

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4504 - L2 Version 4
Chandra X-Ray Center

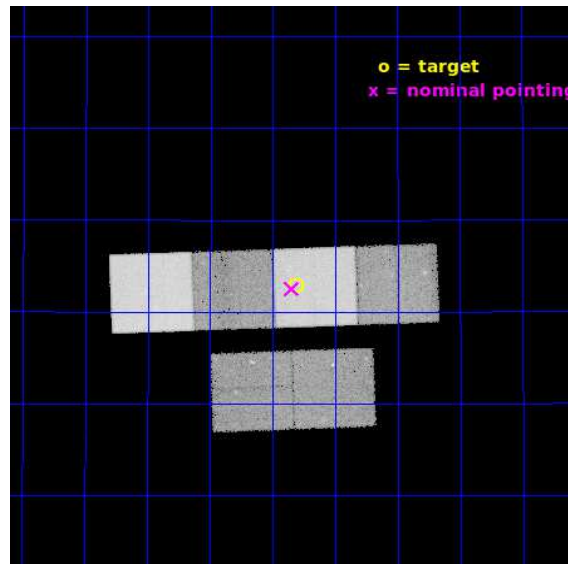
L2 Processing Date : Oct 6 2020

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

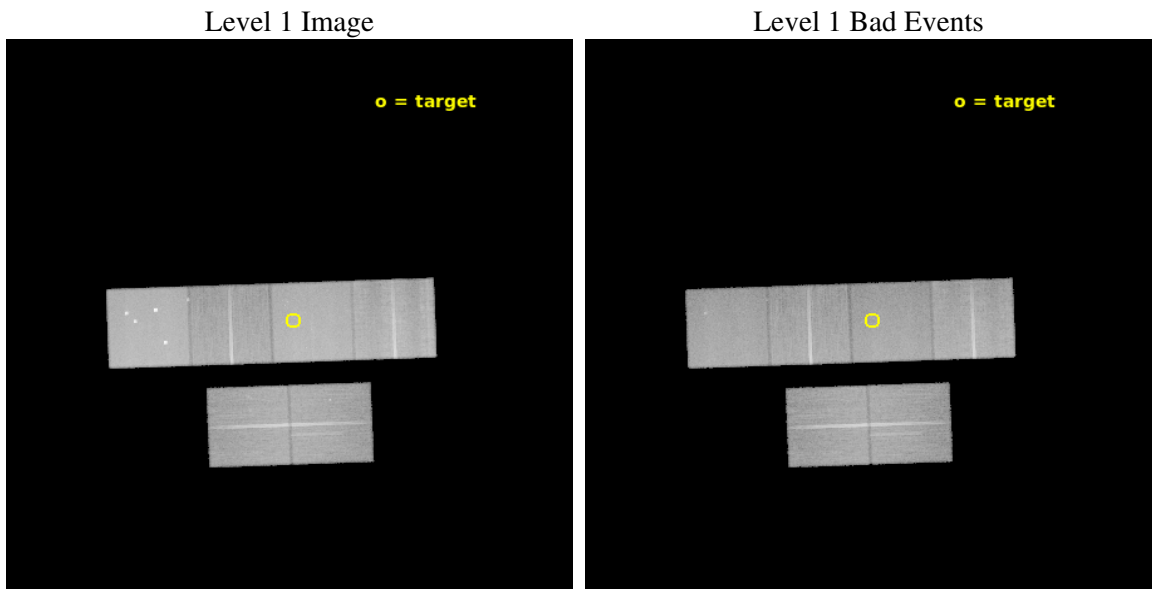
seq_num	200273	Sequence number
obs_id	4504	Observation id
title	Wind-Wind Interactions and Stellar Magnetic Fields in Pre-Planetary Nebulae	Proposal title
observer	Raghvendra Sahai	Principal investigator
object	PN M1-92	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	294.078333	Observer's specified target RA [deg]
dec_targ	29.547611	Observer's specified target Dec [deg]
ra_nom	294.0864169035	Nominal RA [deg]
dec_nom	29.542194774899	Nominal Dec [deg]
roll_nom	357.90217973536	Nominal Roll [deg]
revision	4	Processing version of data
ontime	39756.492299646	Sum of GTIs [s]
livetime	39253.071655662	Livetime [s]
ontime2	39756.533359528	Sum of GTIs [s]
ontime3	39756.369199514	Sum of GTIs [s]
ontime5	39756.451259643	Sum of GTIs [s]
ontime6	39756.410239518	Sum of GTIs [s]
ontime7	39756.492299646	Sum of GTIs [s]
ontime8	39749.846089542	Sum of GTIs [s]
l2events	452970	Number of level 2 events



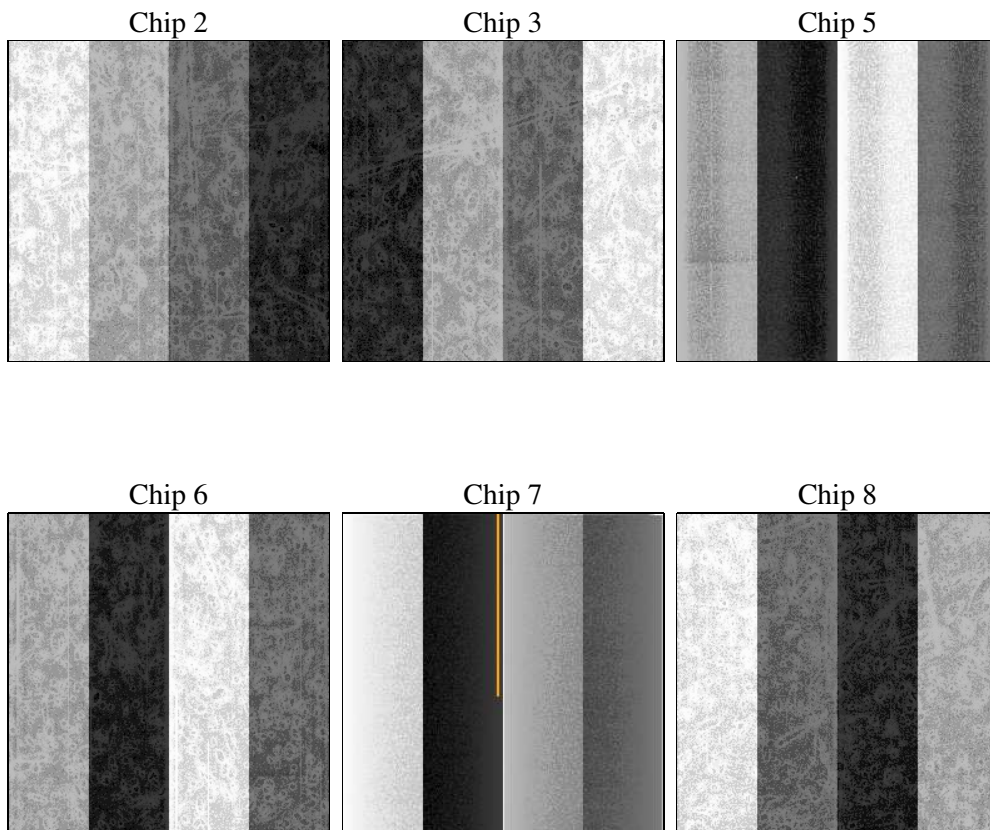
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	39756.492299646	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	39756.533359528	Sum of GTIs [s]
date	2020-10-06T03:57:18	Date and time of file creation	ontime3	39756.369199514	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	39756.451259643	Sum of GTIs [s]
			ontime6	39756.410239518	Sum of GTIs [s]
			ontime7	39756.492299646	Sum of GTIs [s]
			ontime8	39749.846089542	Sum of GTIs [s]
			l1events	2007140	Number of level 1 events

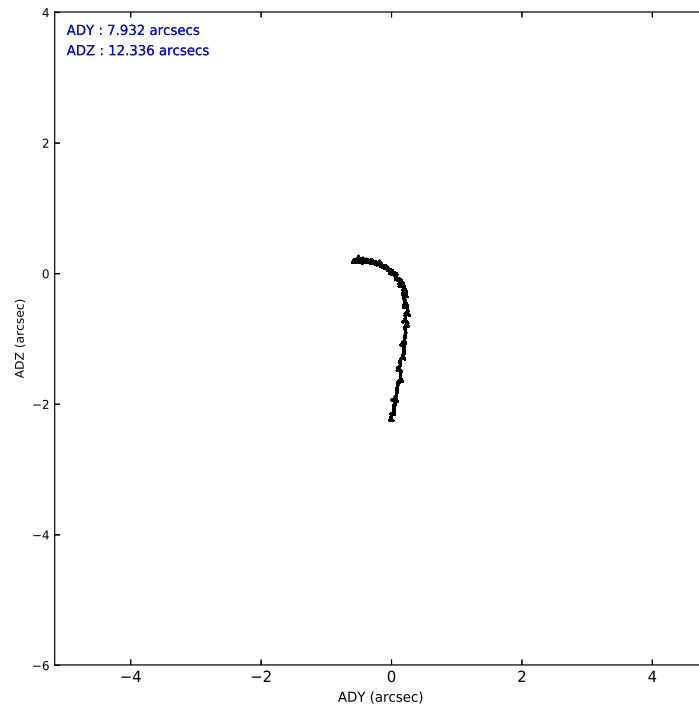
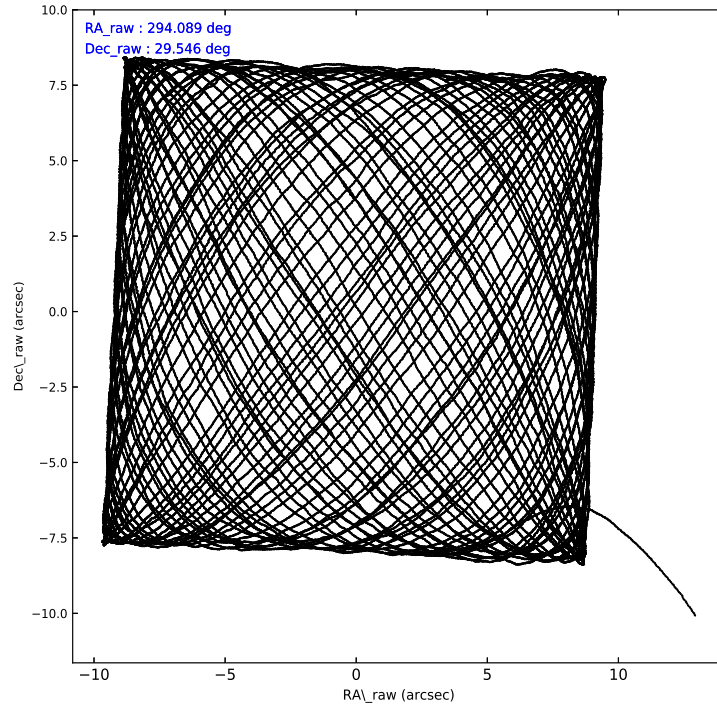
2.1.4 Events

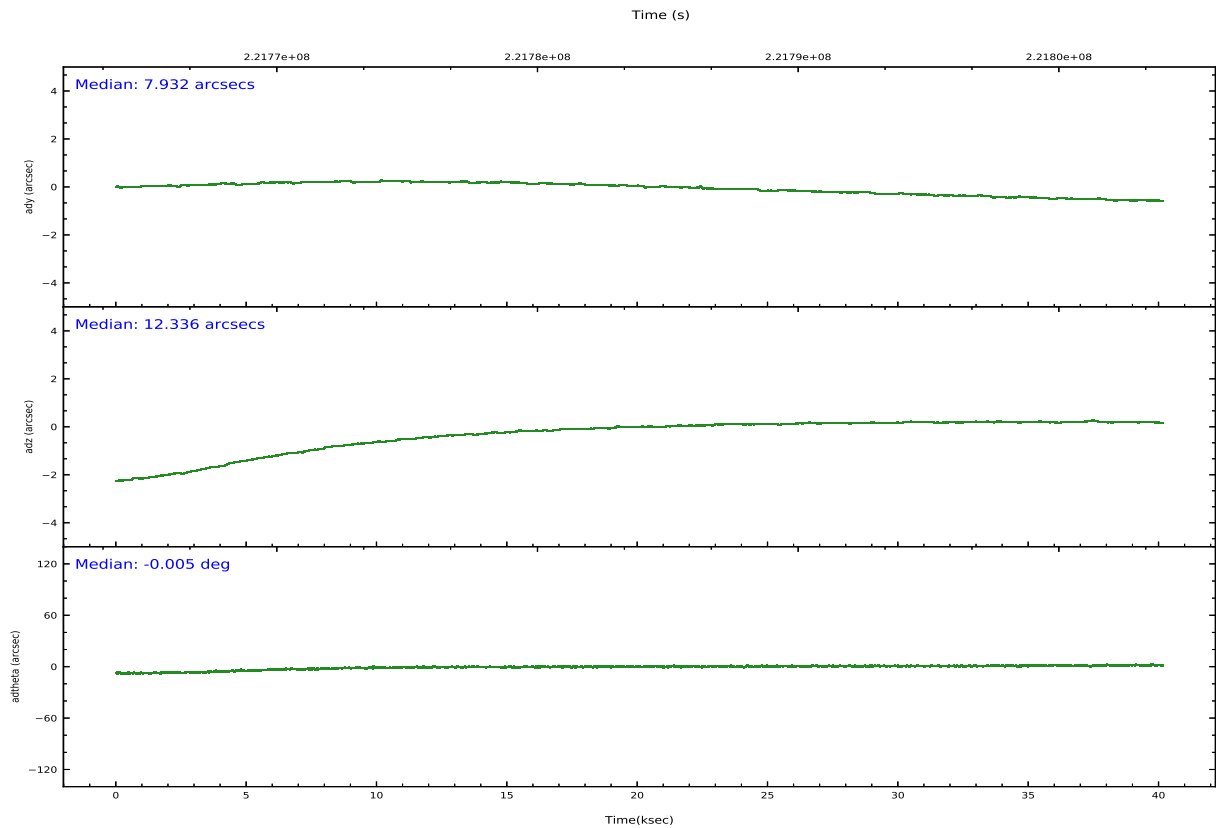
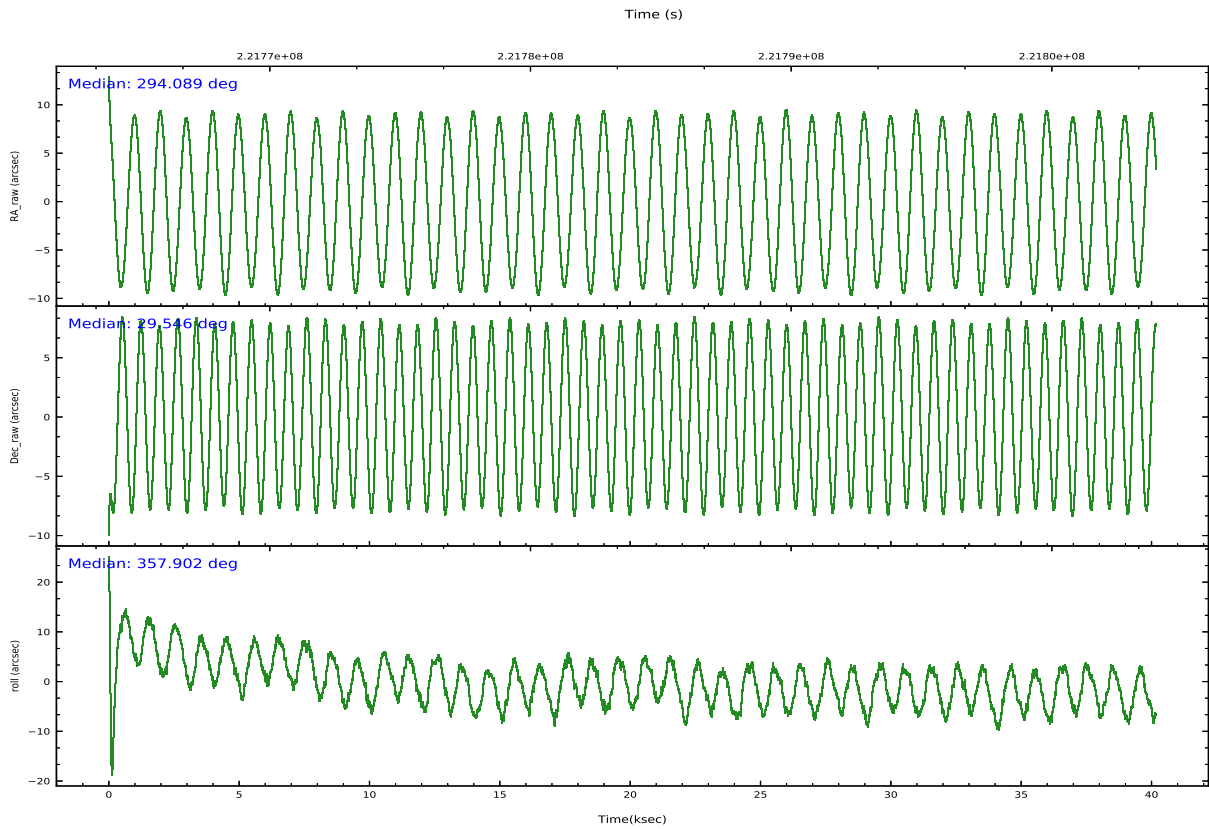
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	284405	269598	429495	280156	379864	363622	grade 0 events	15479	14609	27759	13290	14045	25051
rejected events	249940	236698	227746	246839	221788	284813		5%	5%	6%	4%	3%	6%
rejected %	87%	87%	53%	88%	58%	78%	grade 1 events	195	146	522	118	374	268
								0%	0%	0%	0%	0%	0%
							grade 2 events	7050	6238	58060	6826	31333	17134
								2%	2%	13%	2%	8%	4%
							grade 3 events	3277	3120	7506	3292	13981	8478
								1%	1%	1%	1%	3%	2%
							grade 4 events	3079	3223	7102	3259	13973	7875
								1%	1%	1%	1%	3%	2%
							grade 5 events	11261	12378	30838	13062	36370	17193
								3%	4%	7%	4%	9%	4%
							grade 6 events	5582	5713	101336	6652	84755	20276
								1%	2%	23%	2%	22%	5%
							grade 7 events	238482	224171	196372	233657	185033	267347
								83%	83%	45%	83%	48%	73%

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	294.061742	294.0864169035	Subarray requested	NONE	NONE
[deg] Pointing Dec	29.532502	29.542194774899	Alternating exposures requested	N	N
[deg] Pointing Roll	357.761690	357.90217973536	[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)	221764000.184000	221762798.11227			
Observation start date	2005-01-10T17:05:36	2005-01-10T16:46:38			
[s] Observation end time (MET)	221804000.184000	221805494.4892			
Observation end date	2005-01-11T04:12:16	2005-01-11T04:38:14			
Read mode	TIMED	TIMED			

2.3 Aspect





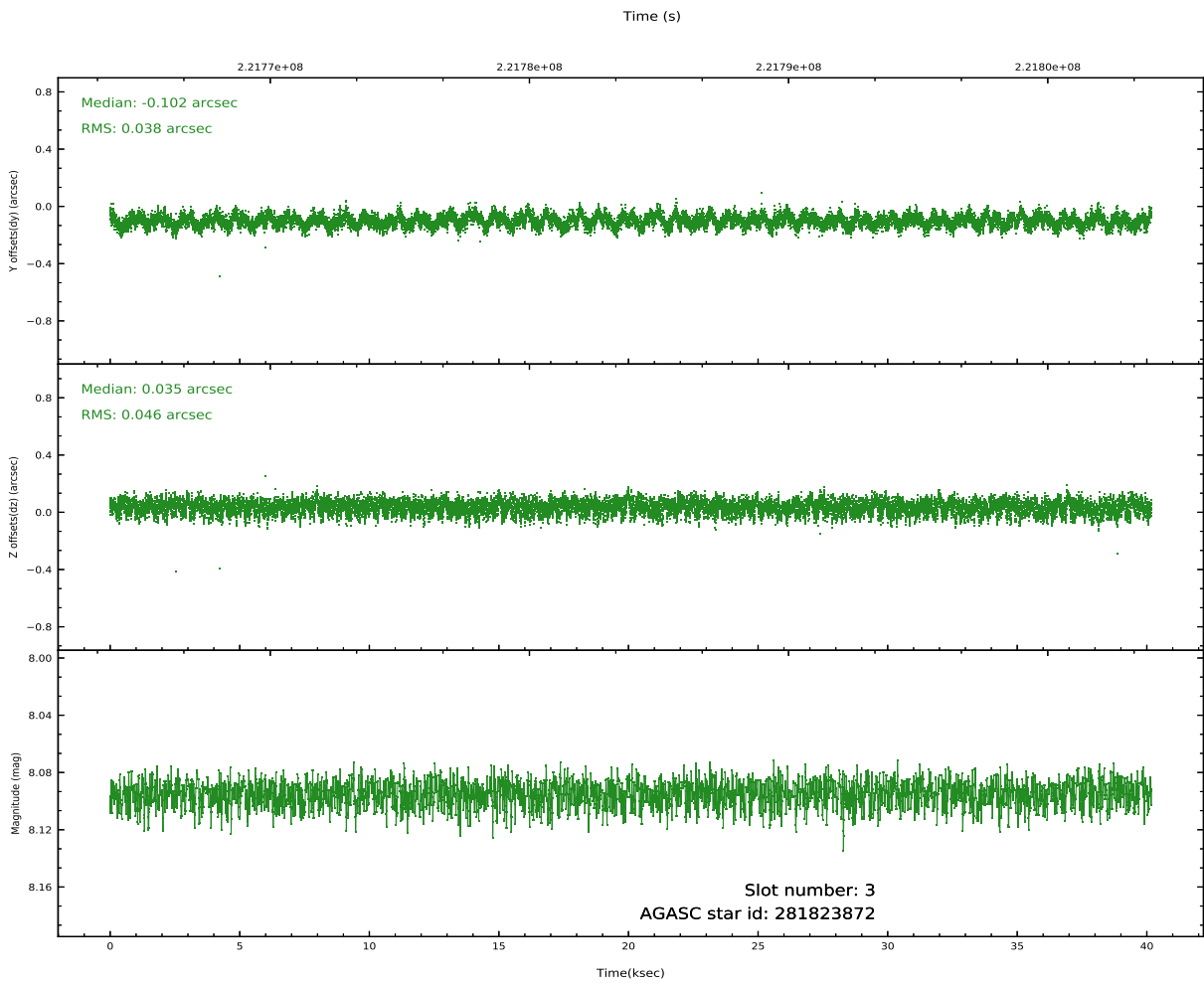
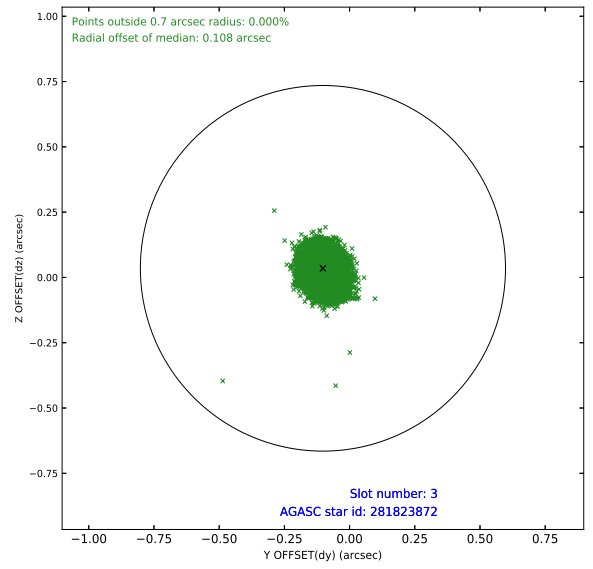
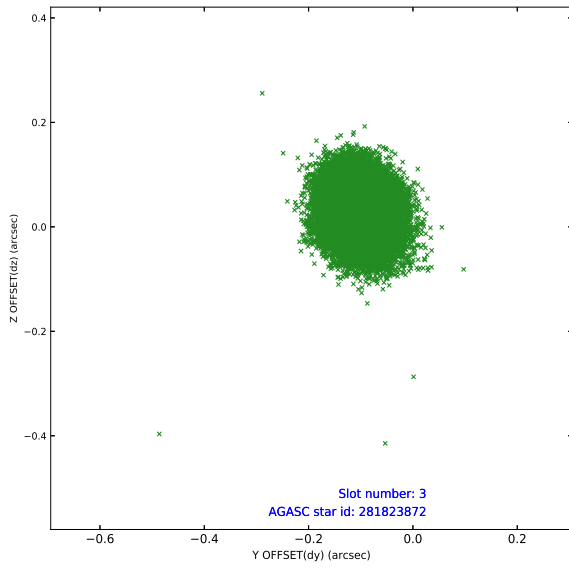
Slot Statistics

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-1	7.19	9800	1.000	0.107	-0.064	0.011	0.024	0.000000	0.000000	935.49	-1728
1	FID		ACIS-S-2	7.10	9799	1.000	-0.019	-0.011	0.015	0.025	0.000000	0.000000	-760.53	-1733
2	FID		ACIS-S-5	7.23	9800	1.000	-0.112	0.081	0.011	0.034	0.000000	0.000000	-1813.86	168
3	GUIDE	used	281823872	8.09	19594	1.000	-0.102	0.035	0.064	0.100	293.583727	29.366915	-1475.18	-651
4	GUIDE	used	281827944	9.36	19585	1.000	-0.018	-0.023	0.091	0.146	293.418907	29.040186	-1952.38	-1844
5	GUIDE	used	347998528	9.28	19590	1.000	0.055	-0.027	0.094	0.151	294.052060	30.163784	-118.97	2269
6	GUIDE	used	348009424	8.85	19595	1.000	-0.023	0.027	0.088	0.138	294.512266	30.147769	1314.82	2271
7	GUIDE	used	281822608	9.81	19579	1.000	0.086	-0.009	0.128	0.208	294.414251	29.049896	1177.00	-1690

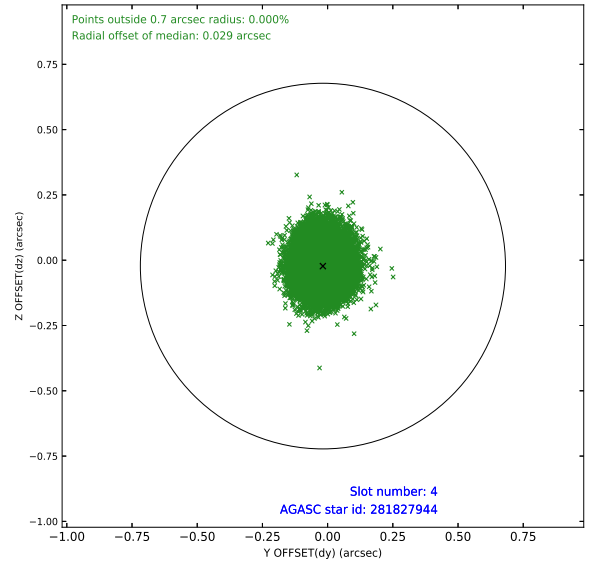
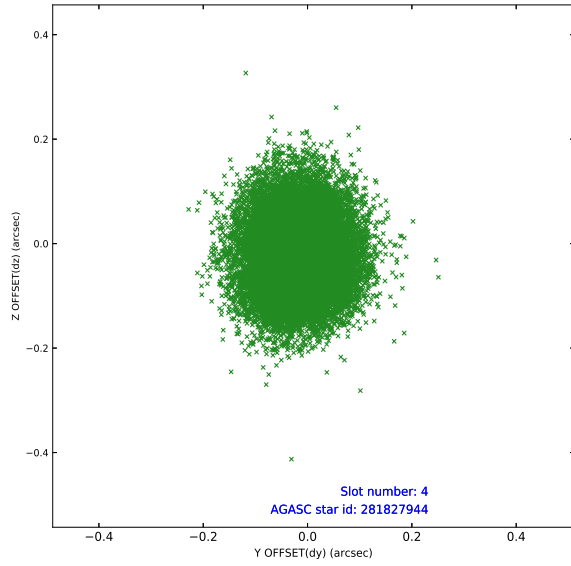
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2.4 Star Slots

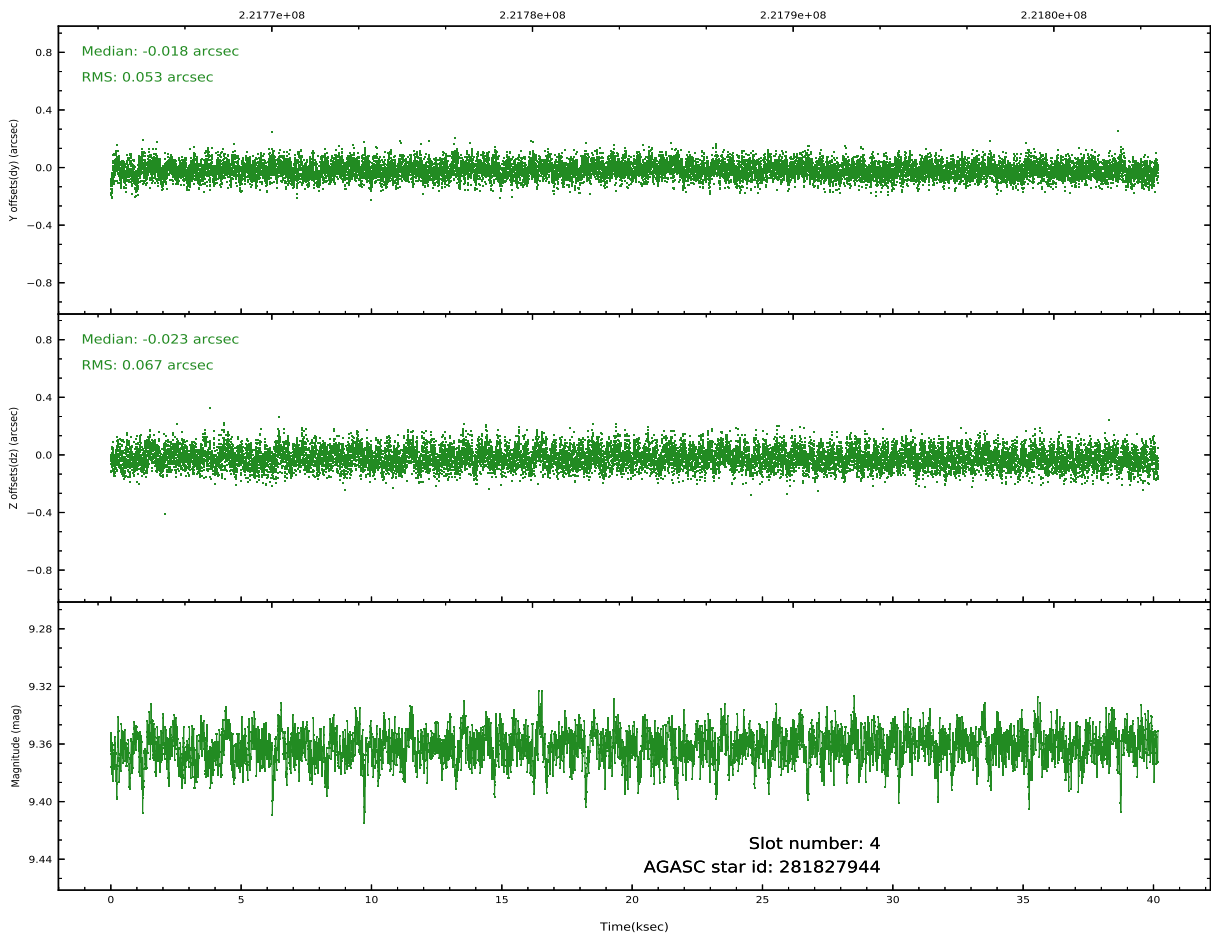
2.4.1 Slot 3



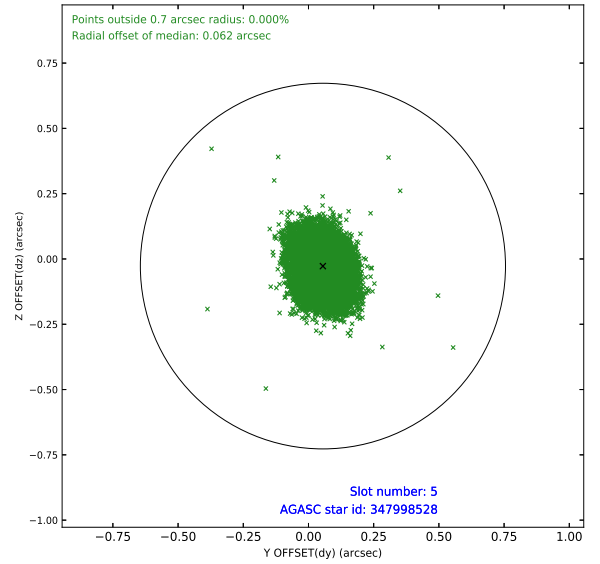
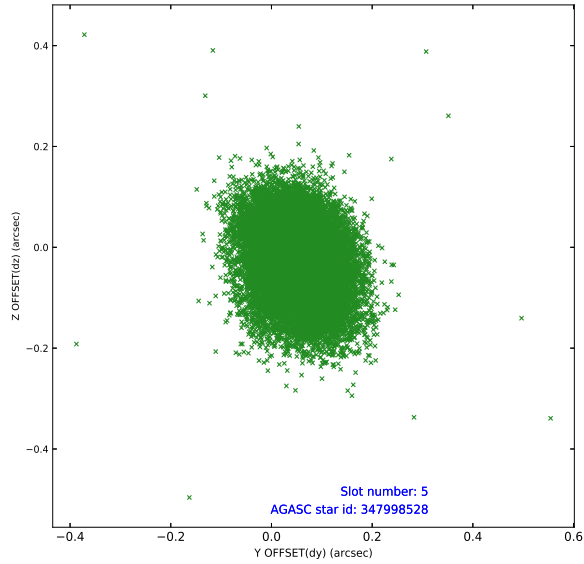
2.4.2 Slot 4



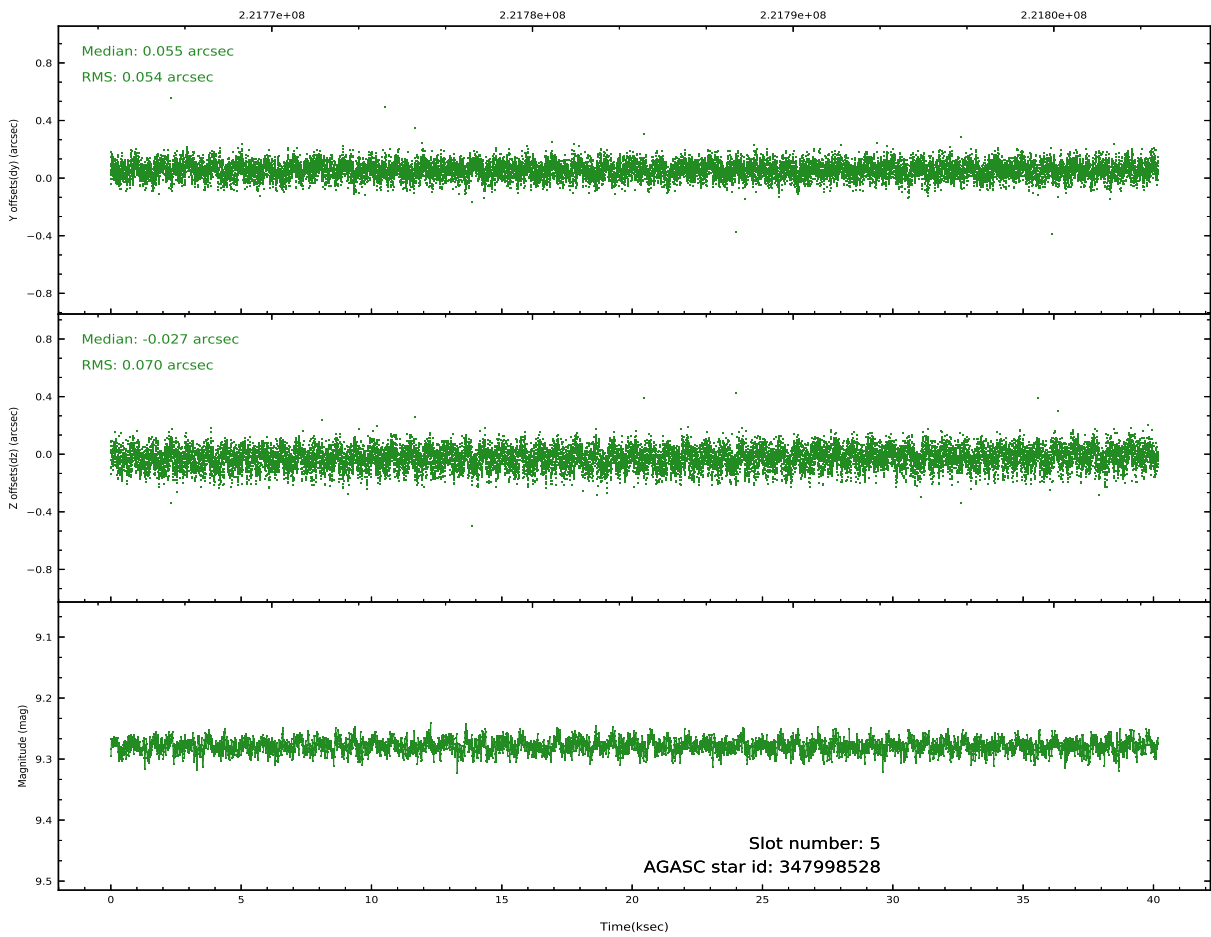
Time (s)



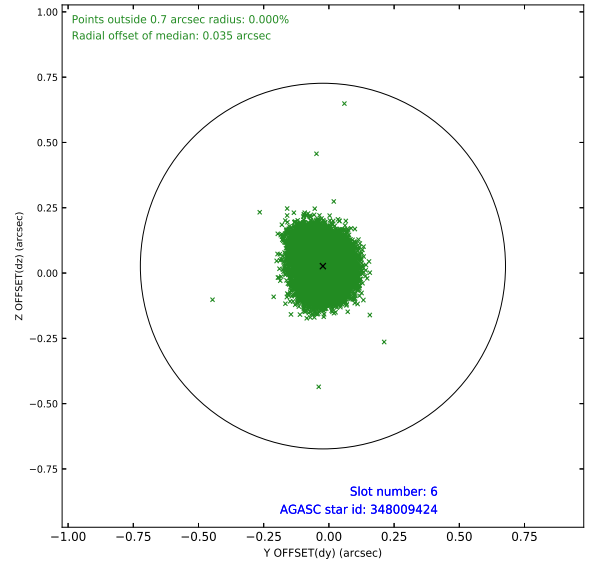
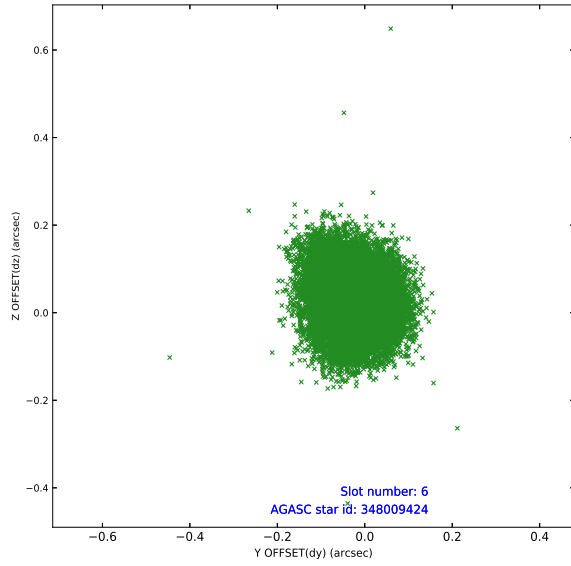
2.4.3 Slot 5



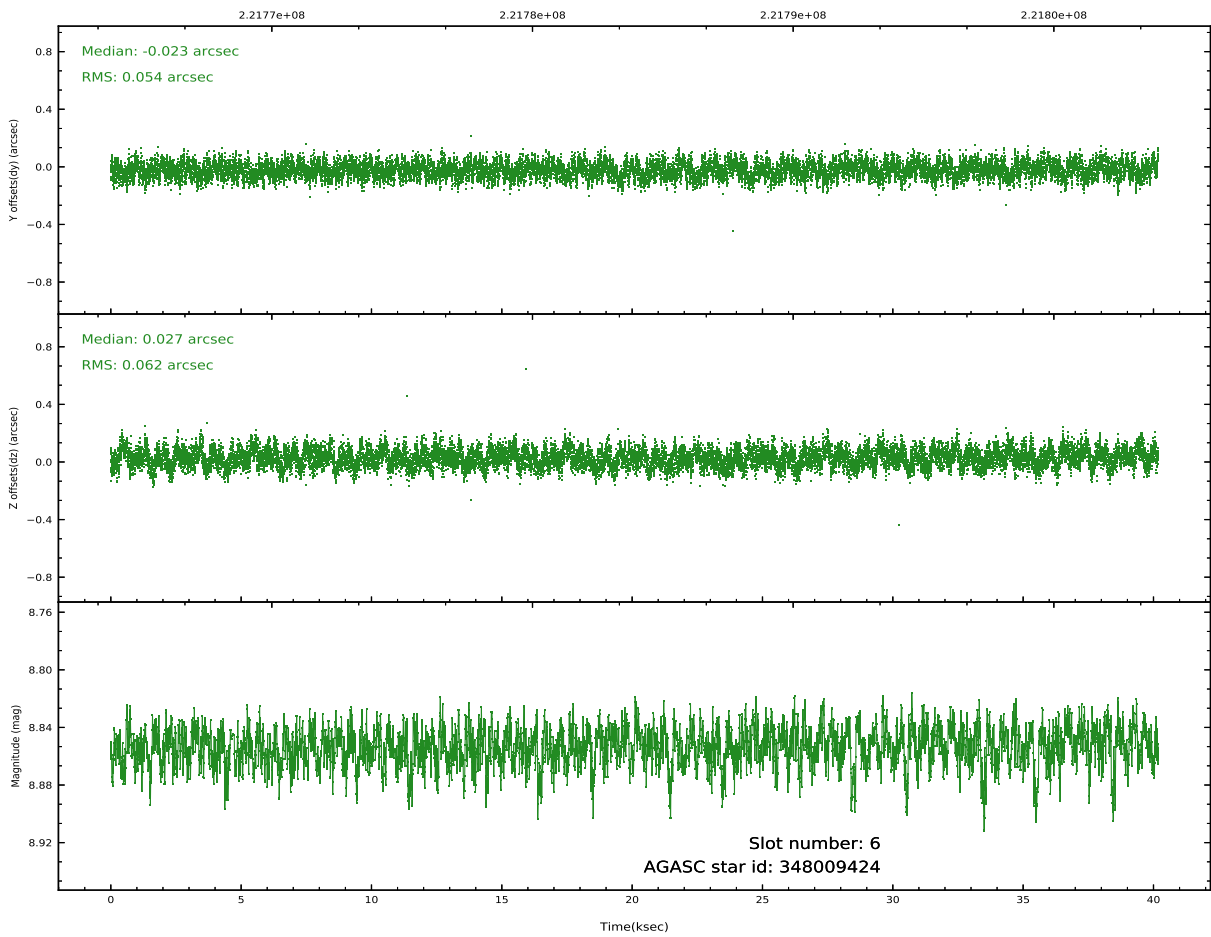
Time (s)



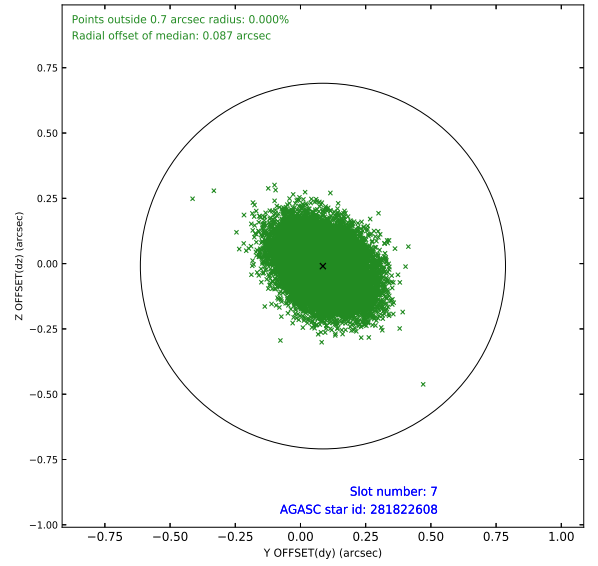
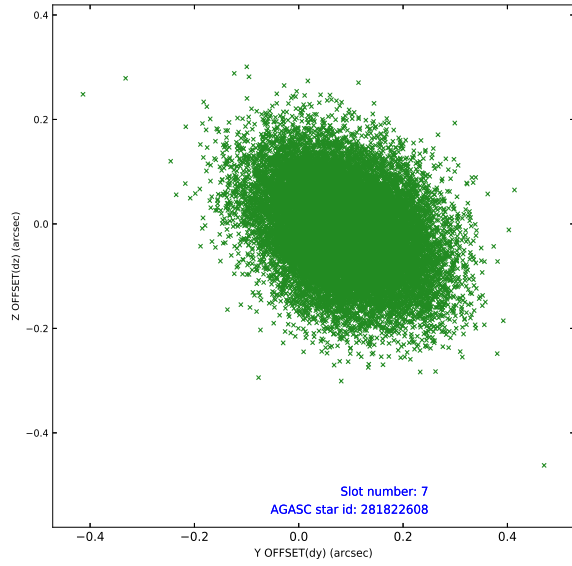
2.4.4 Slot 6



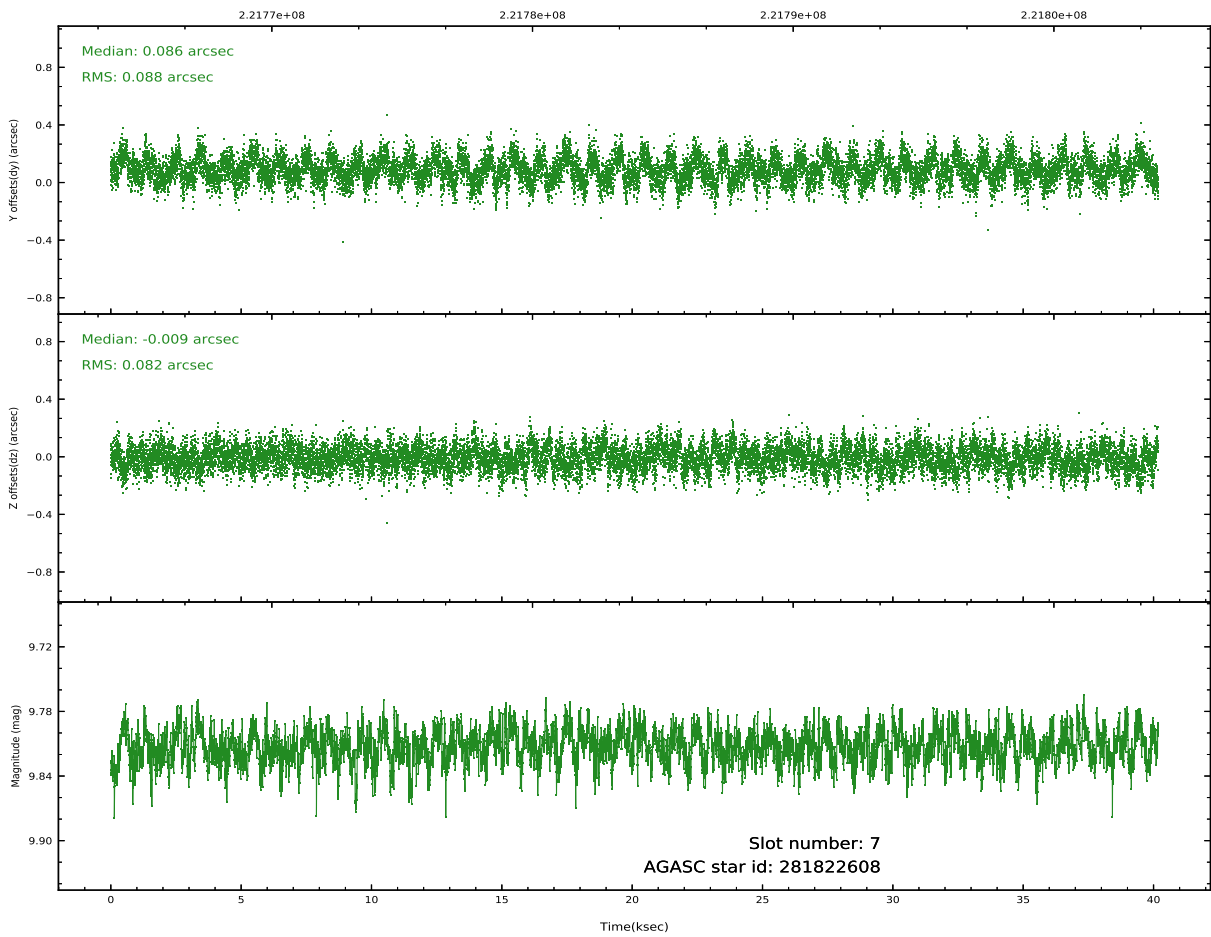
Time (s)



2.4.5 Slot 7

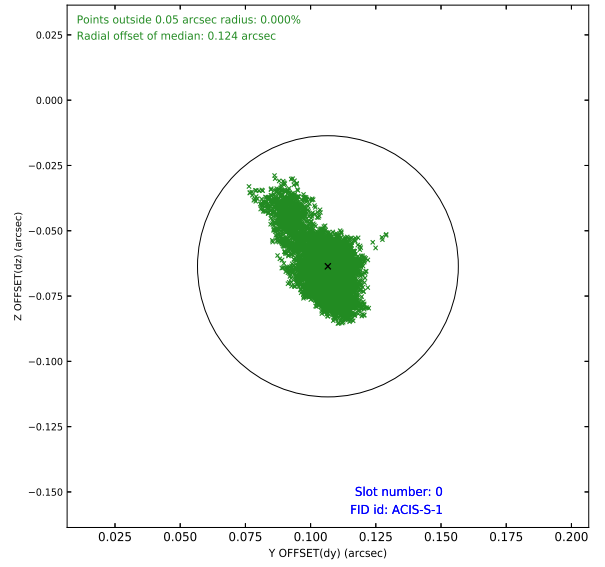
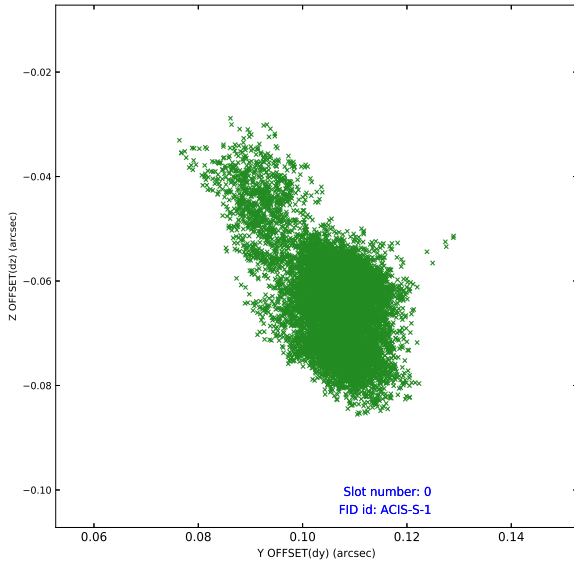


Time (s)

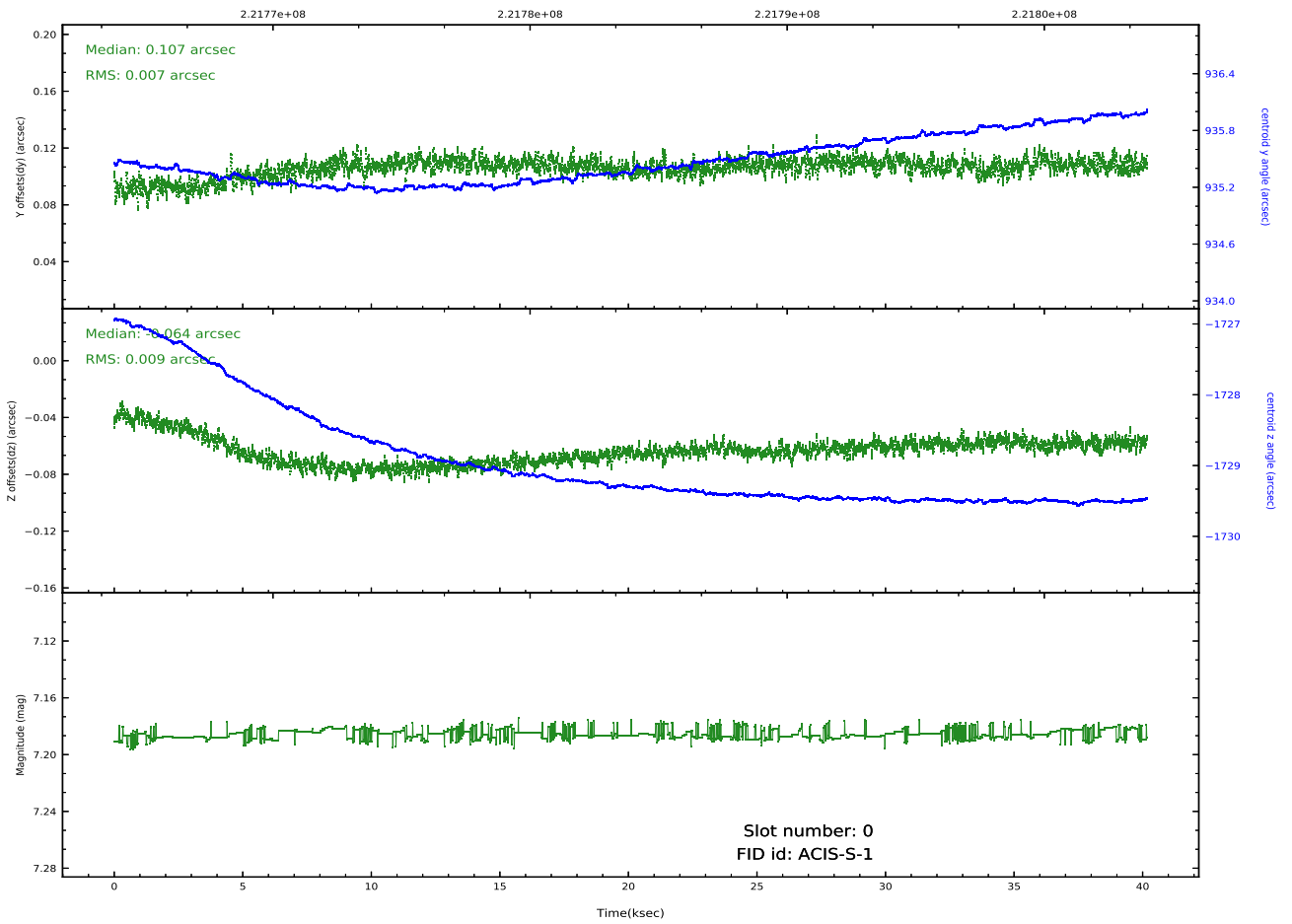


2.5 FID Slots

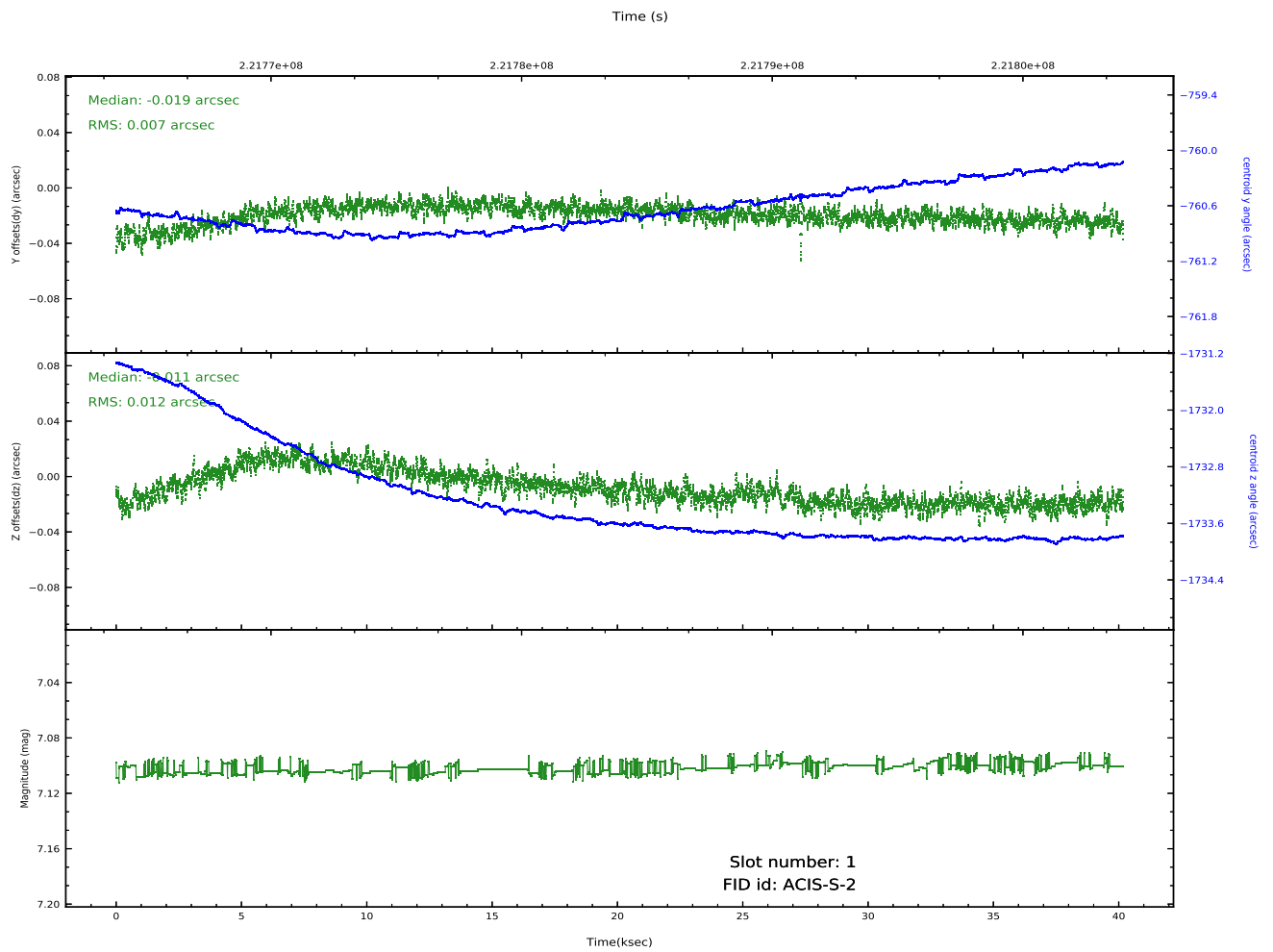
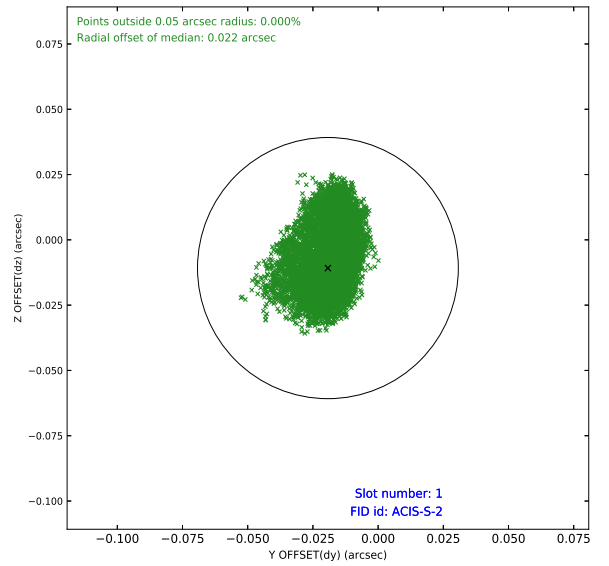
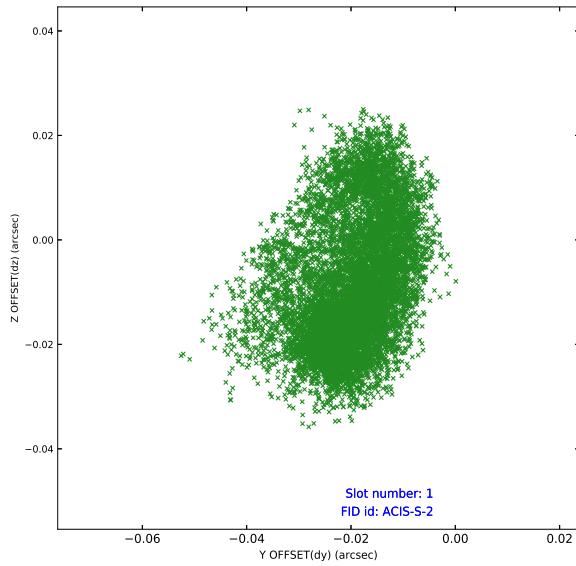
2.5.1 Slot 0



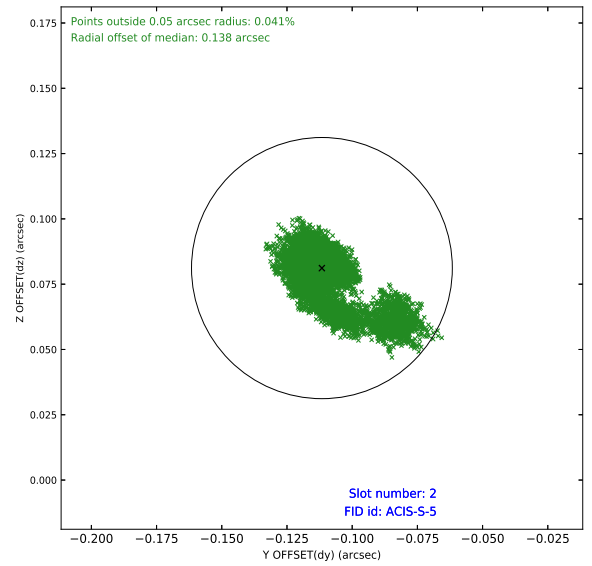
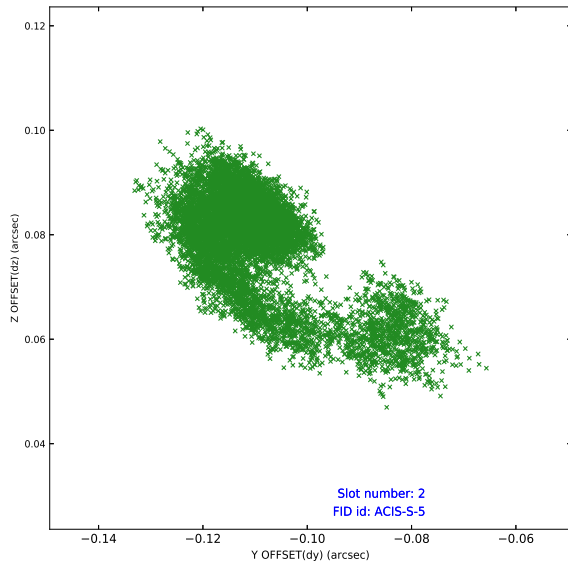
Time (s)



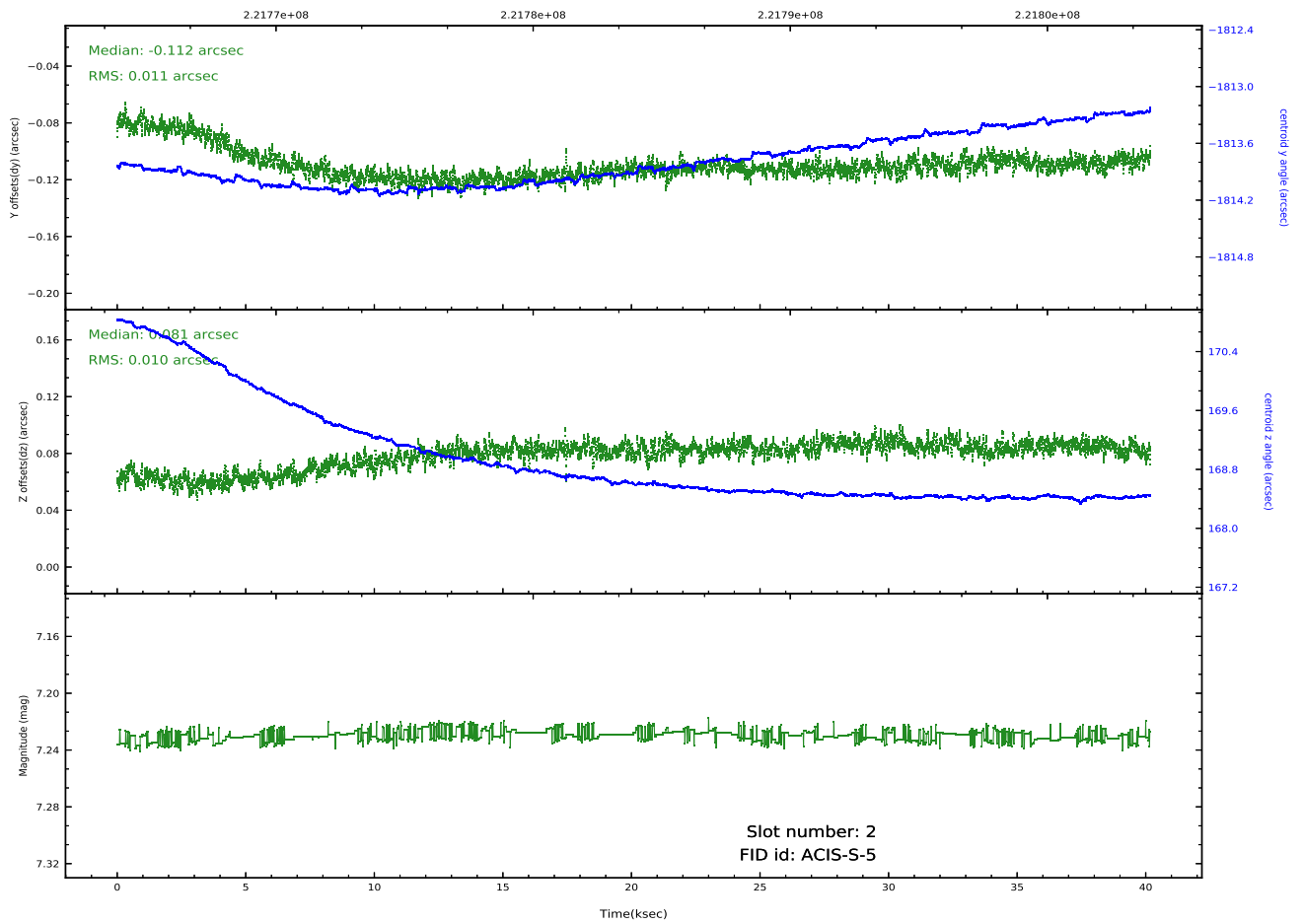
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.75679

A.2 Comments