

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5792 - L2 Version 4
Chandra X-Ray Center

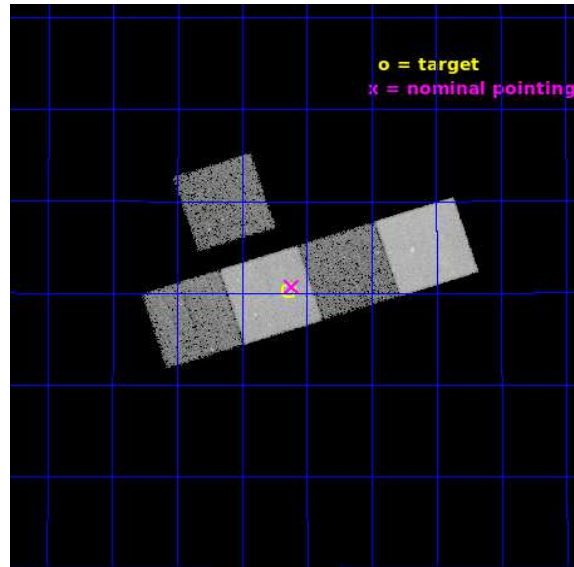
L2 Processing Date : Oct 6 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

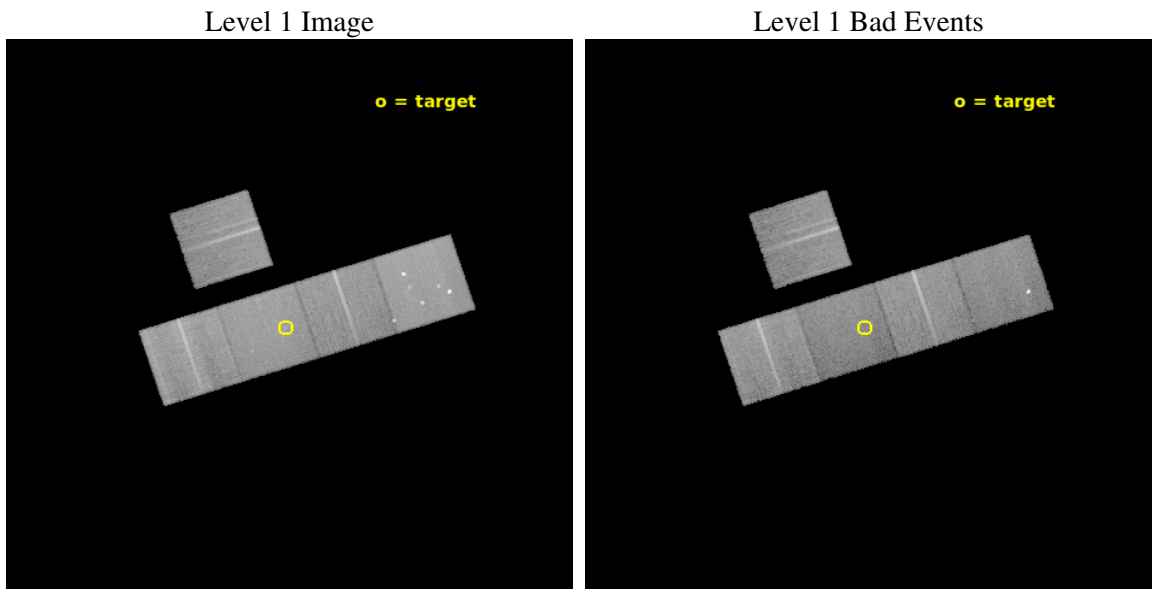
seq_num	800505	Sequence number
obs_id	5792	Observation id
title	Dark Matter in Isolated Ellipticals and Groups	Proposal title
observer	Gordon Garmire	Principal investigator
object	NGC3209	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	155.160417	Observer's specified target RA [deg]
dec_targ	25.504833	Observer's specified target Dec [deg]
ra_nom	155.15397758554	Nominal RA [deg]
dec_nom	25.511701412573	Nominal Dec [deg]
roll_nom	162.0150093303	Nominal Roll [deg]
revision	4	Processing version of data
ontime	21994.499957681	Sum of GTIs [s]
livetime	21707.125623618	Livetime [s]
ontime3	21991.358967453	Sum of GTIs [s]
ontime5	21994.499957681	Sum of GTIs [s]
ontime6	21994.499957681	Sum of GTIs [s]
ontime7	21994.499957681	Sum of GTIs [s]
ontime8	21991.358977437	Sum of GTIs [s]
l2events	188135	Number of level 2 events



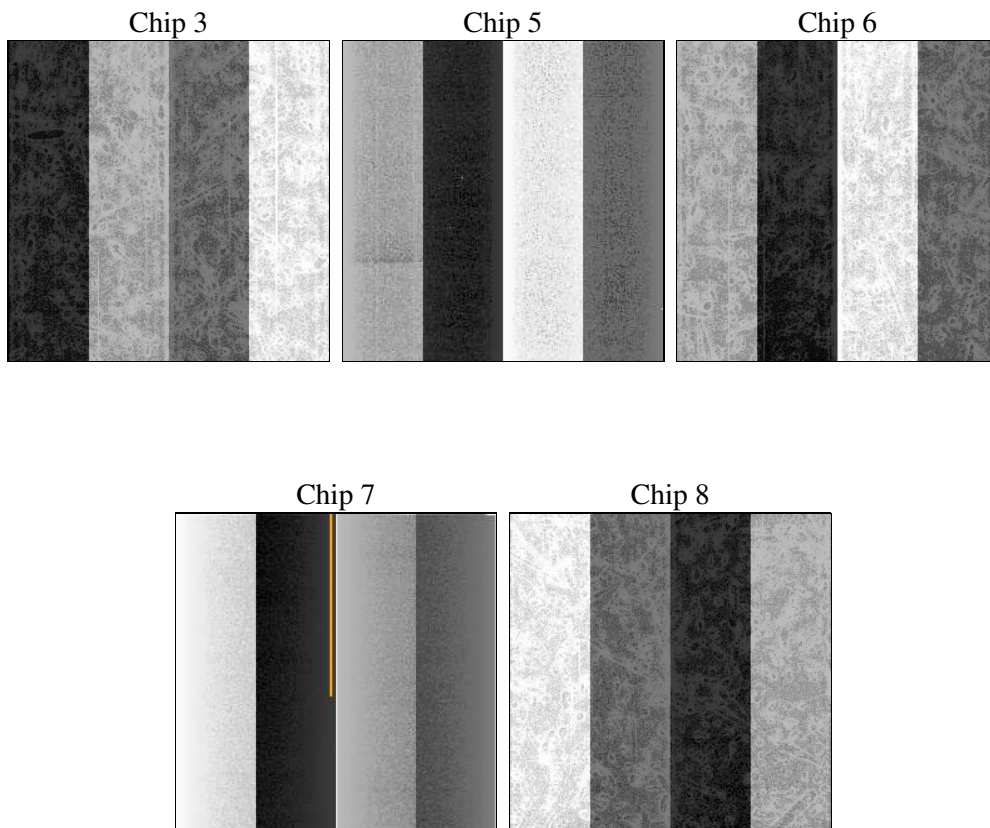
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	21849.328000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	21994.499957681	Sum of GTIs [s]
caldsver	4.9.2	 	ontime3	21991.358967453	Sum of GTIs [s]
date	2020-10-06T21:18:27	Date and time of file creation	ontime5	21994.499957681	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	21994.499957681	Sum of GTIs [s]
			ontime7	21994.499957681	Sum of GTIs [s]
			ontime8	21991.358977437	Sum of GTIs [s]
			l1events	803614	Number of level 1 events

2.1.4 Events

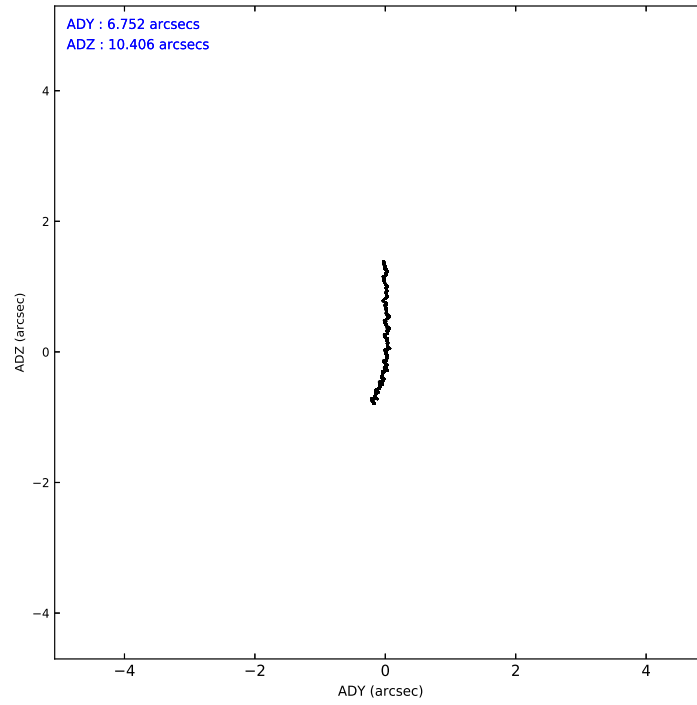
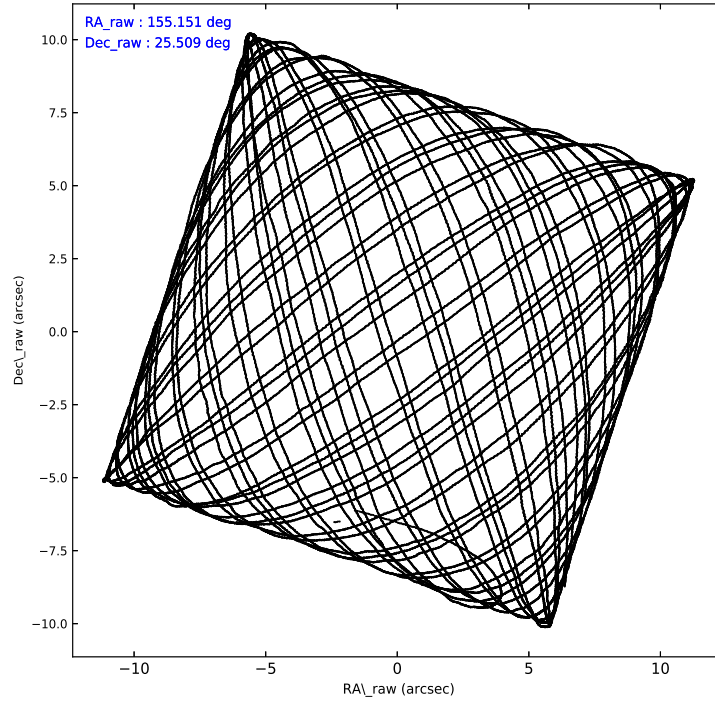
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	134221	200800	139623	156332	172638
rejected events	121803	102469	126015	87018	133418
rejected %	90%	51%	90%	55%	77%

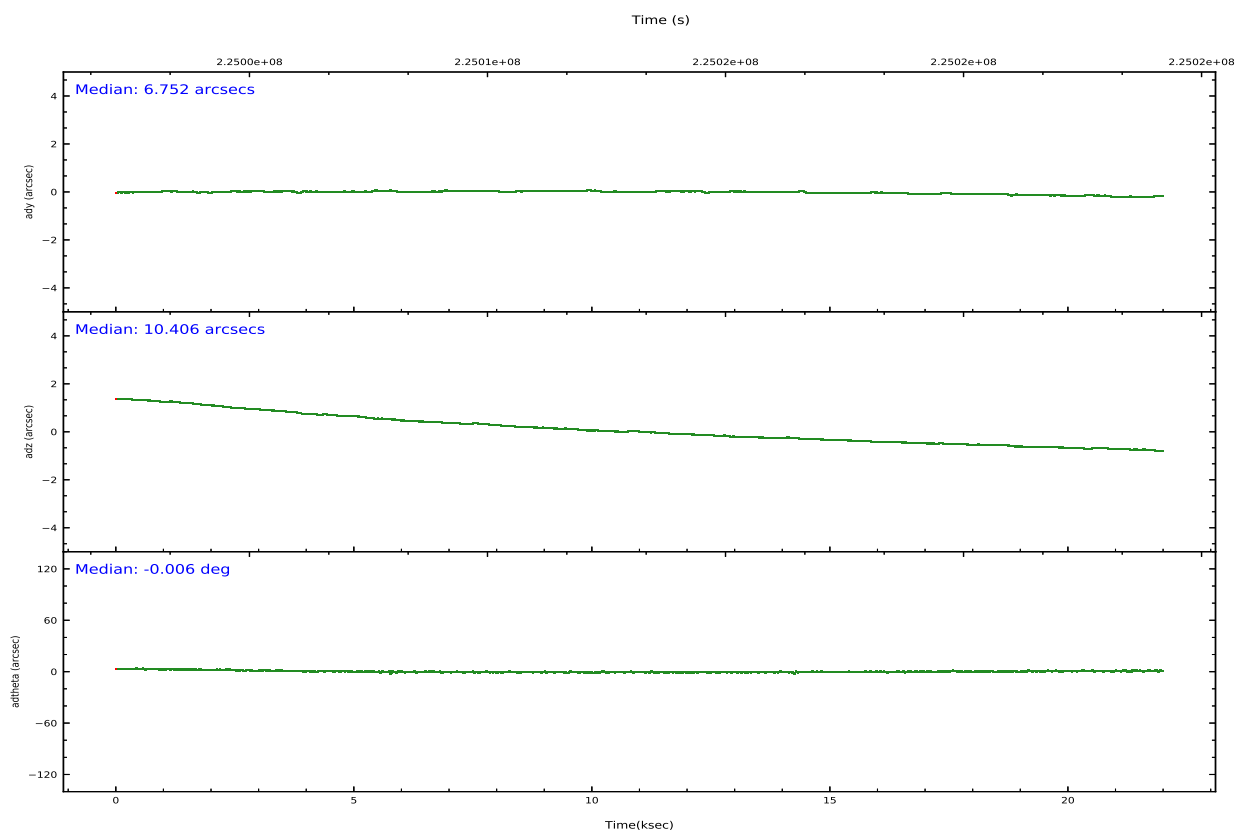
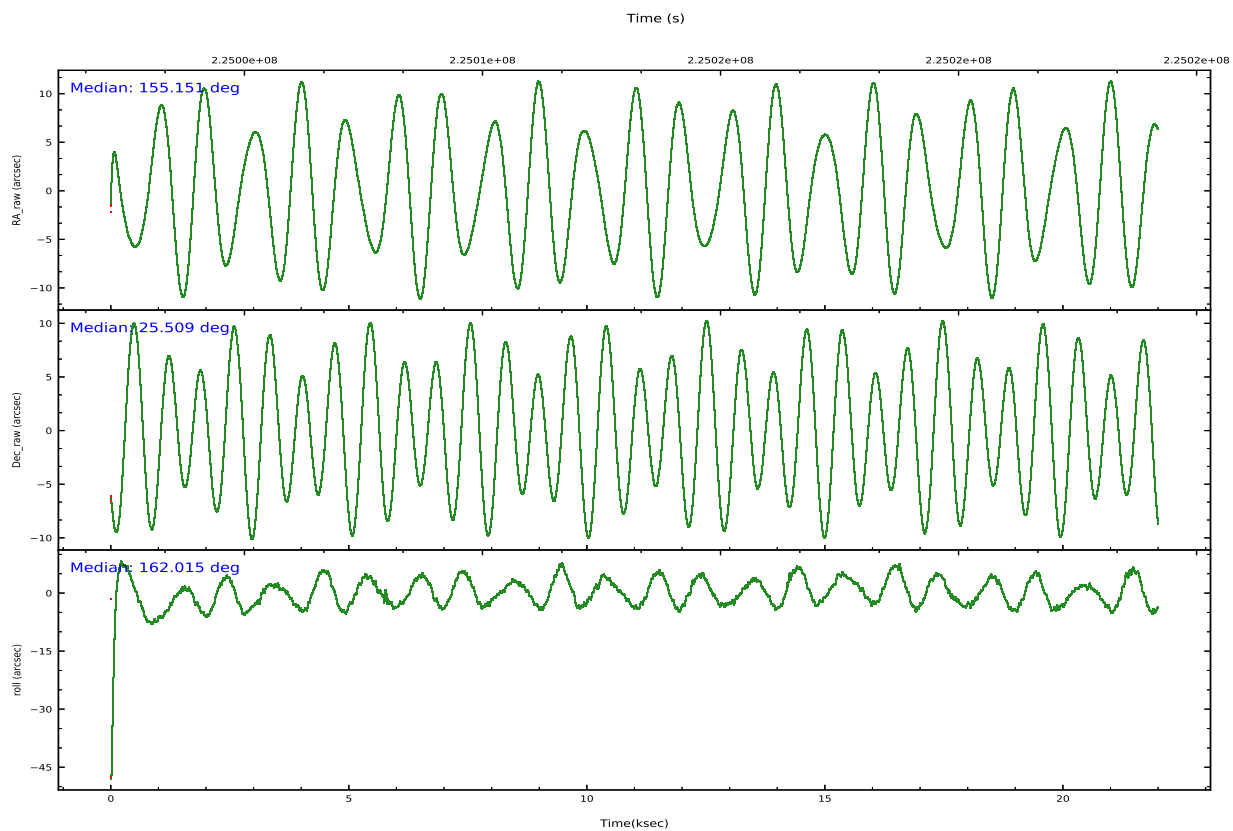
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	4454	16138	4773	6631	12415
	3%	8%	3%	4%	7%
grade 1 events	66	225	57	138	117
	0%	0%	0%	0%	0%
grade 2 events	2761	28268	3053	14367	8853
	2%	14%	2%	9%	5%
grade 3 events	1517	4496	1576	6860	4391
	1%	2%	1%	4%	2%
grade 4 events	1449	4091	1511	6744	4097
	1%	2%	1%	4%	2%
grade 5 events	5349	16079	5565	16513	7967
	3%	8%	3%	10%	4%
grade 6 events	2577	48075	3084	36597	10492
	1%	23%	2%	23%	6%
grade 7 events	116048	83428	120004	68482	124306
	86%	41%	85%	43%	72%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-35678	ACIS-35678	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	155.180386	155.15397758554	Subarray requested	NONE	NONE
[deg] Pointing Dec	25.515413	25.511701412573	Alternating exposures requested	N	N
[deg] Pointing Roll	161.840016	162.0150093303	[s] Primary exposure time	0.000000	3.1
[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)	225002344.184000	225001050.00858			
Observation start date	2005-02-17T04:38:00	2005-02-17T04:17:30			
[s] Observation end time (MET)	225024193.184000	225024417.44713			
Observation end date	2005-02-17T10:42:09	2005-02-17T10:46:57			
Read mode	TIMED	TIMED			

2.3 Aspect



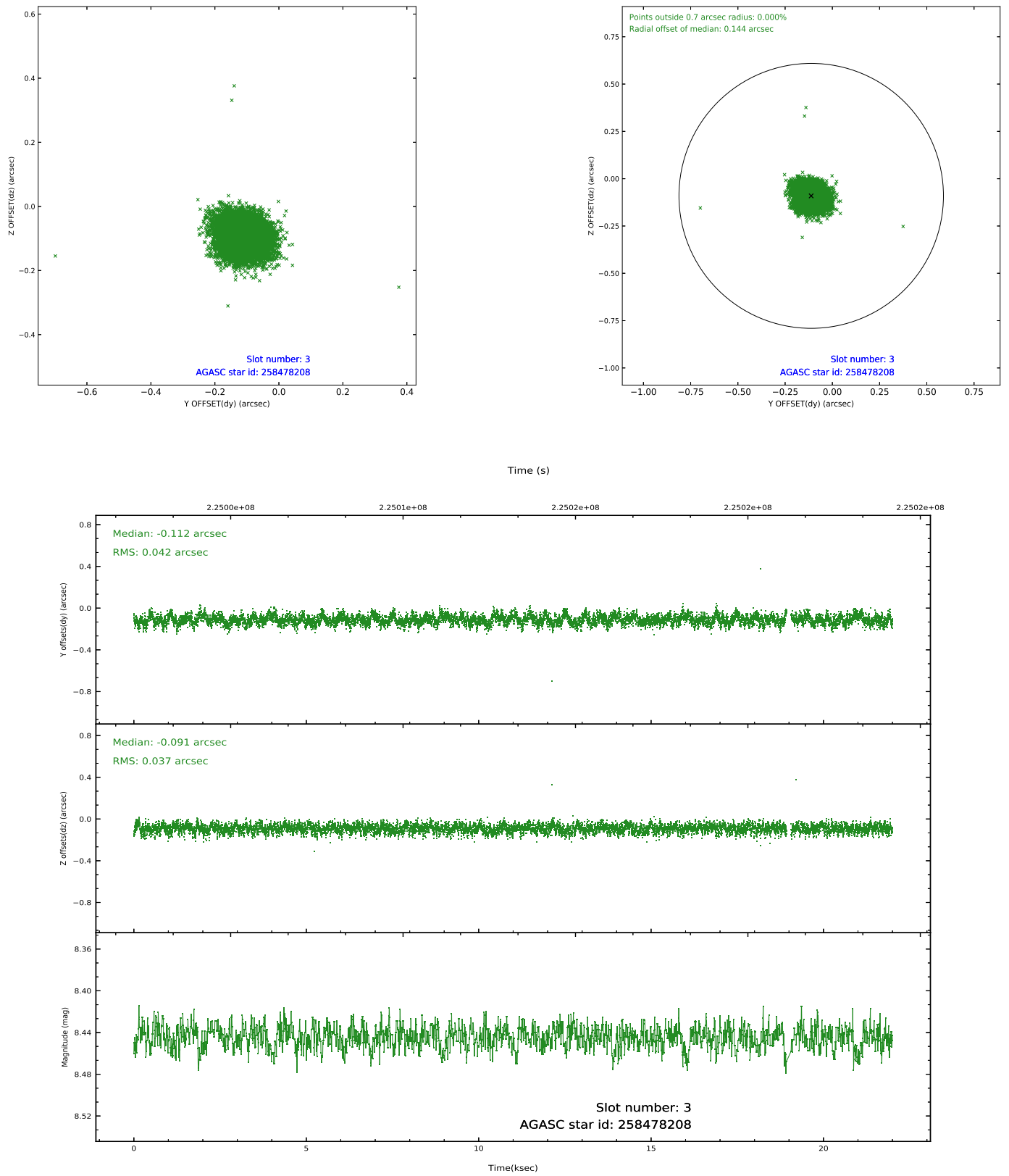


Slot Statistics

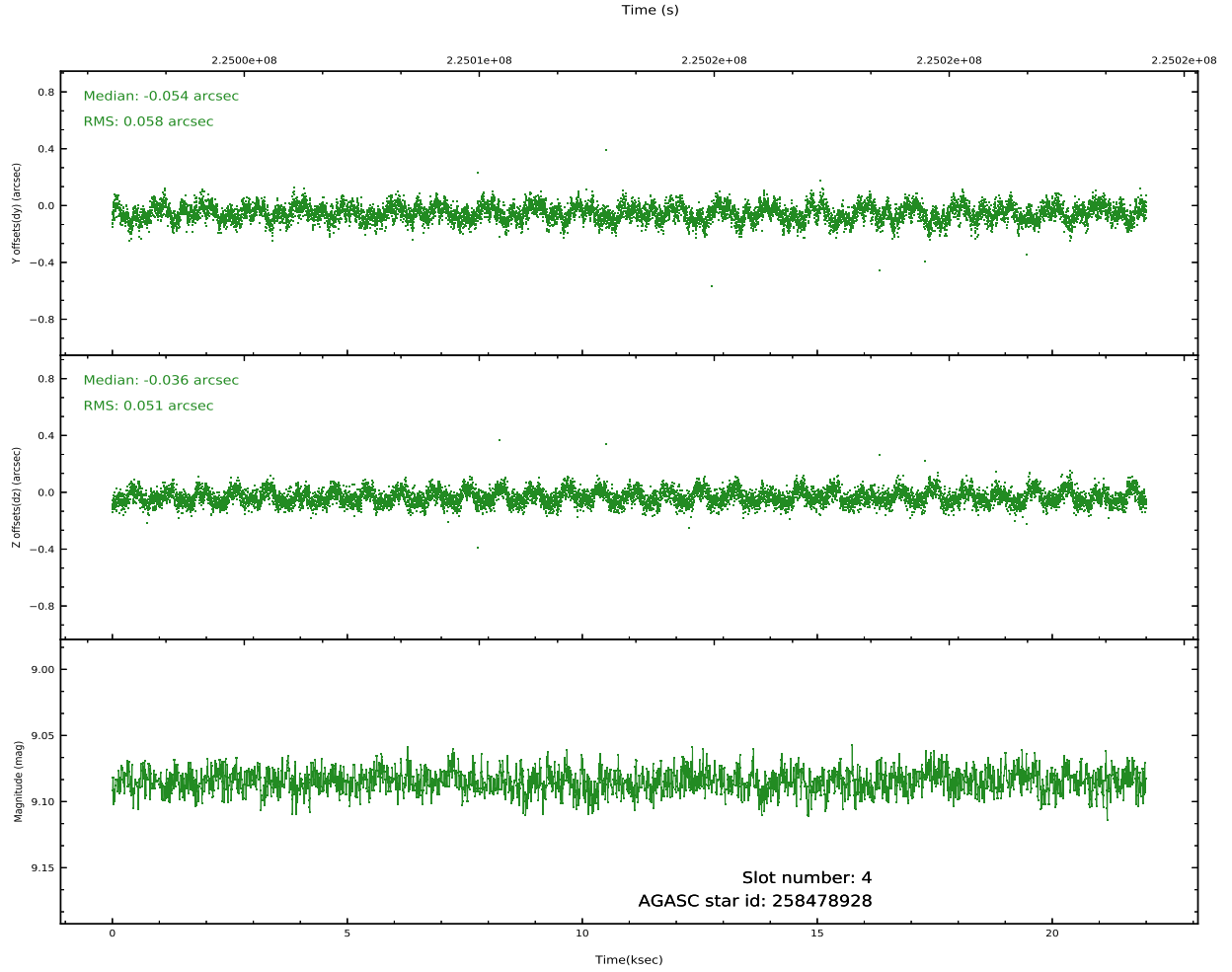
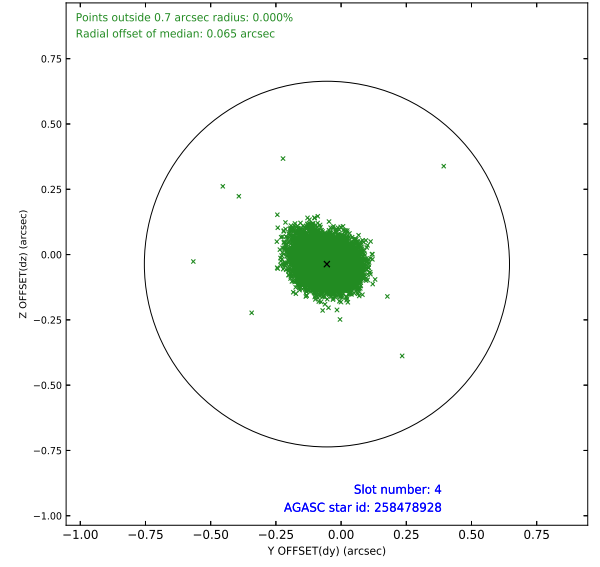
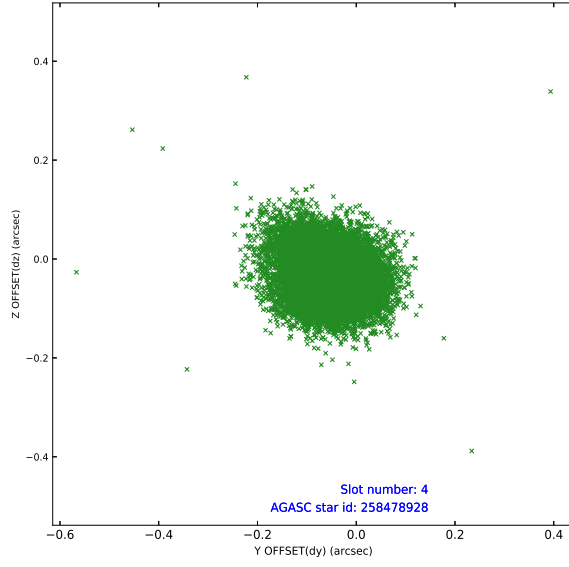
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	5366	1.000	-0.087	-0.060	0.011	0.020	0.000000	0.000000	-759.50	-1731
1	FID		ACIS-S-4	7.21	5367	1.000	0.141	0.058	0.010	0.021	0.000000	0.000000	2153.87	176
2	FID		ACIS-S-5	7.23	5365	1.000	-0.085	0.011	0.009	0.015	0.000000	0.000000	-1812.20	170
3	GUIDE	used	258478208	8.44	10664	1.000	-0.112	-0.091	0.059	0.095	155.656432	25.212449	-1812.77	550
4	GUIDE	used	258478928	9.08	10723	1.000	-0.054	-0.036	0.082	0.132	155.617264	25.106868	-1811.06	952
5	GUIDE	used	258479136	8.35	10733	1.000	-0.050	-0.056	0.062	0.096	155.125492	25.678252	351.71	-501
6	GUIDE	used	258086400	9.08	10732	1.000	-0.024	0.049	0.092	0.147	155.666282	24.778398	-2334.90	2023
7	GUIDE	used	258483976	9.10	10725	1.000	0.243	0.132	0.128	0.194	154.281613	25.129764	2353.88	2223

2.4 Star Slots

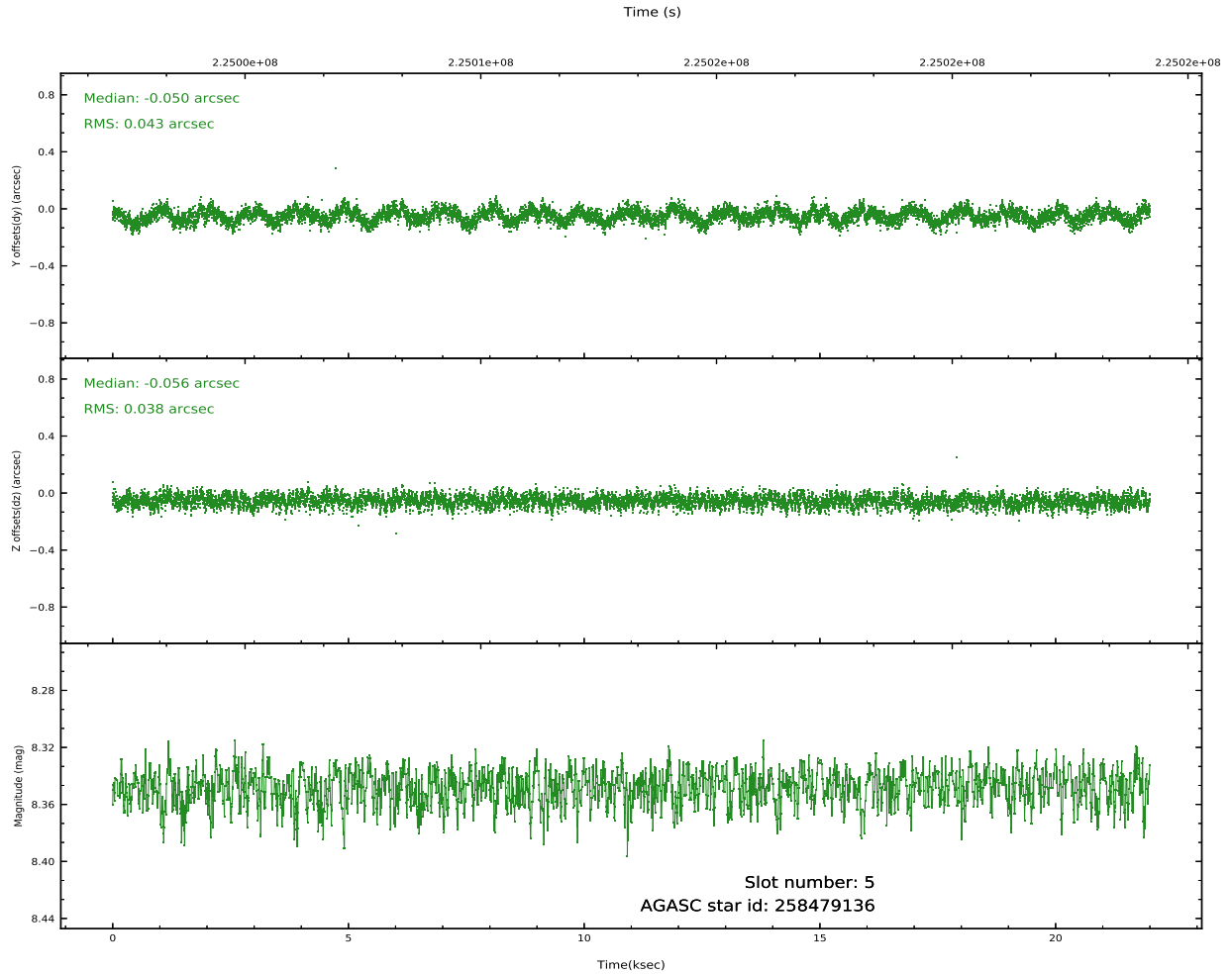
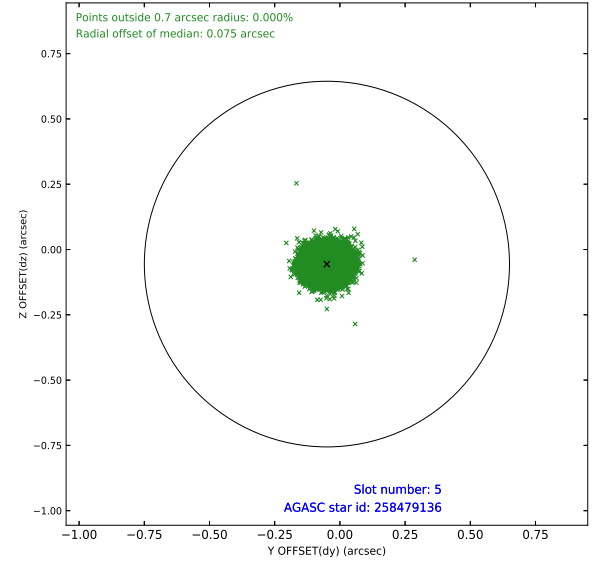
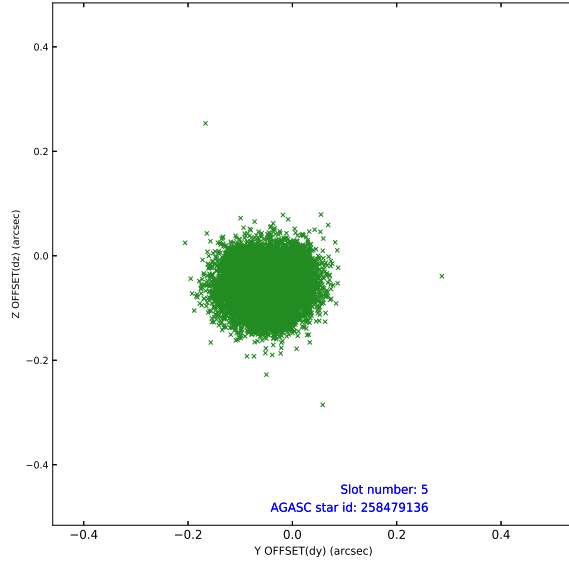
2.4.1 Slot 3



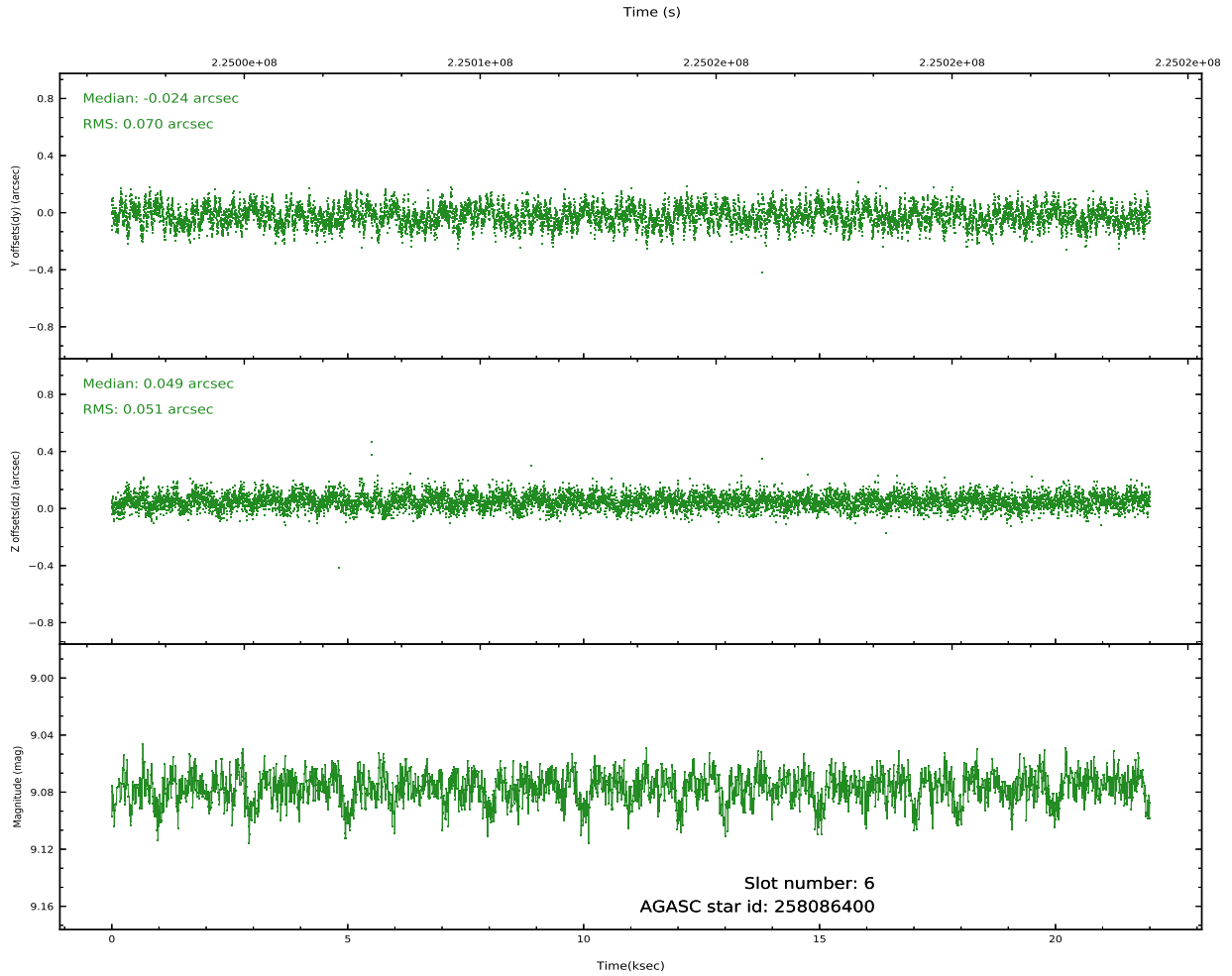
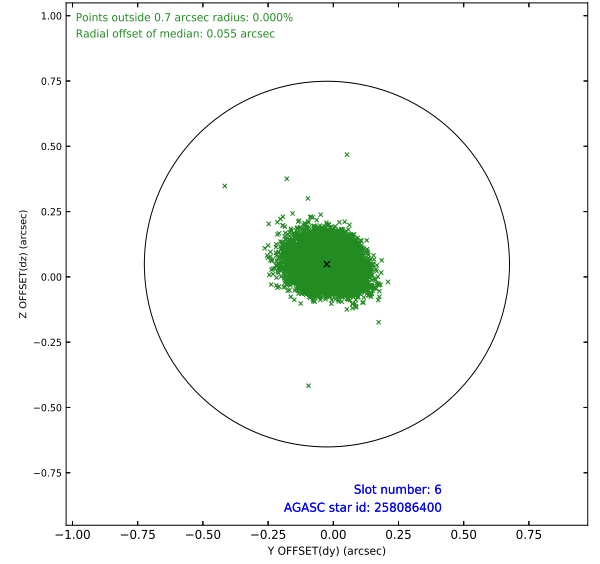
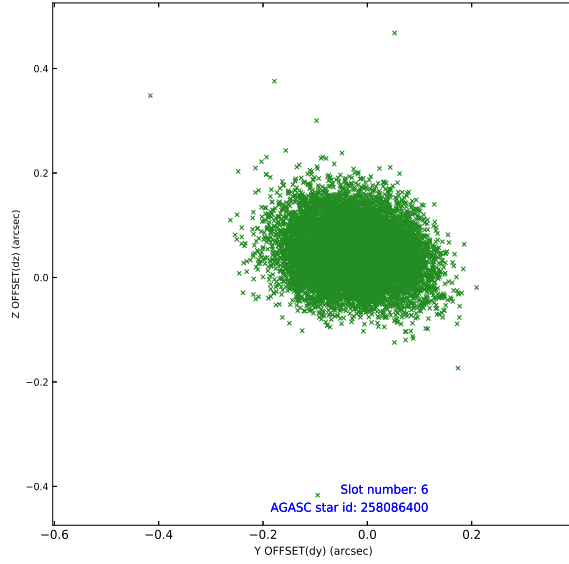
2.4.2 Slot 4



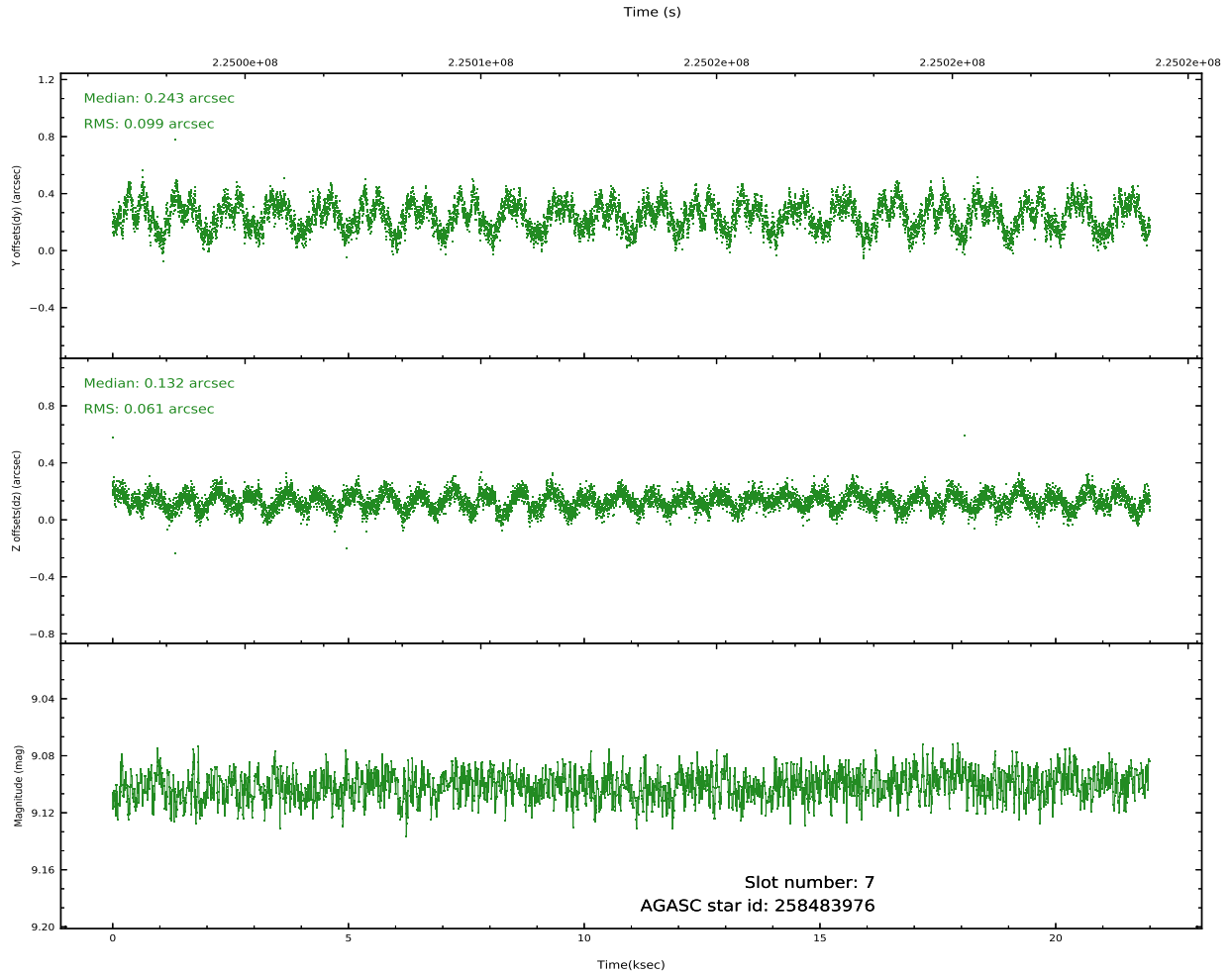
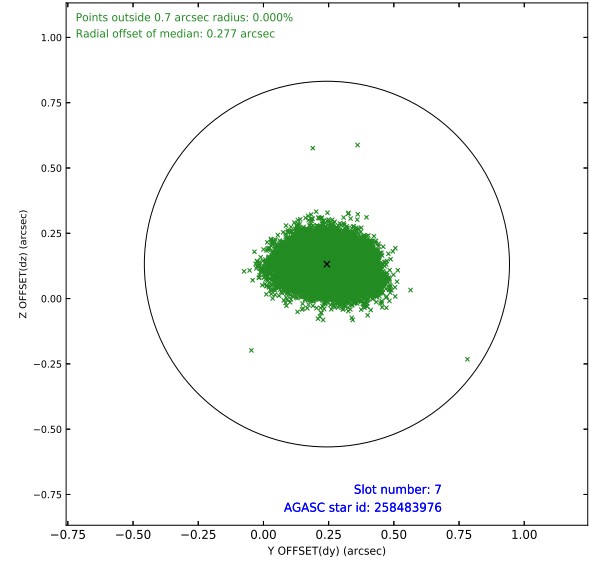
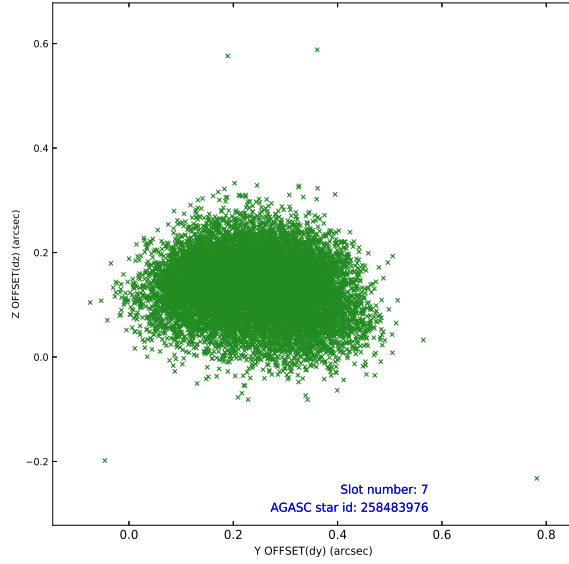
2.4.3 Slot 5



2.4.4 Slot 6

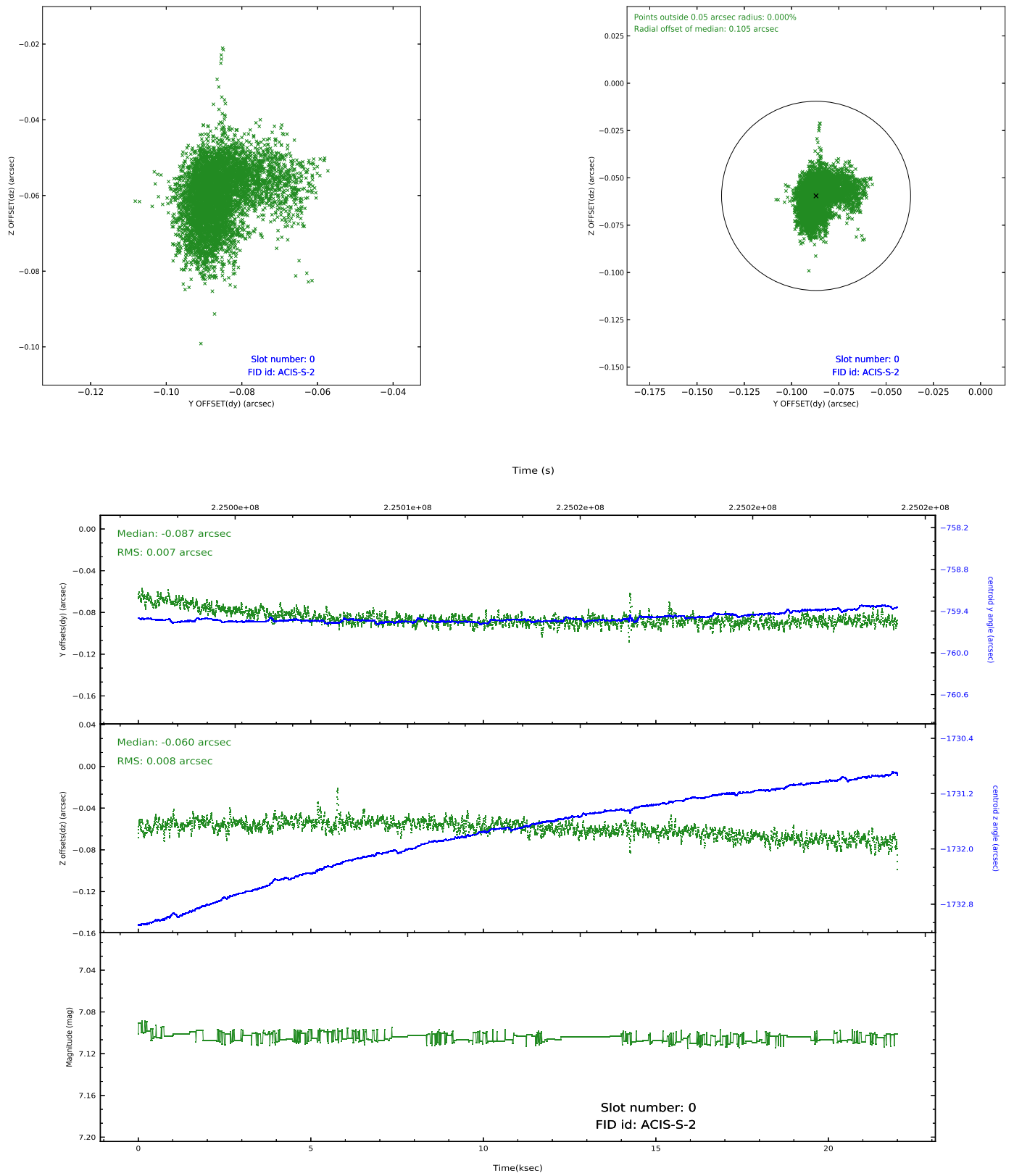


2.4.5 Slot 7

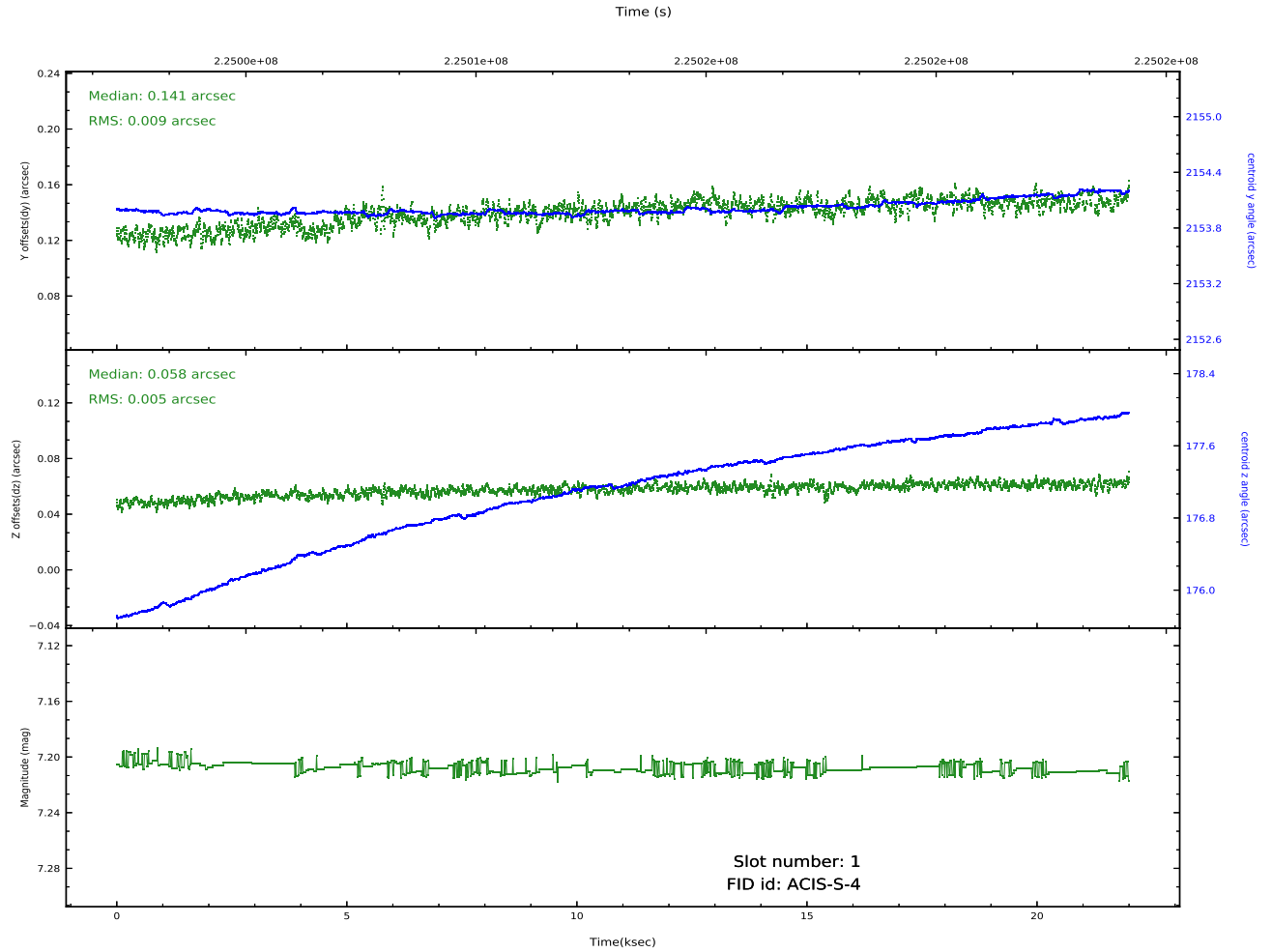
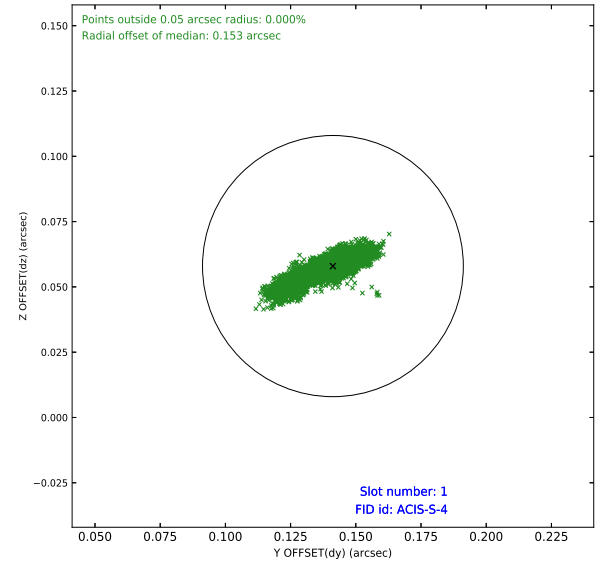
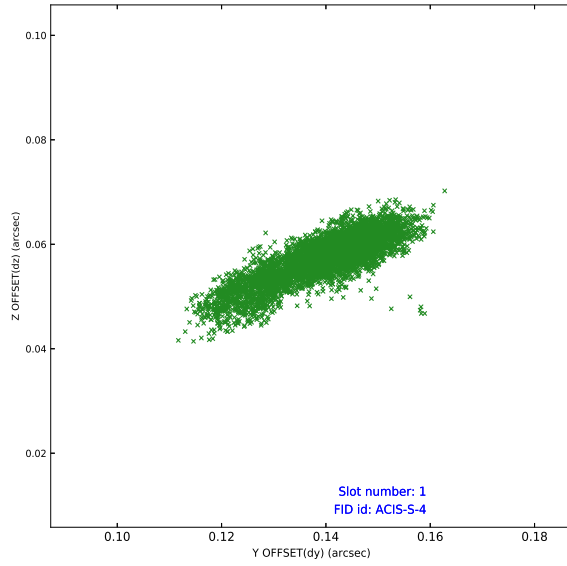


2.5 FID Slots

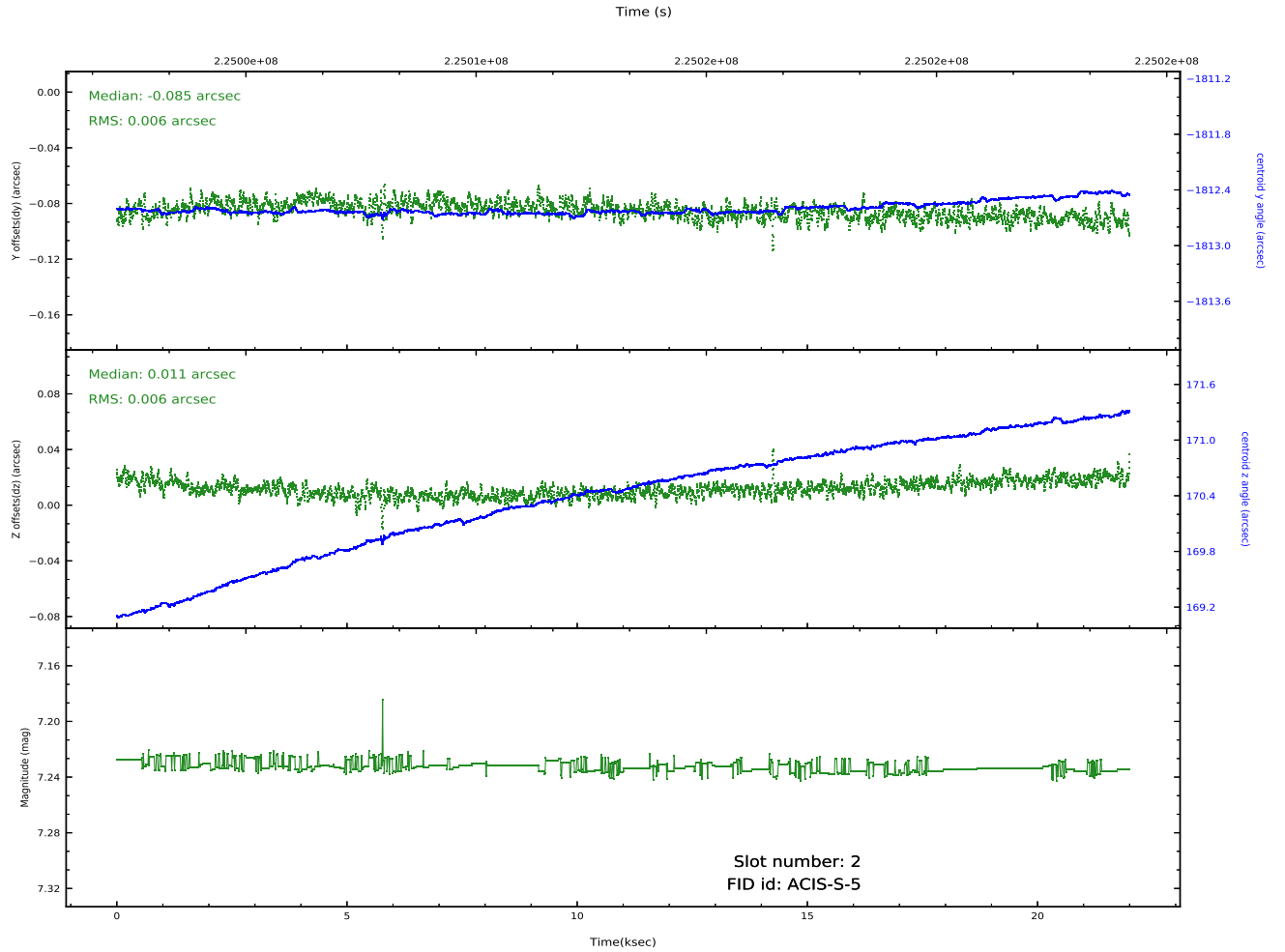
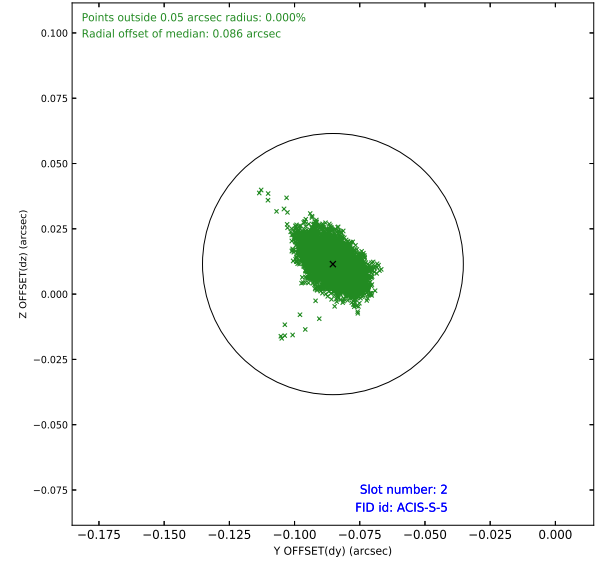
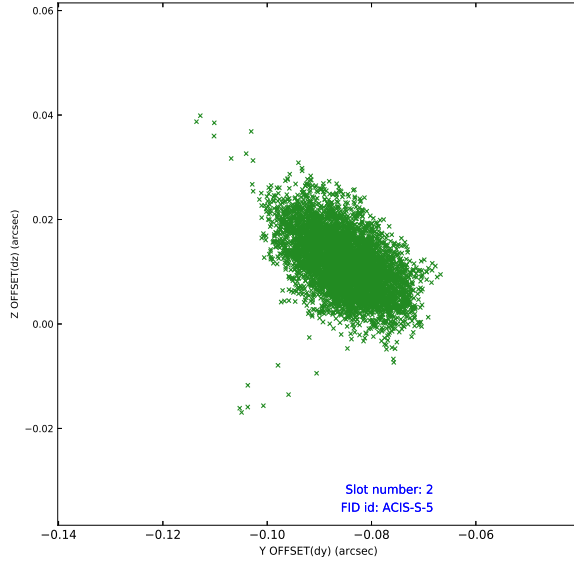
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.99449

A.2 Comments