

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5714 - L2 Version 4
Chandra X-Ray Center

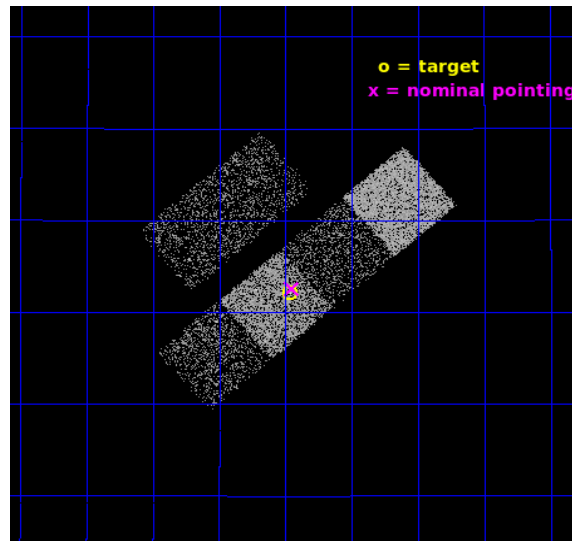
L2 Processing Date : Oct 7 2020

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1 Front

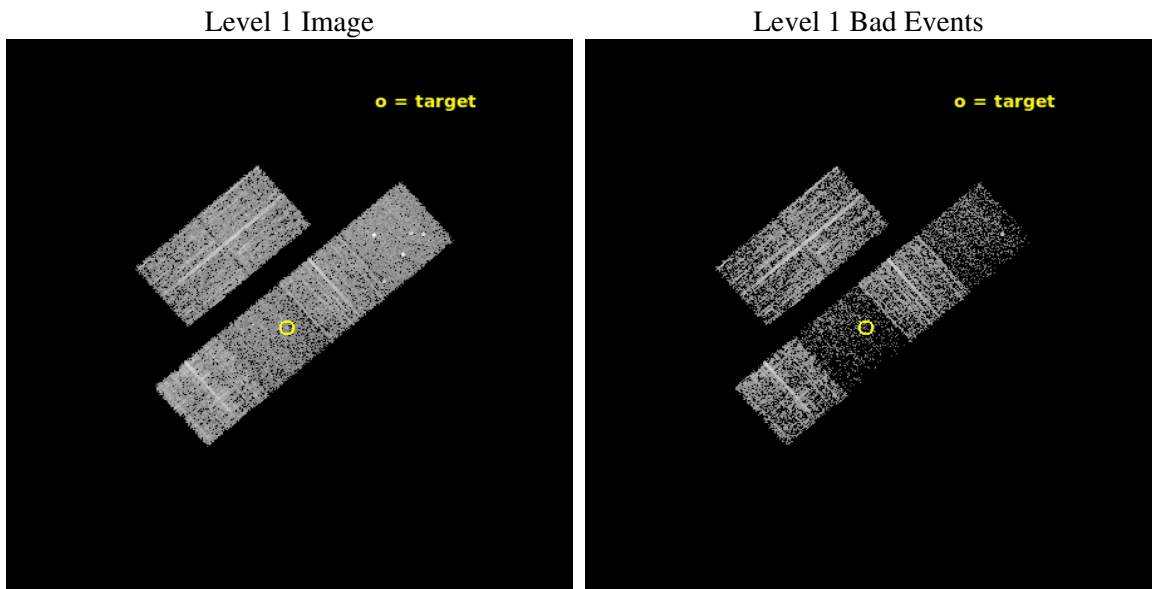
seq_num	701136	Sequence number
obs_id	5714	Observation id
title	What kind of Jets does Nature make? X-ray characterization of the FIRST Flat Spectrum Sample	Proposal title
observer	Dr. Giovanni Fossati	Principal investigator
object	2MASS J12455777+2232052	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	191.490833	Observer's specified target RA [deg]
dec_targ	22.534833	Observer's specified target Dec [deg]
ra_nom	191.48804547956	Nominal RA [deg]
dec_nom	22.542802442985	Nominal Dec [deg]
roll_nom	138.96260548347	Nominal Roll [deg]
revision	4	Processing version of data
ontime	3177.5999881625	Sum of GTIs [s]
livetime	3137.3633037914	Livetime [s]
ontime2	3177.5999881625	Sum of GTIs [s]
ontime3	3177.5999881625	Sum of GTIs [s]
ontime5	3177.5999881625	Sum of GTIs [s]
ontime6	3174.3589978814	Sum of GTIs [s]
ontime7	3177.5999881625	Sum of GTIs [s]
ontime8	3177.5999881625	Sum of GTIs [s]
l2events	18081	Number of level 2 events



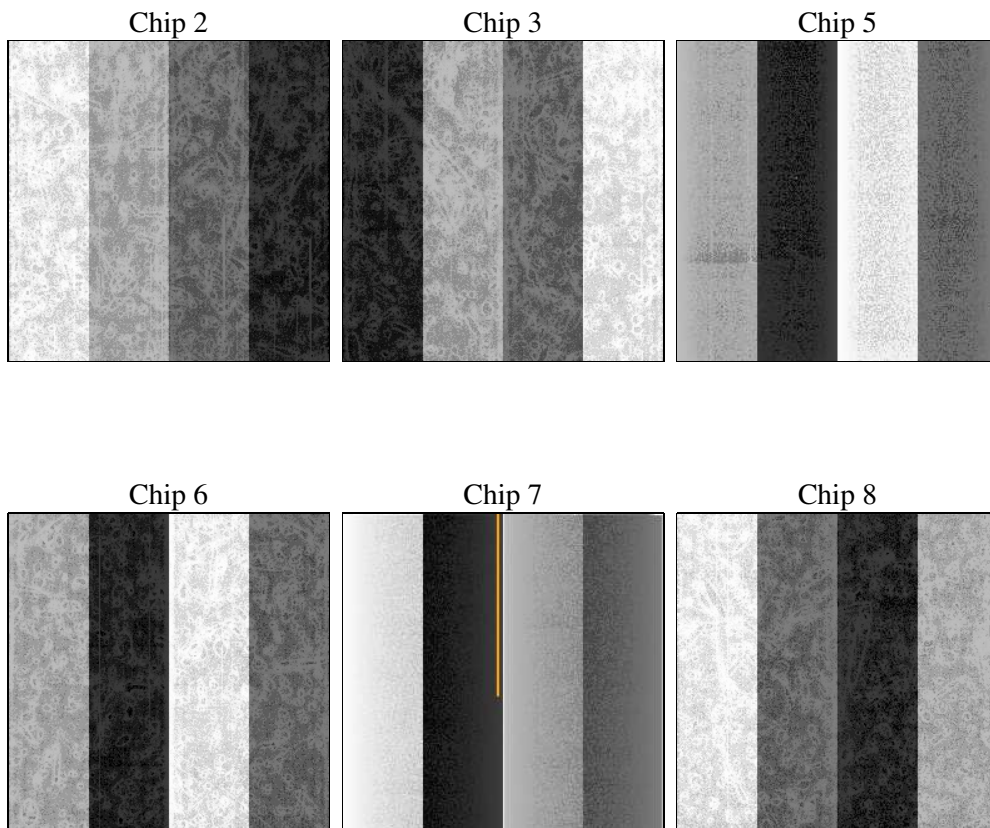
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	3177.5999881625	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	3177.5999881625	Sum of GTIs [s]
date	2020-10-07T05:30:29	Date and time of file creation	ontime3	3177.5999881625	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	3177.5999881625	Sum of GTIs [s]
			ontime6	3174.3589978814	Sum of GTIs [s]
			ontime7	3177.5999881625	Sum of GTIs [s]
			ontime8	3177.5999881625	Sum of GTIs [s]
			l1events	98383	Number of level 1 events

2.1.4 Events

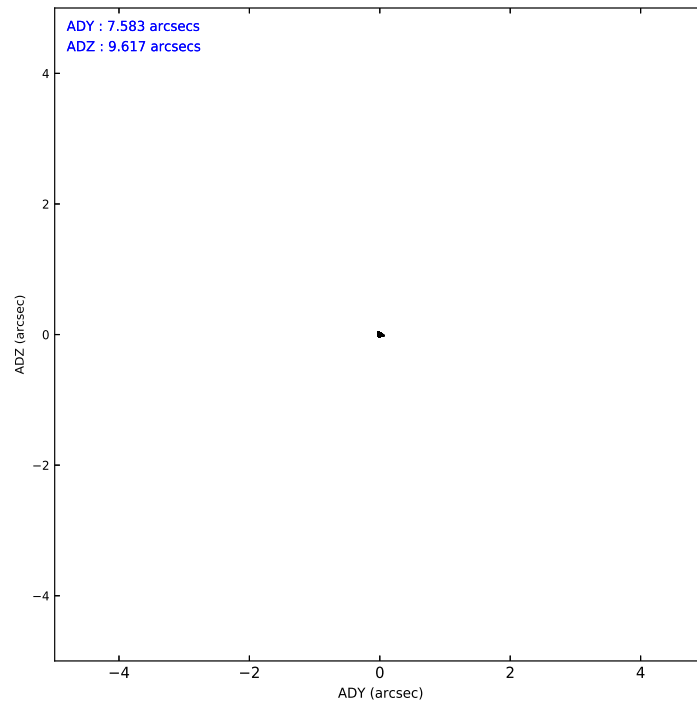
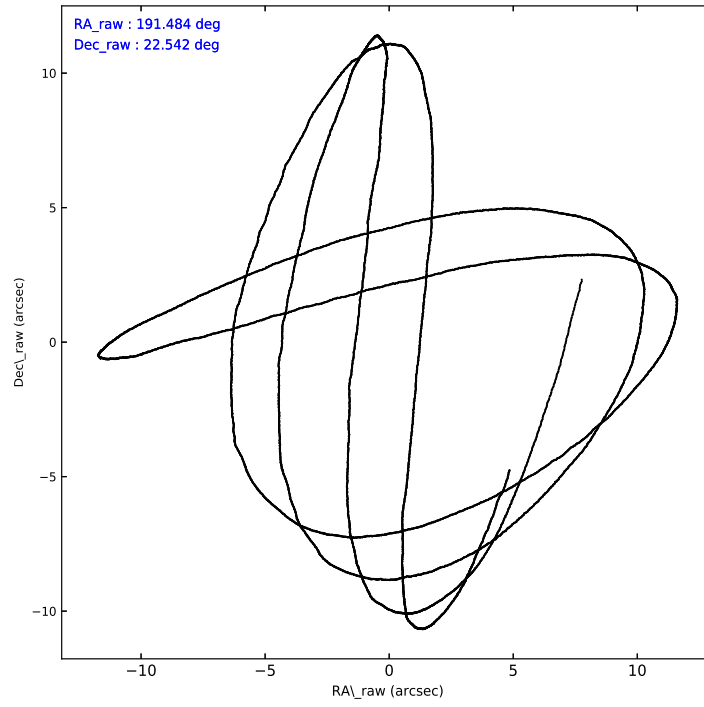
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	18268	16074	16472	16912	9867	20790
rejected events	16849	14777	6123	15429	4292	15560
rejected %	92%	91%	37%	91%	43%	74%

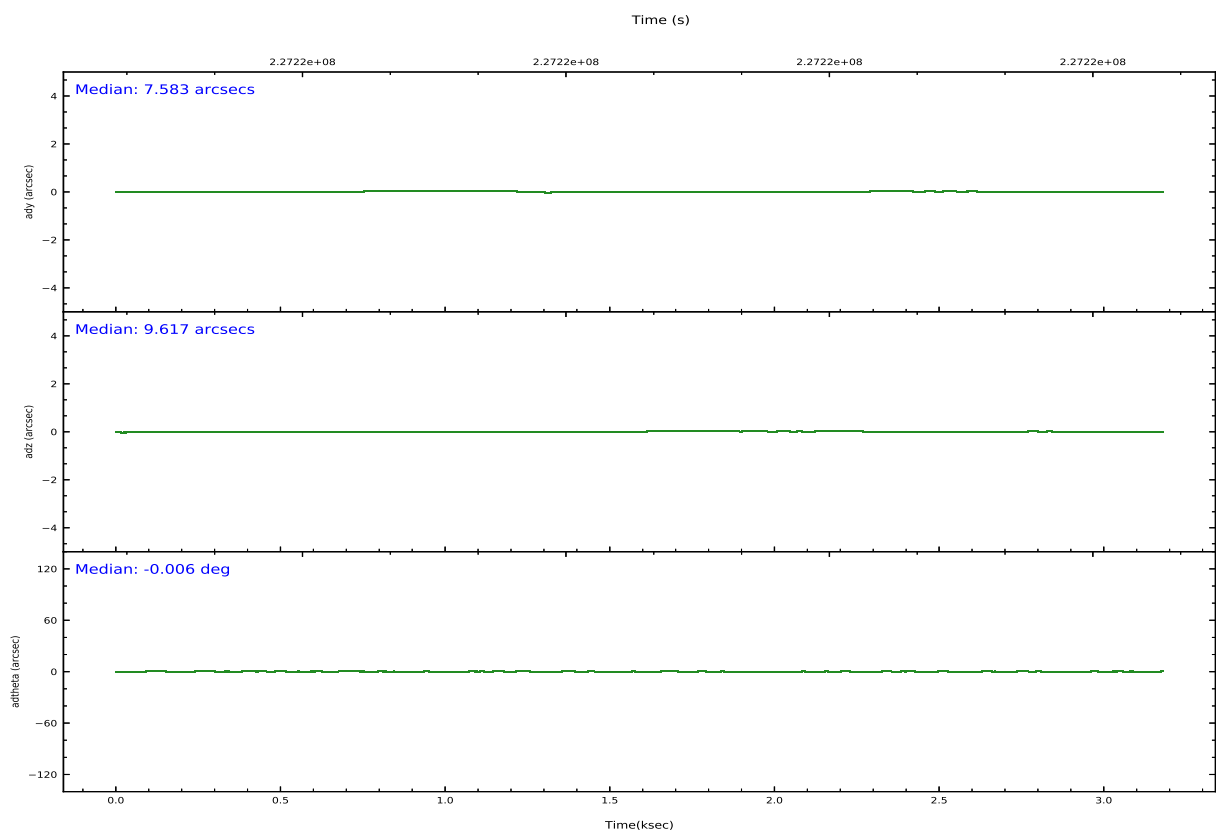
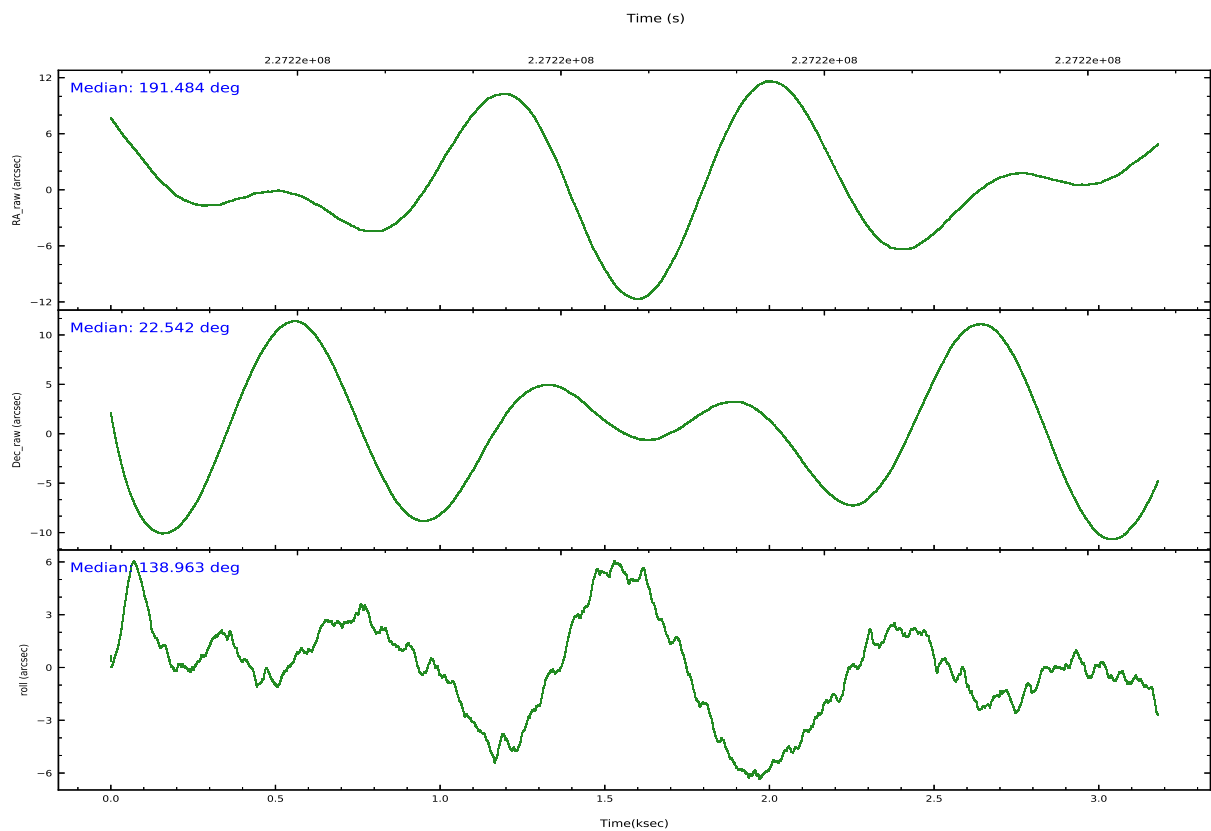
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	574	523	2492	565	696	1443
	3%	3%	15%	3%	7%	6%
grade 1 events	5	9	32	10	22	21
	0%	0%	0%	0%	0%	0%
grade 2 events	358	247	2945	318	1309	1234
	1%	1%	17%	1%	13%	5%
grade 3 events	162	158	475	166	598	610
	0%	0%	2%	0%	6%	2%
grade 4 events	143	163	467	168	607	608
	0%	1%	2%	0%	6%	2%
grade 5 events	270	339	1341	333	1027	567
	1%	2%	8%	1%	10%	2%
grade 6 events	201	218	4079	273	2429	1403
	1%	1%	24%	1%	24%	6%
grade 7 events	16555	14417	4641	15079	3179	14904
	90%	89%	28%	89%	32%	71%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	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	191.513278	191.48804547956	Subarray requested	NONE	NONE
[deg] Pointing Dec	22.537515	22.542802442985	Alternating exposures requested	N	N
[deg] Pointing Roll	138.795978	138.96260548347	[s] Primary exposure time	0.000000	3.2
[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)	227217213.184000	227216127.8964			
Observation start date	2005-03-14T19:52:29	2005-03-14T19:35:27			
[s] Observation end time (MET)	227220213.184000	227221065.83413			
Observation end date	2005-03-14T20:42:29	2005-03-14T20:57:45			
Read mode	TIMED	TIMED			

2.3 Aspect



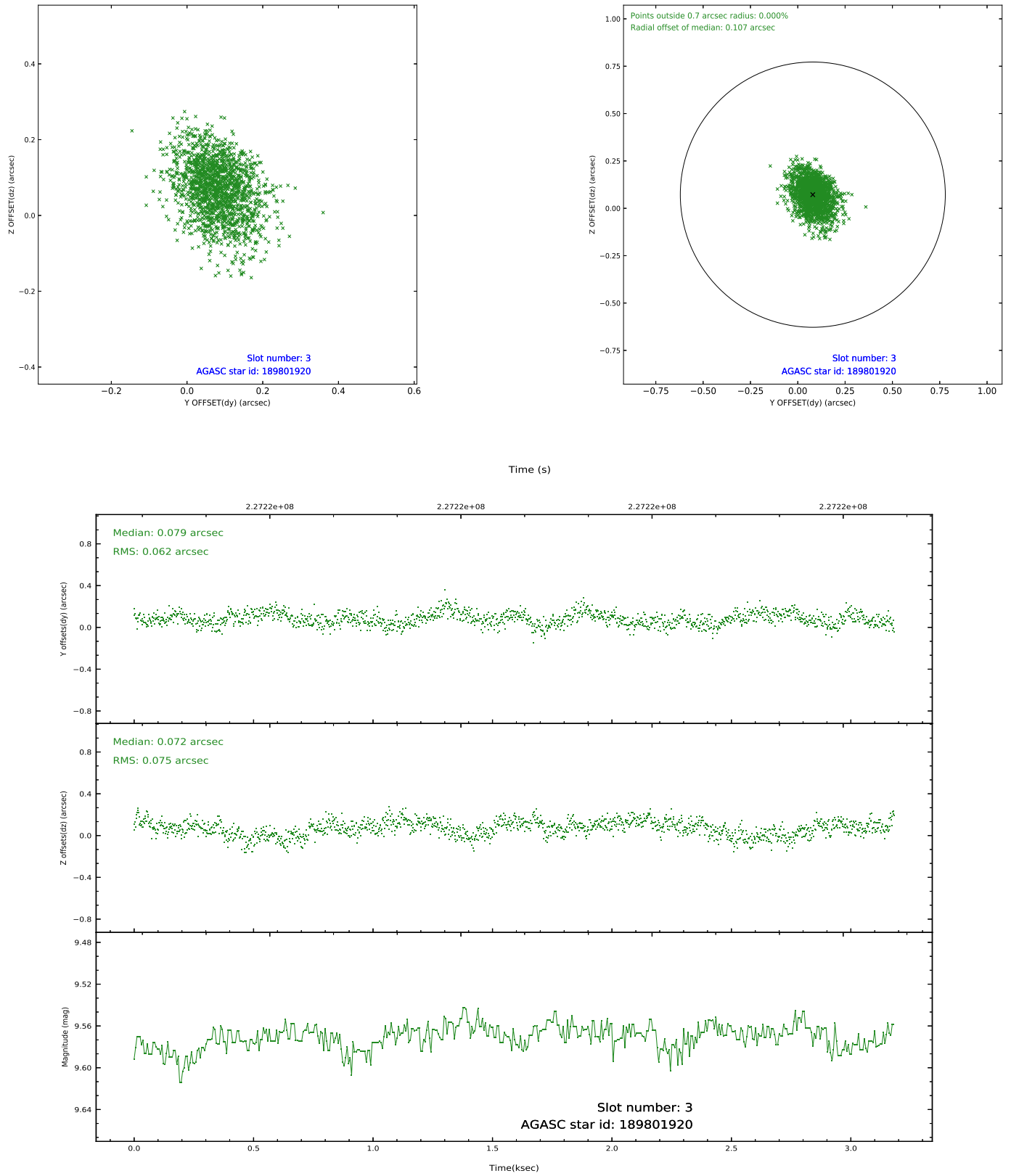


Slot Statistics

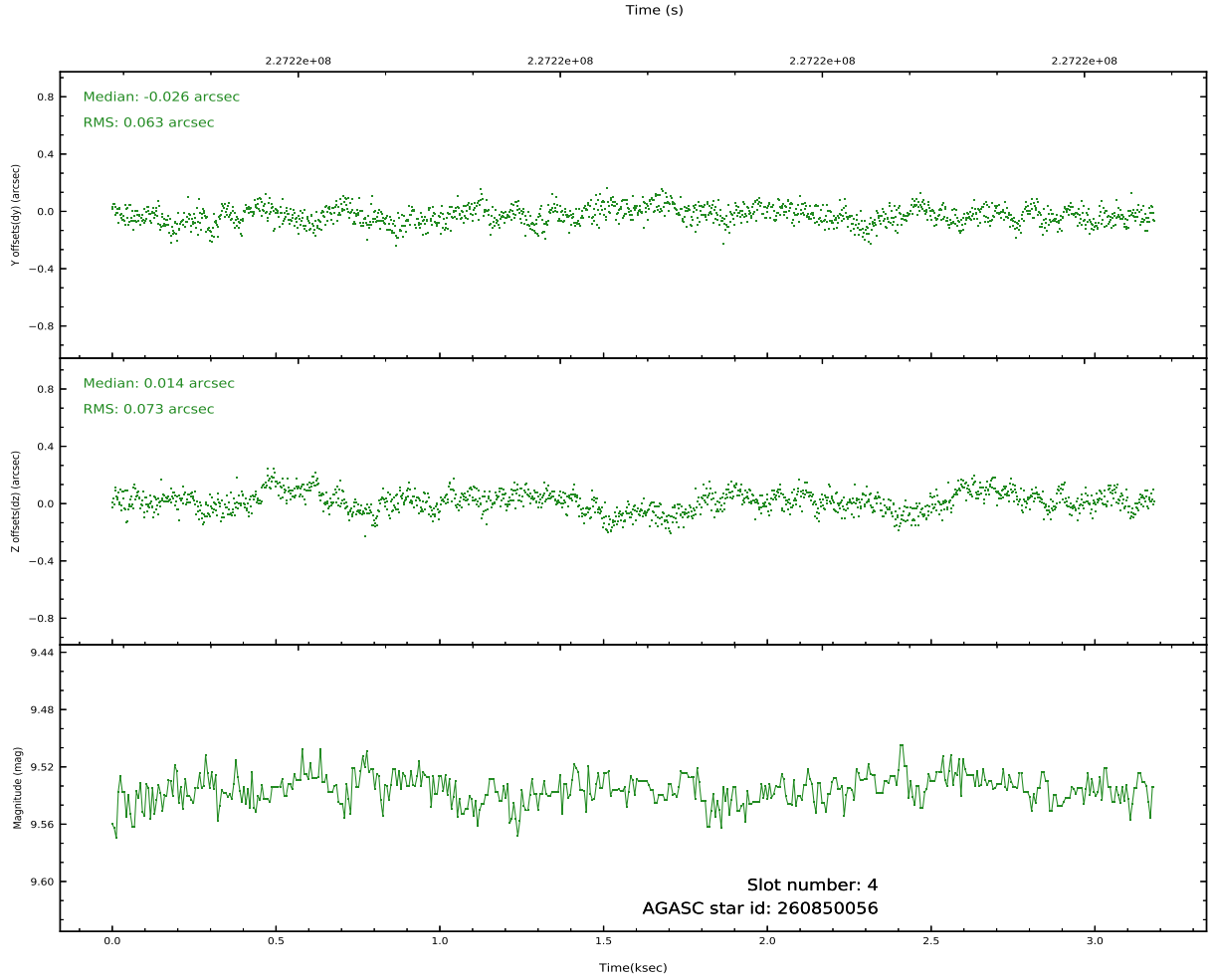
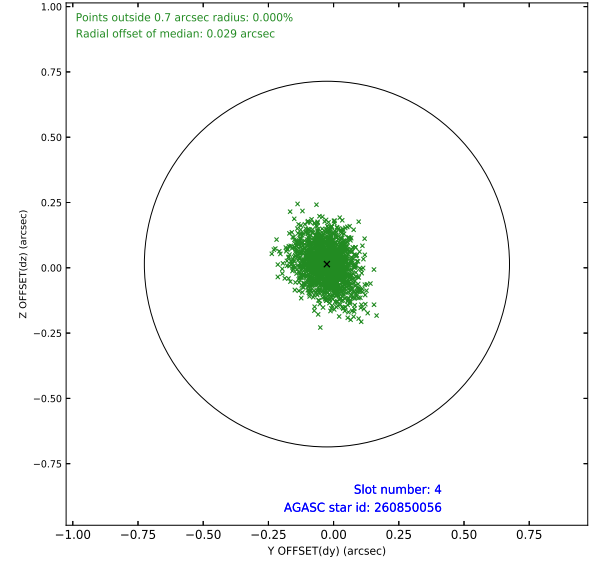
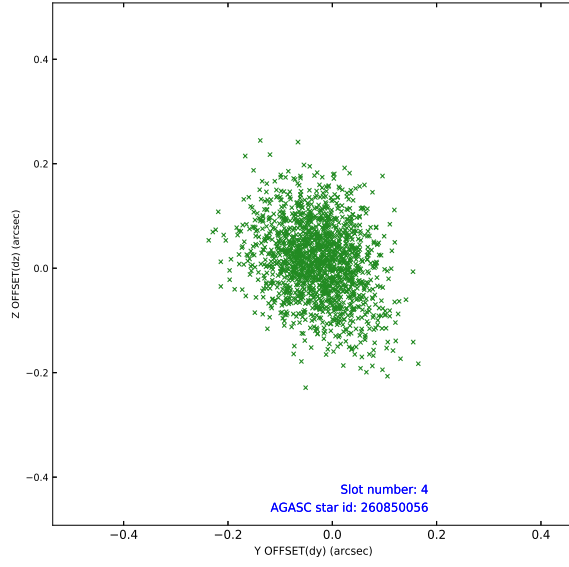
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.19	776	1.000	0.019	-0.052	0.007	0.012	0.000000	0.000000	935.73	-1726
1	FID		ACIS-S-4	7.21	776	1.000	0.114	0.032	0.006	0.010	0.000000	0.000000	2154.31	175
2	FID		ACIS-S-5	7.23	776	1.000	-0.160	0.033	0.005	0.010	0.000000	0.000000	-1810.78	171
3	GUIDE	used	189801920	9.57	1553	1.000	0.079	0.072	0.103	0.170	191.716047	22.488112	-622.45	-310
4	GUIDE	used	260850056	9.53	1552	1.000	-0.026	0.014	0.102	0.169	191.450836	23.233163	1805.69	-1748
5	GUIDE	used	260853168	7.82	1552	1.000	-0.047	-0.108	0.063	0.099	191.970830	22.719776	-707.14	-1498
6	GUIDE	used	260862160	8.50	1552	1.000	0.037	-0.028	0.064	0.104	191.778046	22.616833	-472.95	-796
7	GUIDE	used	260862176	9.00	1549	1.000	-0.038	0.055	0.087	0.139	191.599694	23.314428	1628.56	-2293

2.4 Star Slots

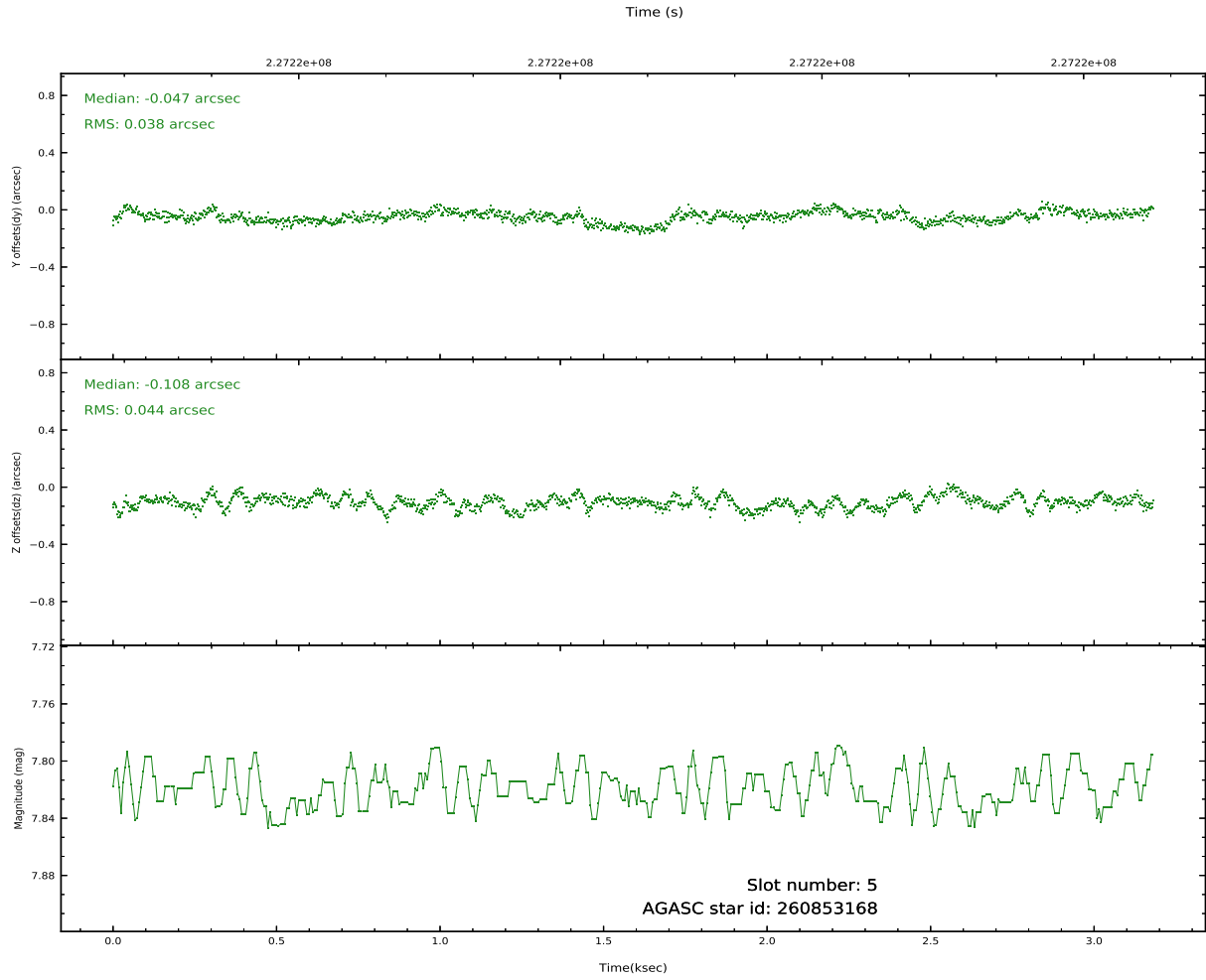
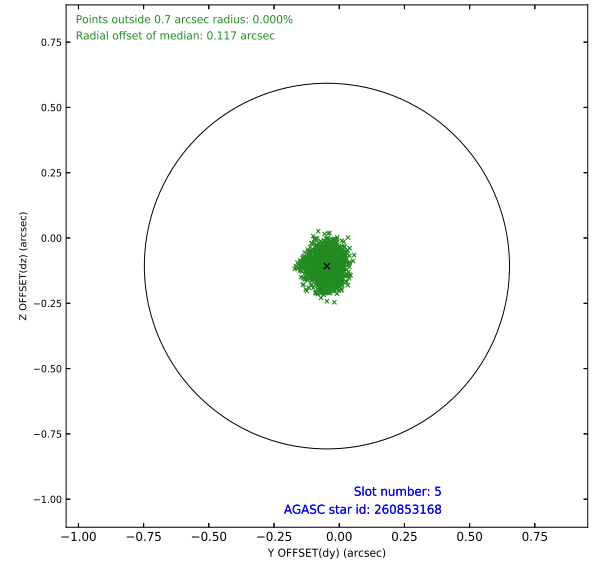
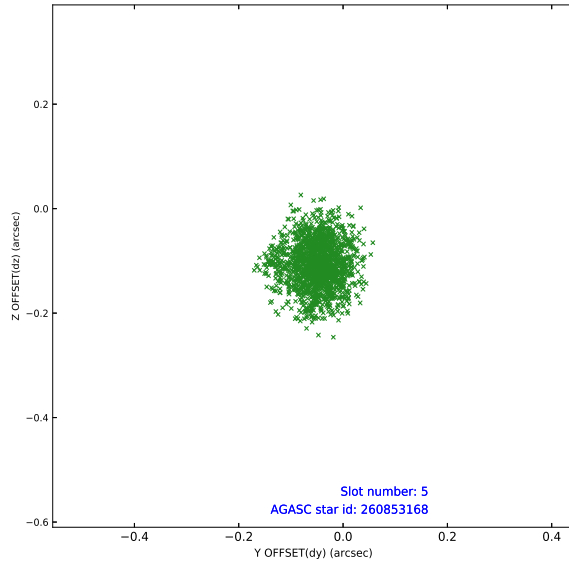
2.4.1 Slot 3



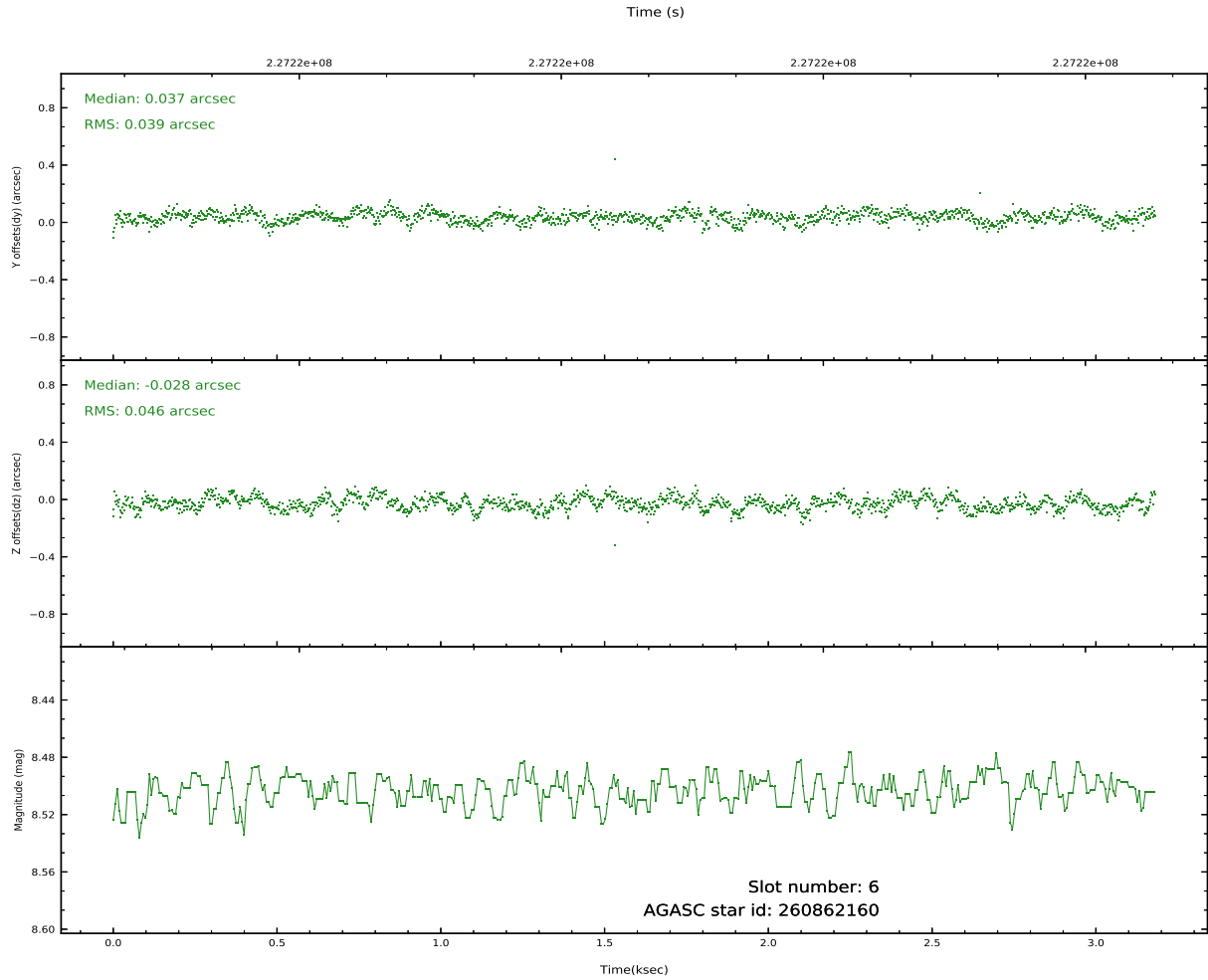
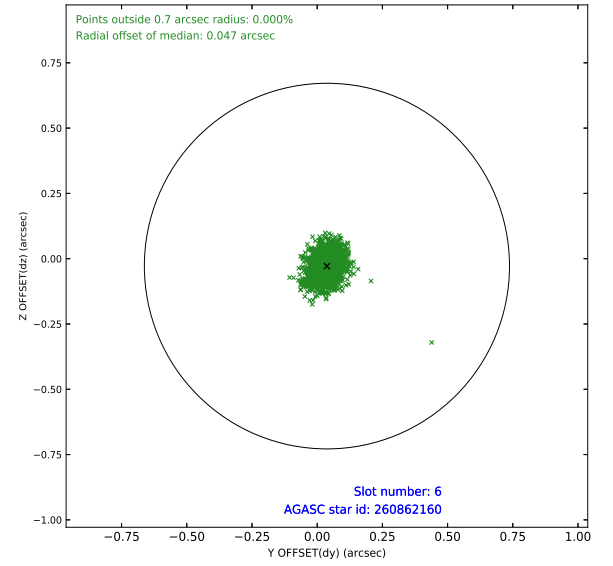
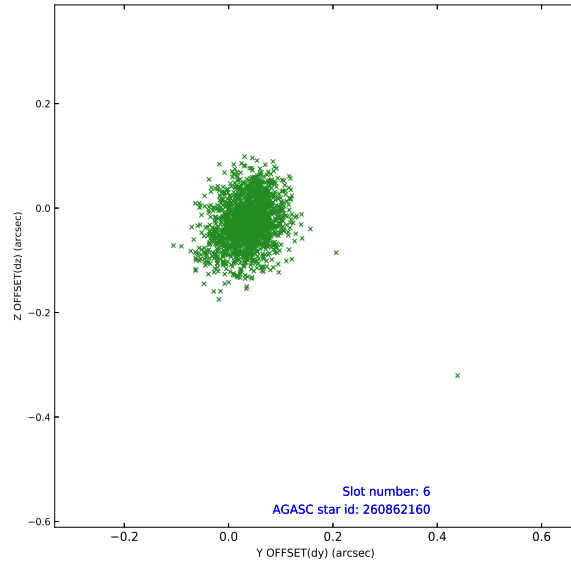
2.4.2 Slot 4



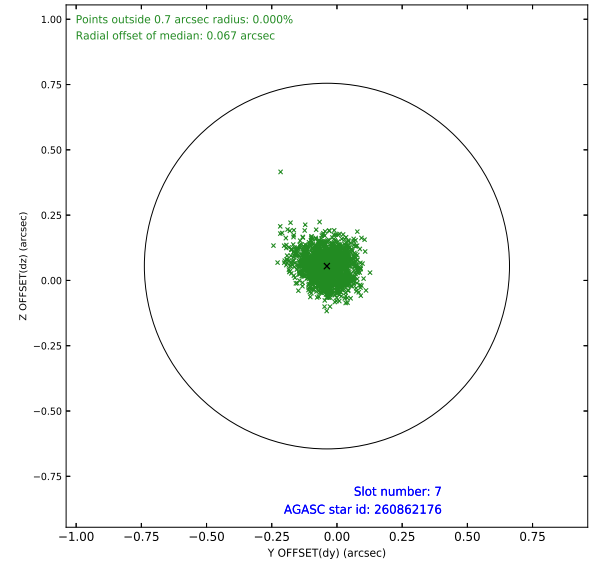
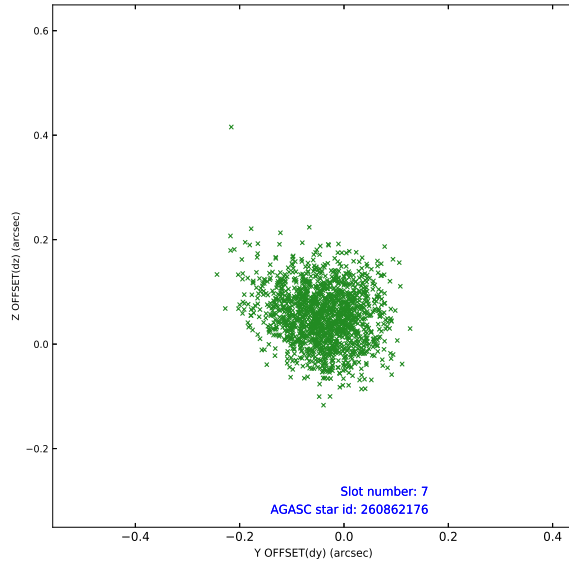
2.4.3 Slot 5



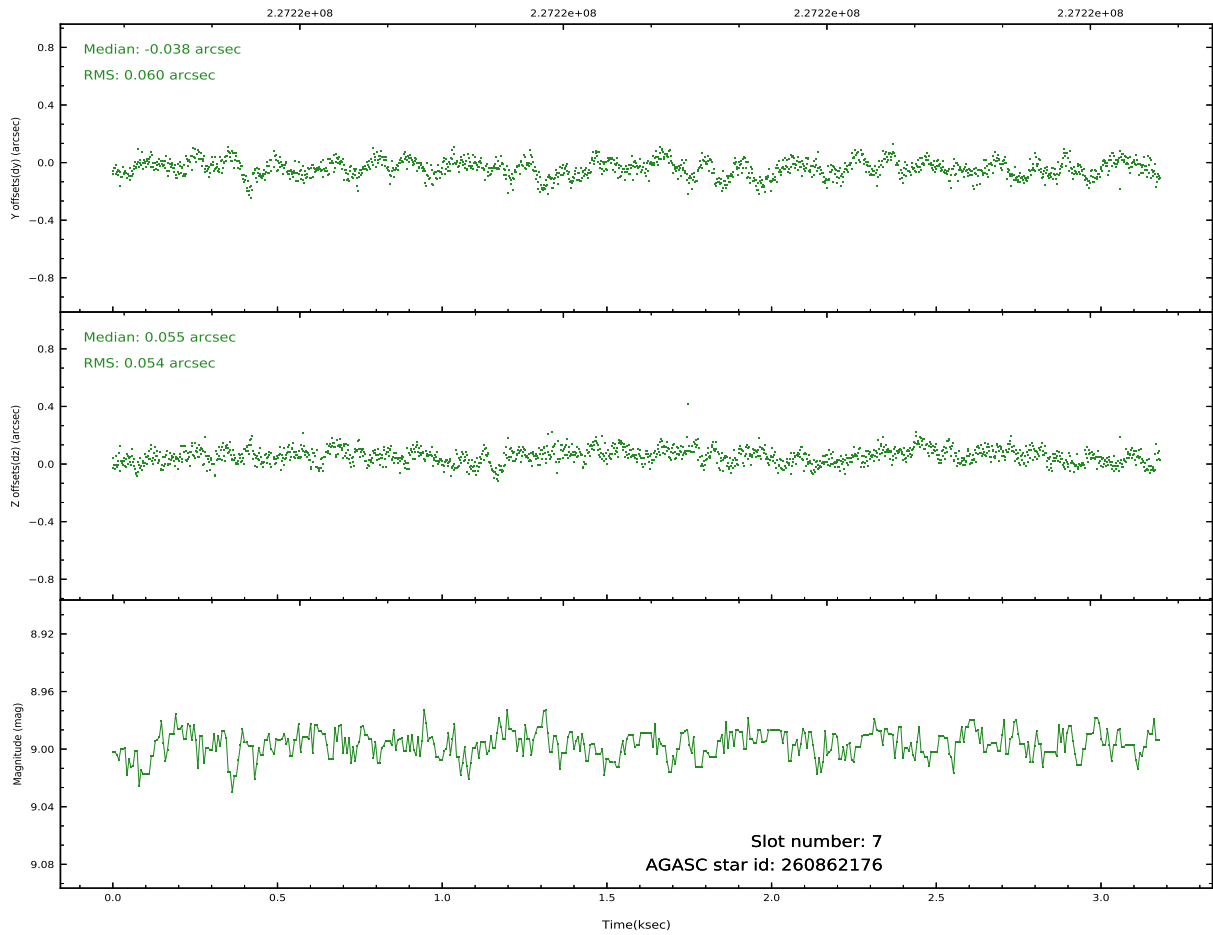
2.4.4 Slot 6



2.4.5 Slot 7

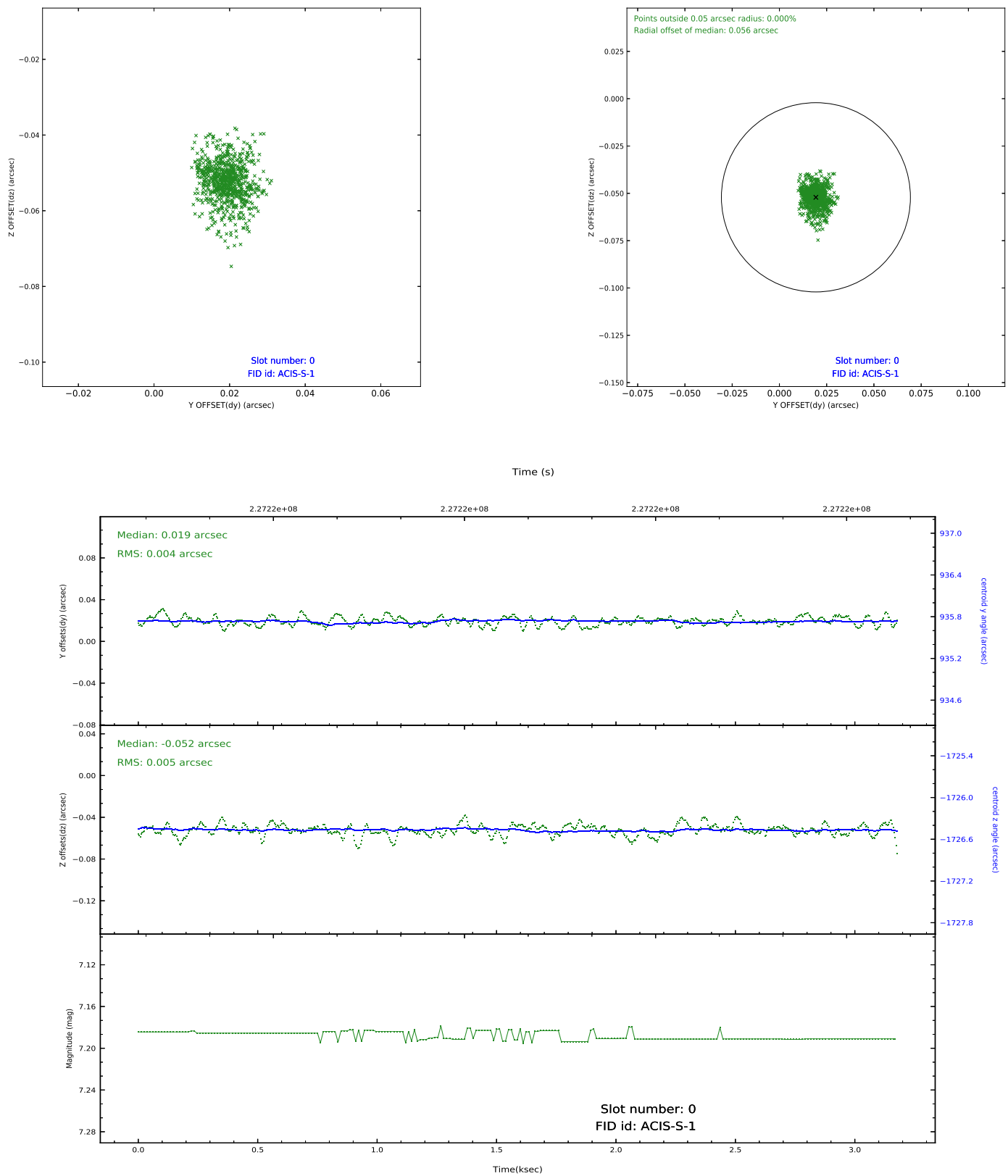


Time (s)

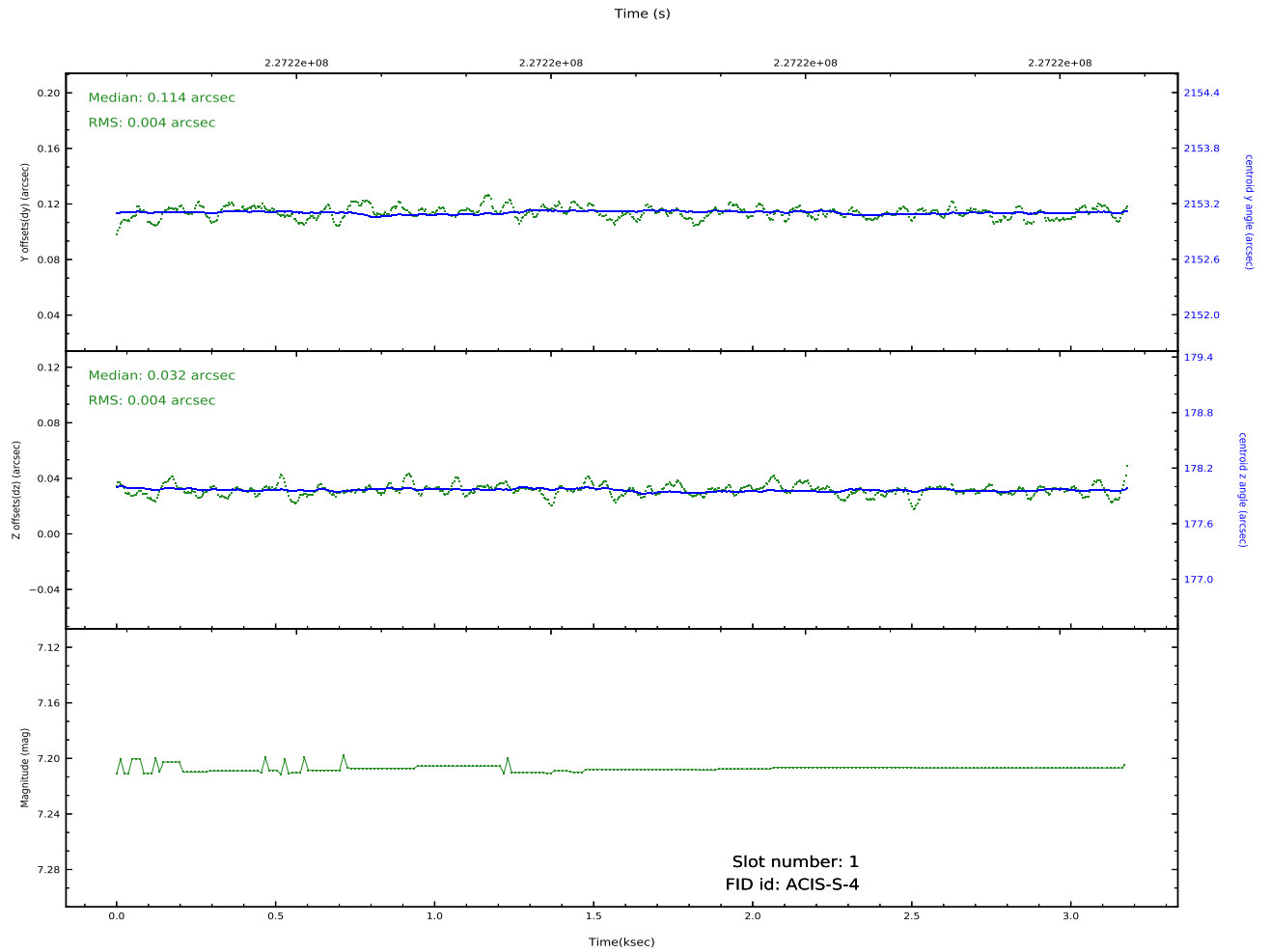
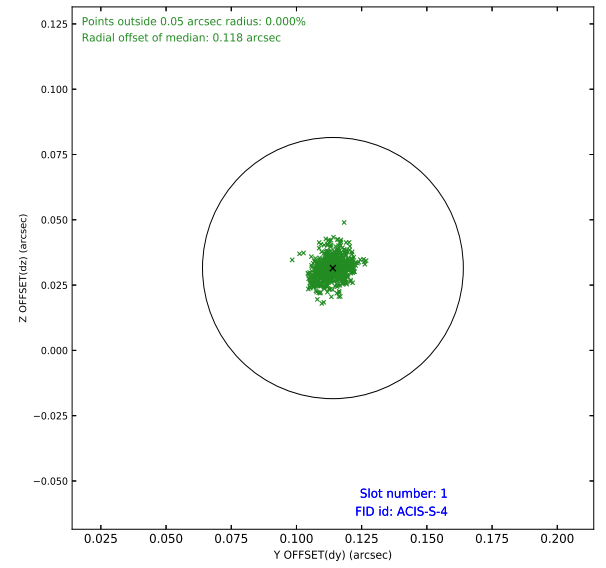
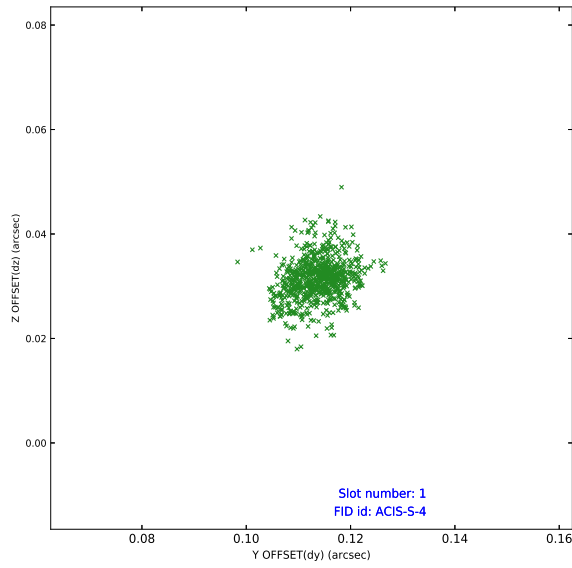


2.5 FID Slots

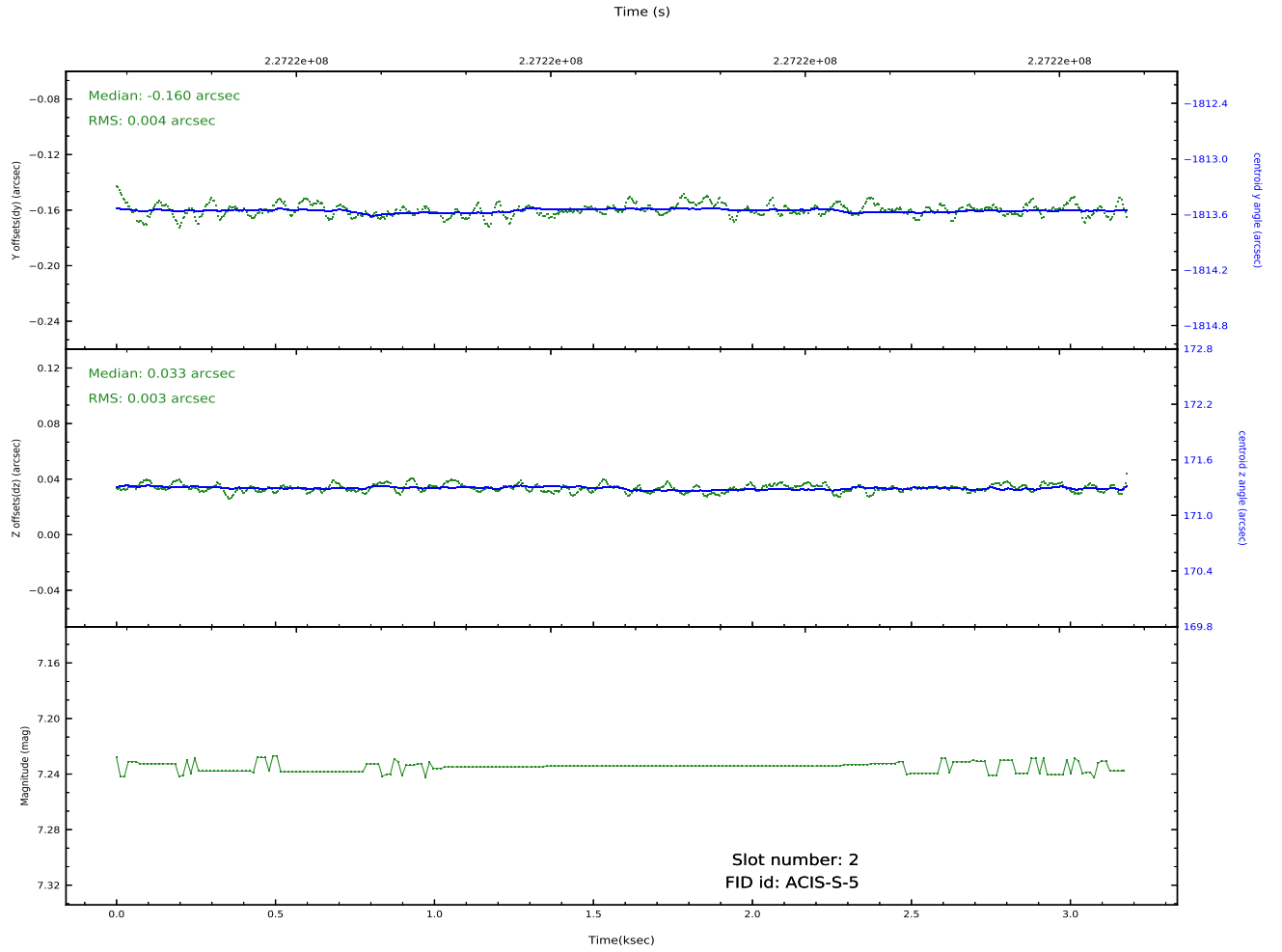
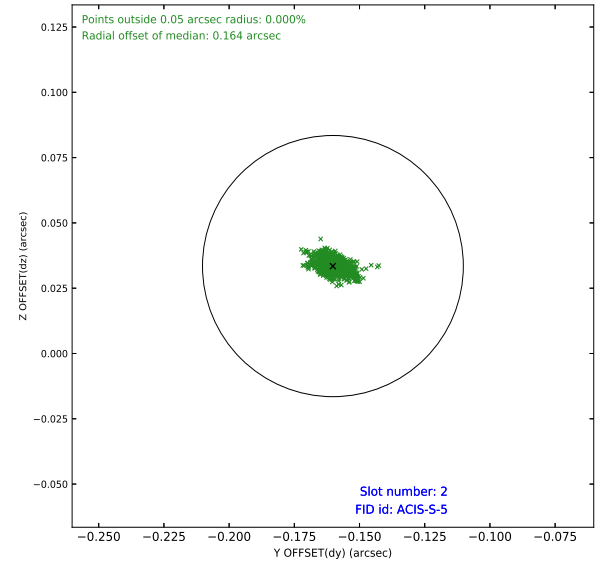
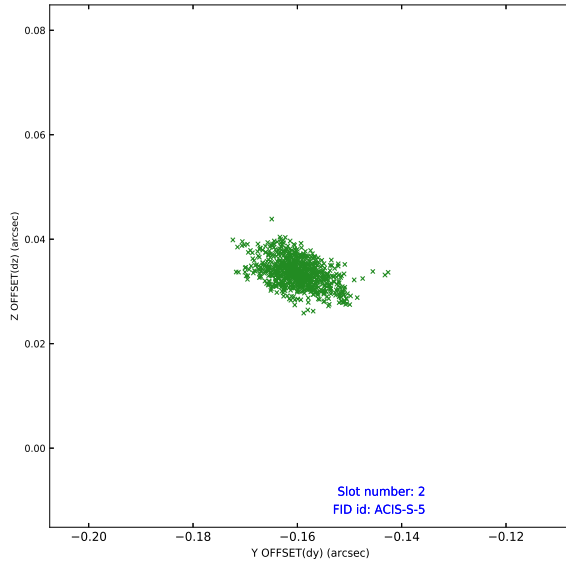
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.177599

A.2 Comments