

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5694 - L2 Version 4
Chandra X-Ray Center

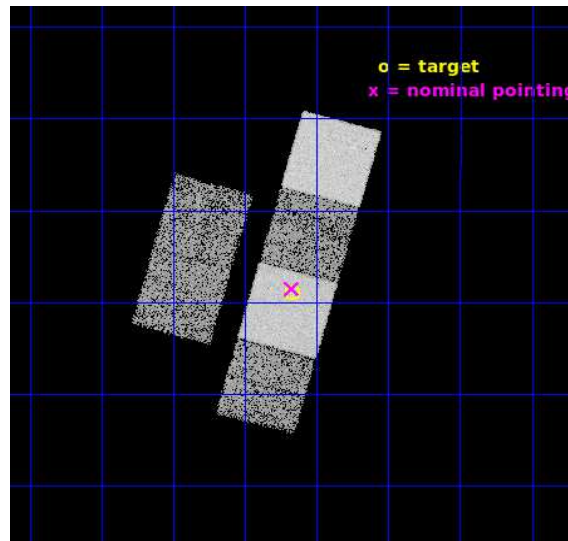
L2 Processing Date : Oct 9 2020

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1 Front

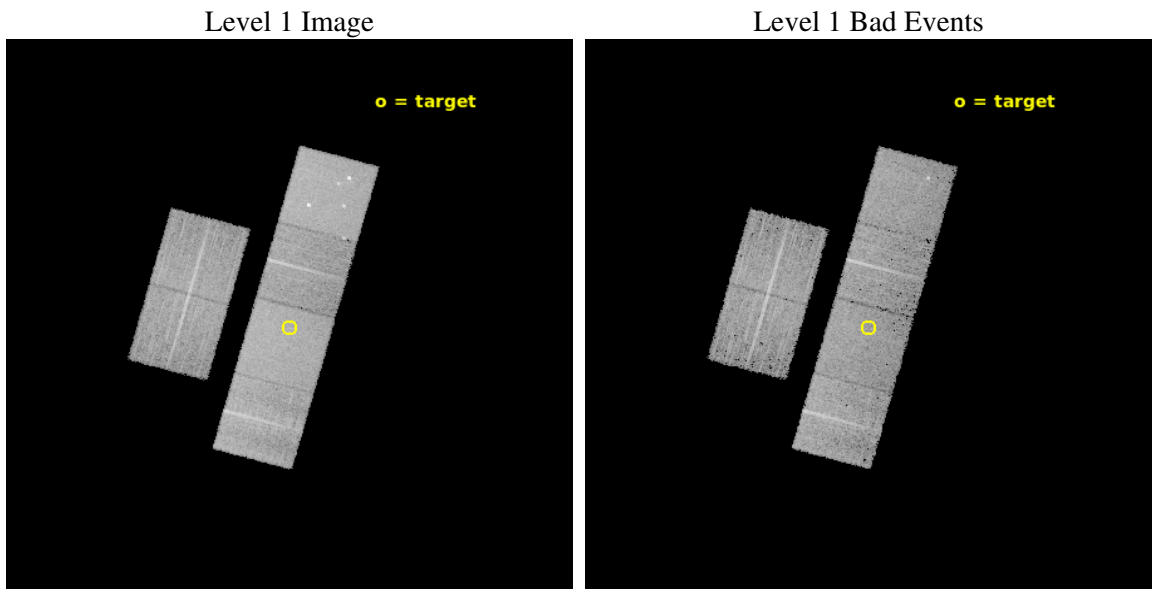
seq_num	701116	Sequence number
obs_id	5694	Observation id
title	Studying the X-ray properties of SDSS candidate Type II quasars with exploratory Chandra observations	Proposal title
observer	Cristian Vignali	Principal investigator
object	SDSS J005009.81-003900.6	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	12.540833	Observer's specified target RA [deg]
dec_targ	-0.650167	Observer's specified target Dec [deg]
ra_nom	12.543012421965	Nominal RA [deg]
dec_nom	-0.64202340518296	Nominal Dec [deg]
roll_nom	105.44926971322	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7954.3843974769	Sum of GTIs [s]
livetime	7853.6611926808	Livetime [s]
ontime2	7954.4254374802	Sum of GTIs [s]
ontime3	7954.261277467	Sum of GTIs [s]
ontime5	7954.3433574736	Sum of GTIs [s]
ontime6	7954.3023174703	Sum of GTIs [s]
ontime7	7954.3843974769	Sum of GTIs [s]
ontime8	7954.2202374935	Sum of GTIs [s]
l2events	94932	Number of level 2 events



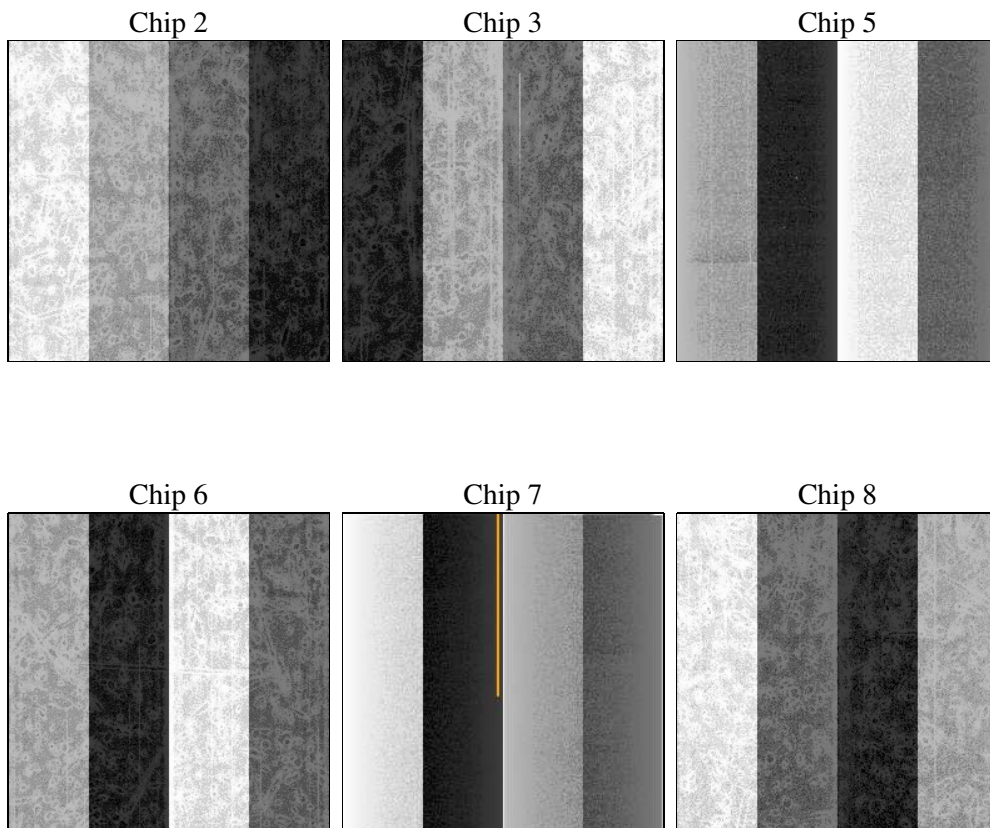
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	7954.3843974769	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	7954.4254374802	Sum of GTIs [s]
date	2020-10-10T00:09:21	Date and time of file creation	ontime3	7954.261277467	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	7954.3433574736	Sum of GTIs [s]
			ontime6	7954.3023174703	Sum of GTIs [s]
			ontime7	7954.3843974769	Sum of GTIs [s]
			ontime8	7954.2202374935	Sum of GTIs [s]
			l1events	423828	Number of level 1 events

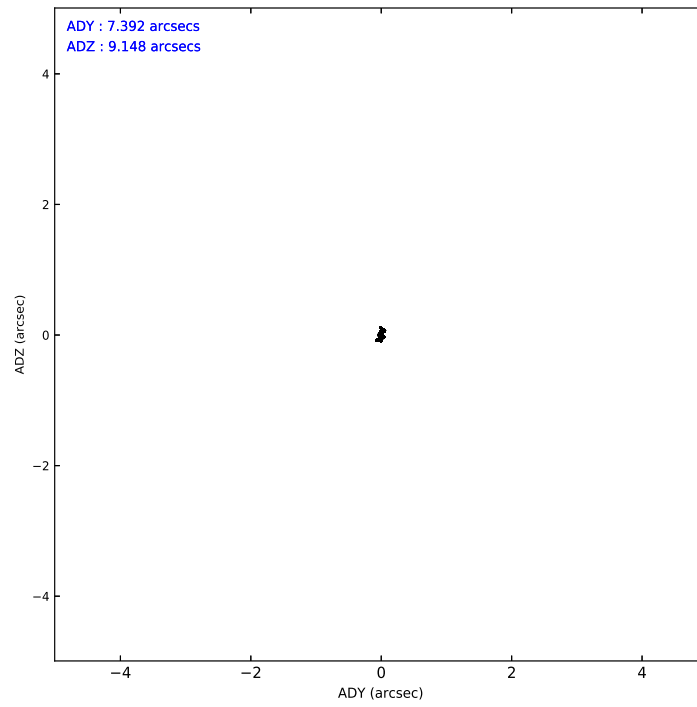
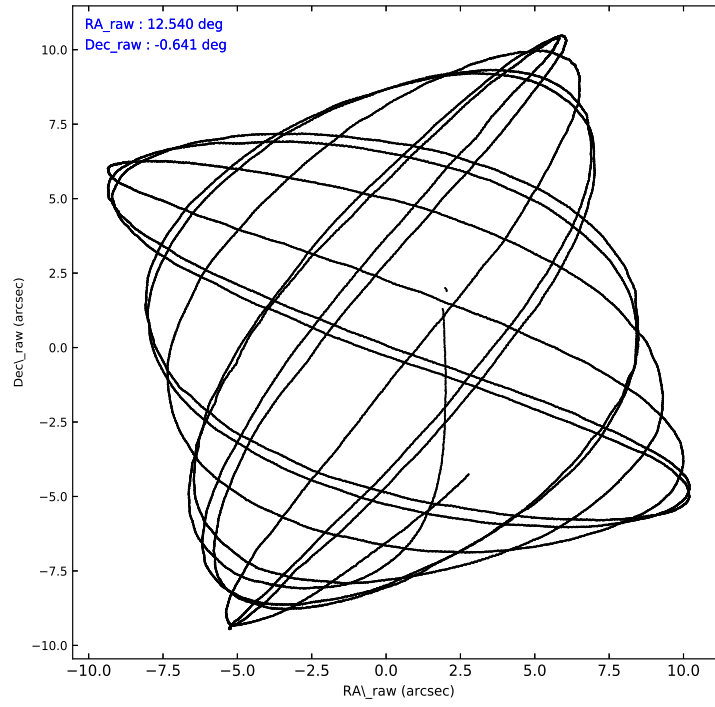
2.1.4 Events

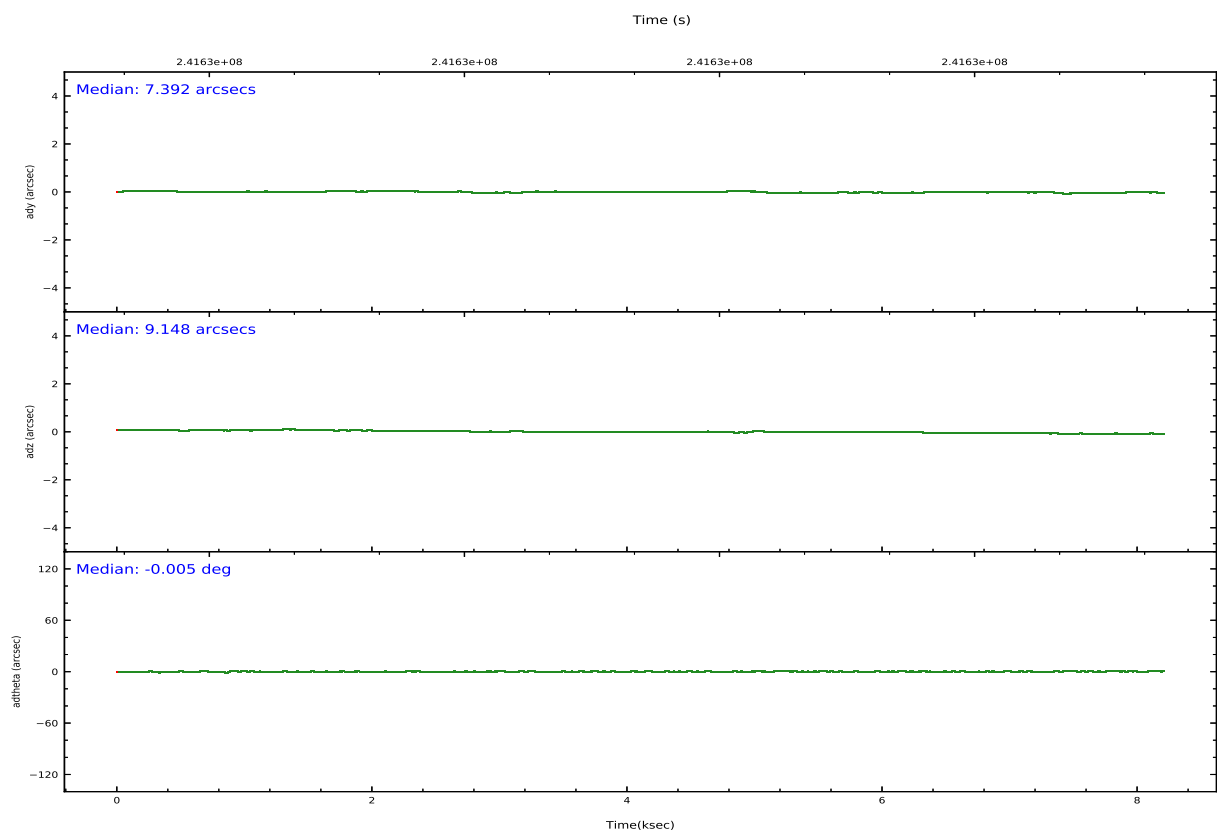
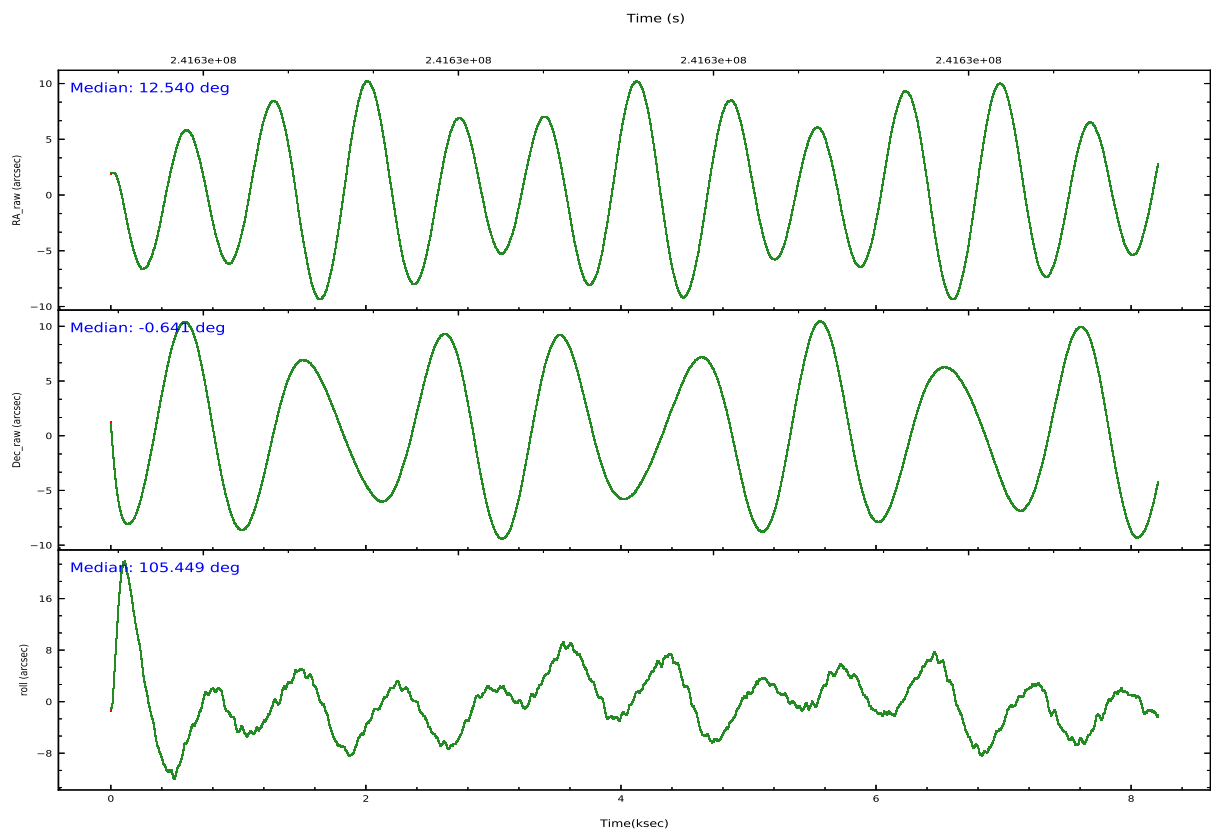
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	60779	57621	91074	57550	80487	76317	grade 0 events	3104	3084	5232	2855	2830	5165
rejected events	53543	50540	48945	50291	47528	59744		5%	5%	5%	4%	3%	6%
rejected %	88%	87%	53%	87%	59%	78%	grade 1 events	33	42	129	25	83	67
								0%	0%	0%	0%	0%	0%
							grade 2 events	1533	1322	12600	1569	6656	3636
								2%	2%	13%	2%	8%	4%
							grade 3 events	660	720	1482	703	2907	1862
								1%	1%	1%	1%	3%	2%
							grade 4 events	708	690	1476	699	2741	1698
								1%	1%	1%	1%	3%	2%
							grade 5 events	2375	2747	6665	2806	7668	3621
								3%	4%	7%	4%	9%	4%
							grade 6 events	1234	1268	21374	1441	17851	4221
								2%	2%	23%	2%	22%	5%
							grade 7 events	51132	47748	42116	47452	39751	56047
								84%	82%	46%	82%	49%	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	12.559593	12.543012421965	Subarray requested	NONE	NONE
[deg] Pointing Dec	-0.659376	-0.64202340518296	Alternating exposures requested	N	N
[deg] Pointing Roll	105.290216	105.44926971322	[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	-190.145094680475			
[mm] SIM translation stage offset	0	0.01257209746719923			
[s] Observation start time (MET)	241625486.184000	241624511.01629			
Observation start date	2005-08-28T14:10:22	2005-08-28T13:55:11			
[s] Observation end time (MET)	241633486.184000	241634584.71675			
Observation end date	2005-08-28T16:23:42	2005-08-28T16:43:04			
Read mode	TIMED	TIMED			

2.3 Aspect



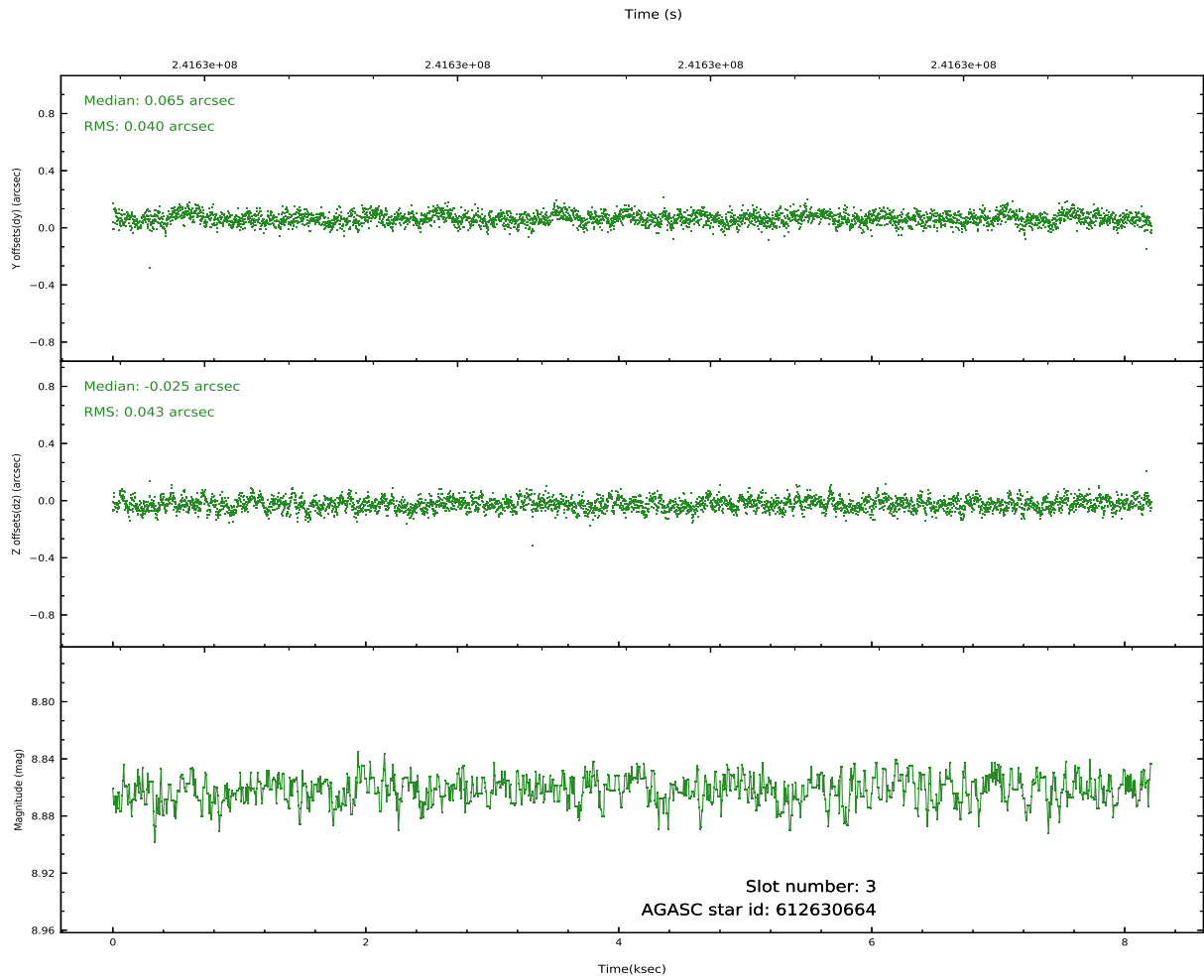
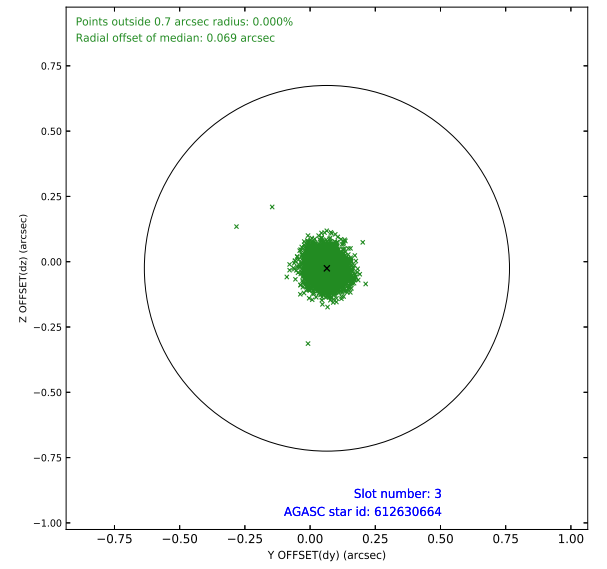
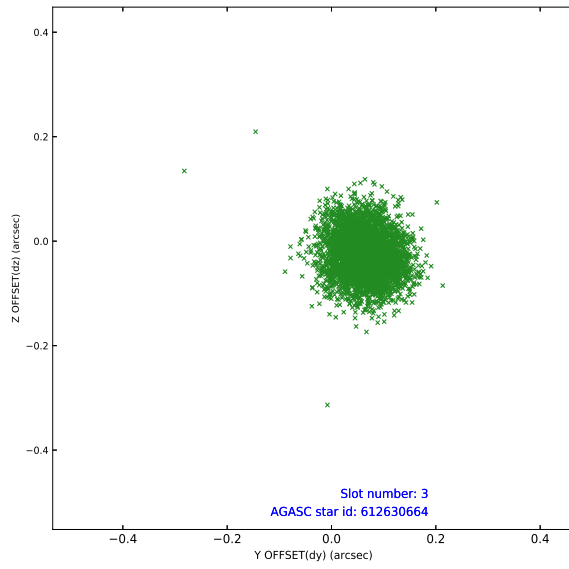


Slot Statistics

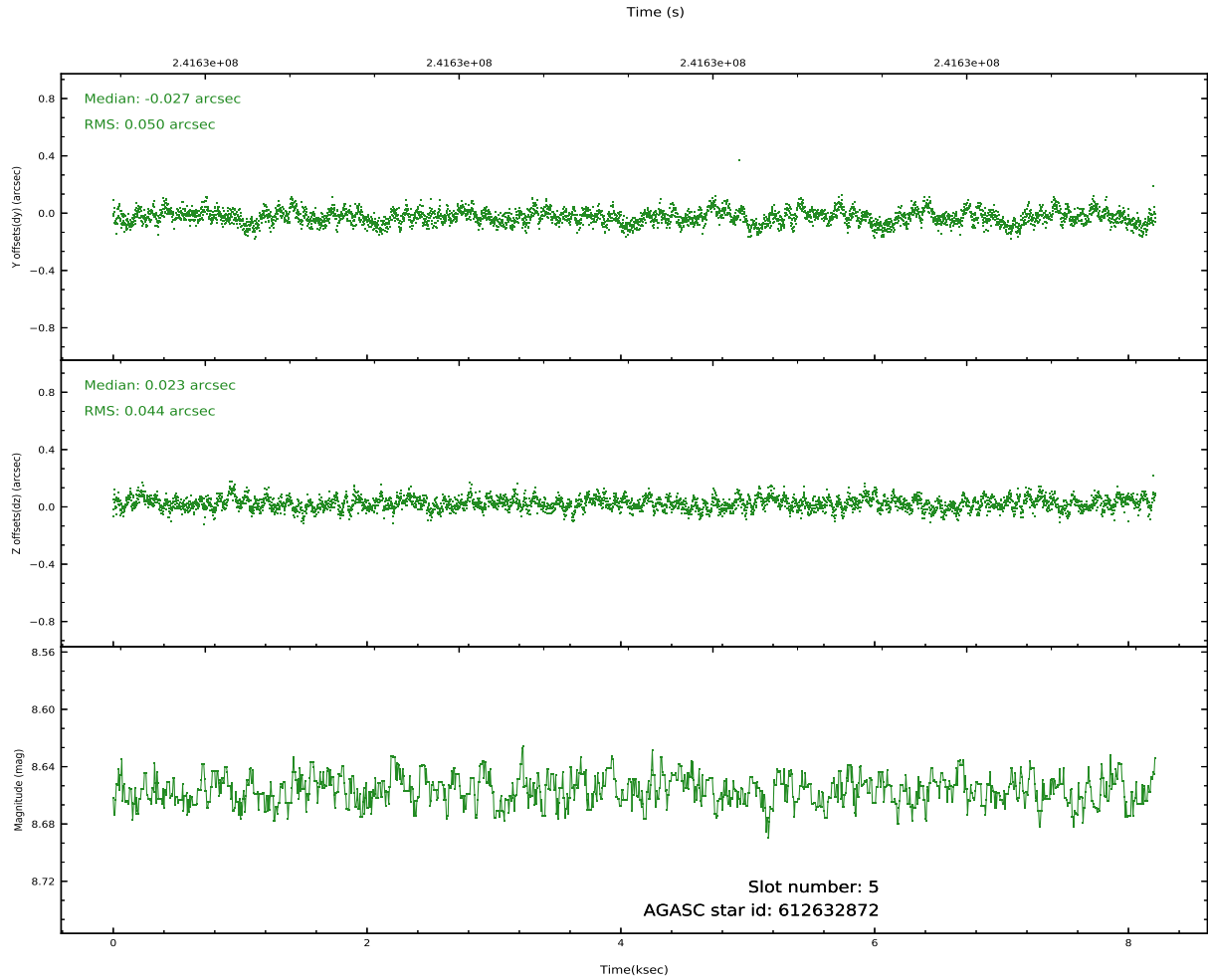
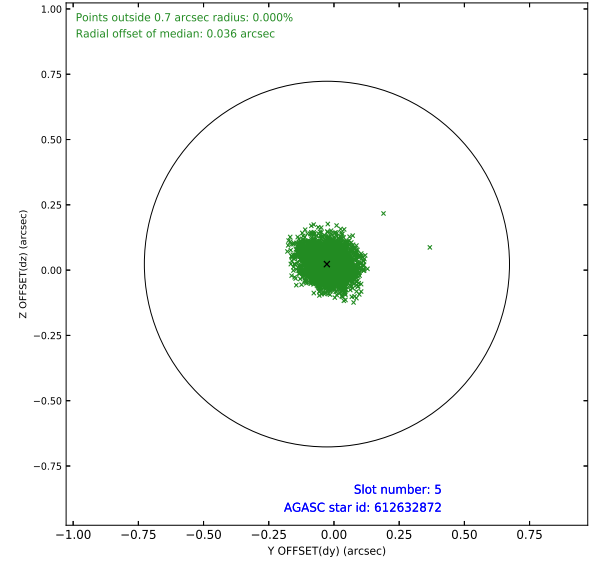
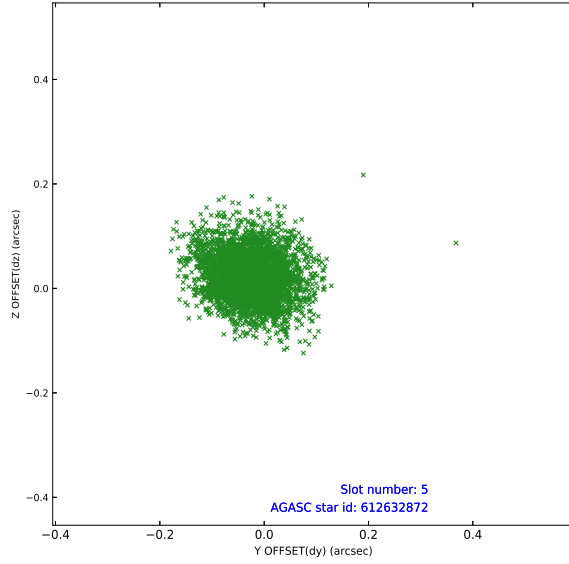
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	2004	1.000	-0.060	-0.076	0.007	0.011	0.000000	0.000000	-760.16	-1730
1	FID		ACIS-S-4	7.21	2004	1.000	0.144	0.049	0.005	0.010	0.000000	0.000000	2152.96	177
2	FID		ACIS-S-5	7.23	2004	1.000	-0.115	0.036	0.007	0.011	0.000000	0.000000	-1812.24	171
3	GUIDE	used	612630664	8.86	4004	1.000	0.065	-0.025	0.062	0.100	12.819163	-0.535703	183.67	-1018
4	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
5	GUIDE	used	612632872	8.66	4005	1.000	-0.027	0.023	0.069	0.118	12.666370	-0.080556	1908.60	-920
6	GUIDE	used	612633056	9.39	4003	1.000	-0.068	0.060	0.094	0.152	13.071720	-0.364507	538.65	-2058
7	GUIDE	used	612633288	8.51	4003	1.000	0.033	-0.056	0.060	0.096	12.908194	-0.488403	263.35	-1373

2.4 Star Slots

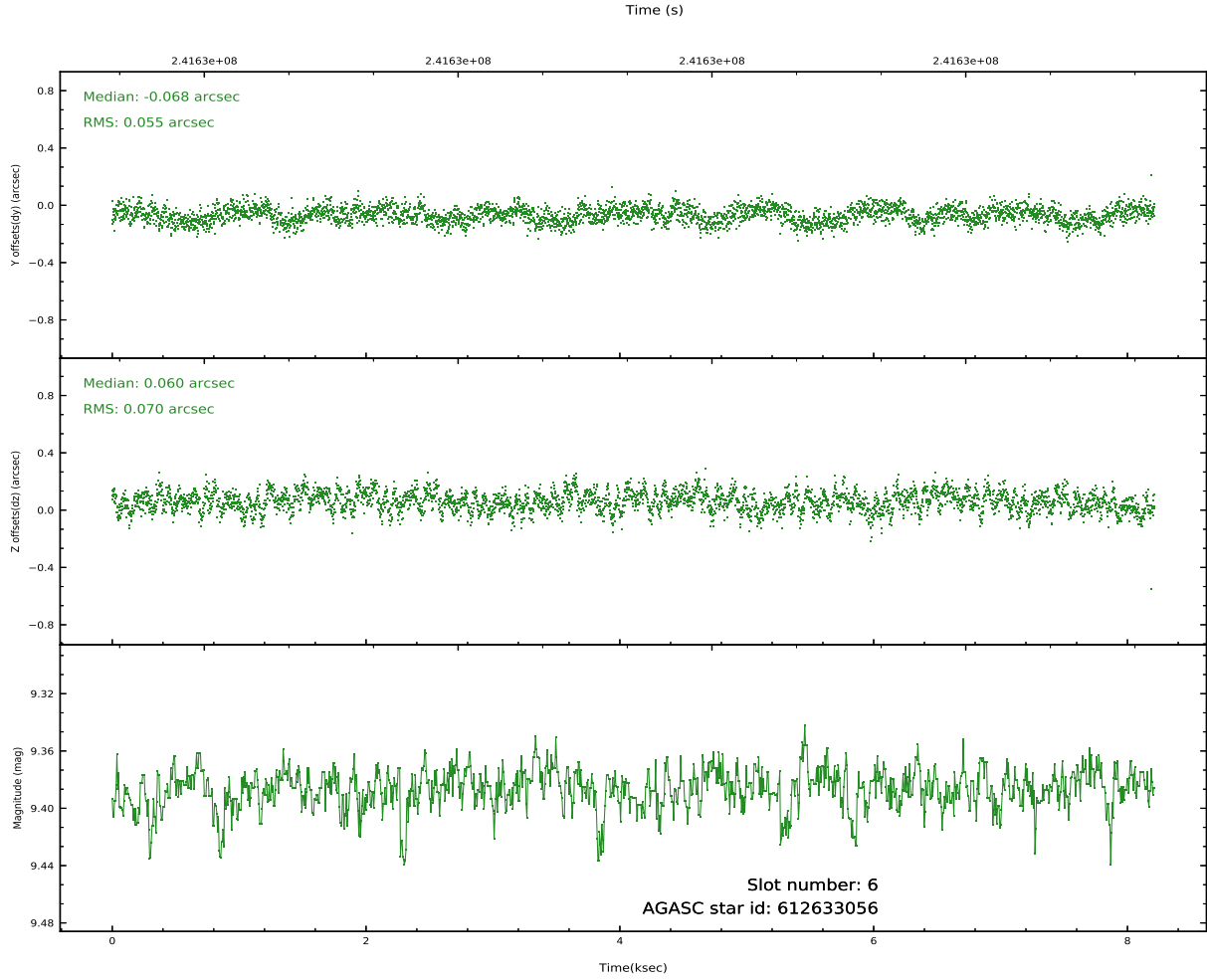
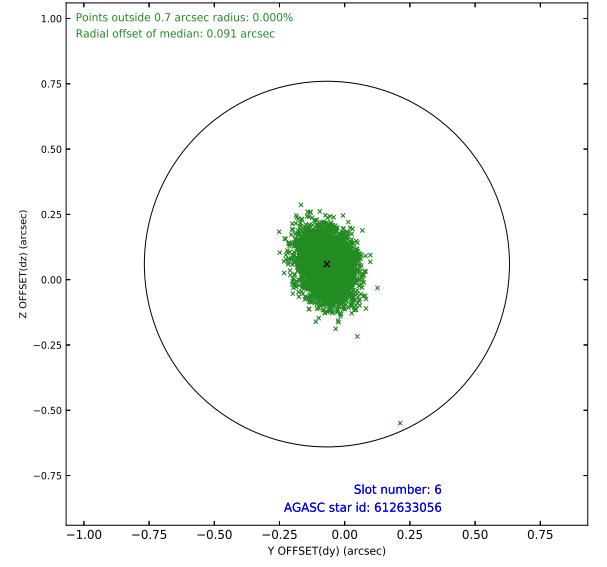
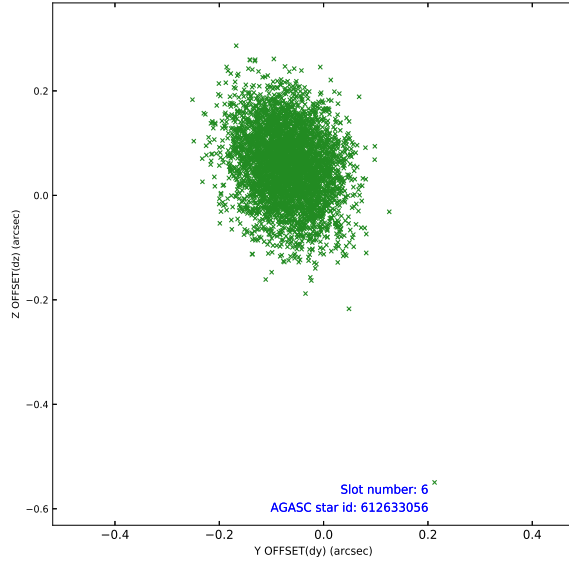
2.4.1 Slot 3



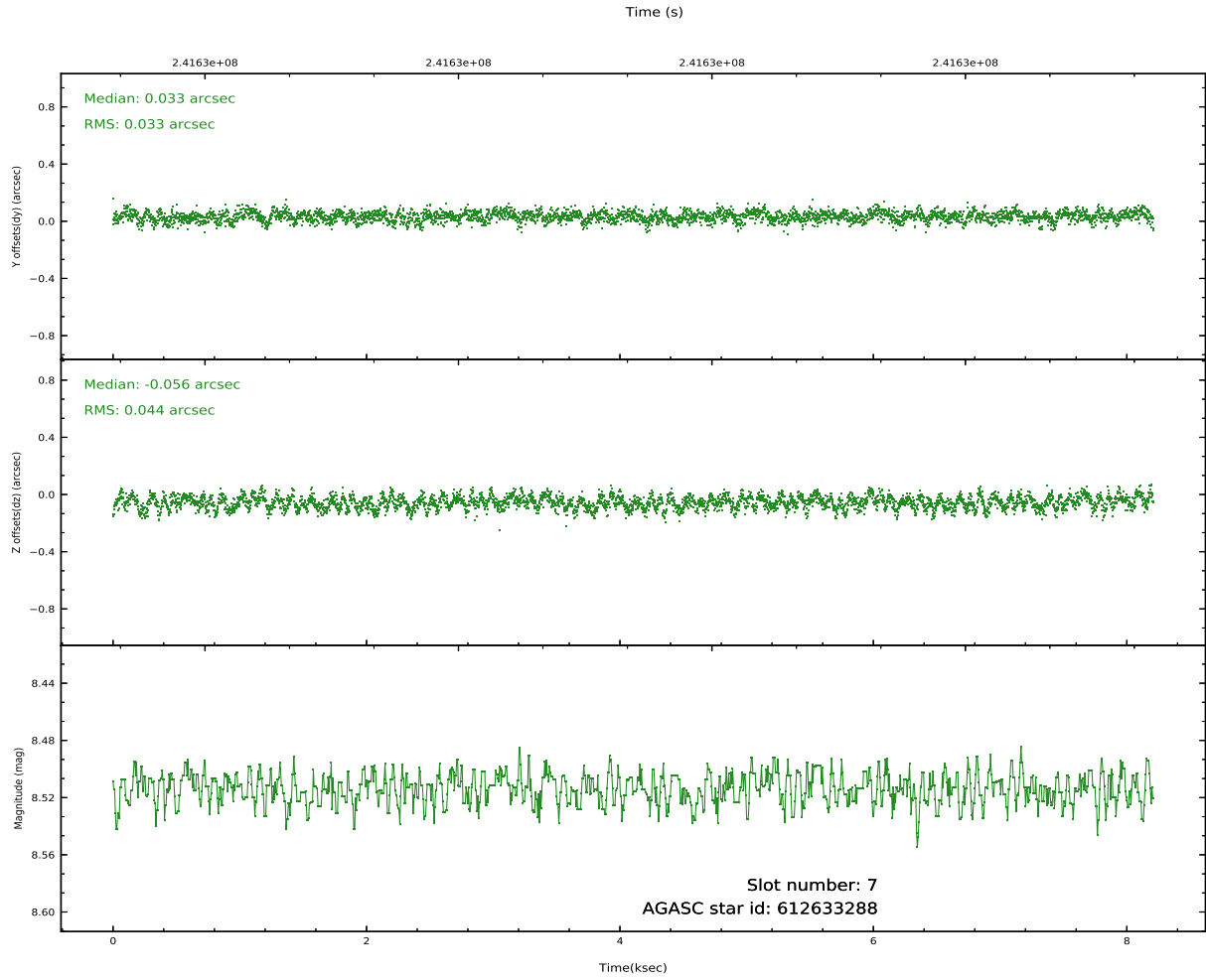
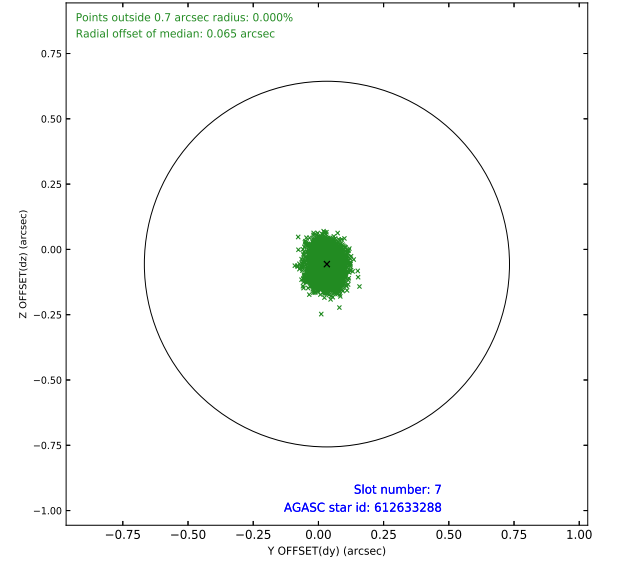
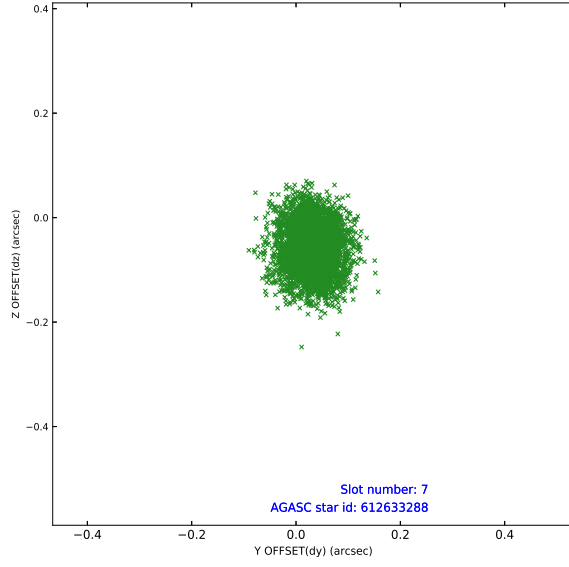
2.4.2 Slot 5



2.4.3 Slot 6

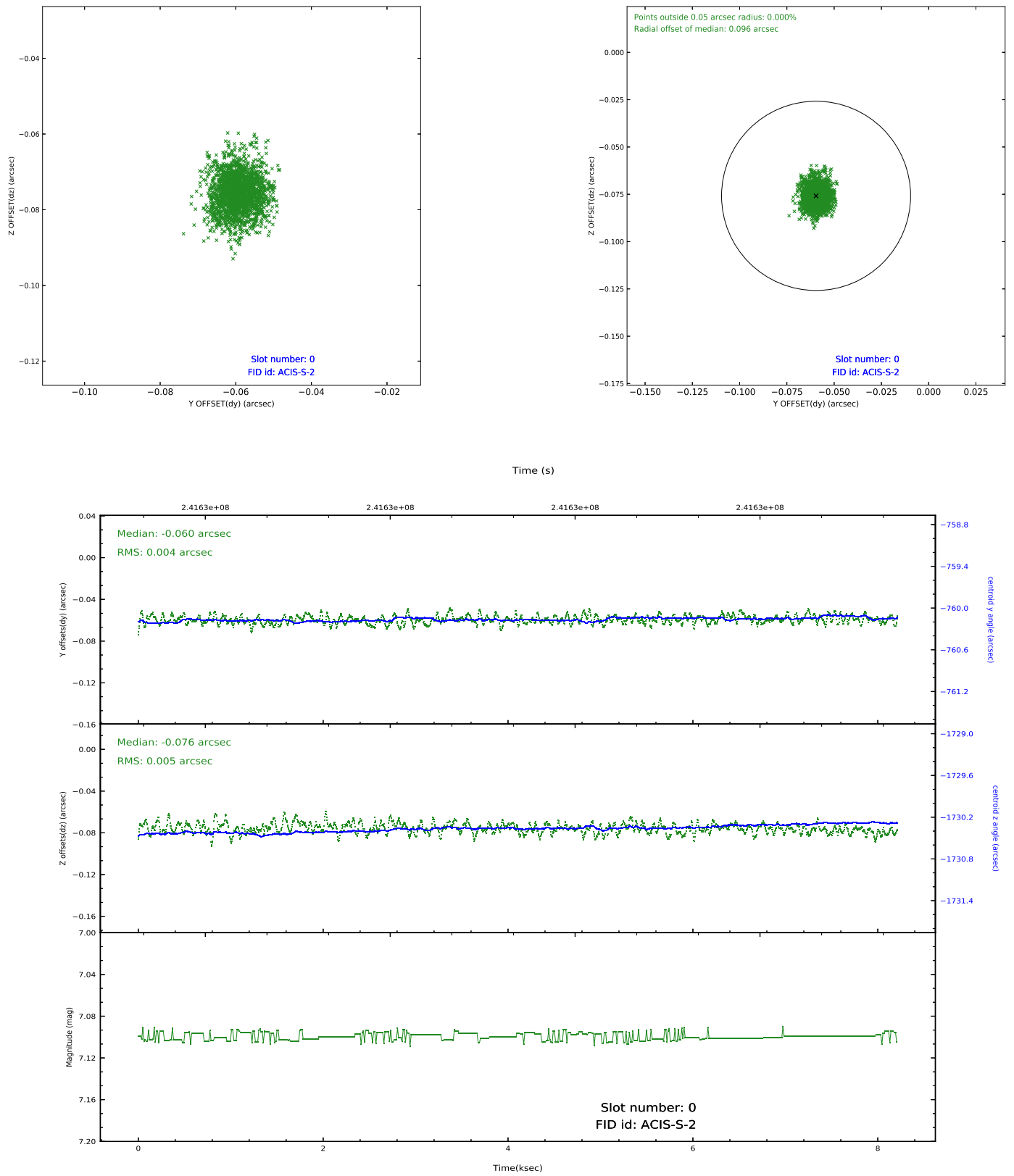


2.4.4 Slot 7

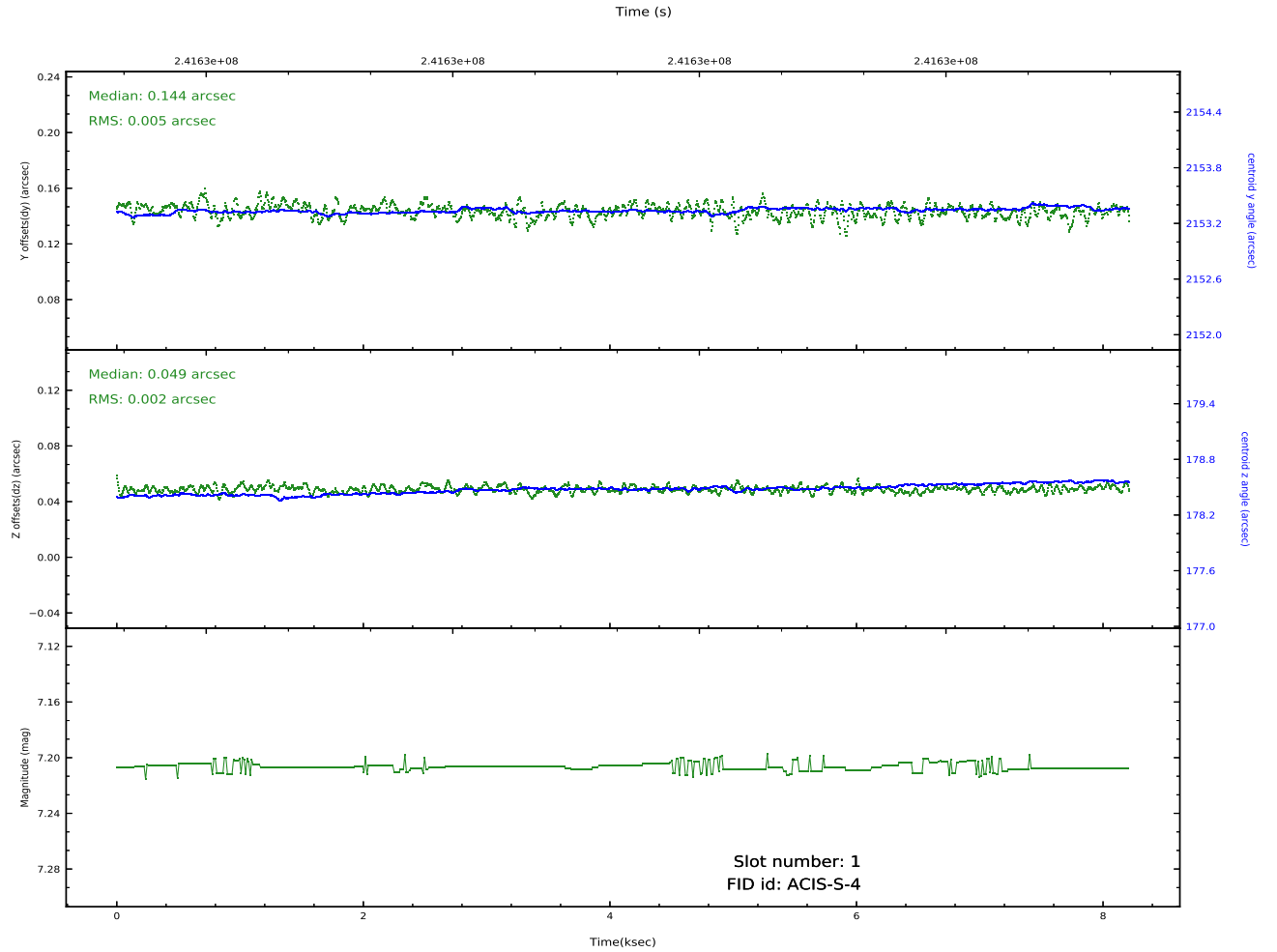
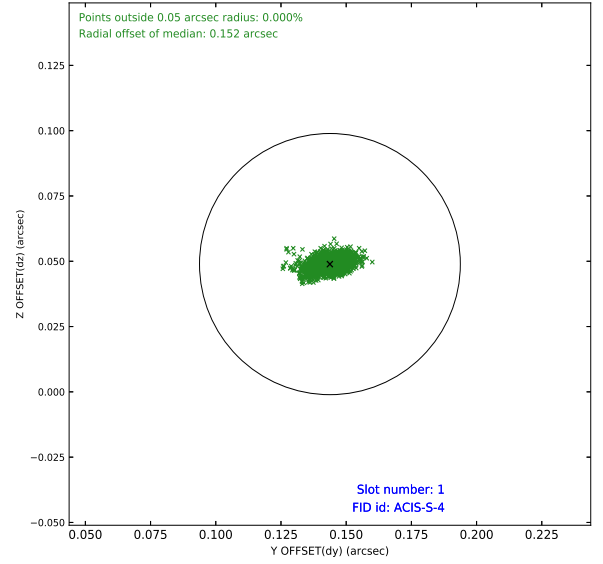
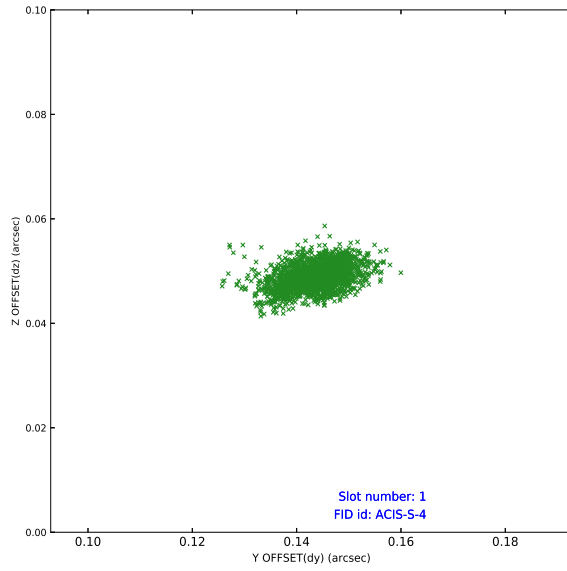


2.5 FID Slots

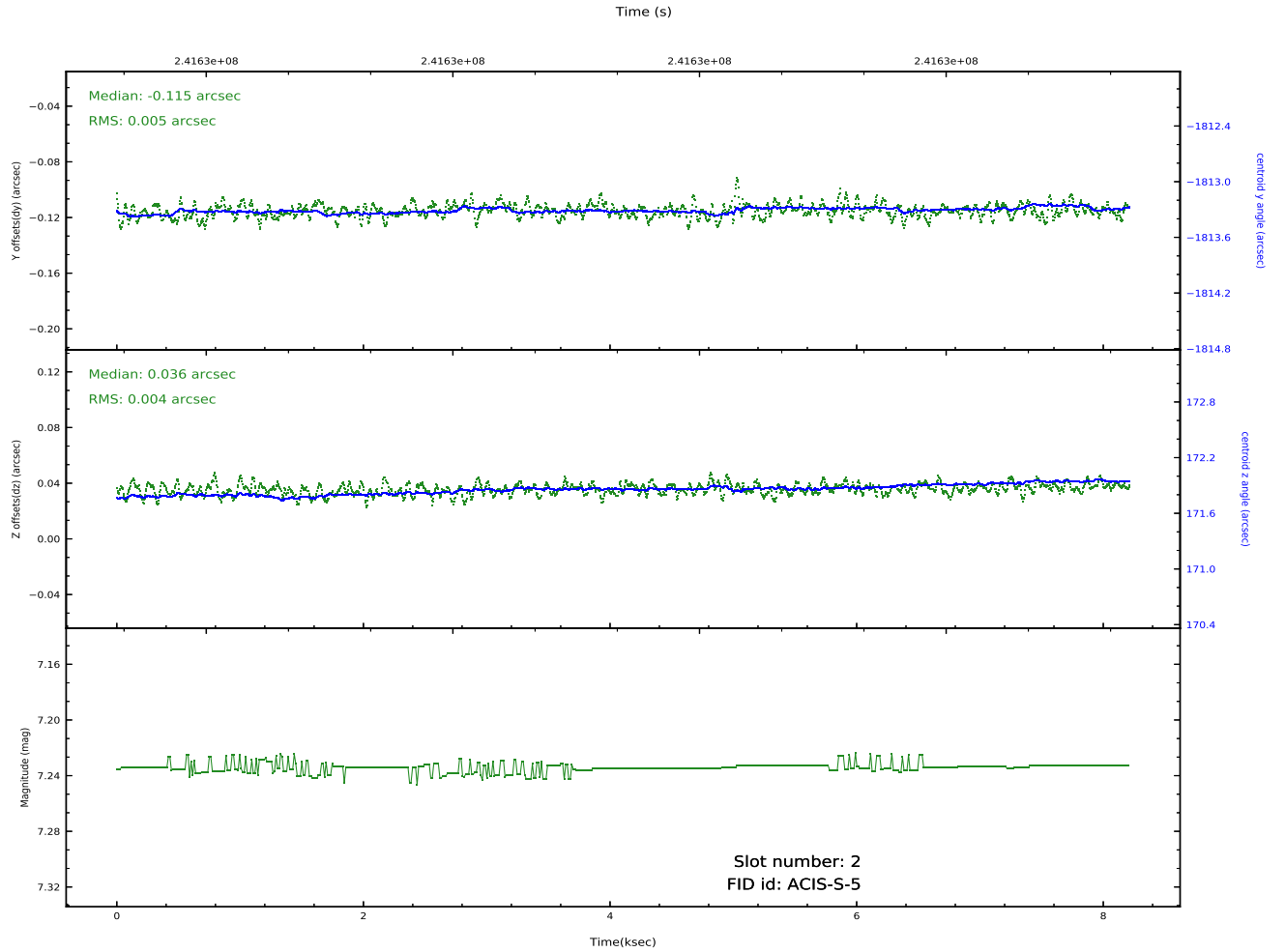
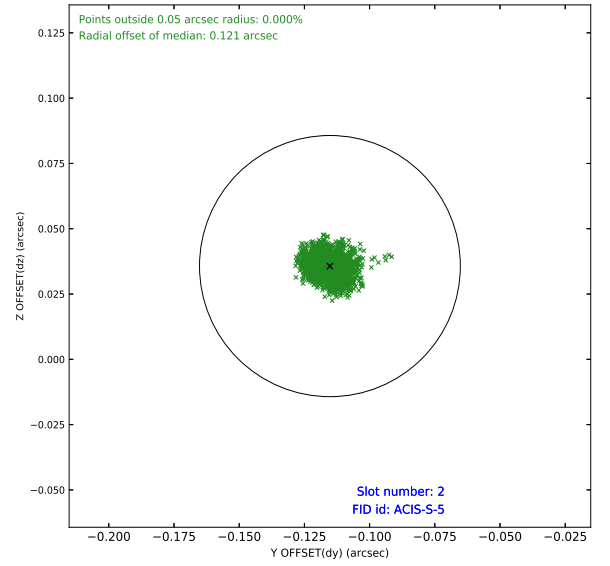
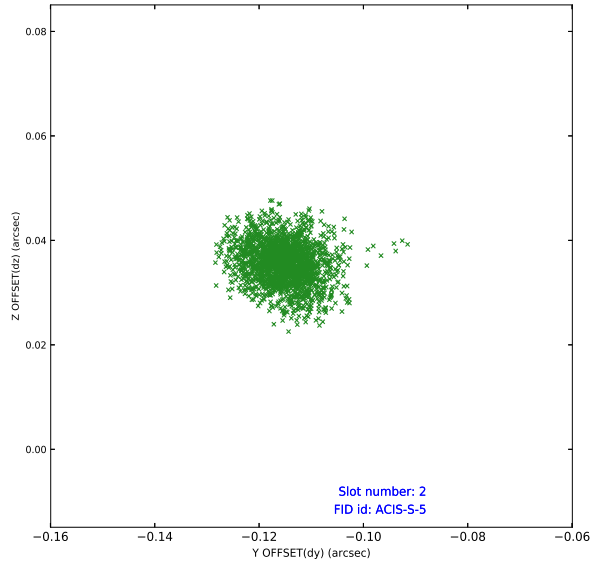
2.5.1 Slot 0



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)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.955199

A.2 Comments

The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.