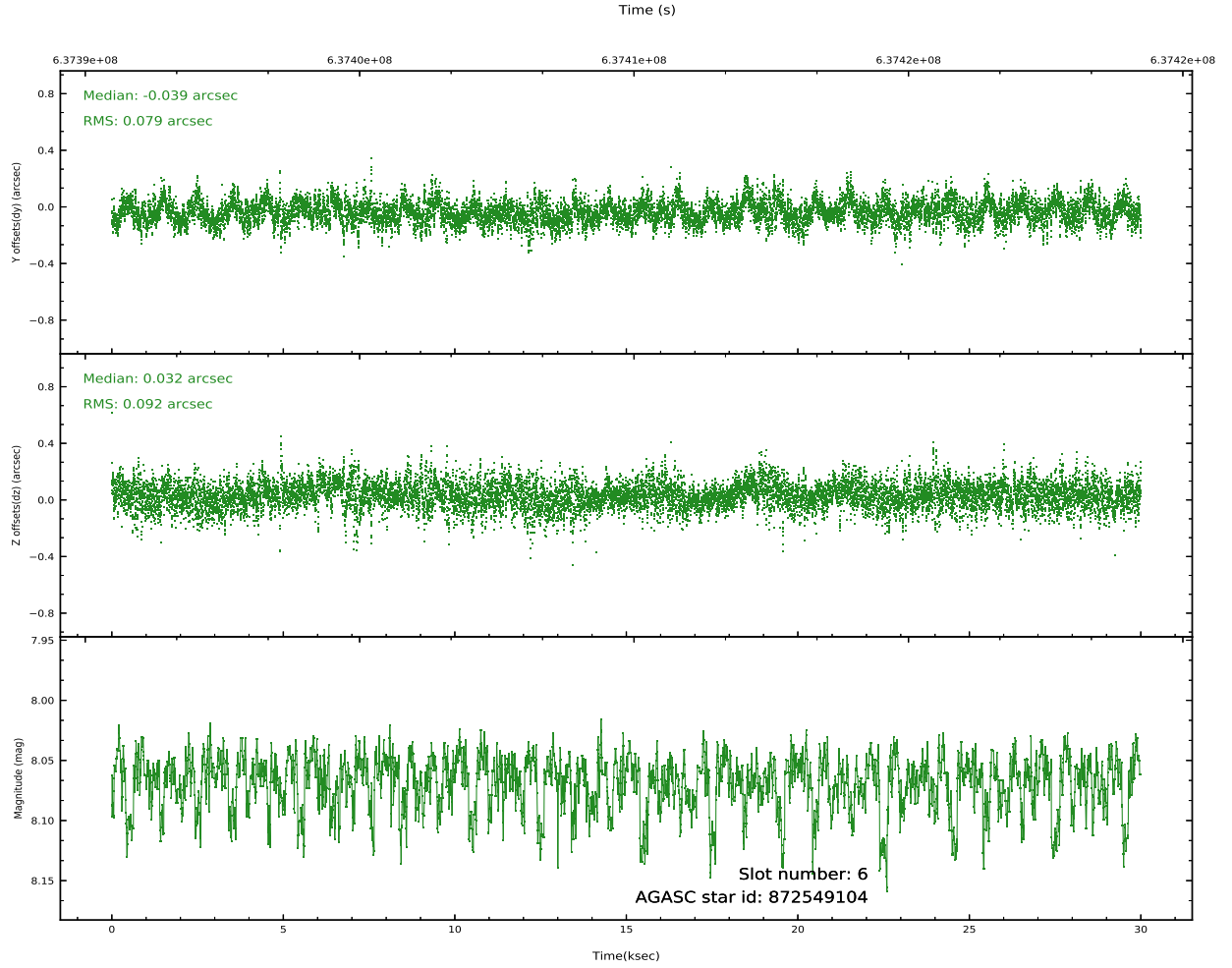
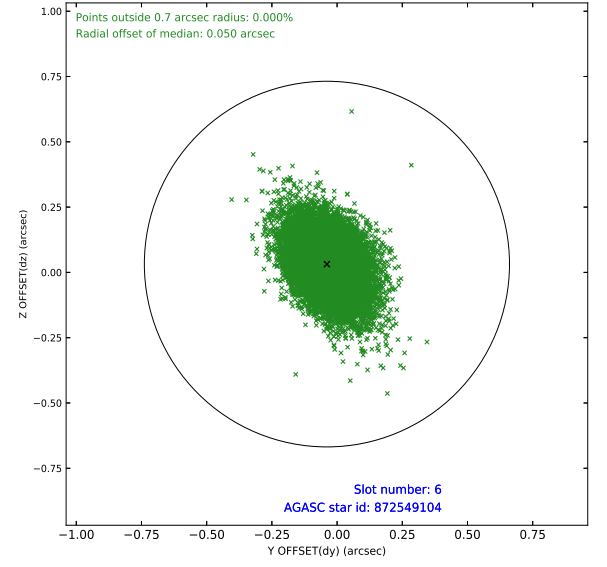
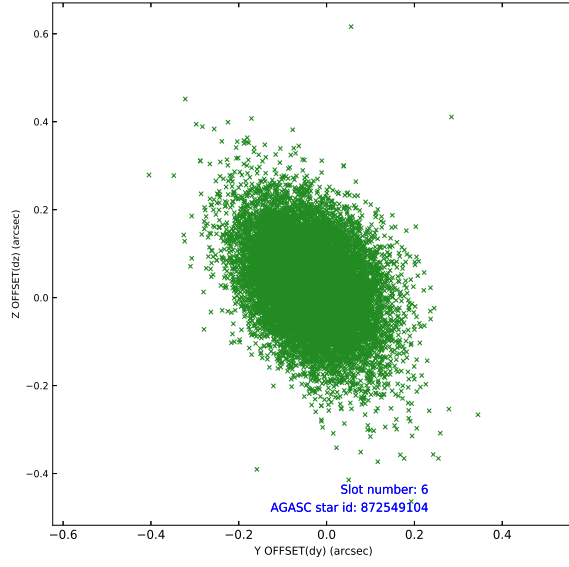
2.4.2 Slot 4



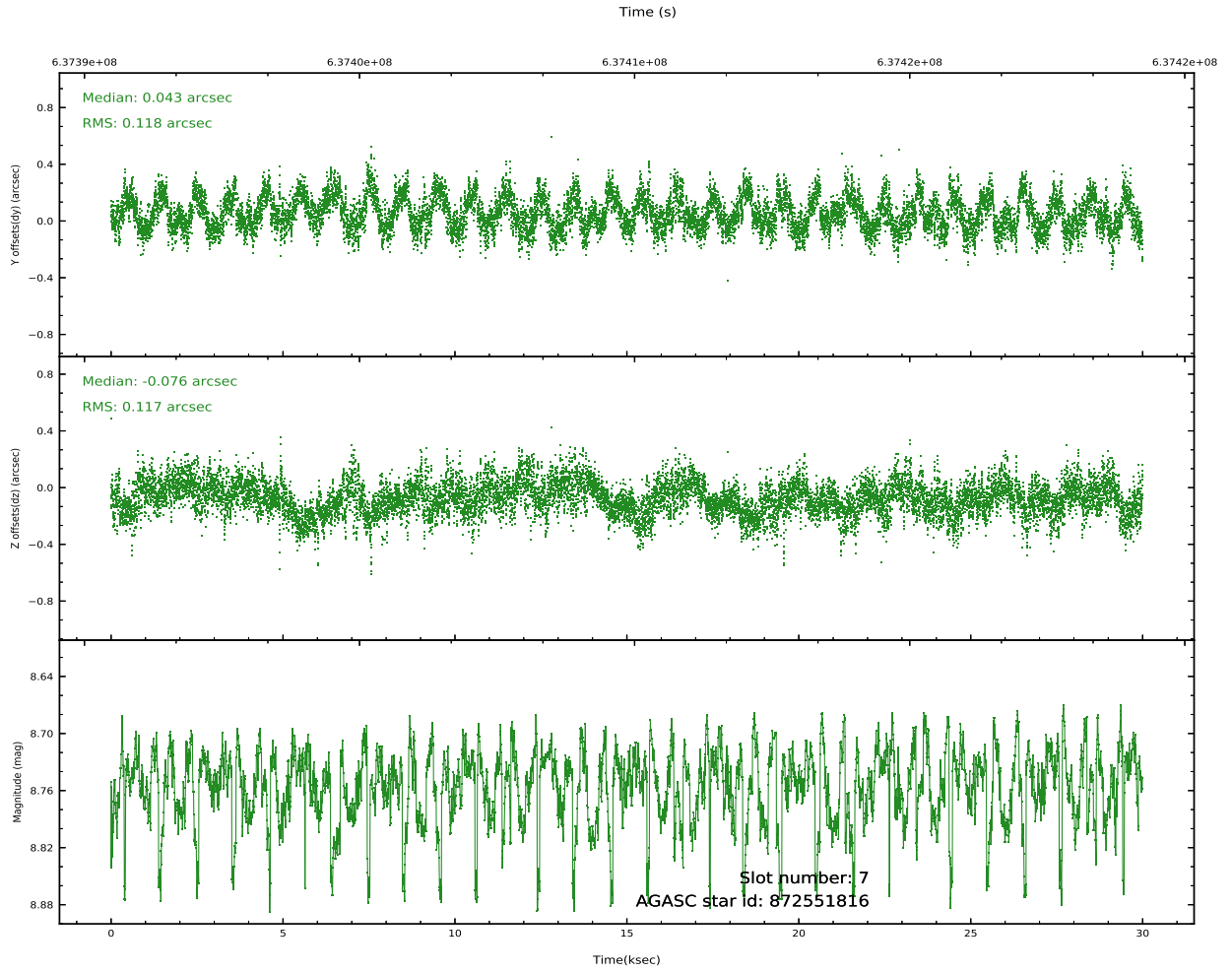
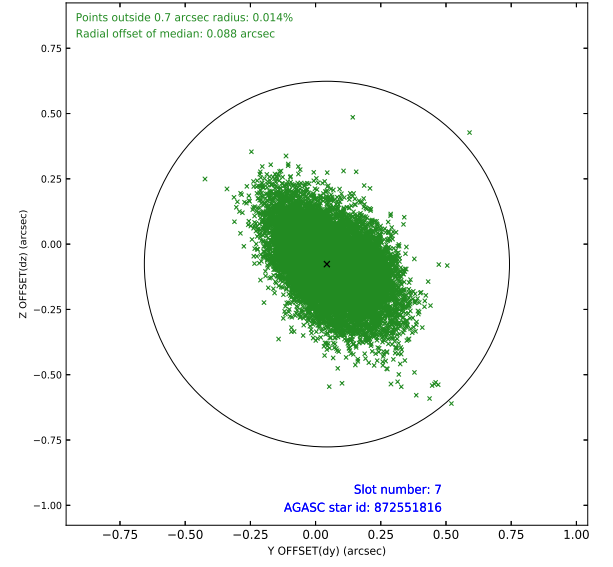
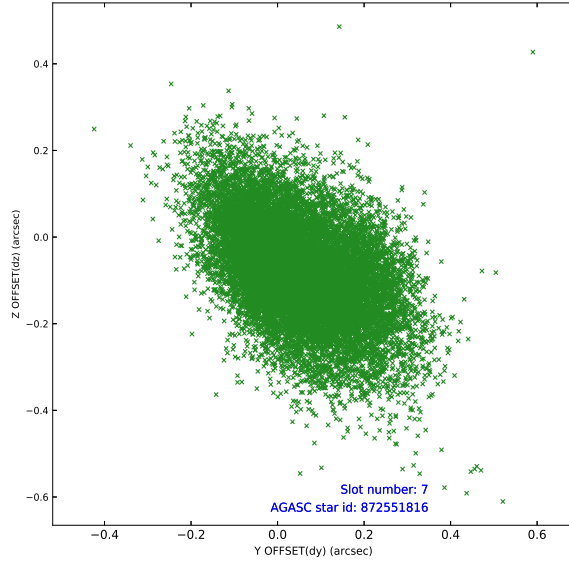
2.4.3 Slot 5



2.4.4 Slot 6

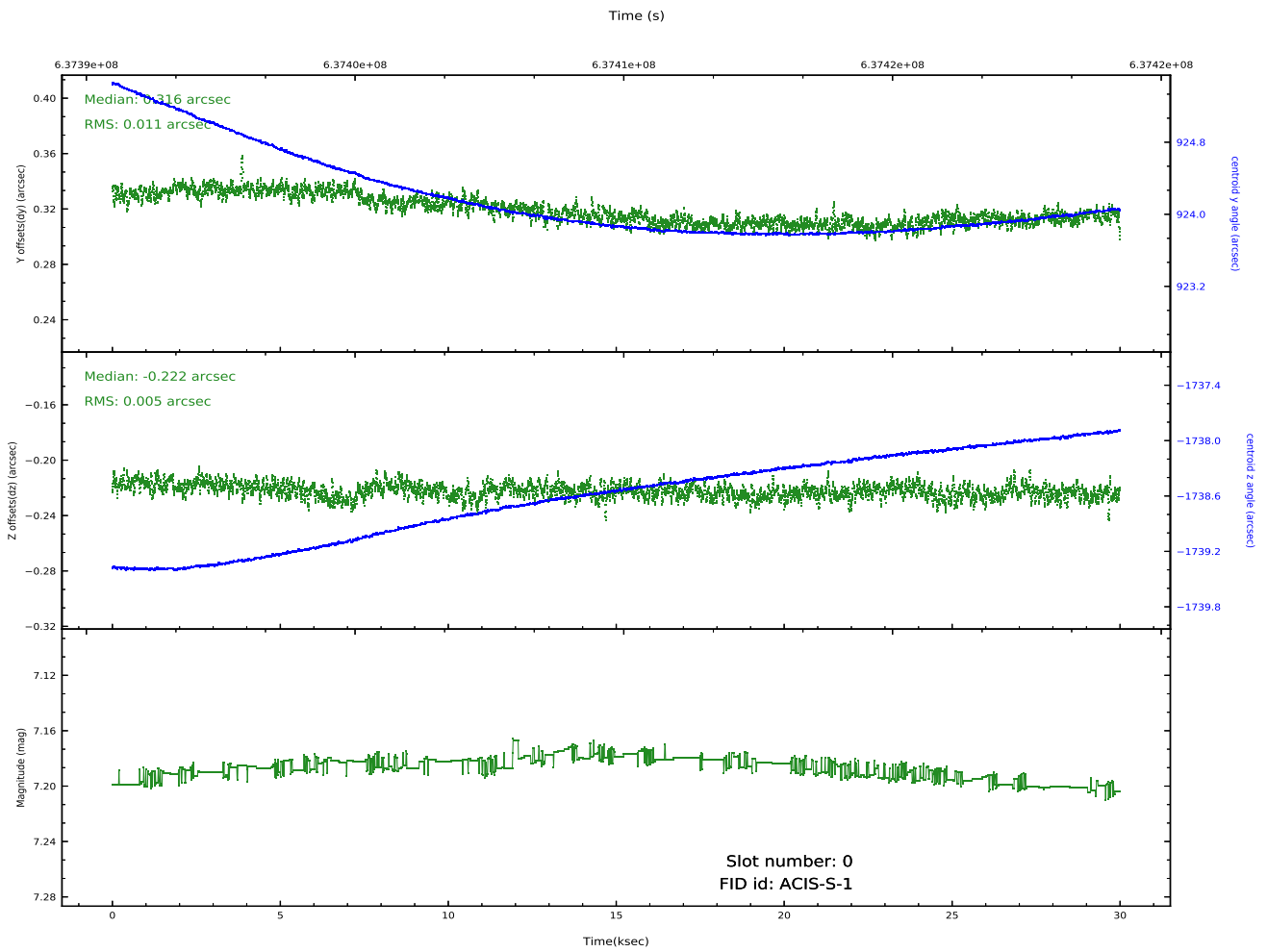
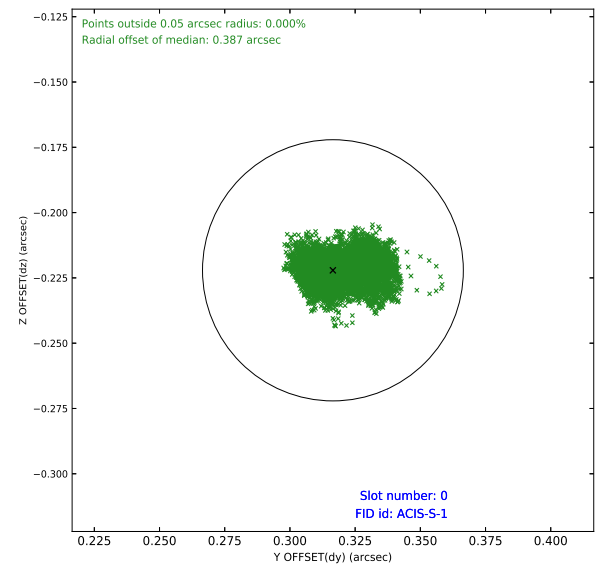
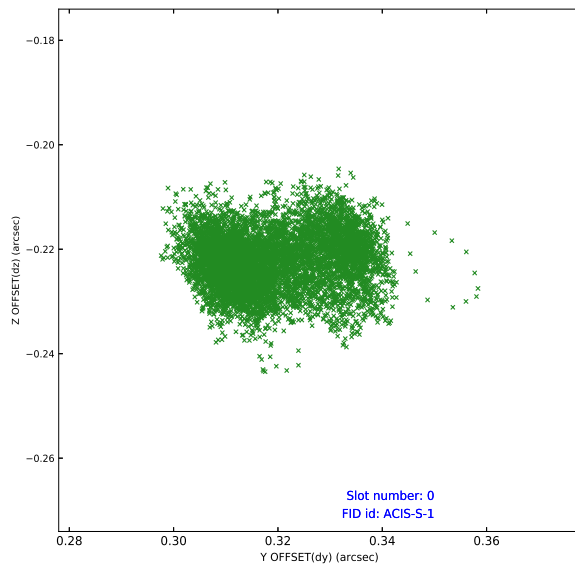


2.4.5 Slot 7

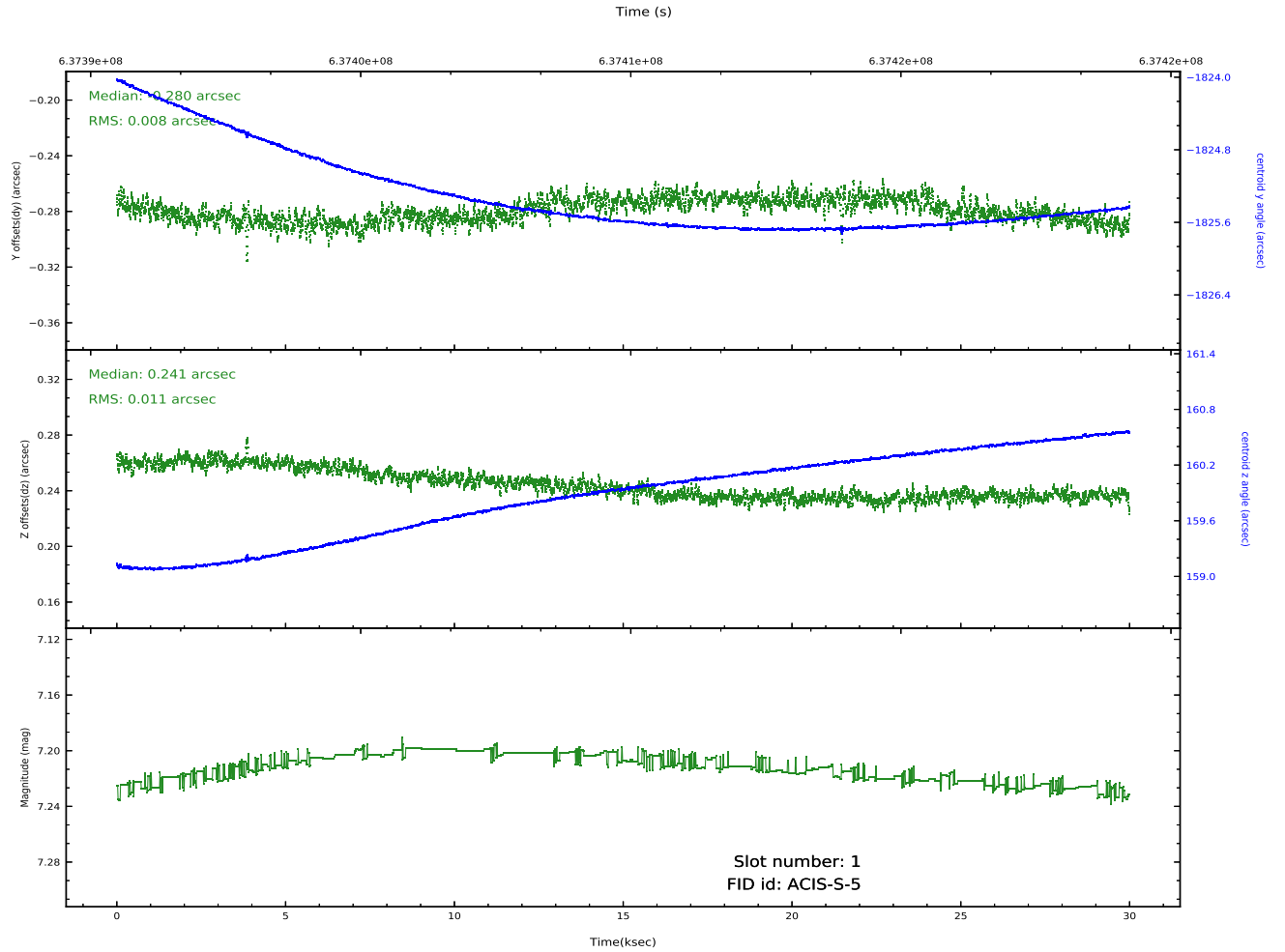
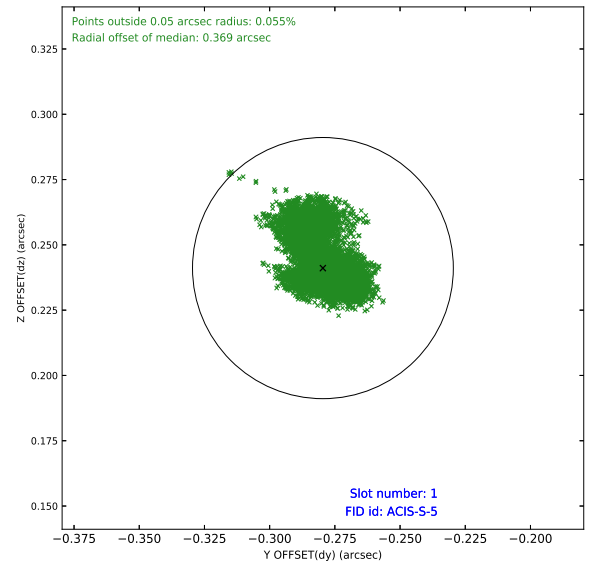
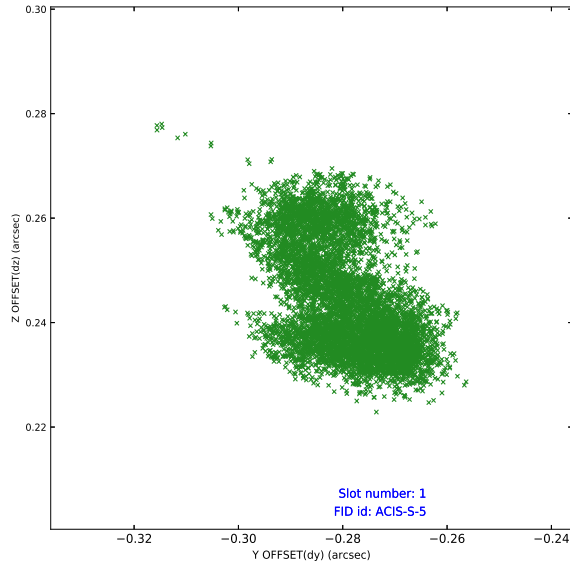


2.5 FID Slots

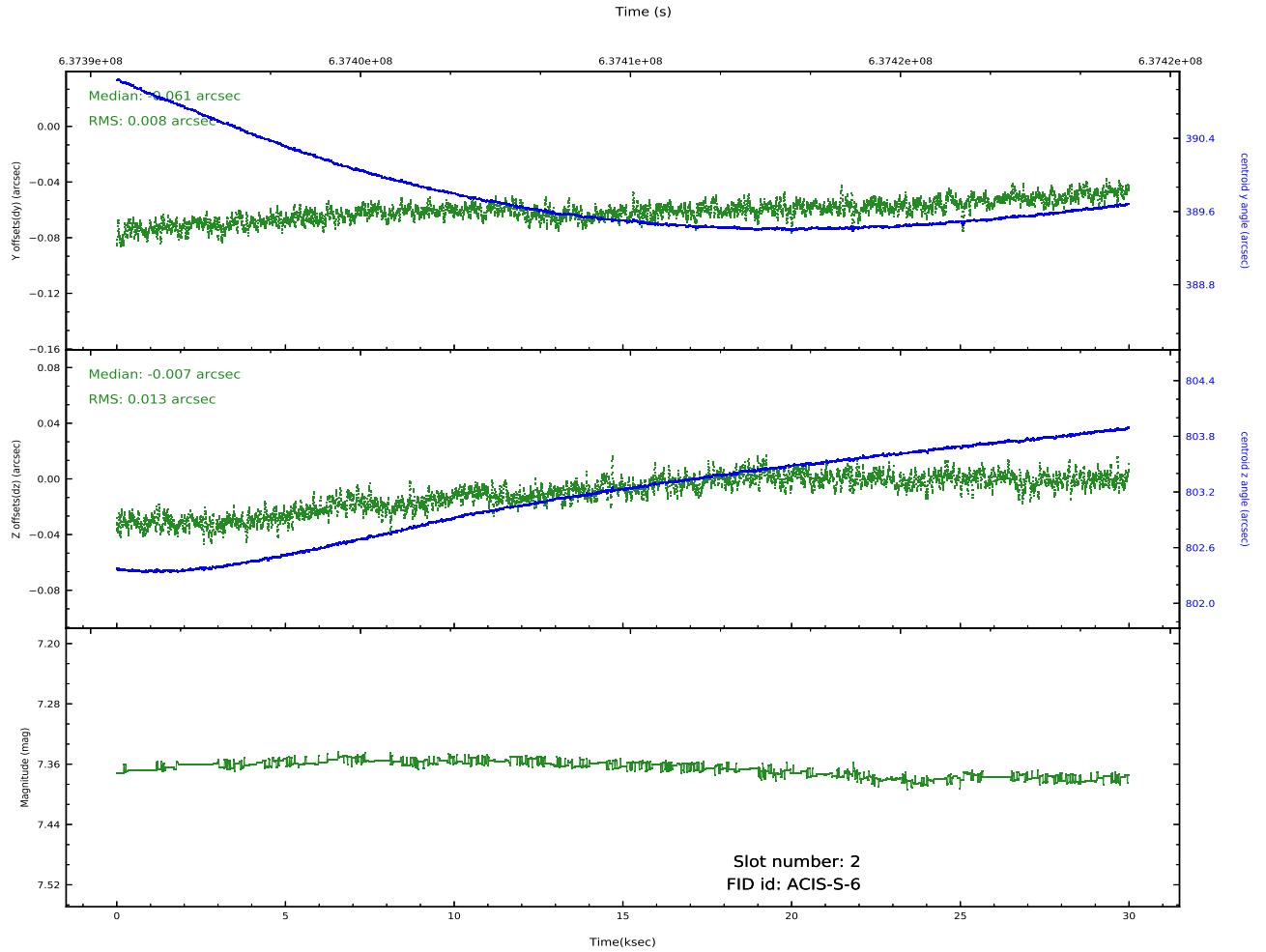
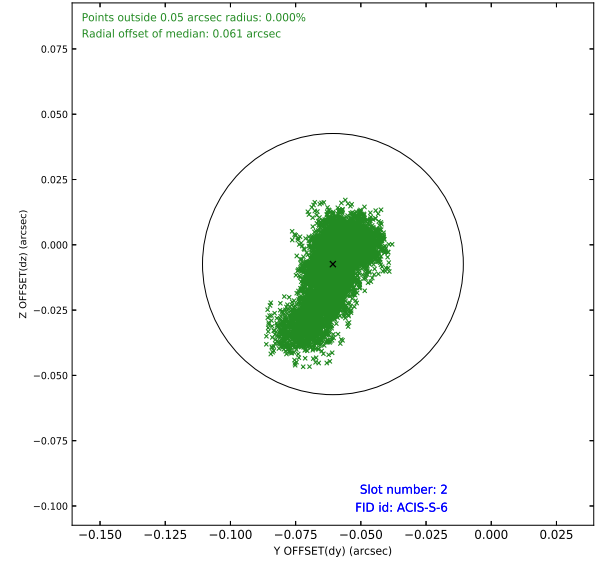
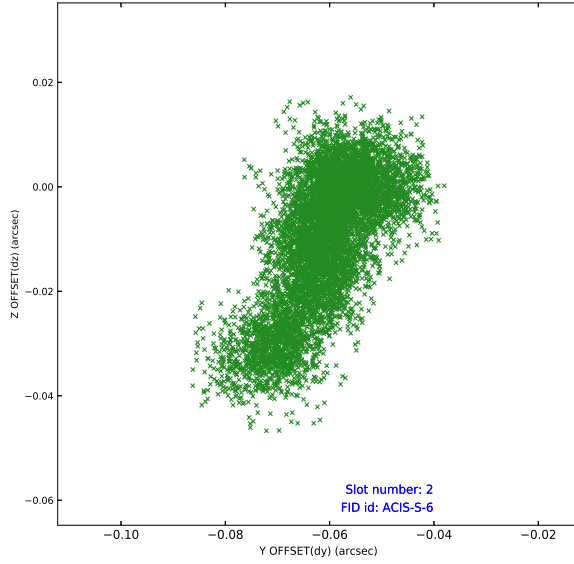
2.5.1 Slot 0



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	29.973900230646

A.2 Comments

Joint proposal with HST. Two optional chips were dropped.