

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4514 - L2 Version 4
Chandra X-Ray Center

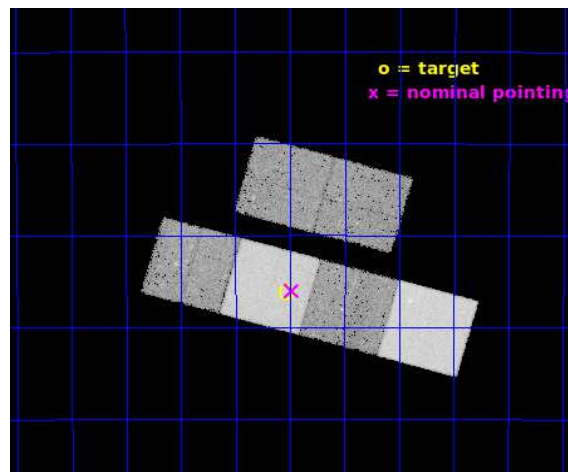
L2 Processing Date : Sep 28 2020

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1 Front

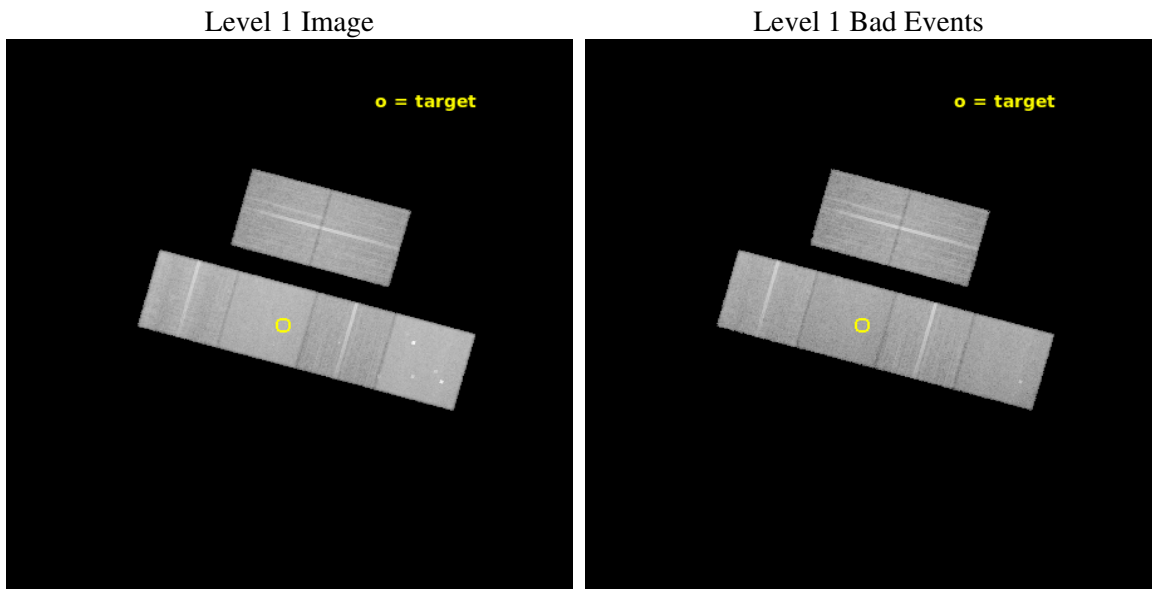
seq_num	200283	Sequence number
obs_id	4514	Observation id
title	Probing Colliding Winds and Magnetised Stars in Young, Multipolar Planetary Nebulae	Proposal title
observer	Raghvendra Sahai	Principal investigator
object	NGC3132	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	151.7575	Observer's specified target RA [deg]
dec_targ	-40.436389	Observer's specified target Dec [deg]
ra_nom	151.74568081422	Nominal RA [deg]
dec_nom	-40.433939927431	Nominal Dec [deg]
roll_nom	195.54713043729	Nominal Roll [deg]
revision	4	Processing version of data
ontime	24281.599909544	Sum of GTIs [s]
livetime	23974.131670865	Livetime [s]
ontime2	24281.599909544	Sum of GTIs [s]
ontime3	24281.599909544	Sum of GTIs [s]
ontime5	24281.599909544	Sum of GTIs [s]
ontime6	24281.599909544	Sum of GTIs [s]
ontime7	24281.599909544	Sum of GTIs [s]
ontime8	24281.599909544	Sum of GTIs [s]
l2events	288077	Number of level 2 events



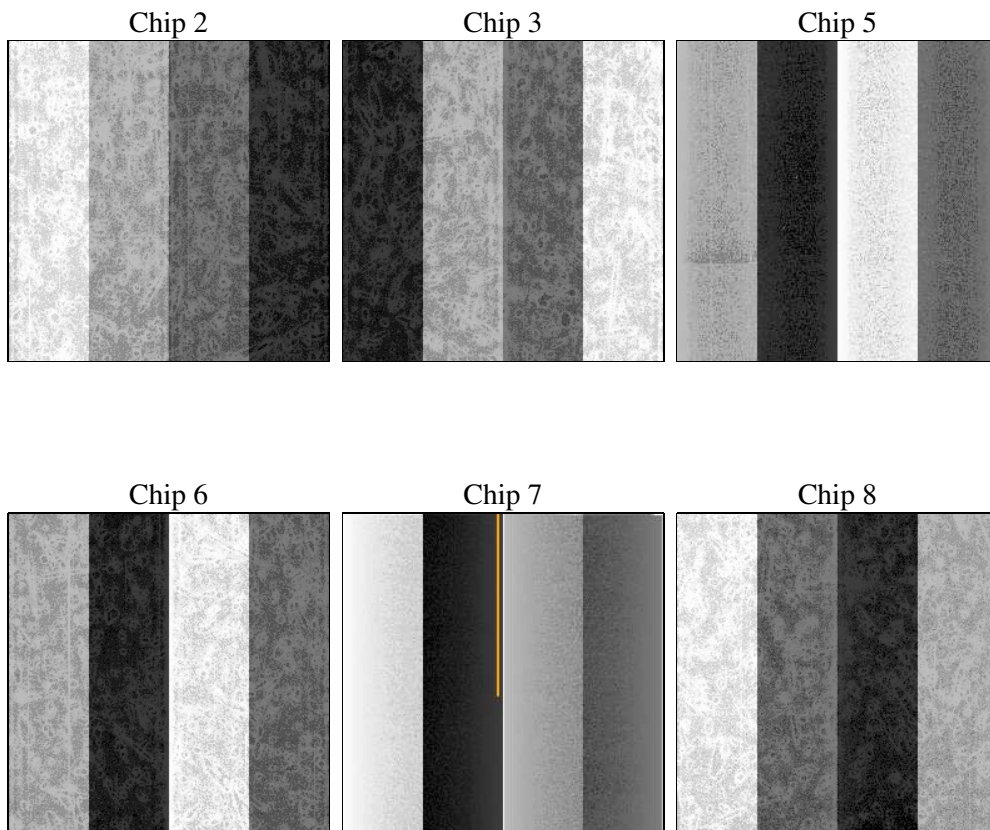
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	3	Obi number	sched_exp_time	24125.896000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	24281.599909544	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	24281.599909544	Sum of GTIs [s]
date	2020-09-28T09:45:21	Date and time of file creation	ontime3	24281.599909544	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	24281.599909544	Sum of GTIs [s]
			ontime6	24281.599909544	Sum of GTIs [s]
			ontime7	24281.599909544	Sum of GTIs [s]
			ontime8	24281.599909544	Sum of GTIs [s]
			l1events	1271907	Number of level 1 events

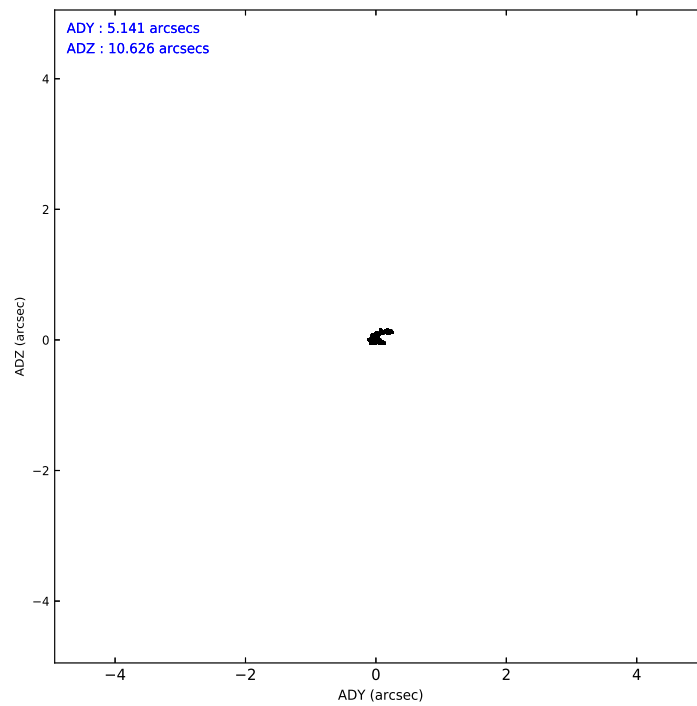
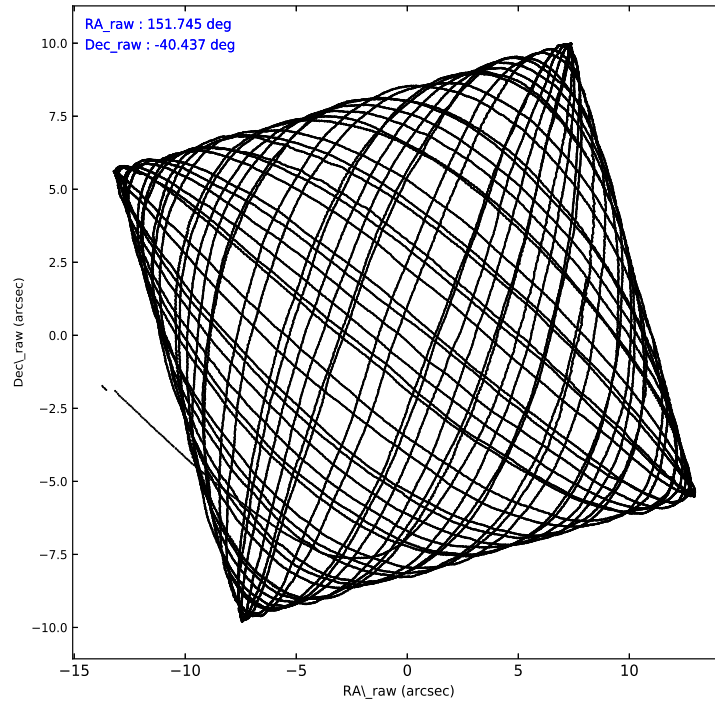
2.1.4 Events

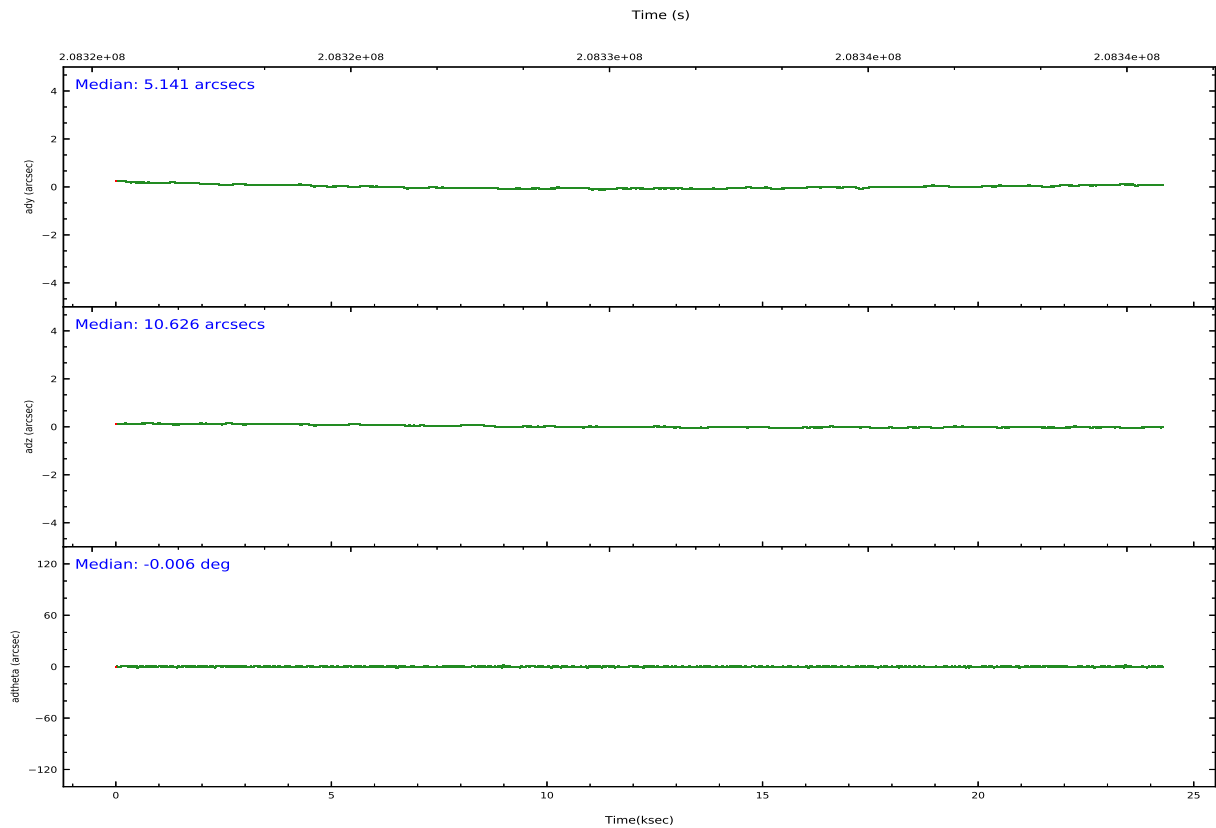
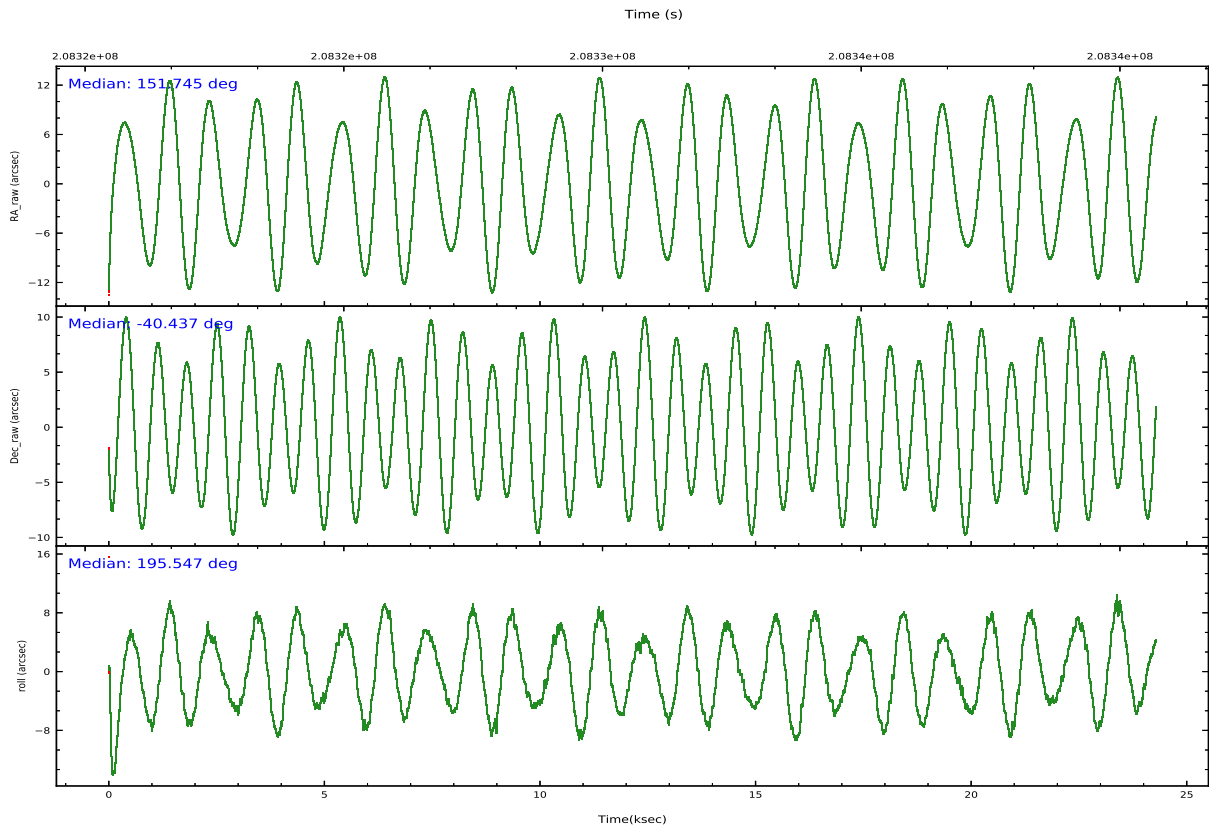
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	181293	171763	270610	178188	242934	227119	grade 0 events	10193	9667	14798	9397	9396	16456
rejected events	159669	150746	146380	156412	142781	177685		5%	5%	5%	5%	3%	7%
rejected %	88%	87%	54%	87%	58%	78%	grade 1 events	103	108	320	97	235	135
								0%	0%	0%	0%	0%	0%
							grade 2 events	4513	4070	37947	4495	20219	10924
								2%	2%	14%	2%	8%	4%
							grade 3 events	1937	2080	4835	2027	8812	5154
								1%	1%	1%	1%	3%	2%
							grade 4 events	1897	2063	4653	2126	8859	4832
								1%	1%	1%	1%	3%	2%
							grade 5 events	7123	7804	19686	8073	23039	10655
								3%	4%	7%	4%	9%	4%
							grade 6 events	3543	3593	64597	4211	55001	13173
								1%	2%	23%	2%	22%	5%
							grade 7 events	151984	142378	123774	147762	117373	165790
								83%	82%	45%	82%	48%	72%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	151.769548	151.74568081422	Subarray requested	NONE	NONE
[deg] Pointing Dec	-40.417610	-40.433939927431	Alternating exposures requested	N	N
[deg] Pointing Roll	195.407605	195.54713043729	[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)	208318714.184000	208317401.01006			
Observation start date	2004-08-08T02:17:30	2004-08-08T01:56:41			
[s] Observation end time (MET)	208342840.184000	208343062.91121			
Observation end date	2004-08-08T08:59:36	2004-08-08T09:04:22			
Read mode	TIMED	TIMED			

2.3 Aspect





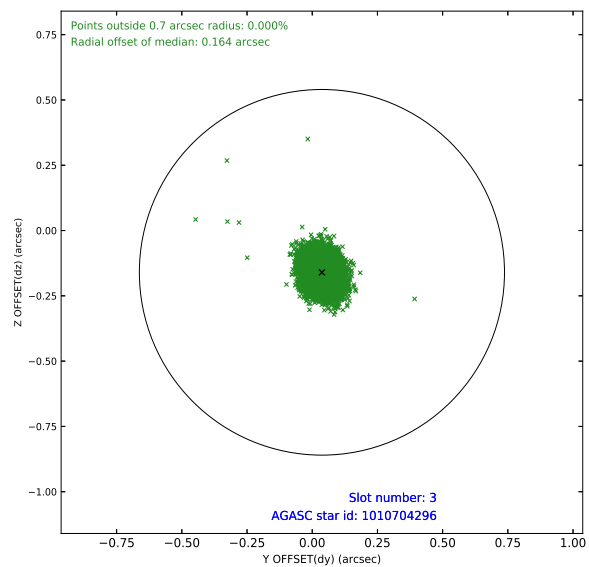
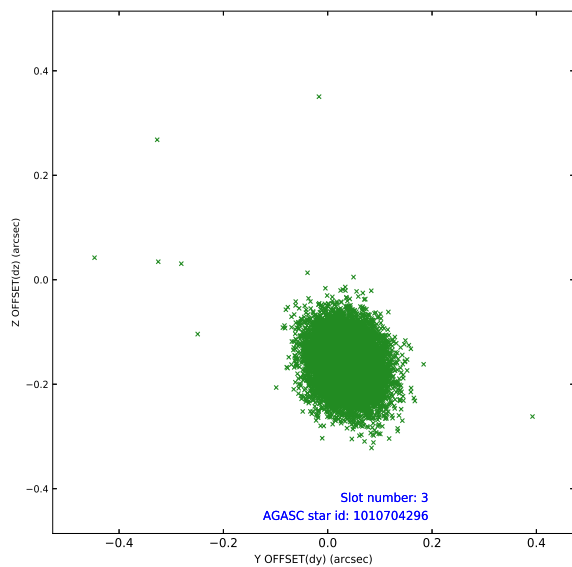
Slot Statistics

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	5924	1.000	-0.096	-0.058	0.006	0.011	0.000000	0.000000	-757.90	-1731
1	FID		ACIS-S-4	7.21	5924	1.000	0.168	0.062	0.005	0.010	0.000000	0.000000	2155.53	176
2	FID		ACIS-S-5	7.23	5925	1.000	-0.103	0.005	0.006	0.011	0.000000	0.000000	-1810.64	170
3	GUIDE	used	1010704296	8.76	11845	1.000	0.037	-0.160	0.059	0.096	151.499489	-40.072904	388.29	-1392
4	GUIDE	used	1010704792	9.07	11843	1.000	0.038	0.055	0.064	0.104	151.848656	-40.281198	-339.55	-415
5	GUIDE	used	1010705480	9.18	11846	1.000	-0.049	0.097	0.072	0.118	152.127932	-40.624919	-745.22	981
6	GUIDE	used	1010717488	8.07	11846	1.000	0.002	0.009	0.061	0.094	151.500093	-40.864808	1135.27	1358
7	GUIDE	used	1010714816	8.83	11846	1.000	-0.027	-0.004	0.067	0.113	152.364715	-40.473995	-1515.52	633

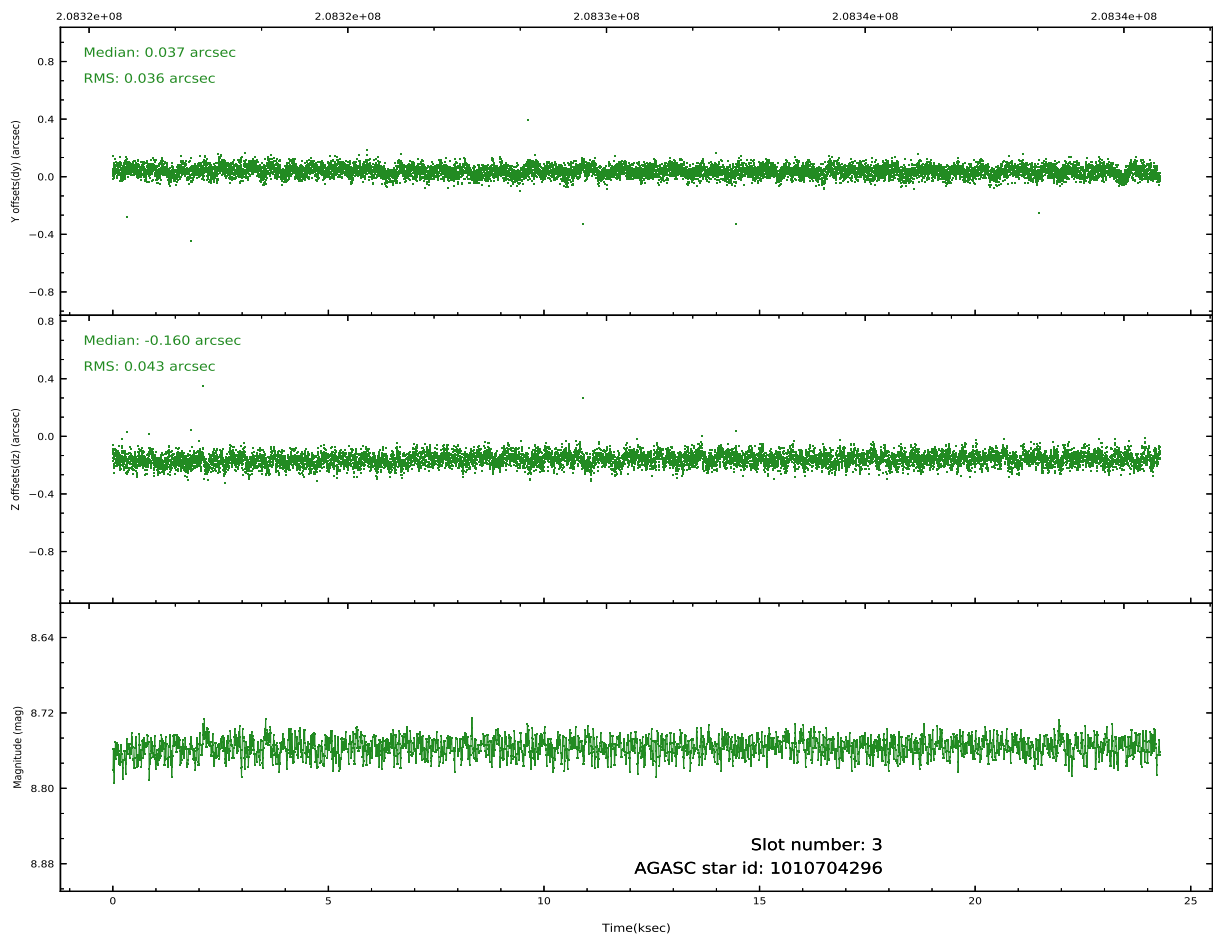
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2.4 Star Slots

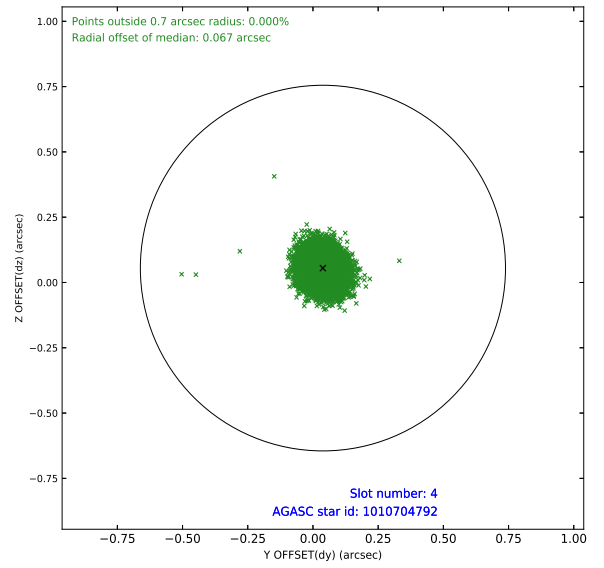
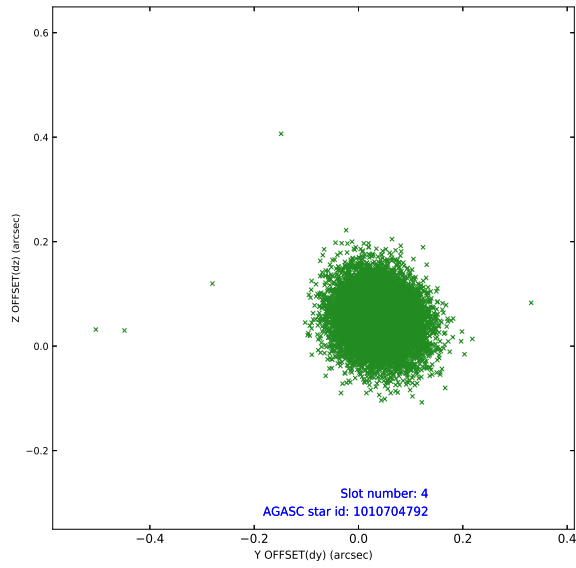
2.4.1 Slot 3



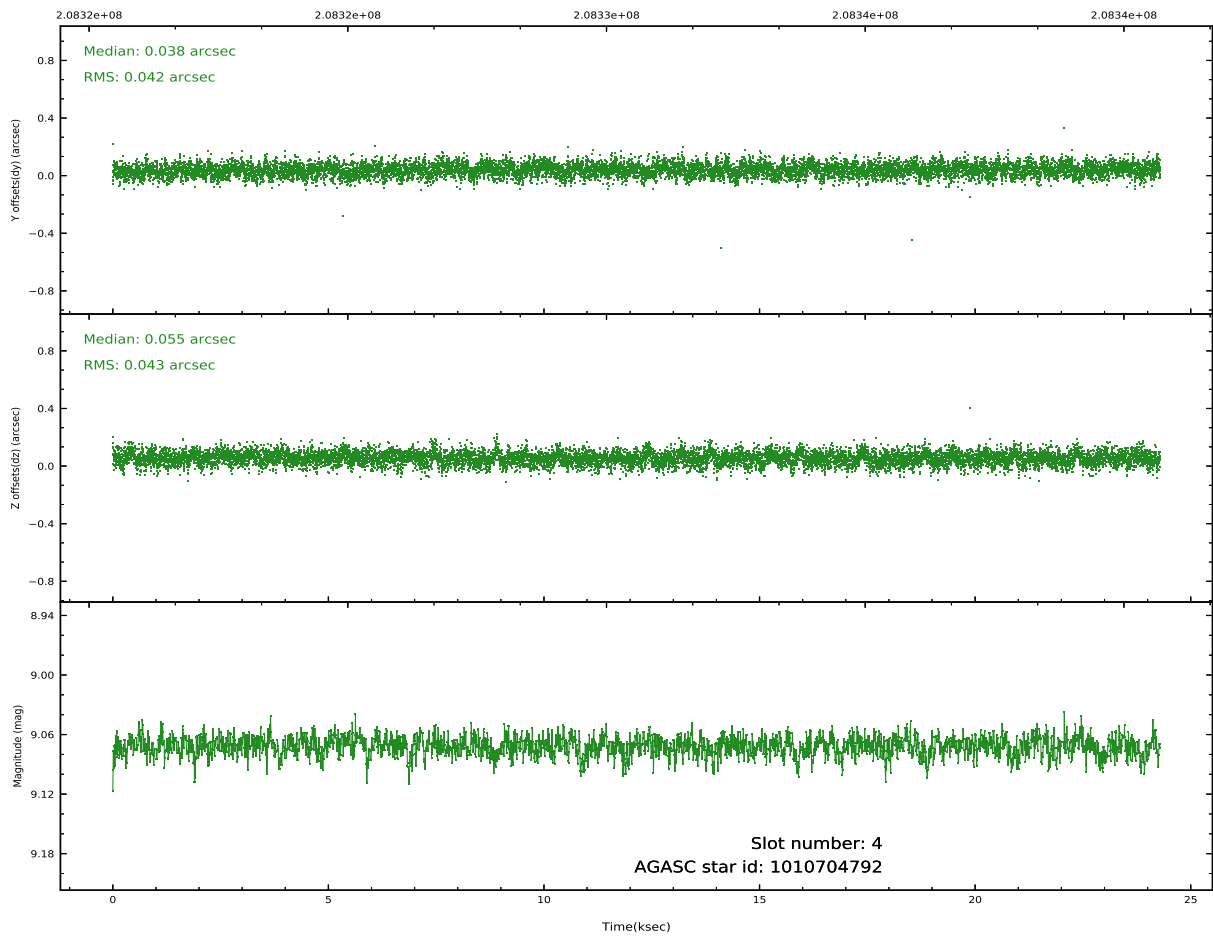
Time (s)



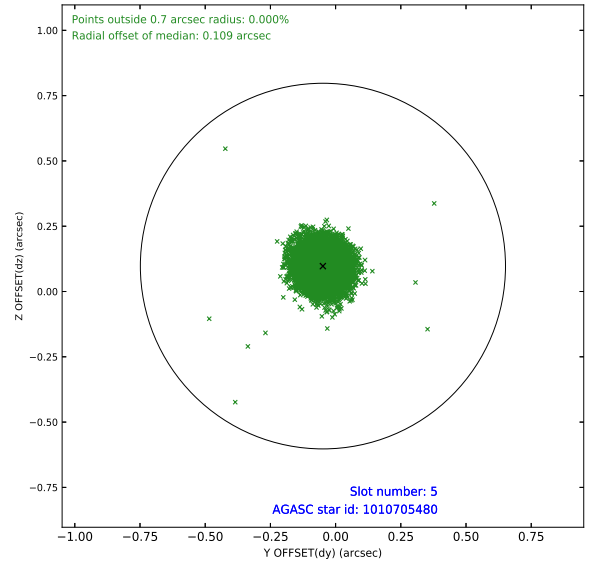
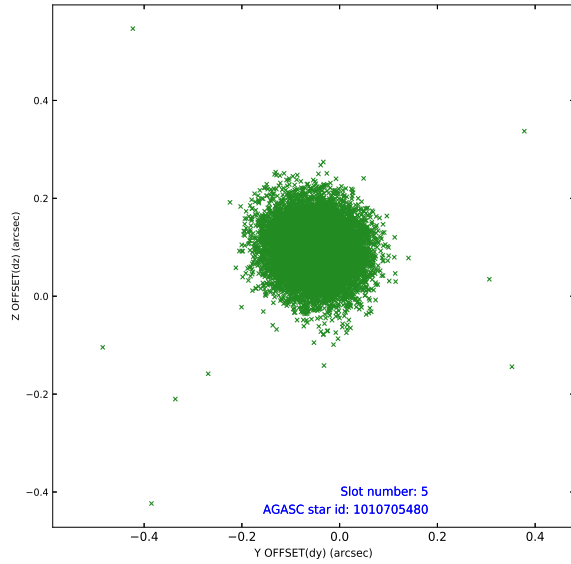
2.4.2 Slot 4



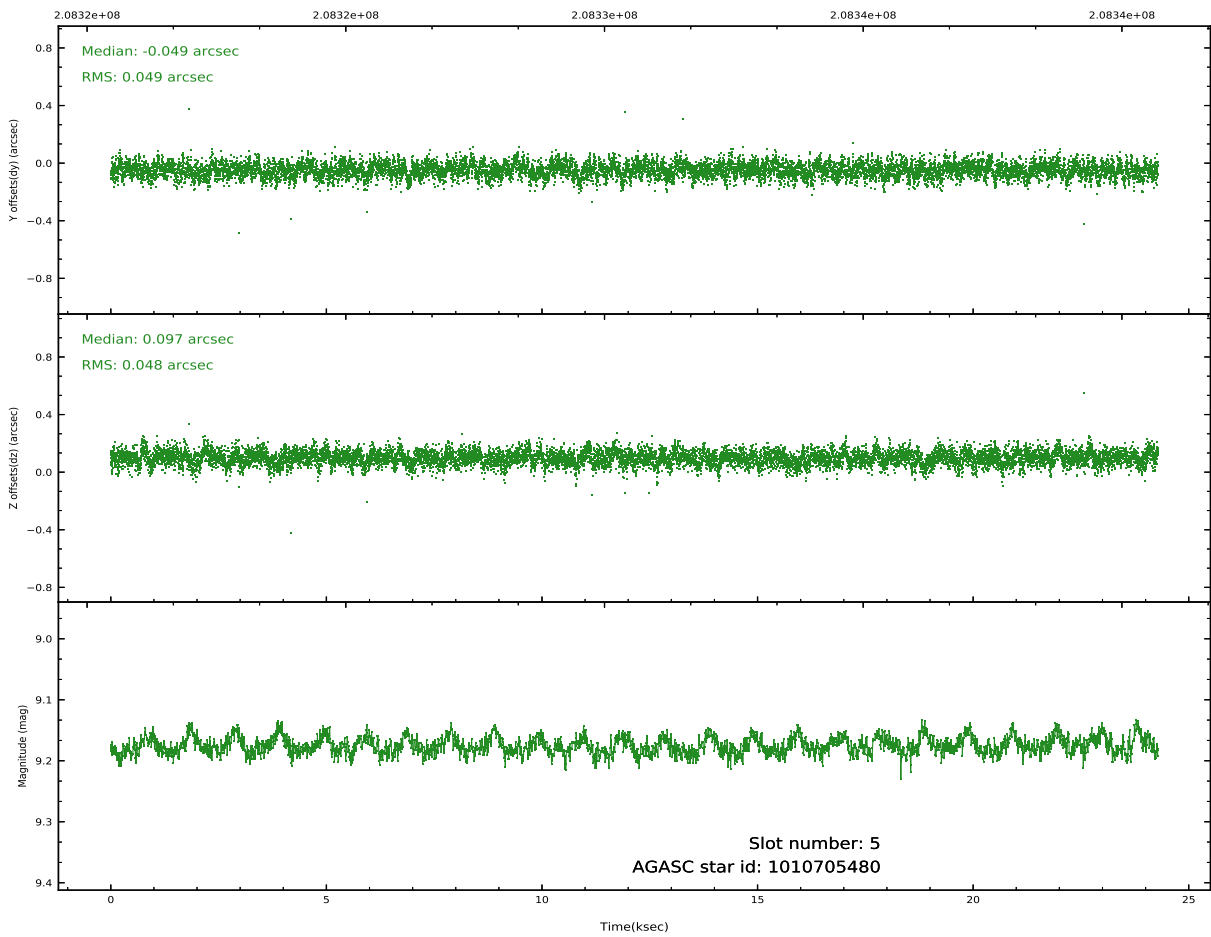
Time (s)



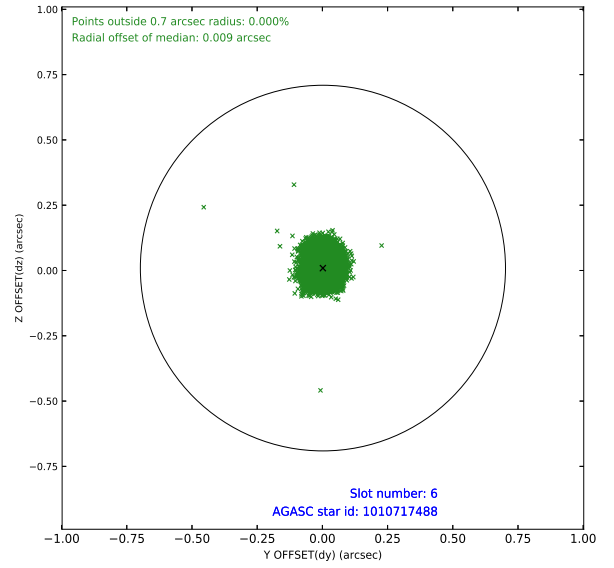
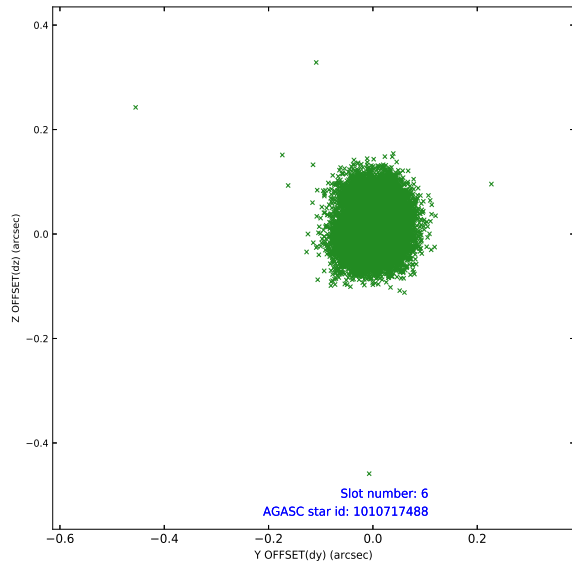
2.4.3 Slot 5



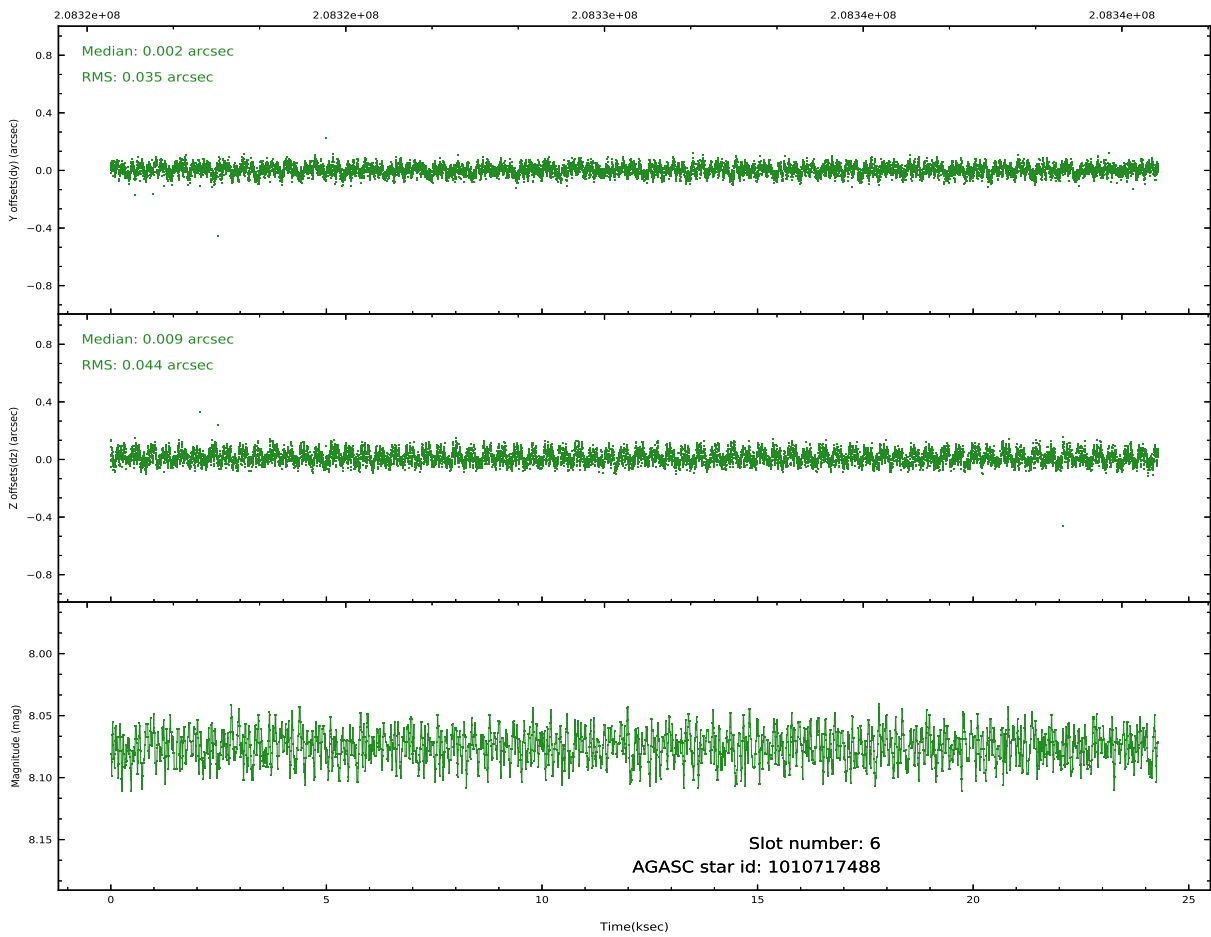
Time (s)



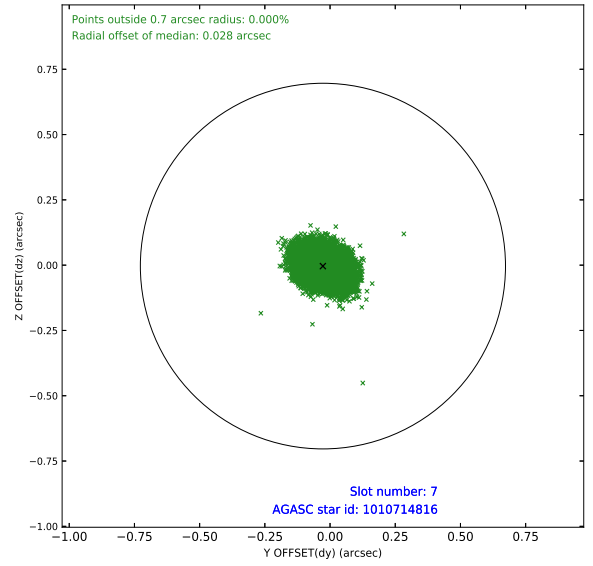
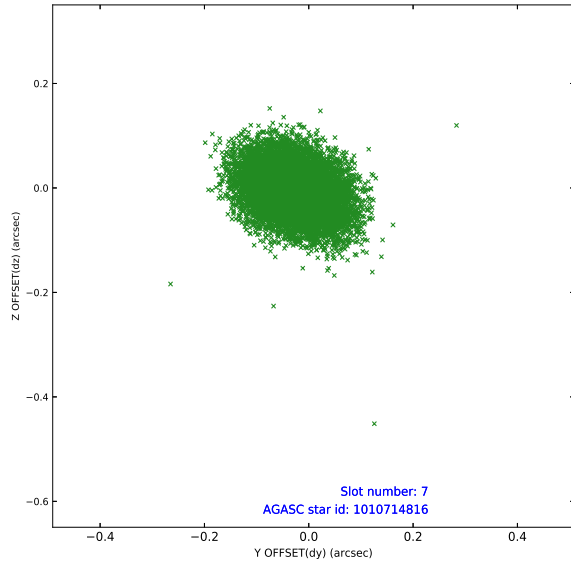
2.4.4 Slot 6



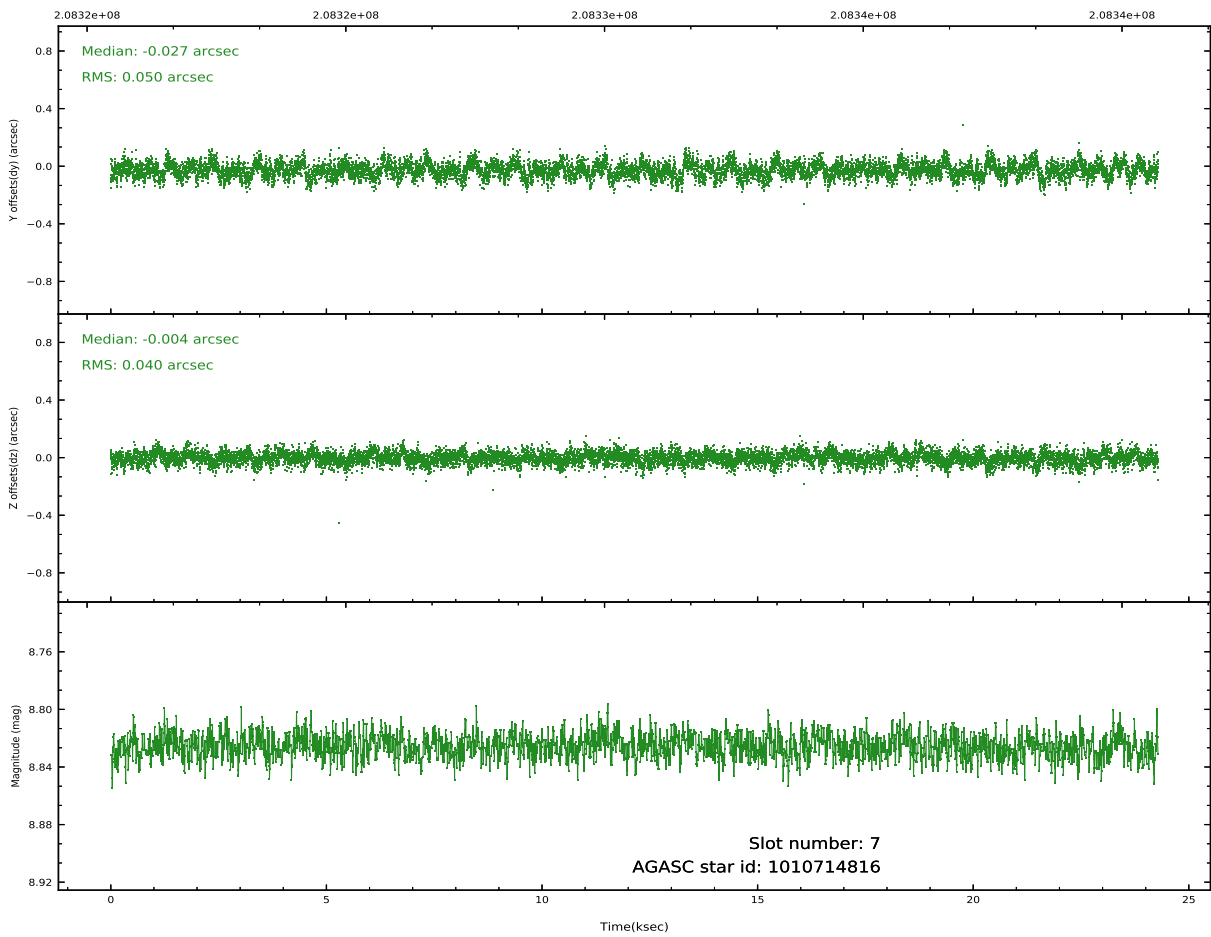
Time (s)



2.4.5 Slot 7

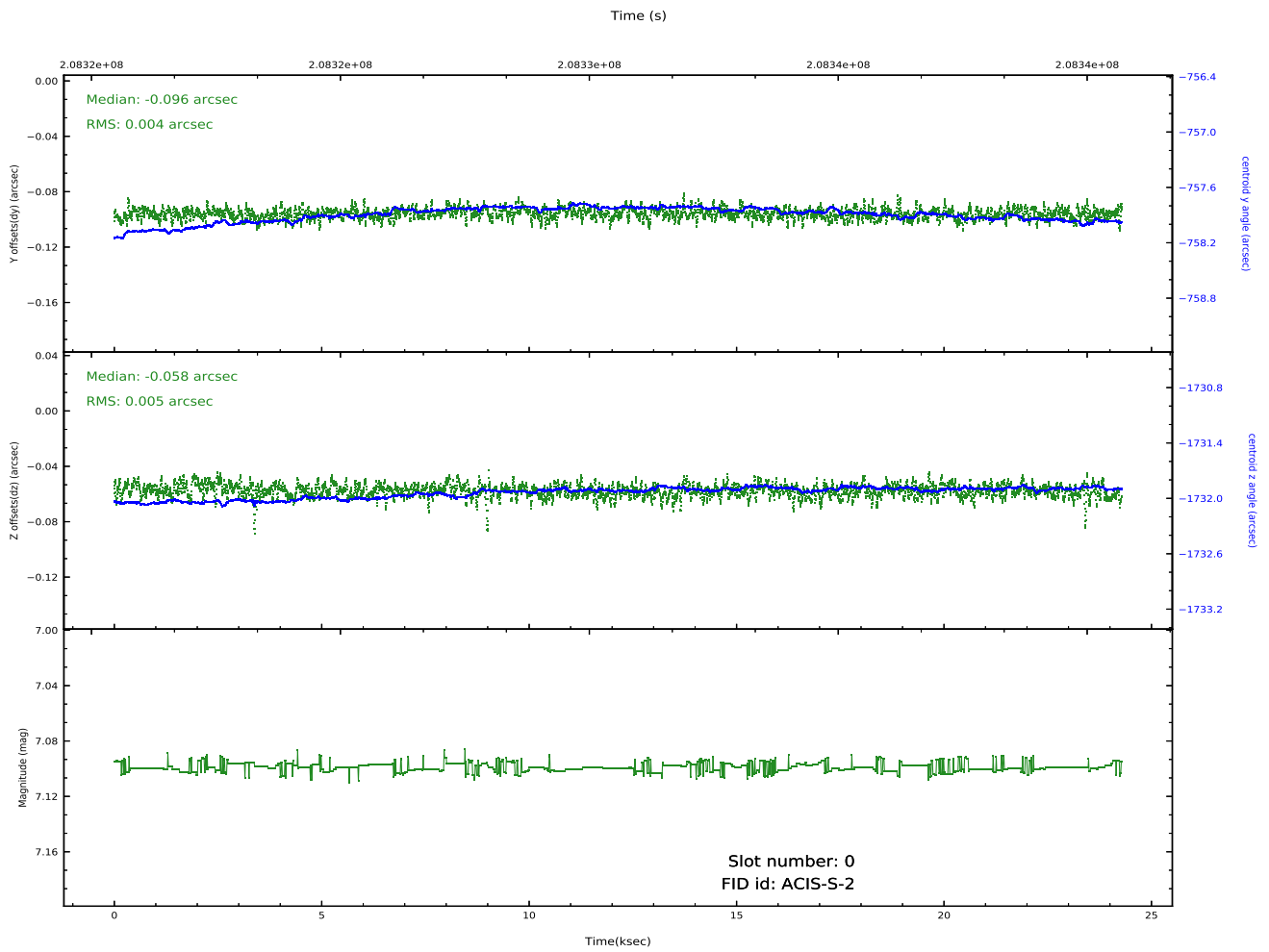
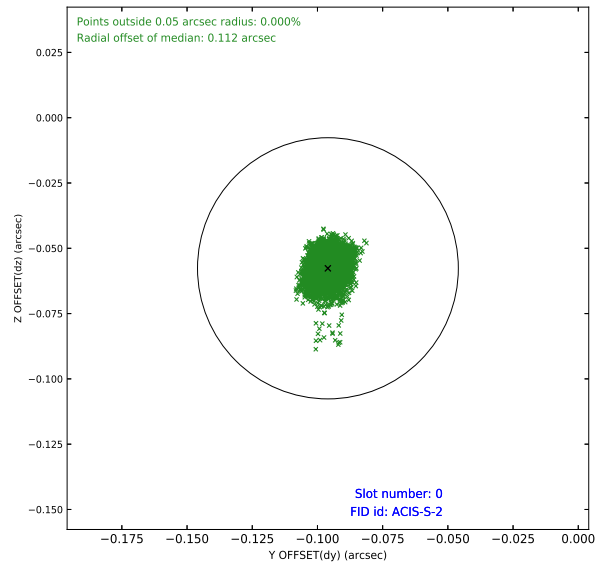
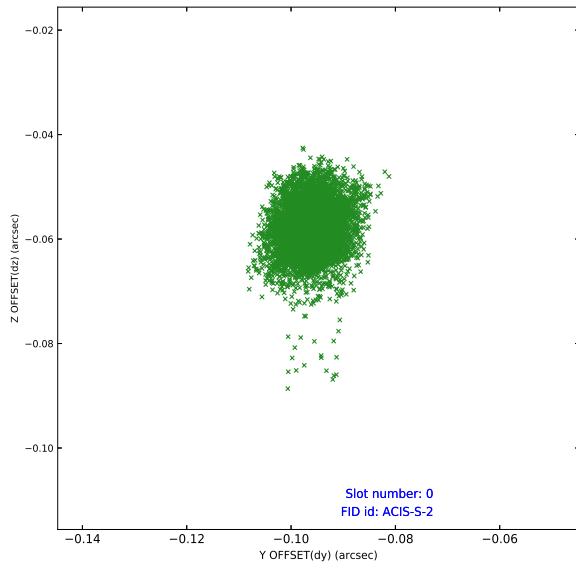


Time (s)

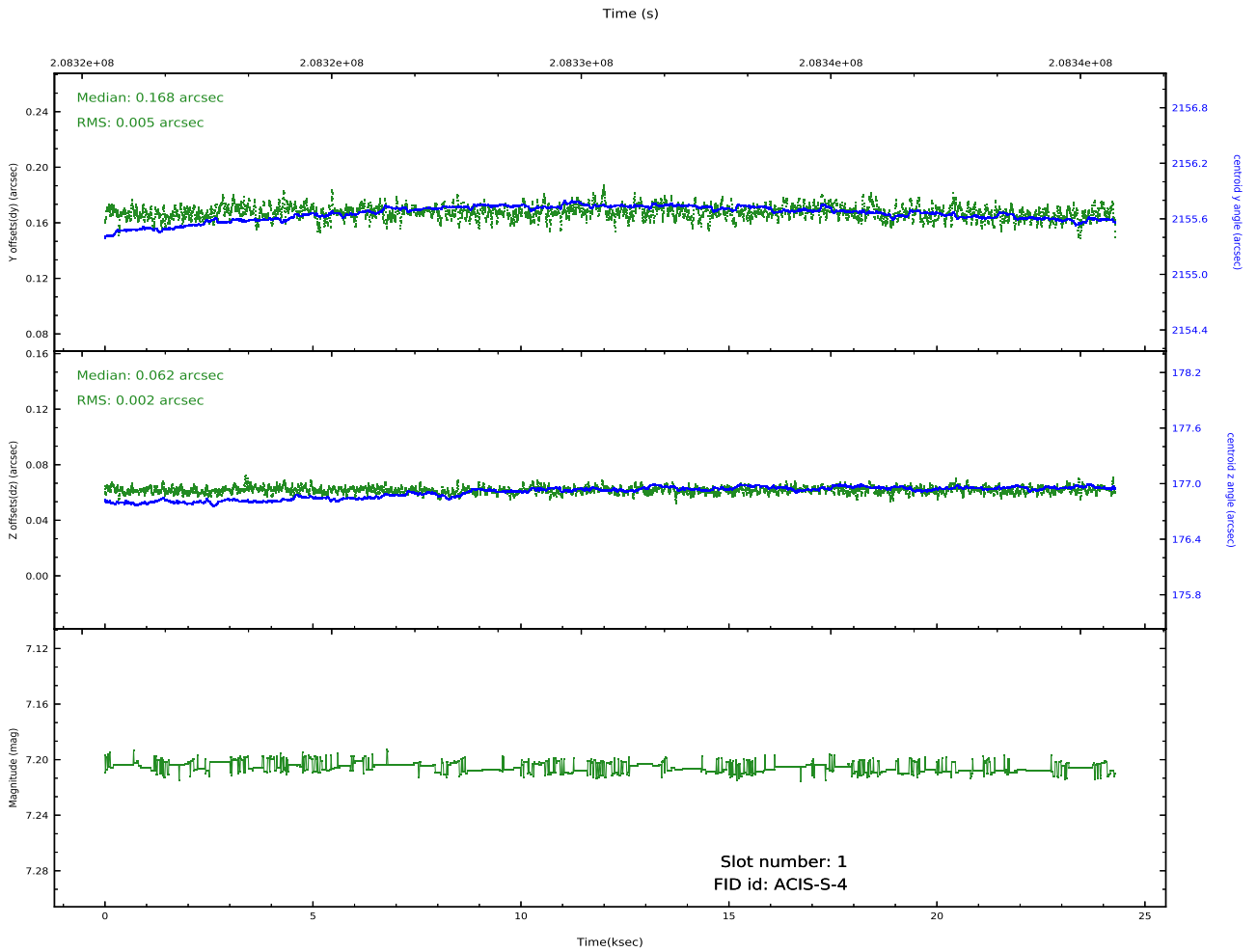
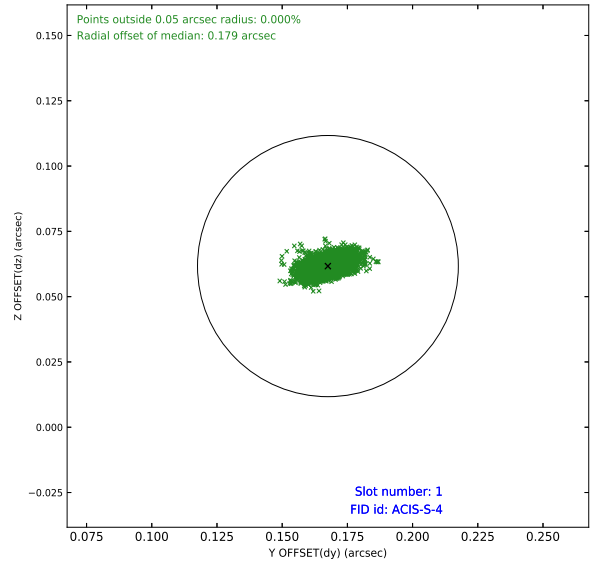
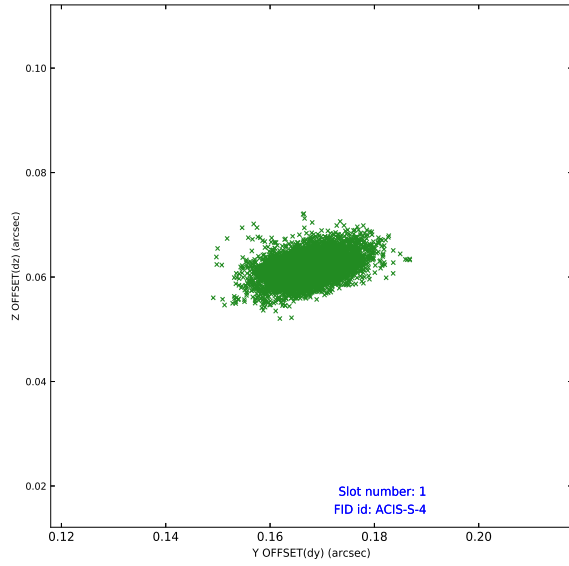


2.5 FID Slots

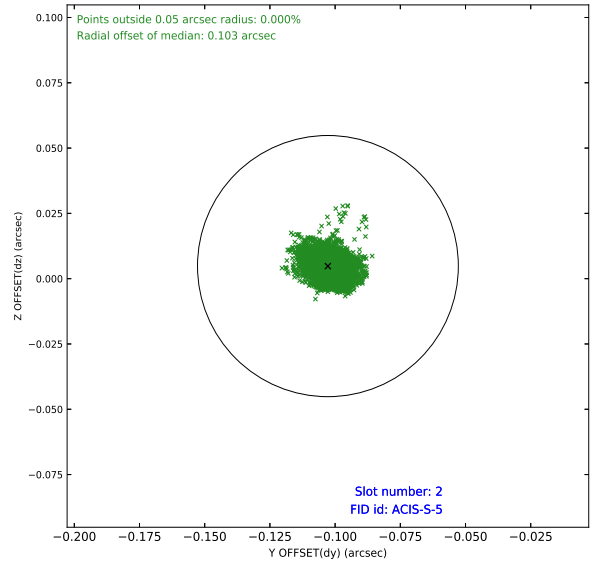
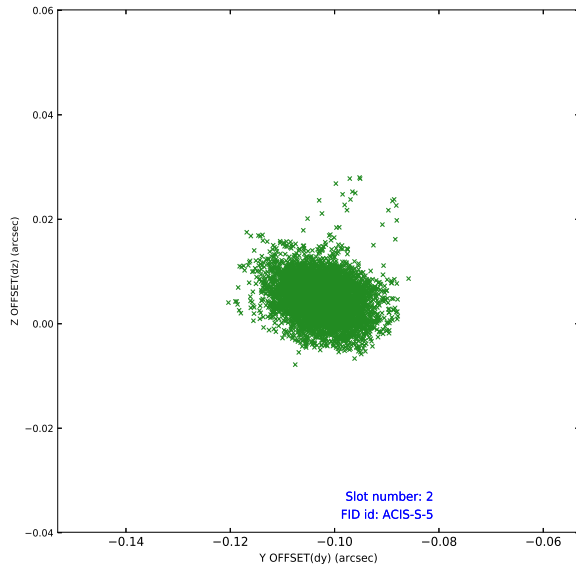
2.5.1 Slot 0



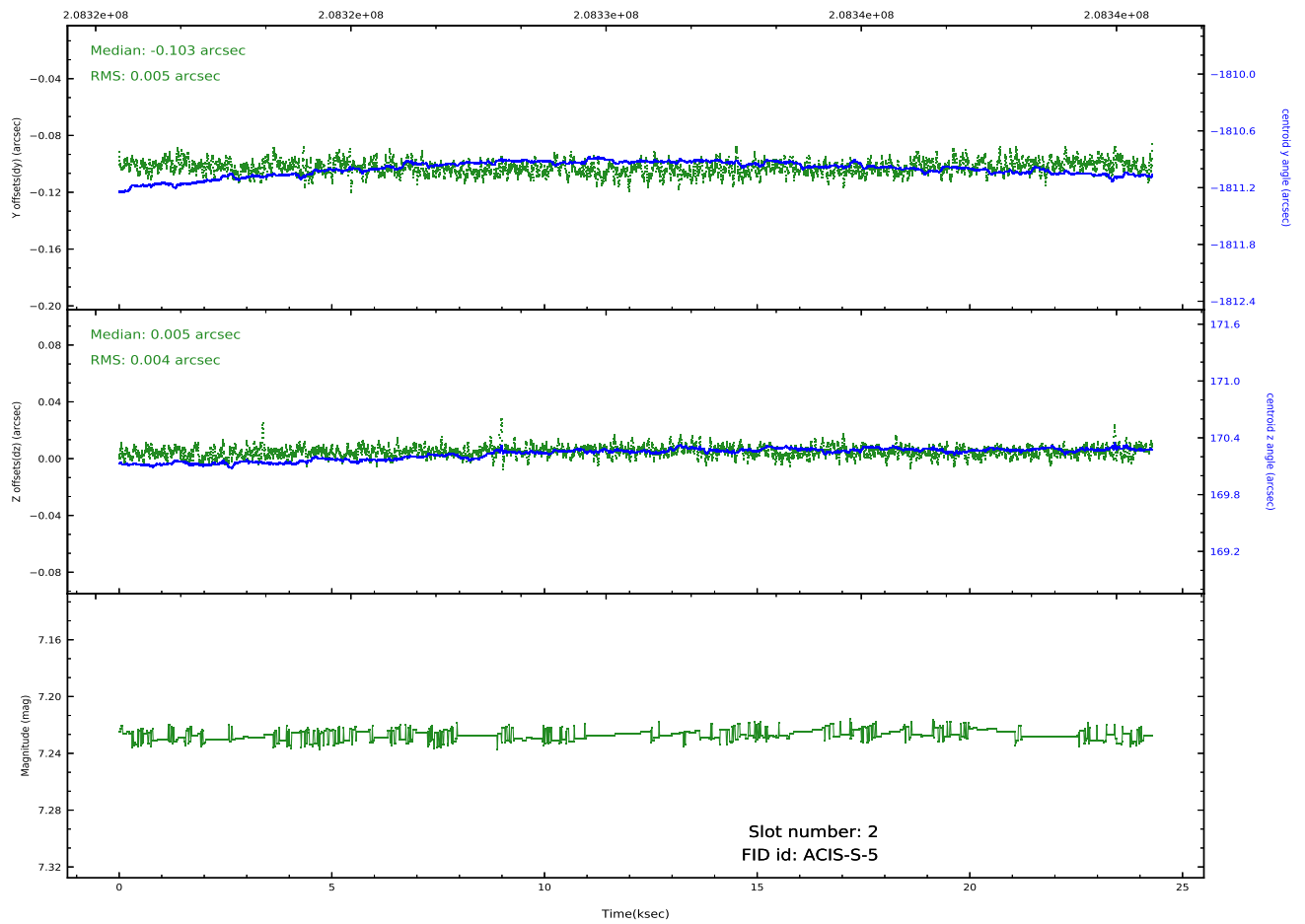
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Francesca Civano
V&V Date (YYYY-MM-DD)	2020.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.281

A.2 Comments