

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5789 - L2 Version 4
Chandra X-Ray Center

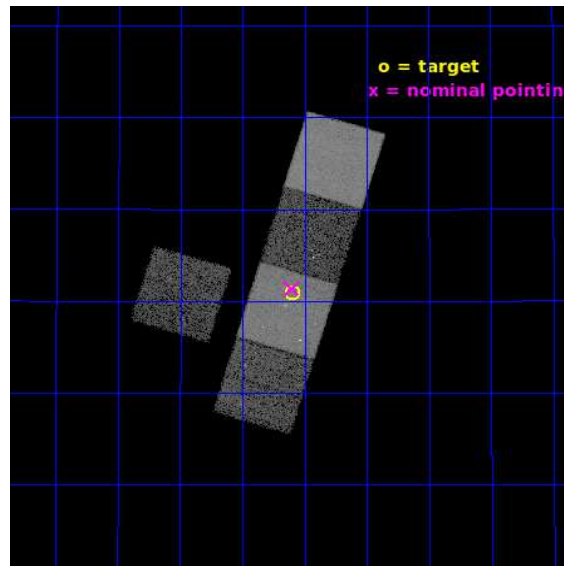
L2 Processing Date : Oct 6 2020

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1 Front

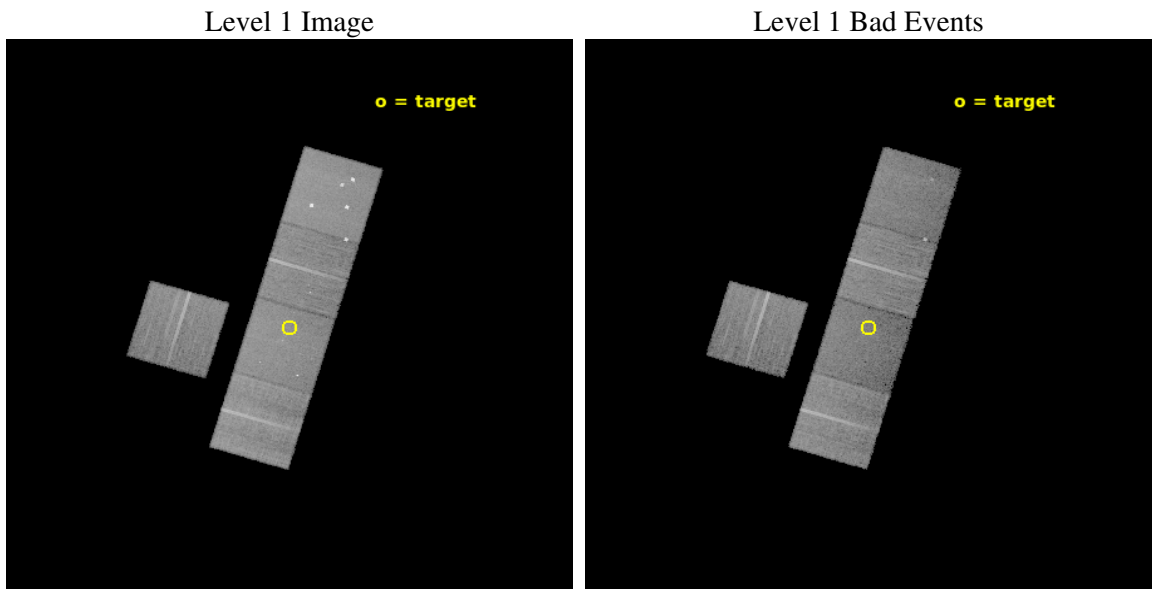
seq_num	800502	Sequence number
obs_id	5789	Observation id
title	HI-Deficient Ultracompact Groups	Proposal title
observer	Prof Trevor Ponman	Principal investigator
object	HCG 37	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	138.398333	Observer's specified target RA [deg]
dec_targ	30.014167	Observer's specified target Dec [deg]
ra_nom	138.40052979981	Nominal RA [deg]
dec_nom	30.022807261959	Nominal Dec [deg]
roll_nom	106.83209347423	Nominal Roll [deg]
revision	4	Processing version of data
ontime	18169.099965036	Sum of GTIs [s]
livetime	17931.707298096	Livetime [s]
ontime3	18162.817994535	Sum of GTIs [s]
ontime5	18169.099965036	Sum of GTIs [s]
ontime6	18165.958974779	Sum of GTIs [s]
ontime7	18169.099965036	Sum of GTIs [s]
ontime8	18169.099965036	Sum of GTIs [s]
l2events	158291	Number of level 2 events



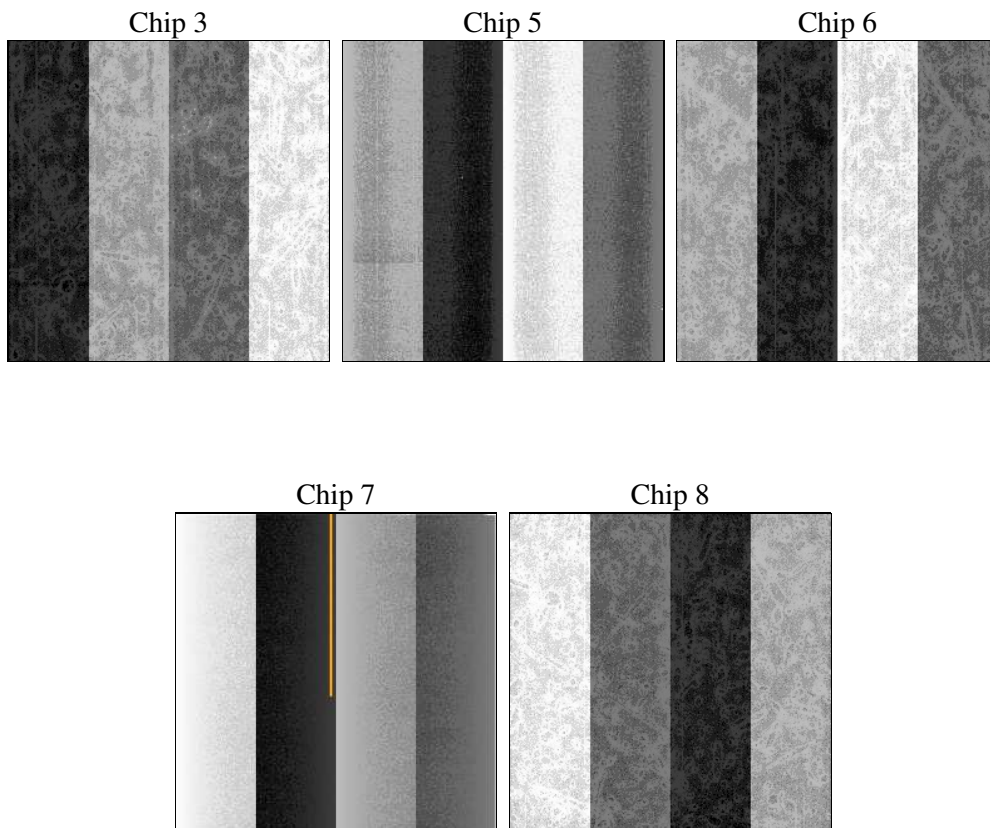
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	18169.099965036	Sum of GTIs [s]
caldbver	4.9.2	 	ontime3	18162.817994535	Sum of GTIs [s]
date	2020-10-06T04:04:07	Date and time of file creation	ontime5	18169.099965036	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	18165.958974779	Sum of GTIs [s]
			ontime7	18169.099965036	Sum of GTIs [s]
			ontime8	18169.099965036	Sum of GTIs [s]
			l1events	705849	Number of level 1 events

2.1.4 Events

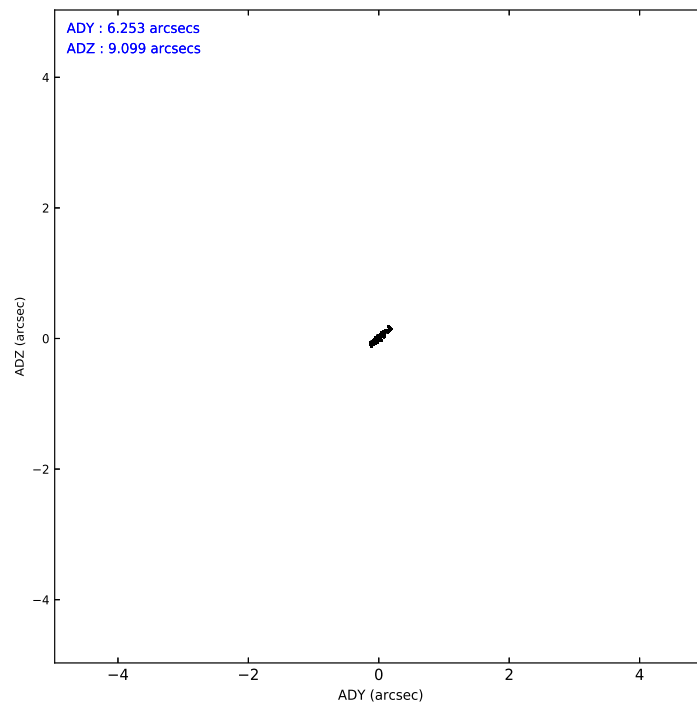
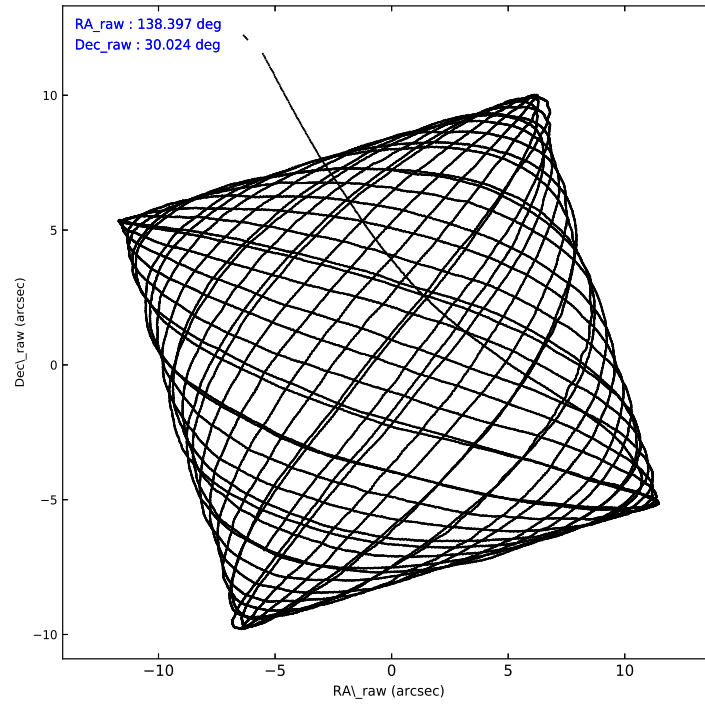
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	114596	177542	124122	134446	155143
rejected events	104371	86774	111797	75269	122968
rejected %	91%	48%	90%	55%	79%

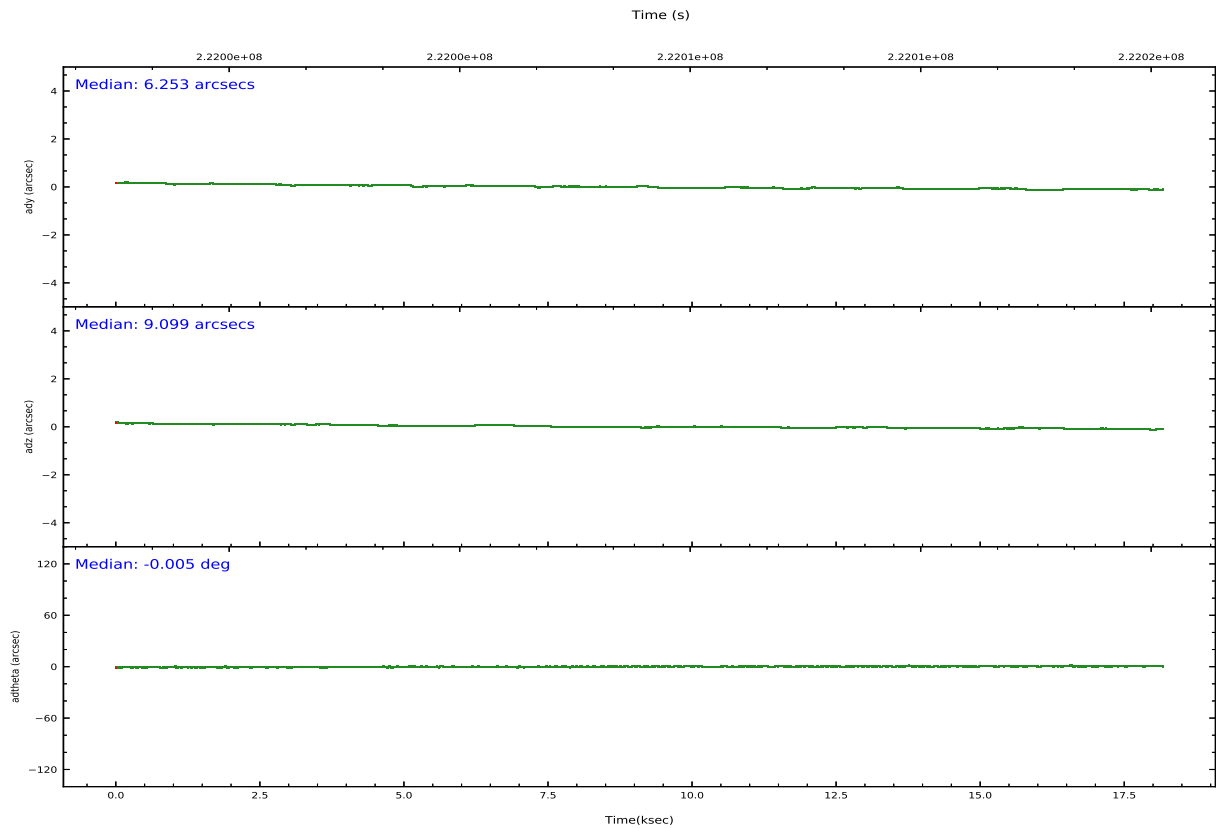
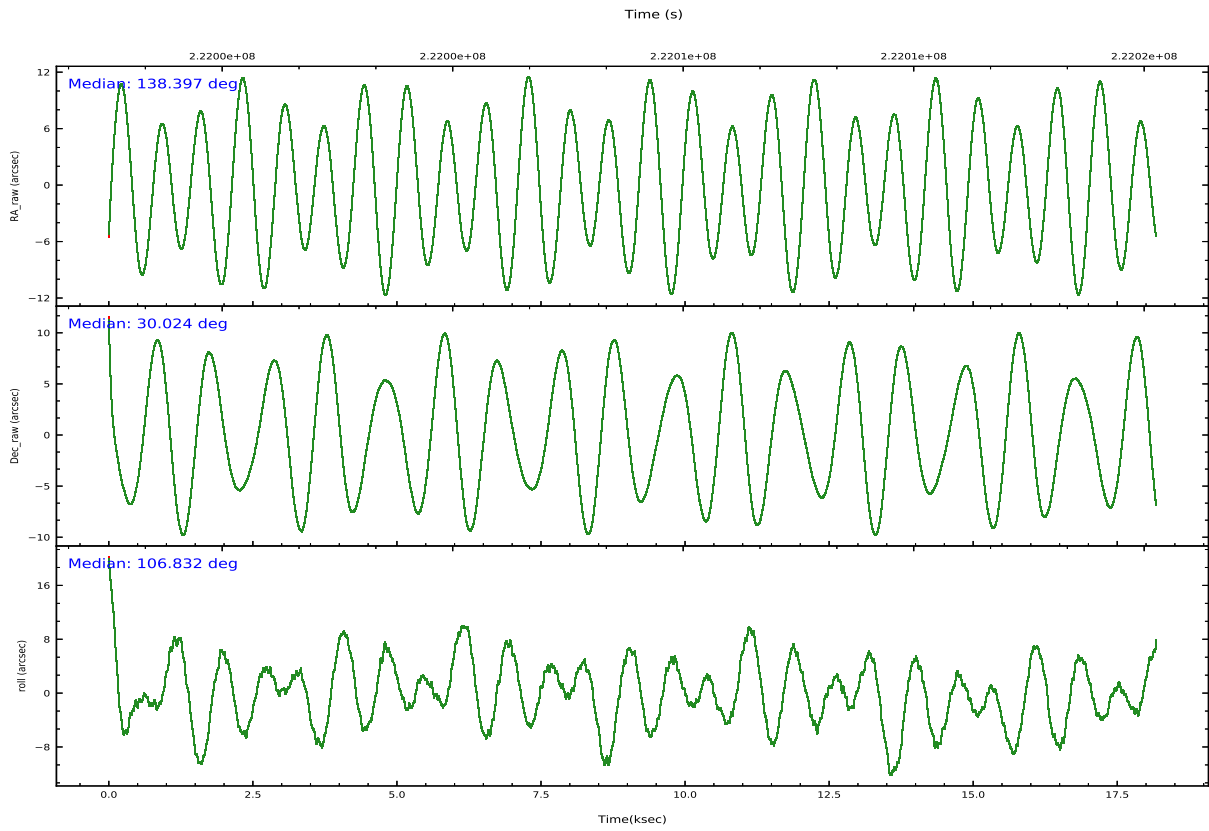
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	3962	20130	4989	6672	10473
	3%	11%	4%	4%	6%
grade 1 events	52	713	52	130	100
	0%	0%	0%	0%	0%
grade 2 events	2239	26610	2700	12545	7550
	1%	14%	2%	9%	4%
grade 3 events	1211	3827	1393	6013	3743
	1%	2%	1%	4%	2%
grade 4 events	1236	3848	1332	6118	3475
	1%	2%	1%	4%	2%
grade 5 events	4393	13519	4910	13955	6629
	3%	7%	3%	10%	4%
grade 6 events	2205	41393	2672	31365	9198
	1%	23%	2%	23%	5%
grade 7 events	99298	67502	106074	57648	113975
	86%	38%	85%	42%	73%

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	138.420246	138.40052979981	Subarray requested	NONE	NONE
[deg] Pointing Dec	30.005406	30.022807261959	Alternating exposures requested	N	N
[deg] Pointing Roll	106.665809	106.83209347423	[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)	221998208.184000	221996645.21032			
Observation start date	2005-01-13T10:09:04	2005-01-13T09:44:05			
[s] Observation end time (MET)	222016208.184000	222017404.02375			
Observation end date	2005-01-13T15:09:04	2005-01-13T15:30:04			
Read mode	TIMED	TIMED			

2.3 Aspect



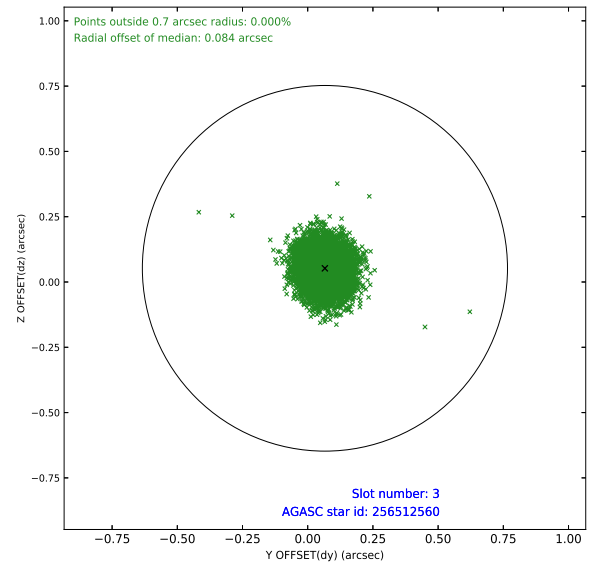
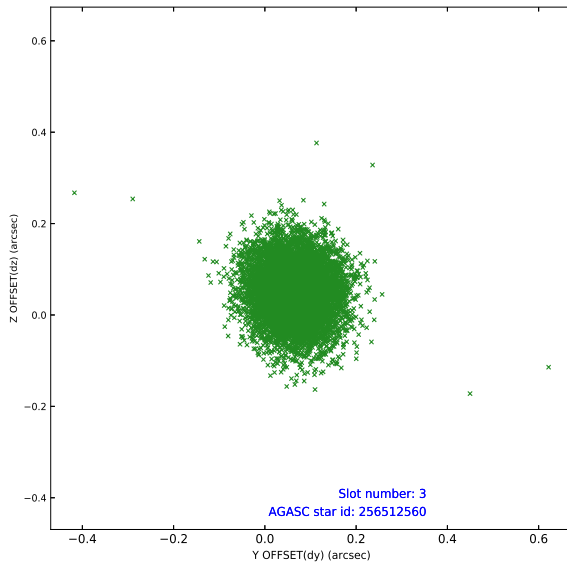


Slot Statistics

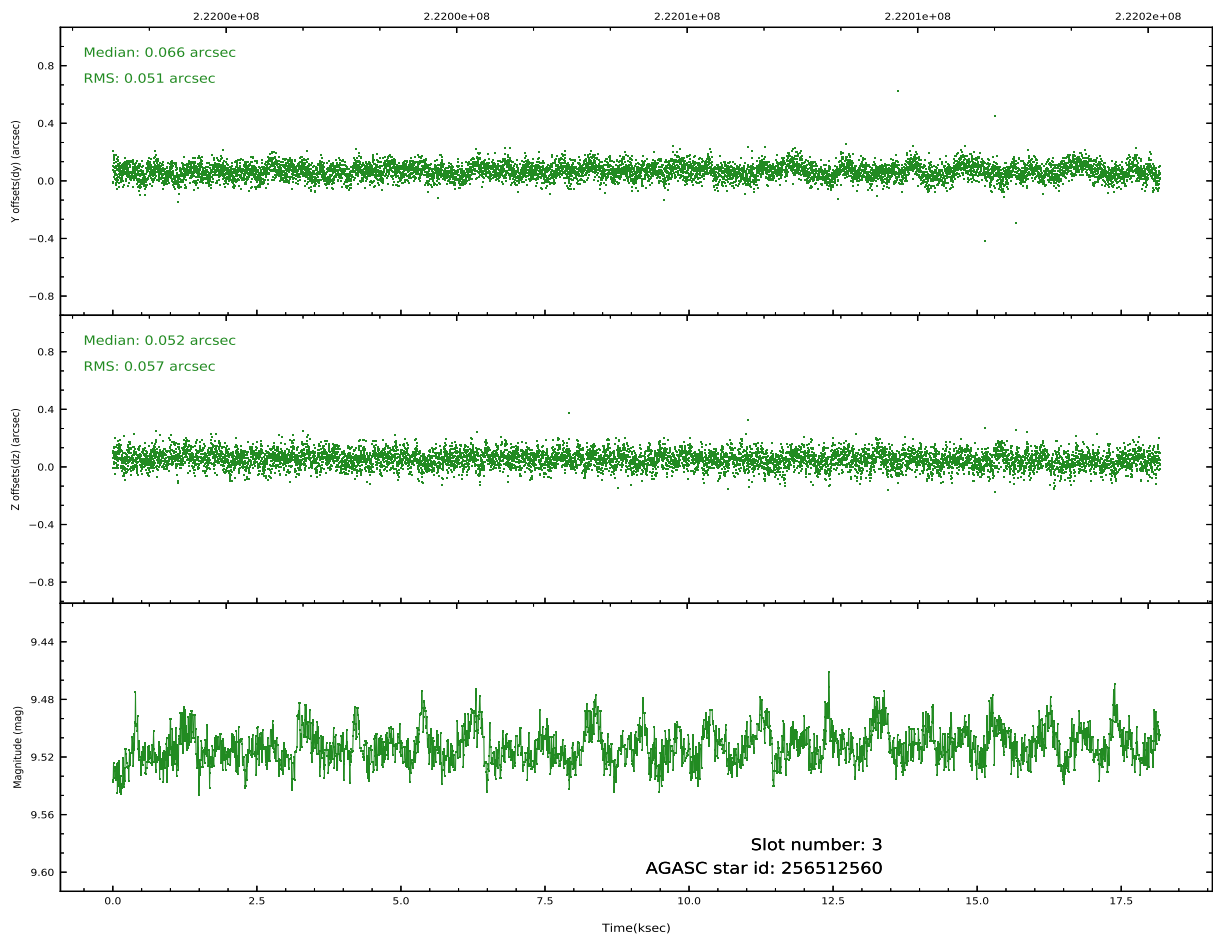
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.10	4434	1.000	-0.083	-0.083	0.008	0.012	0.000000	0.000000	-759.04	-1730
1	FID		ACIS-S-4	7.21	4434	1.000	0.152	0.062	0.007	0.013	0.000000	0.000000	2154.34	178
2	FID		ACIS-S-5	7.23	4434	1.000	-0.100	0.030	0.009	0.015	0.000000	0.000000	-1811.64	171
3	GUIDE	used	256512560	9.51	8863	1.000	0.066	0.052	0.081	0.133	138.888209	29.792531	-1150.29	-1181
4	GUIDE	used	256516632	7.98	8864	1.000	0.049	0.021	0.069	0.111	138.597890	29.944780	-367.50	-468
5	GUIDE	used	326636960	9.56	8843	1.000	-0.058	-0.076	0.103	0.167	137.698852	30.105026	994.45	2047
6	GUIDE	used	326639392	8.60	8865	1.000	-0.051	-0.070	0.062	0.099	137.626996	30.361101	1941.57	1991
7	GUIDE	used	326770928	9.52	8862	1.000	-0.003	0.077	0.107	0.177	139.101080	30.039052	-486.44	-2068

2.4 Star Slots

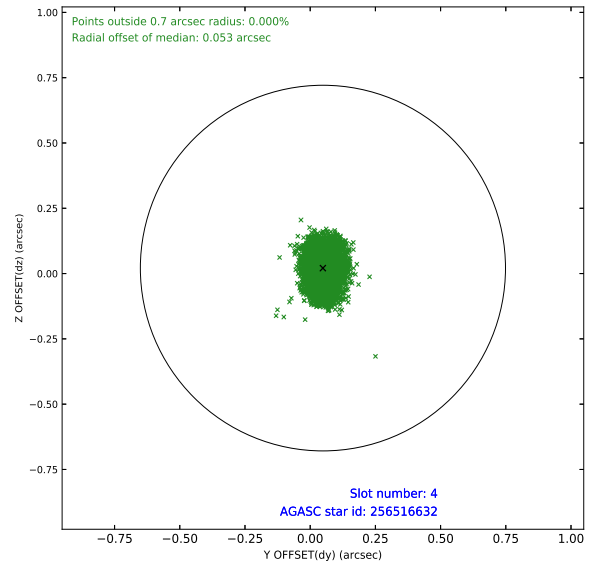
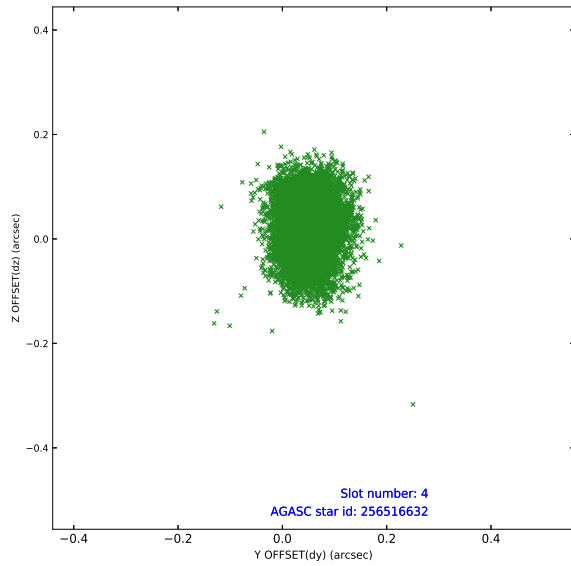
2.4.1 Slot 3



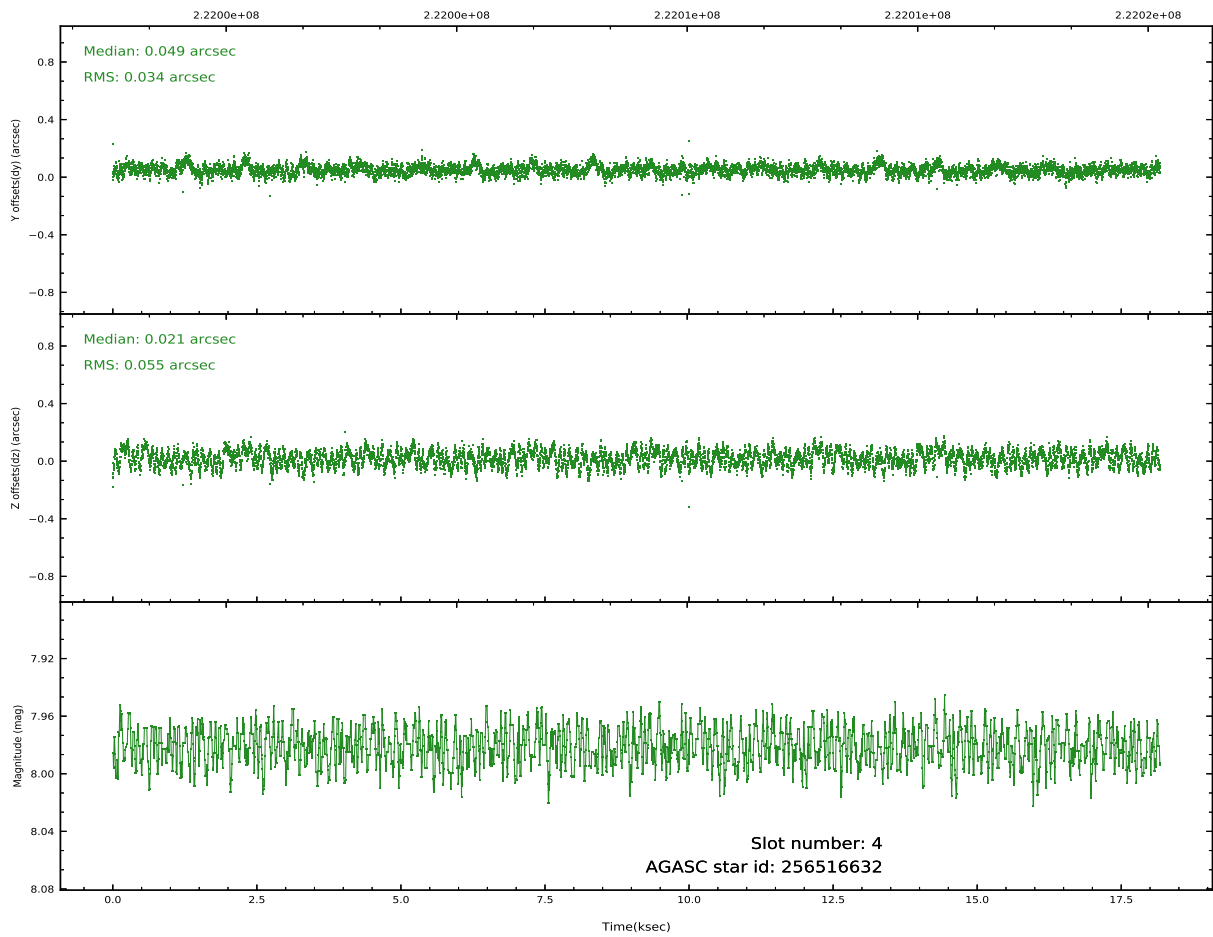
Time (s)



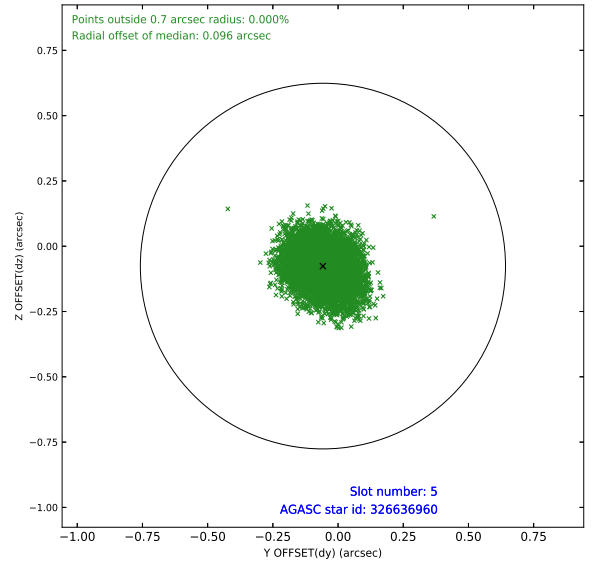
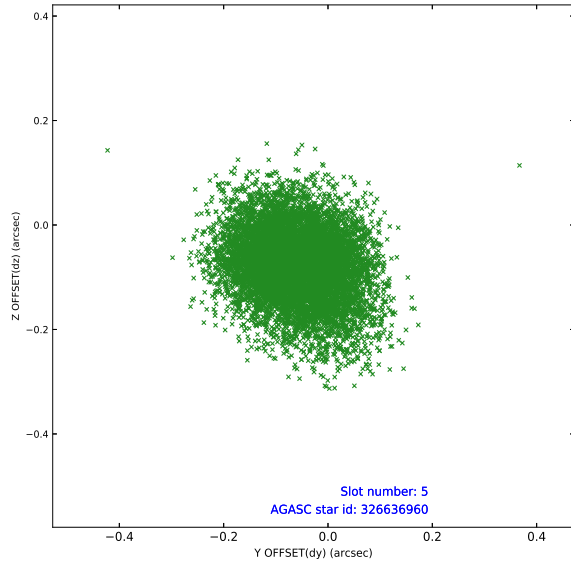
2.4.2 Slot 4



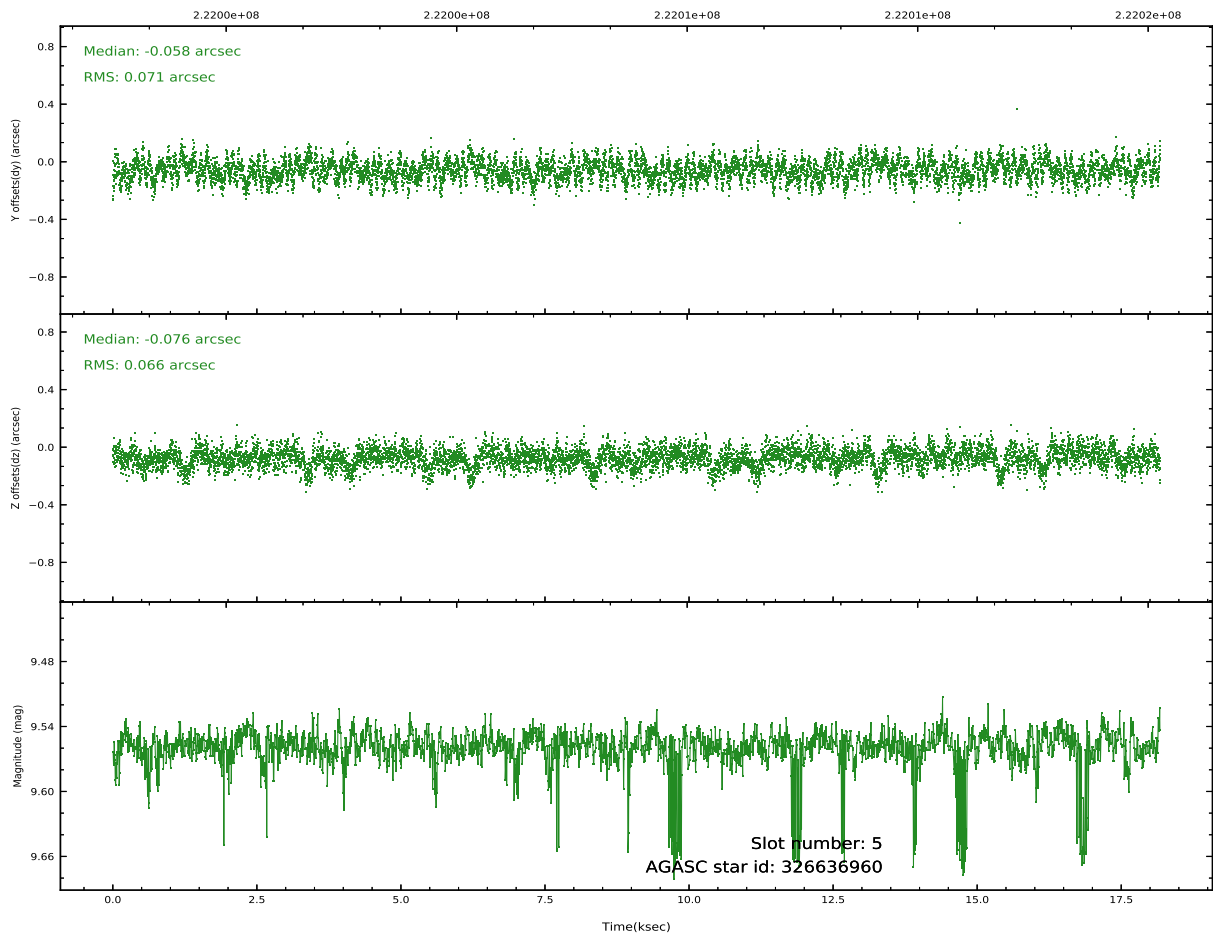
Time (s)



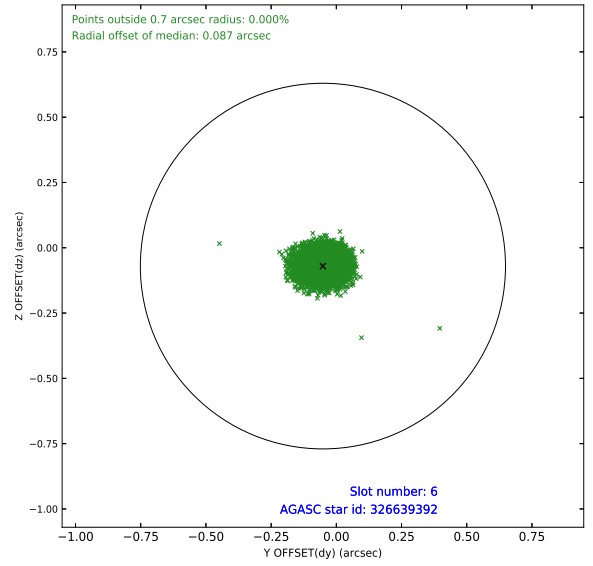
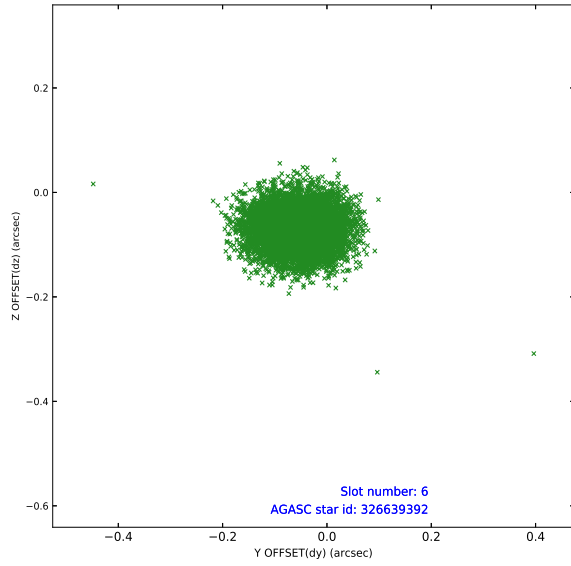
2.4.3 Slot 5



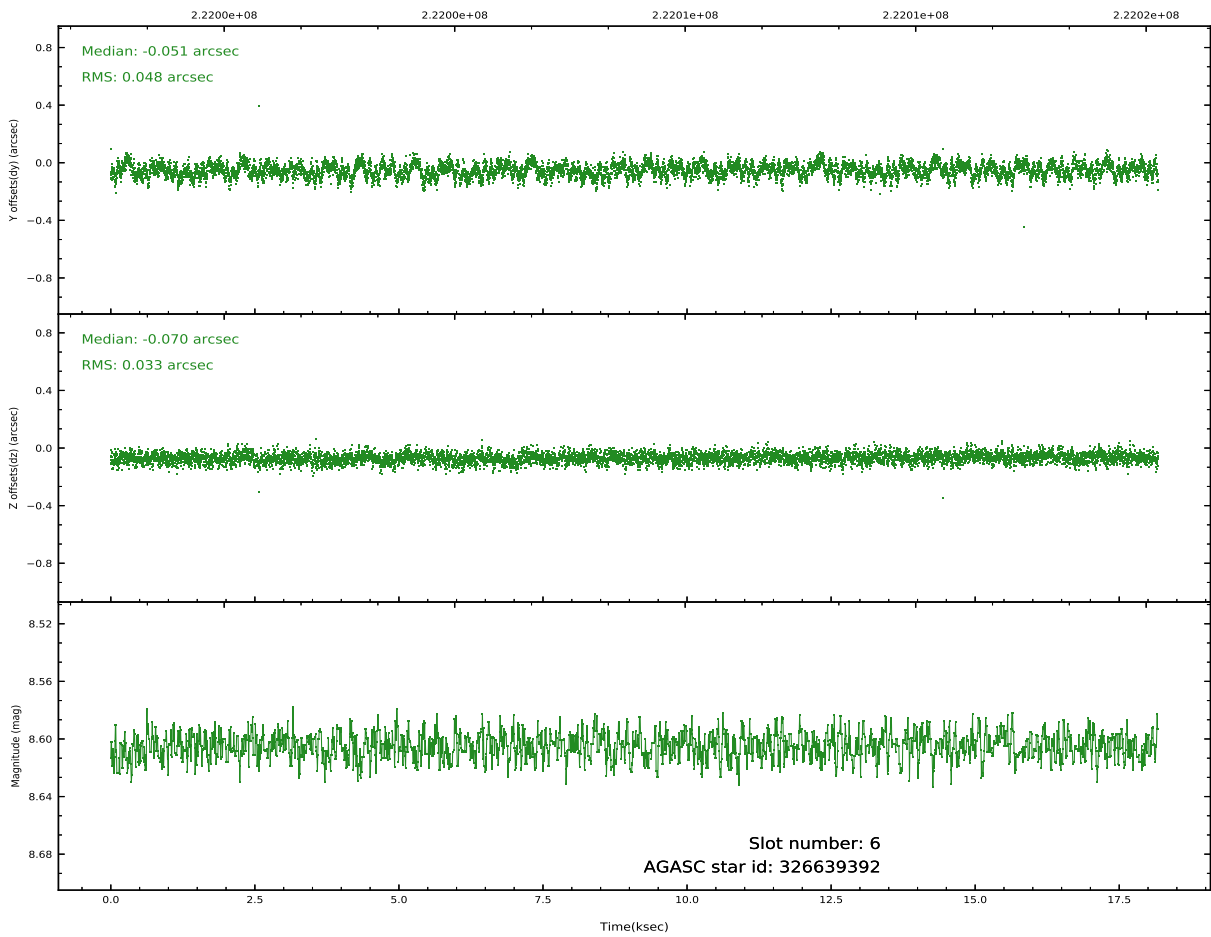
Time (s)



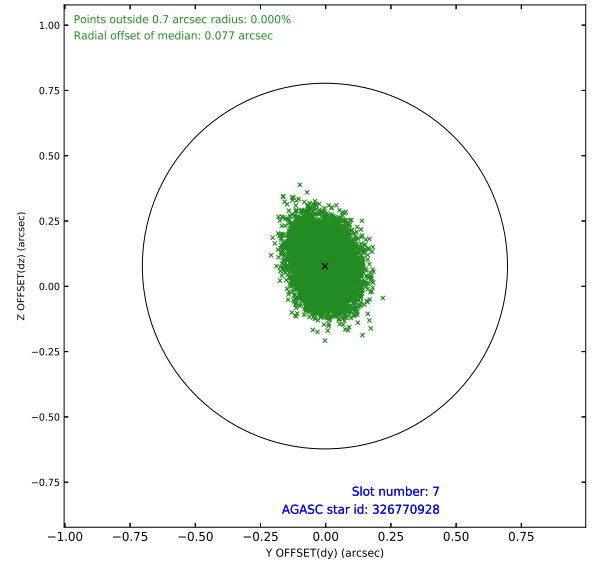
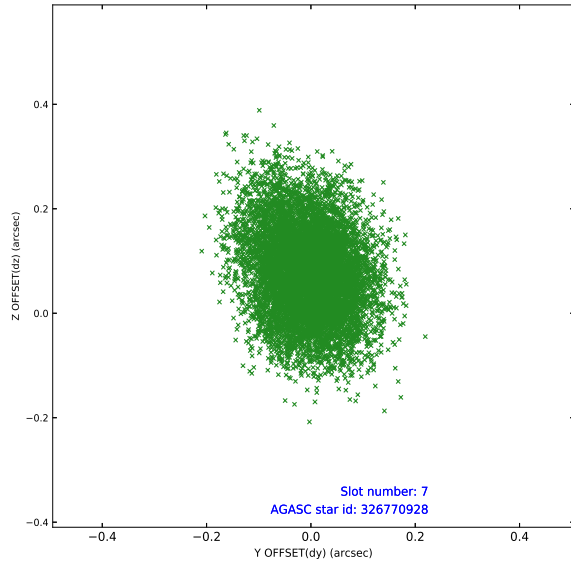
2.4.4 Slot 6



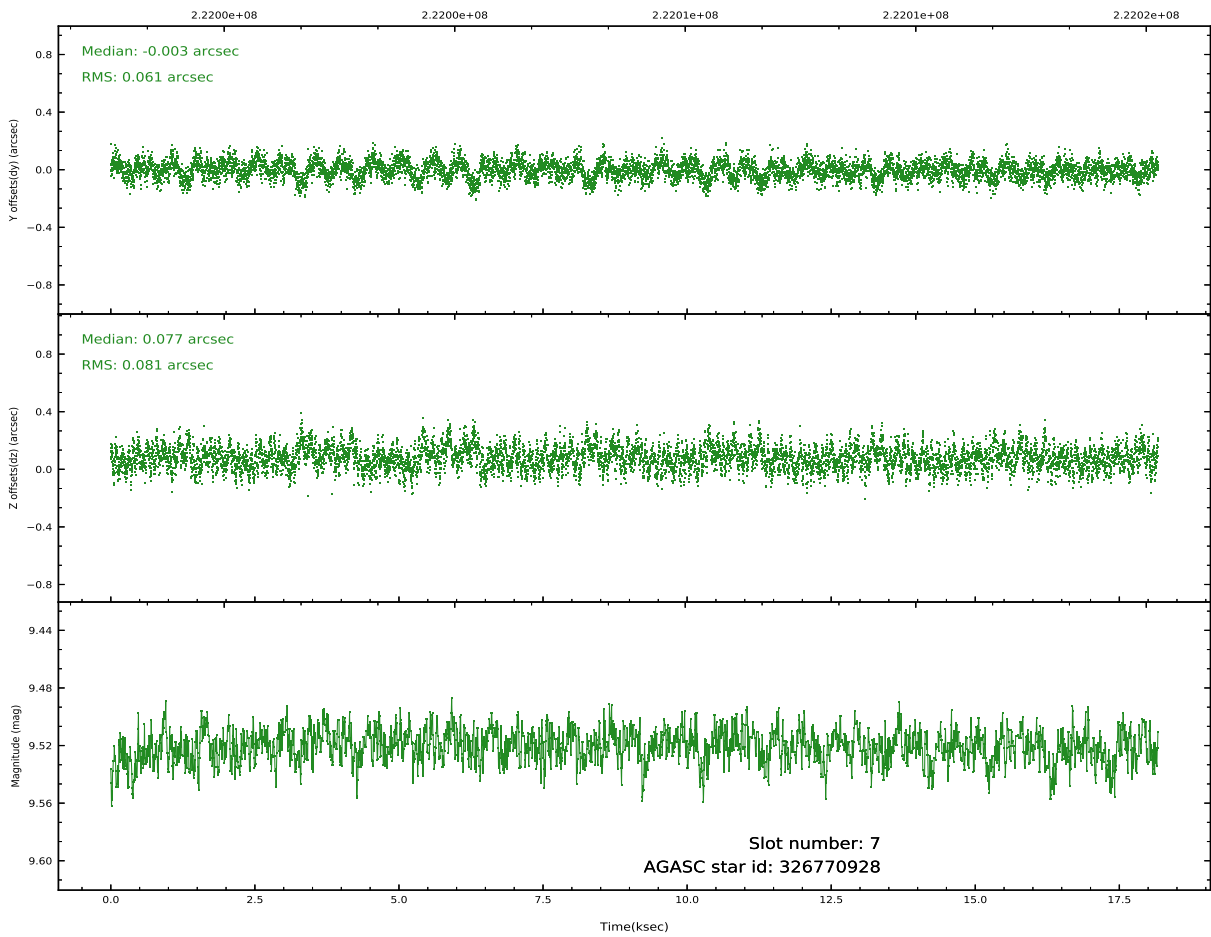
Time (s)



2.4.5 Slot 7

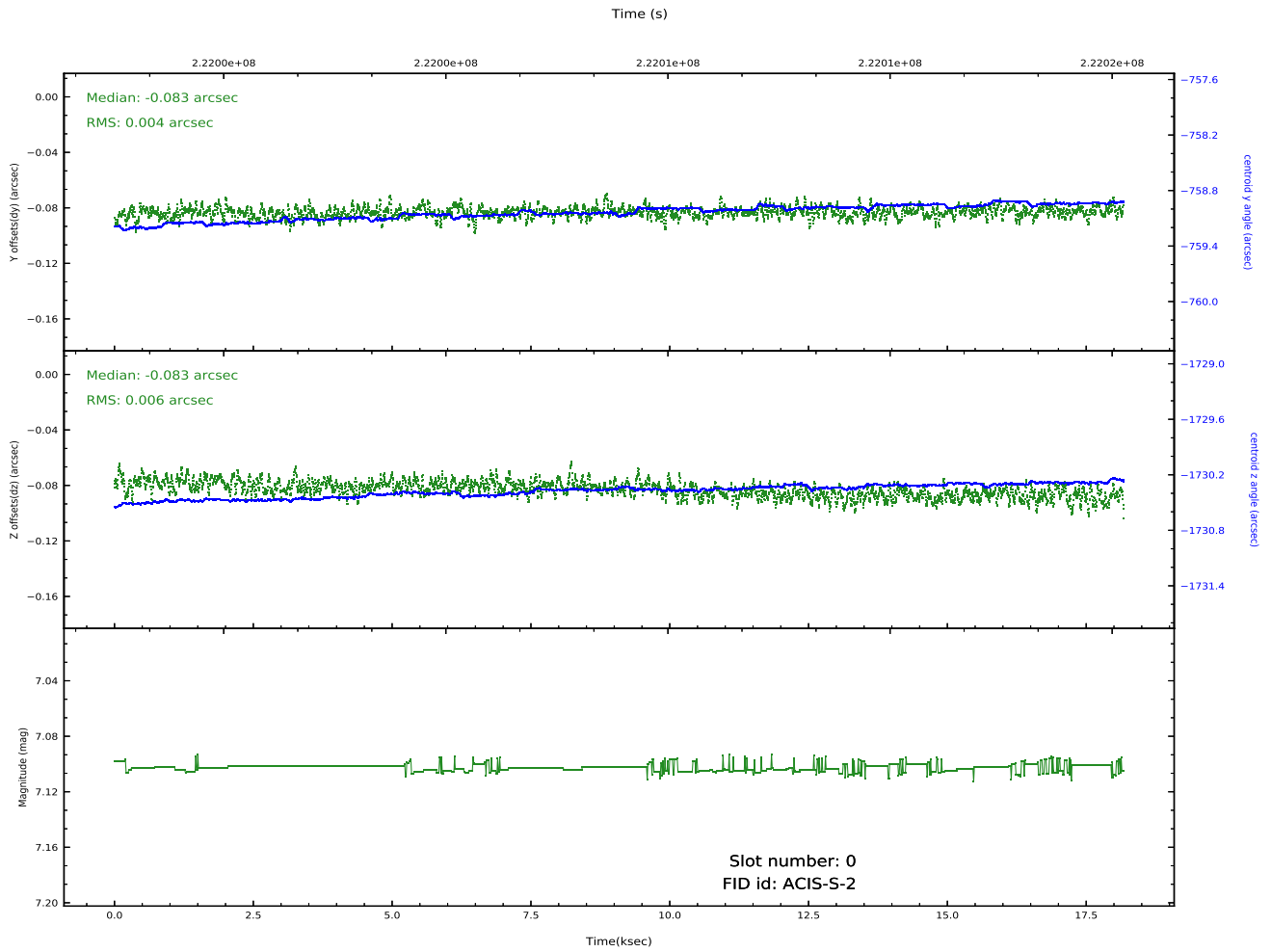
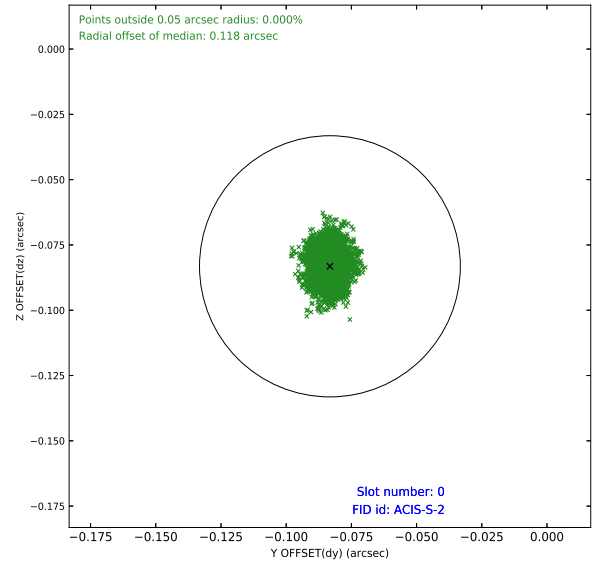
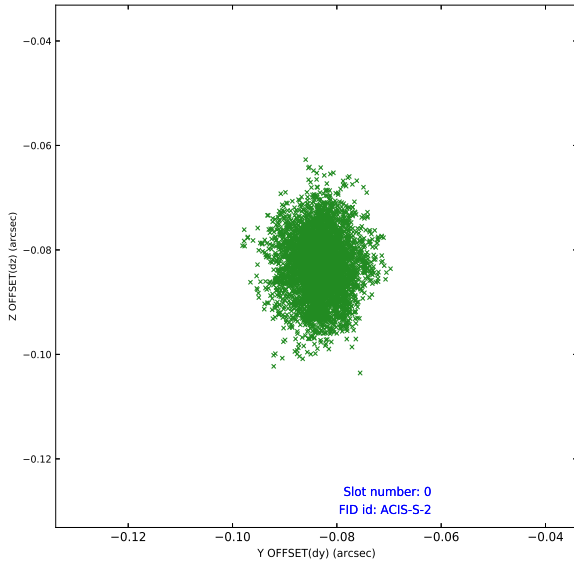


Time (s)

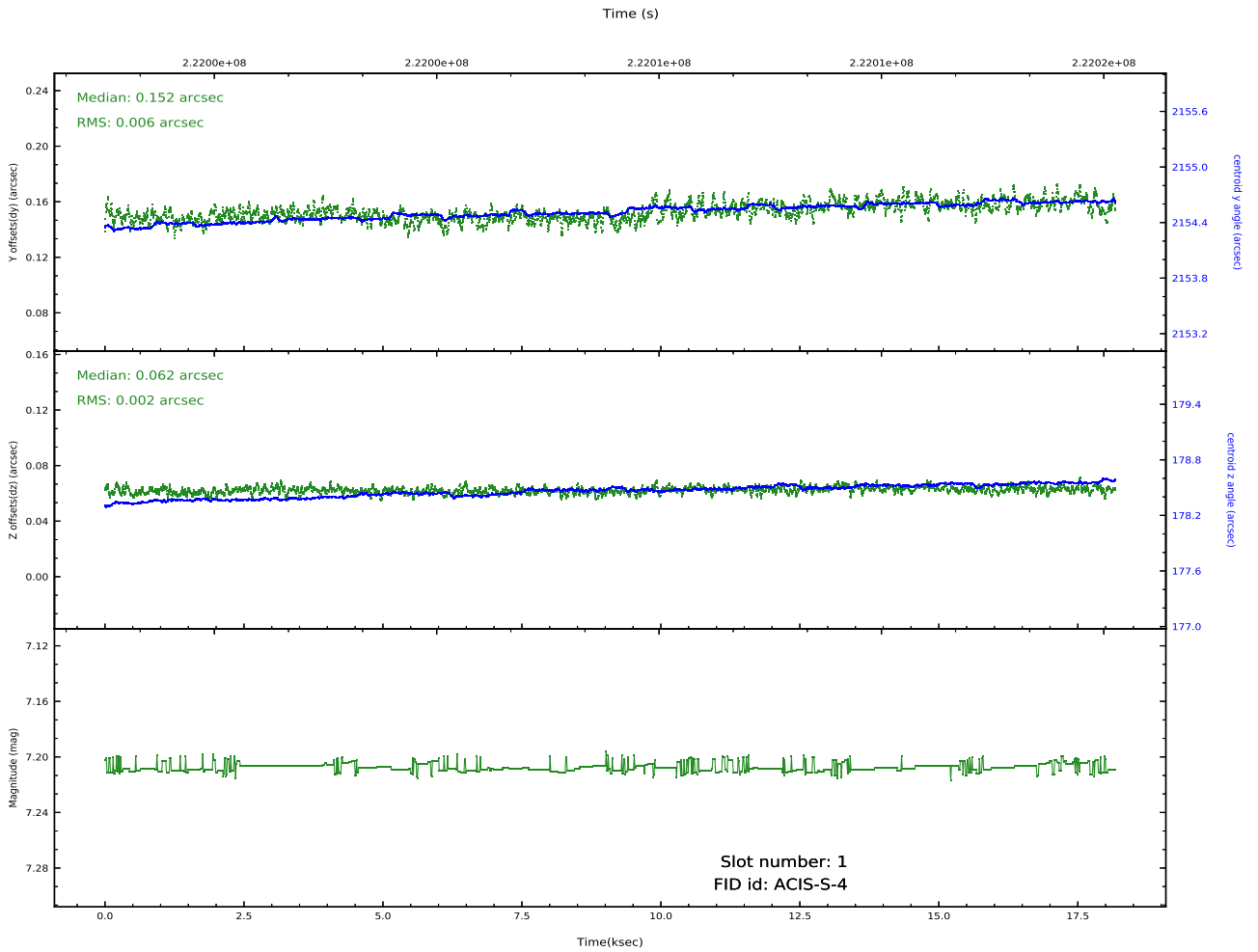
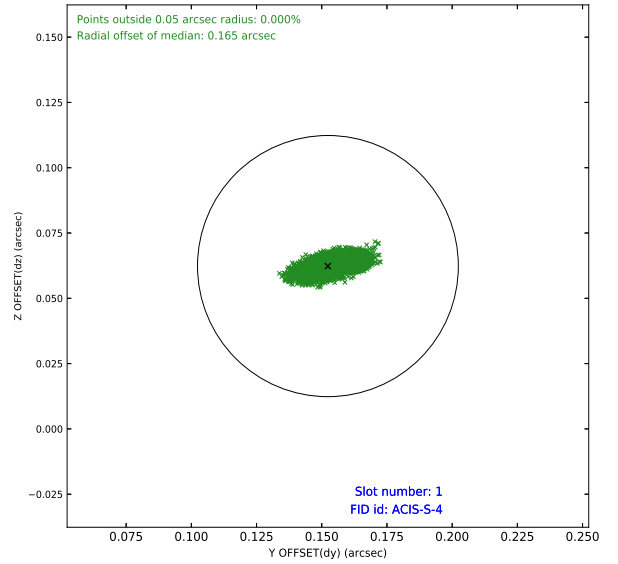
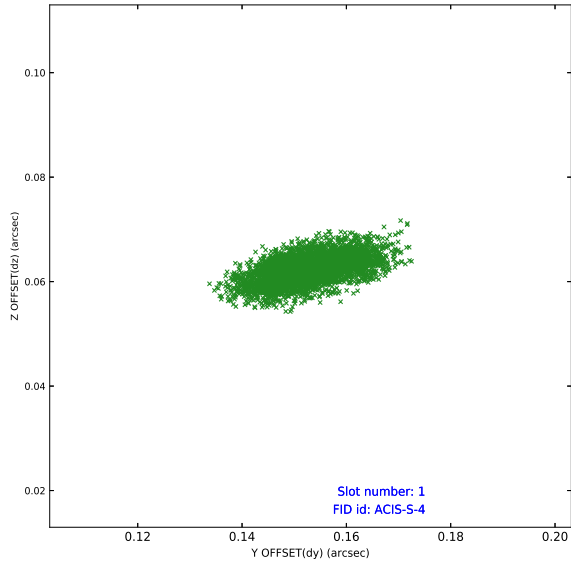


2.5 FID Slots

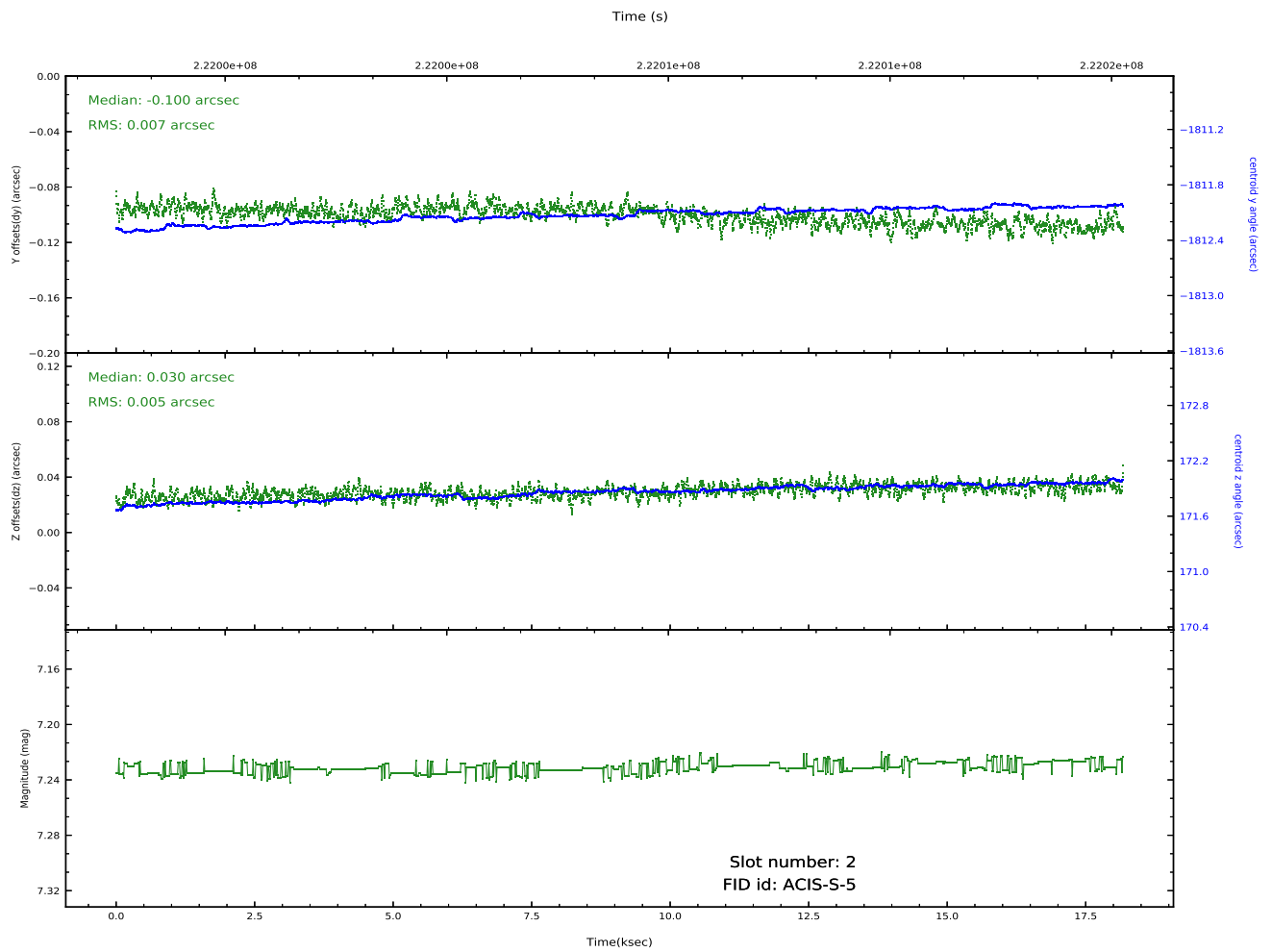
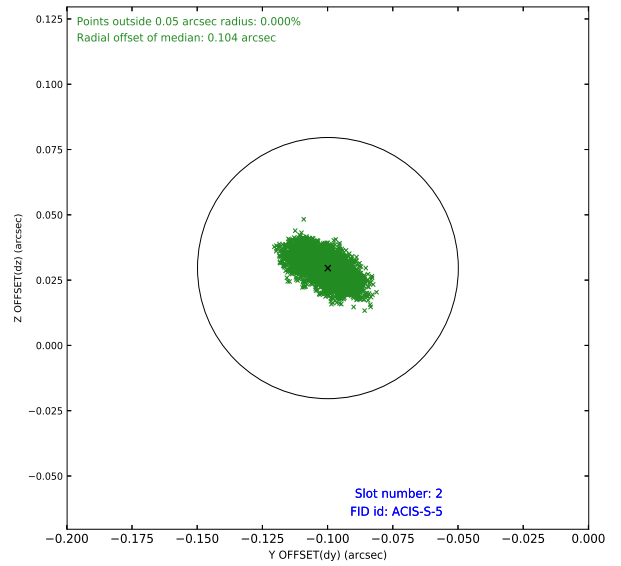
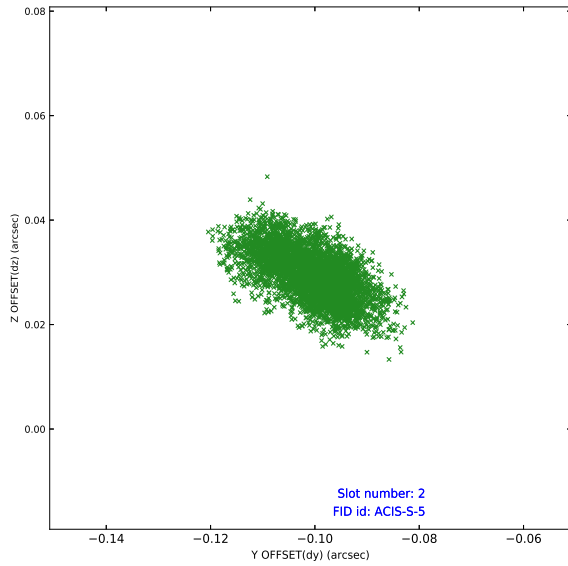
2.5.1 Slot 0



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)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.16909

A.2 Comments