

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4603 - L2 Version 4
Chandra X-Ray Center

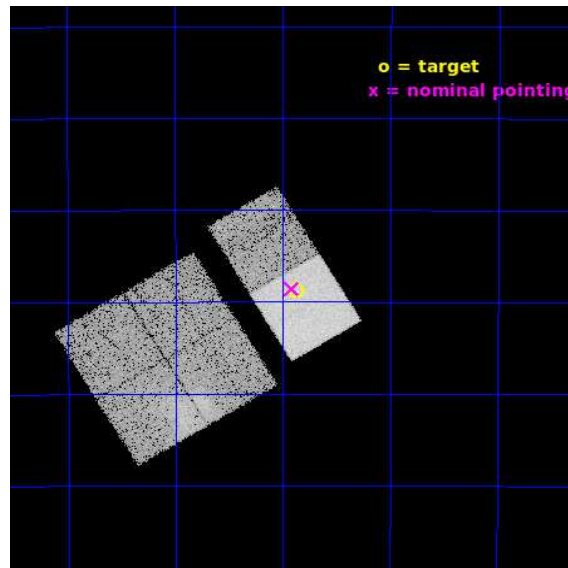
L2 Processing Date : Sep 25 2020

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1 Front

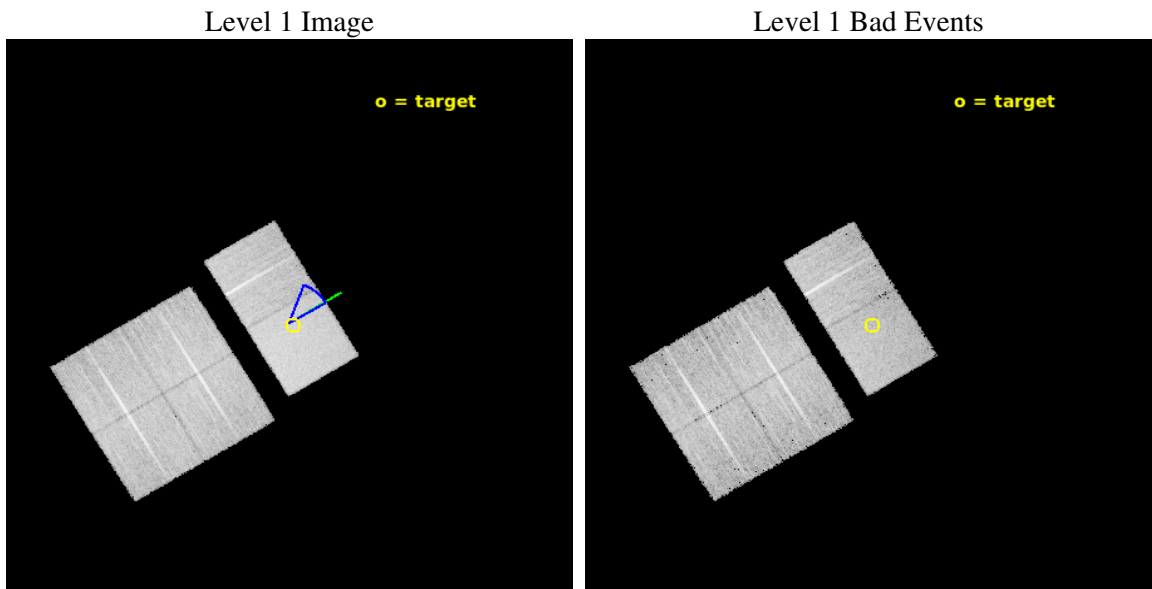
seq_num	500428	Sequence number
obs_id	4603	Observation id
title	Snapshot Observation of two Recently Discovered Radio Pulsars	Prop
observer	Gordon Garmire	Principal investigator
object	PSR J1702-4128	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	255.71875	Observer's specified target RA [deg]
dec_targ	-41.480056	Observer's specified target Dec [deg]
ra_nom	255.72906127389	Nominal RA [deg]
dec_nom	-41.476052767755	Nominal Dec [deg]
roll_nom	58.898545933683	Nominal Roll [deg]
revision	4	Processing version of data
ontime	10517.260470778	Sum of GTIs [s]
livetime	10384.084585963	Livetime [s]
ontime0	10517.301510781	Sum of GTIs [s]
ontime1	10517.096310794	Sum of GTIs [s]
ontime2	10517.137350768	Sum of GTIs [s]
ontime3	10517.178390771	Sum of GTIs [s]
ontime6	10517.219430774	Sum of GTIs [s]
ontime7	10517.260470778	Sum of GTIs [s]
l2events	98700	Number of level 2 events



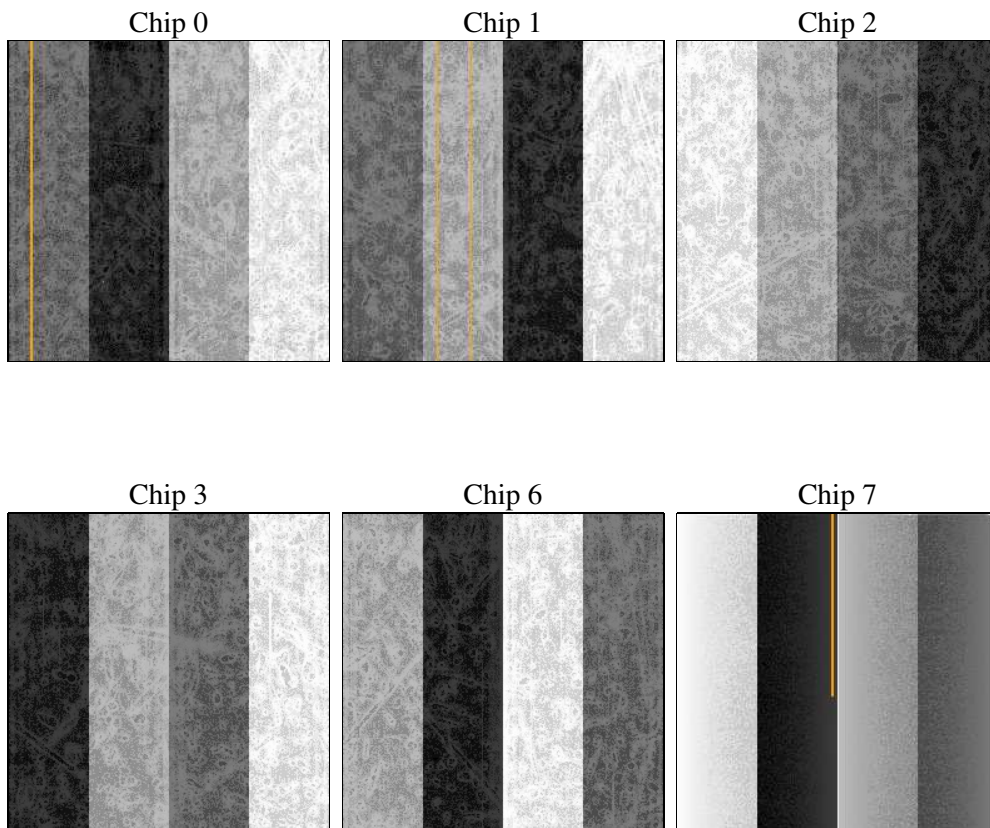
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10520.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	10517.260470778	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	10517.301510781	Sum of GTIs [s]
date	2020-09-25T18:22:20	Date and time of file creation	ontime1	10517.096310794	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	10517.137350768	Sum of GTIs [s]
			ontime3	10517.178390771	Sum of GTIs [s]
			ontime6	10517.219430774	Sum of GTIs [s]
			ontime7	10517.260470778	Sum of GTIs [s]
			l1events	488778	Number of level 1 events

2.1.4 Events

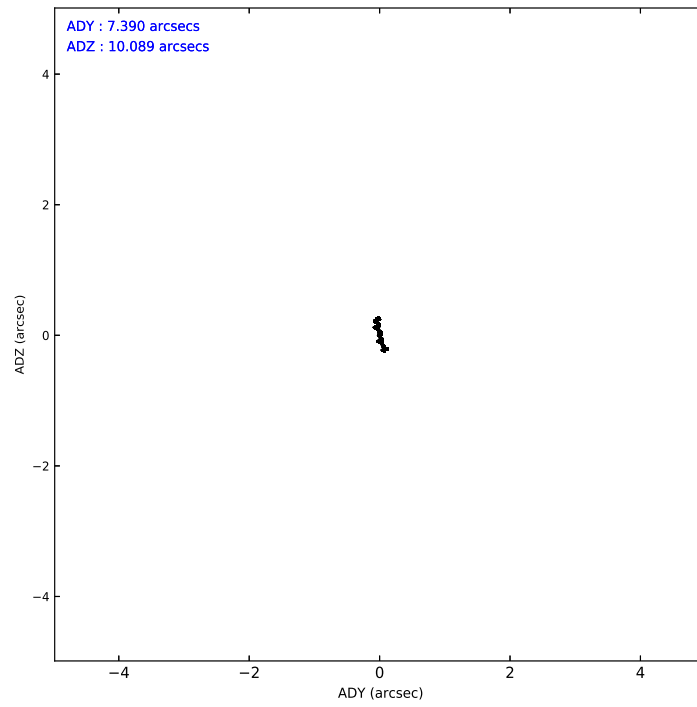
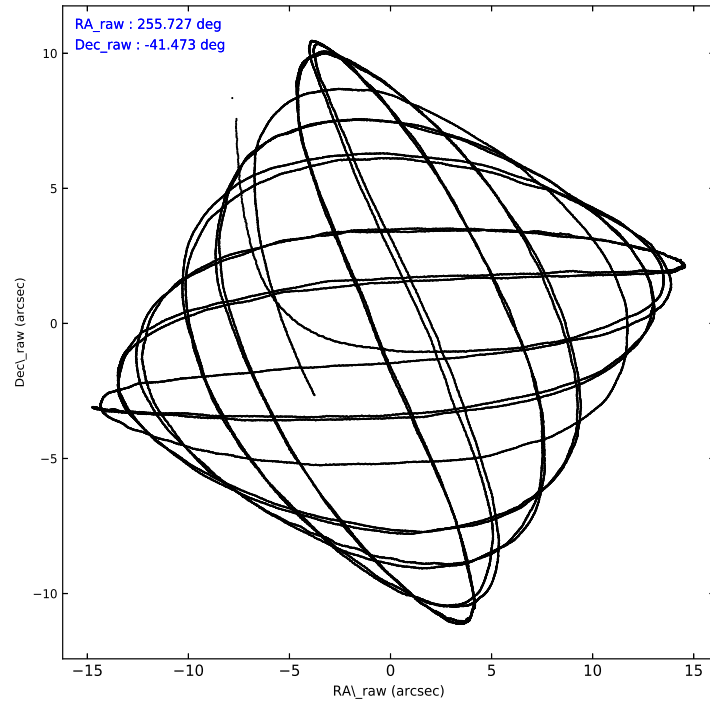
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	73763	74733	78636	76347	79426	105873	grade 0 events	5457	8403	5523	6798	5267	4227
rejected events	62688	59302	67642	63853	68216	59941		7%	11%	7%	8%	6%	3%
rejected %	84%	79%	86%	83%	85%	56%	grade 1 events	48	54	47	60	45	110
								0%	0%	0%	0%	0%	0%
							grade 2 events	2079	2754	1975	2064	2169	8928
								2%	3%	2%	2%	2%	8%
							grade 3 events	925	1107	1005	978	964	4085
								1%	1%	1%	1%	1%	3%
							grade 4 events	903	1146	922	975	899	3914
								1%	1%	1%	1%	1%	3%
							grade 5 events	3093	3302	3043	3265	3556	9959
								4%	4%	3%	4%	4%	9%
							grade 6 events	1713	2034	1580	1683	1920	24821
								2%	2%	2%	2%	2%	23%
							grade 7 events	59545	55933	64541	60524	64606	49829
								80%	74%	82%	79%	81%	47%

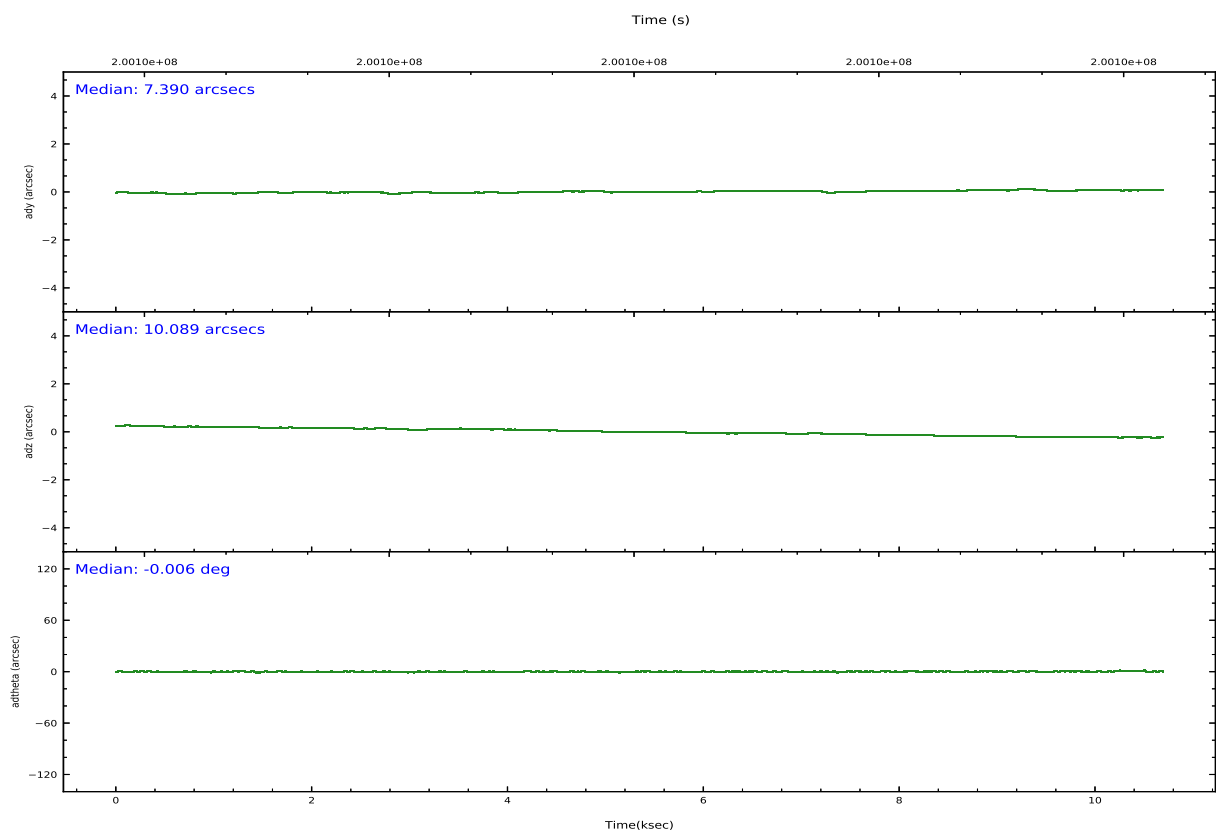
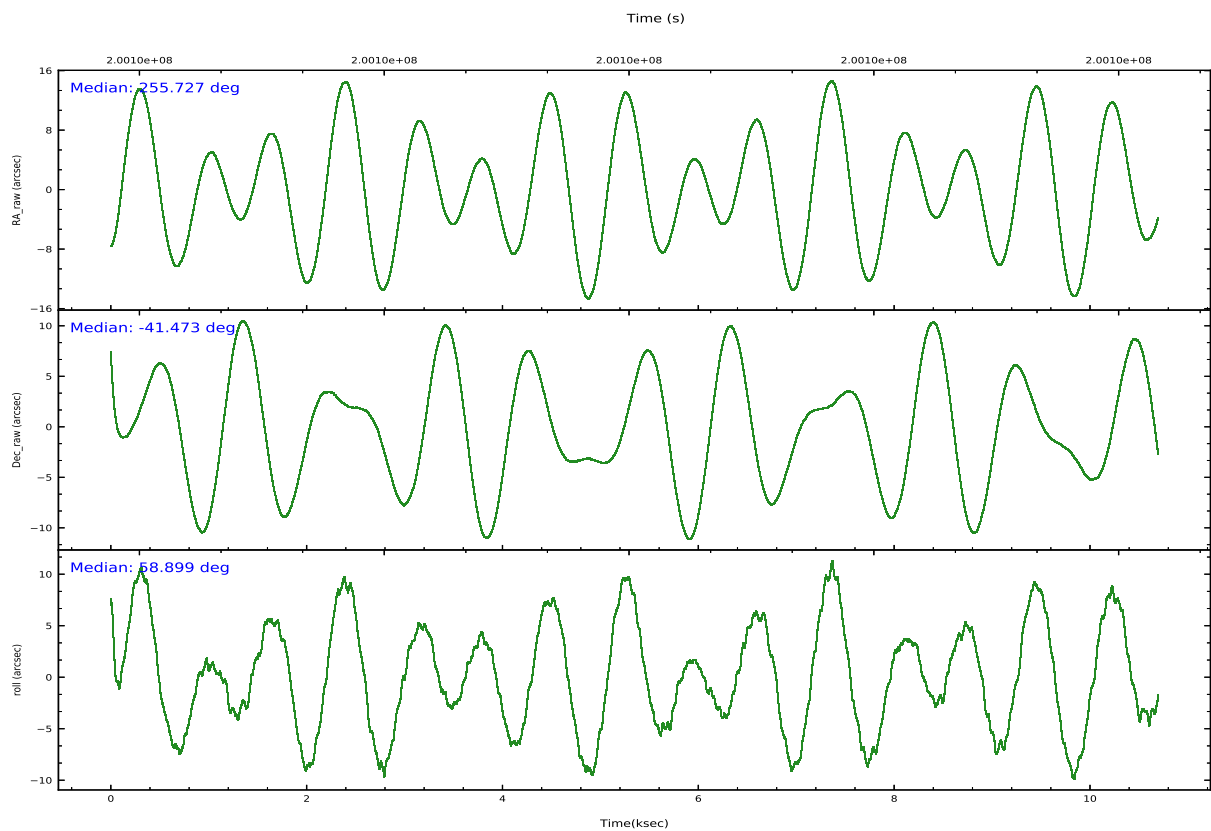
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	255.727054	255.72906127389
[deg] Pointing Dec	-41.500007	-41.476052767755
[deg] Pointing Roll	58.745020	58.898545933683
[deg] Roll angle	40.000000	40.000000
[deg] Roll tolerance	20.000000	20.000000
Roll constraint allows 180D rotation	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	200094883.184000	200093771.83336
Observation start date	2004-05-04T21:53:39	2004-05-04T21:36:11
[s] Observation end time (MET)	200105403.184000	200106641.22142
Observation end date	2004-05-05T00:48:59	2004-05-05T01:10:41
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

2.3 Aspect



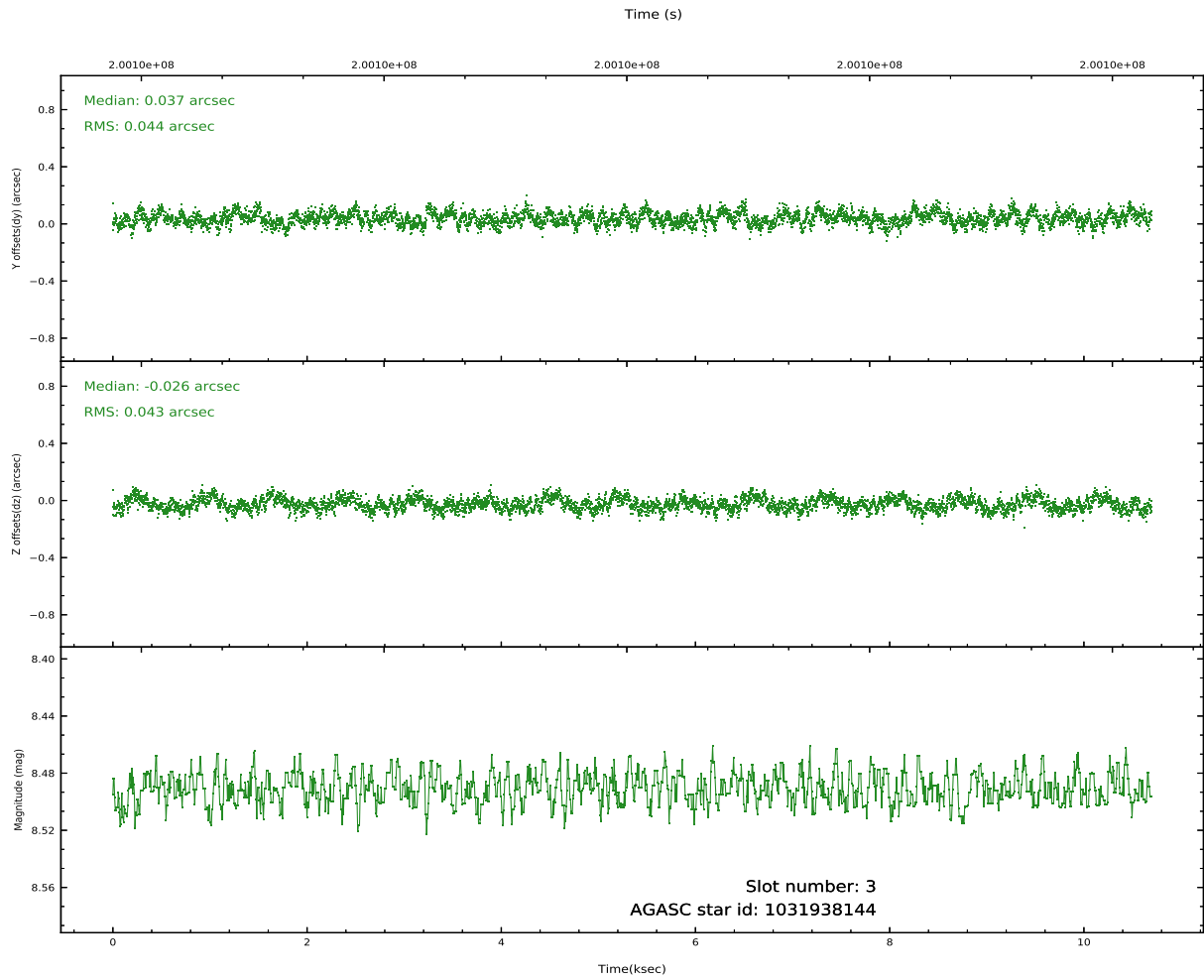
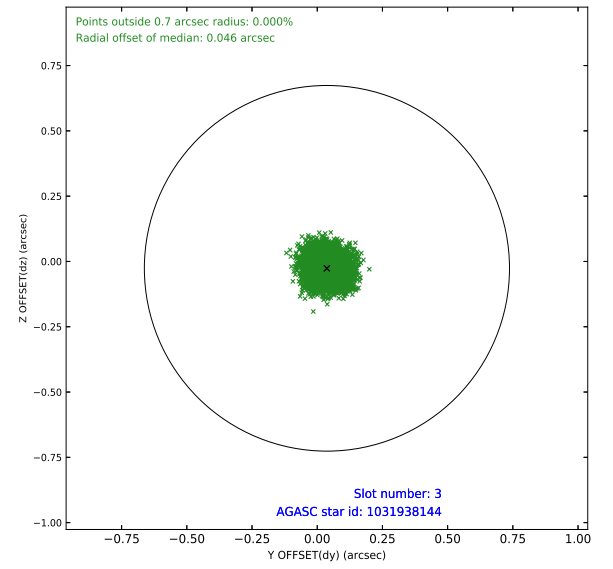
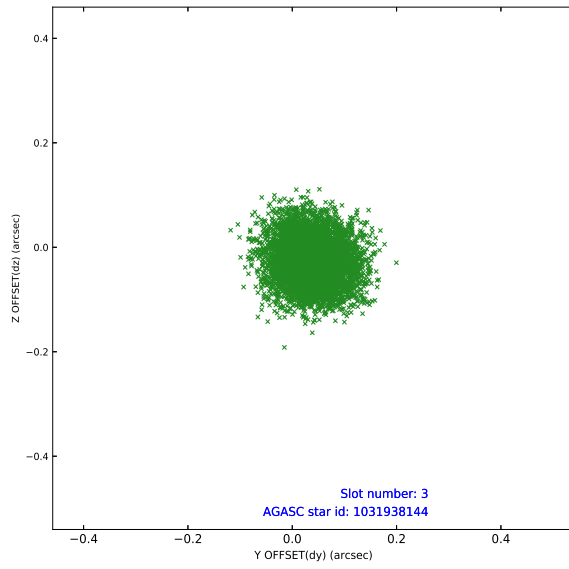


Slot Statistics

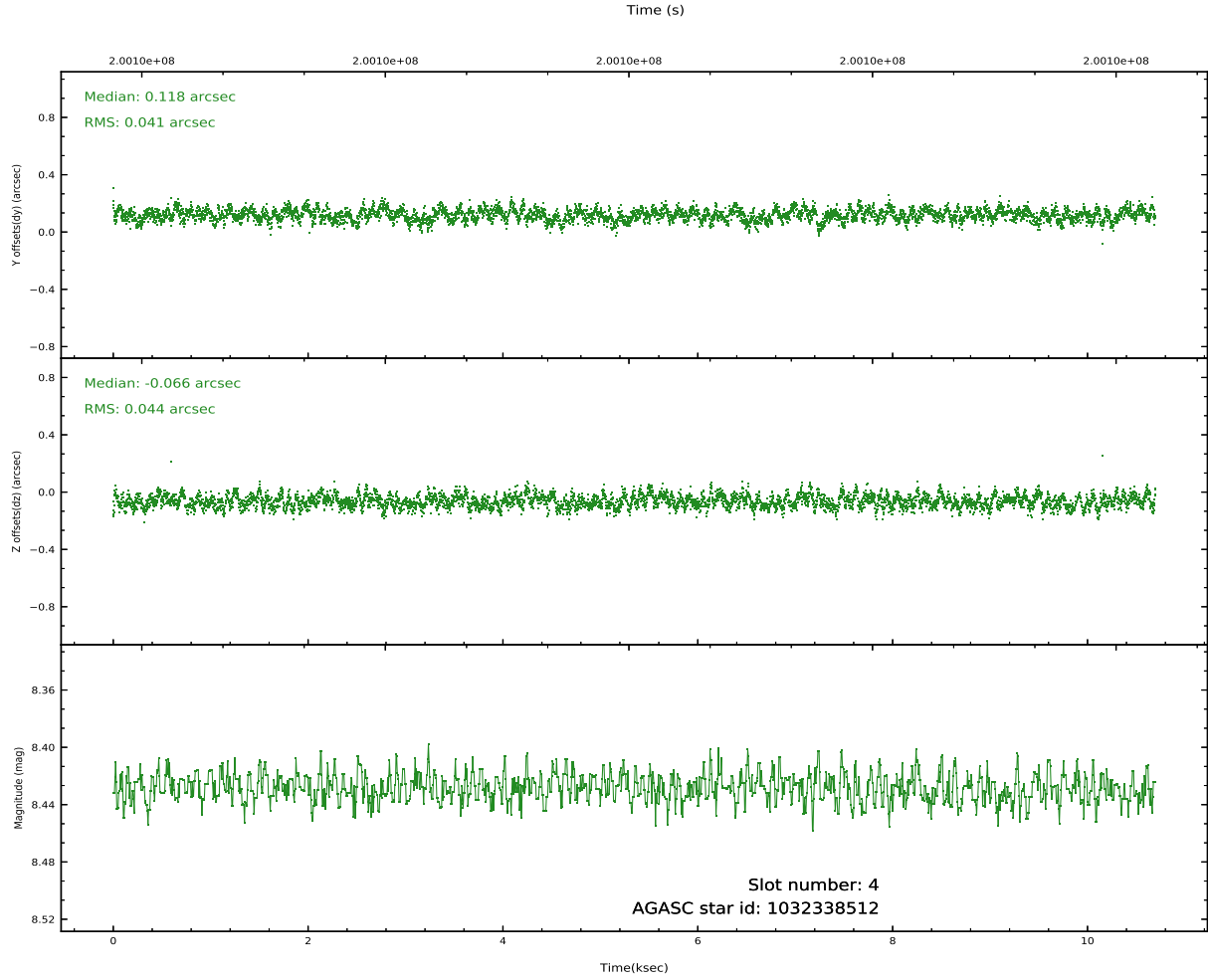
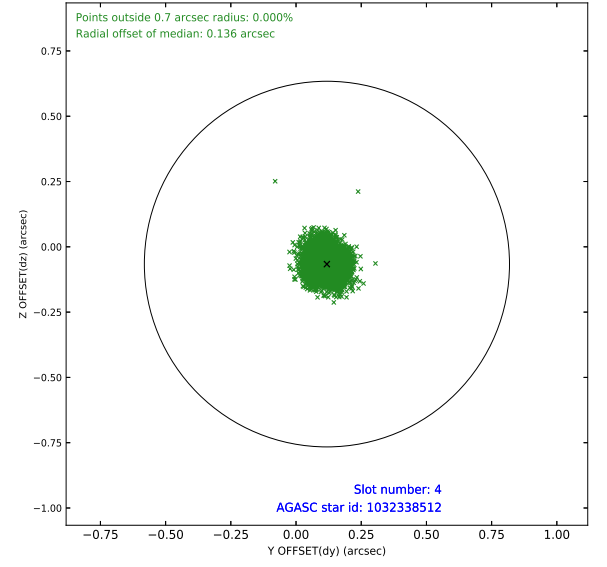
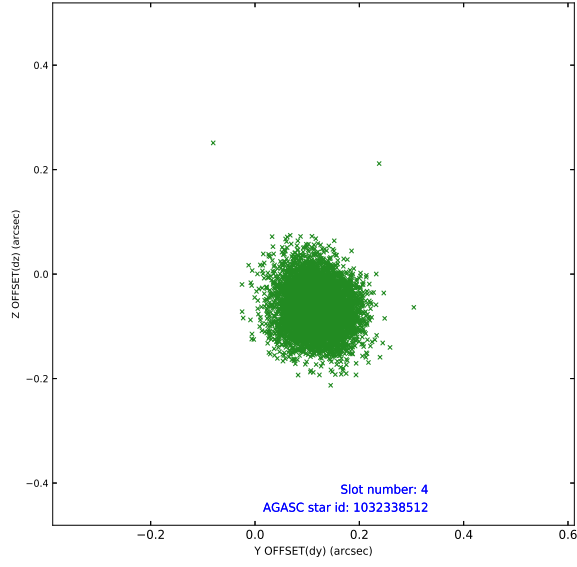
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	2610	1.000	-0.073	-0.053	0.008	0.012	0.000000	0.000000	-760.16	-1731
1	FID		ACIS-S-4	7.20	2609	1.000	0.140	0.050	0.005	0.010	0.000000	0.000000	2153.03	176
2	FID		ACIS-S-5	7.23	2610	1.000	-0.097	0.012	0.008	0.014	0.000000	0.000000	-1812.48	170
3	GUIDE	used	1031938144	8.49	5217	1.000	0.037	-0.026	0.067	0.105	255.693343	-40.912652	1759.91	1175
4	GUIDE	used	1032338512	8.43	5219	1.000	0.118	-0.066	0.064	0.101	254.833160	-41.405214	-971.22	2233
5	GUIDE	used	1031937520	8.22	5218	1.000	-0.048	0.134	0.057	0.091	256.333720	-41.104608	2065.74	-670
6	GUIDE	used	1032338640	8.78	5217	1.000	0.036	-0.248	0.071	0.122	254.873262	-41.277846	-524.47	2383
7	GUIDE	used	1032461400	8.89	5217	1.000	-0.145	0.205	0.070	0.115	256.843727	-41.417736	1800.98	-2432

2.4 Star Slots

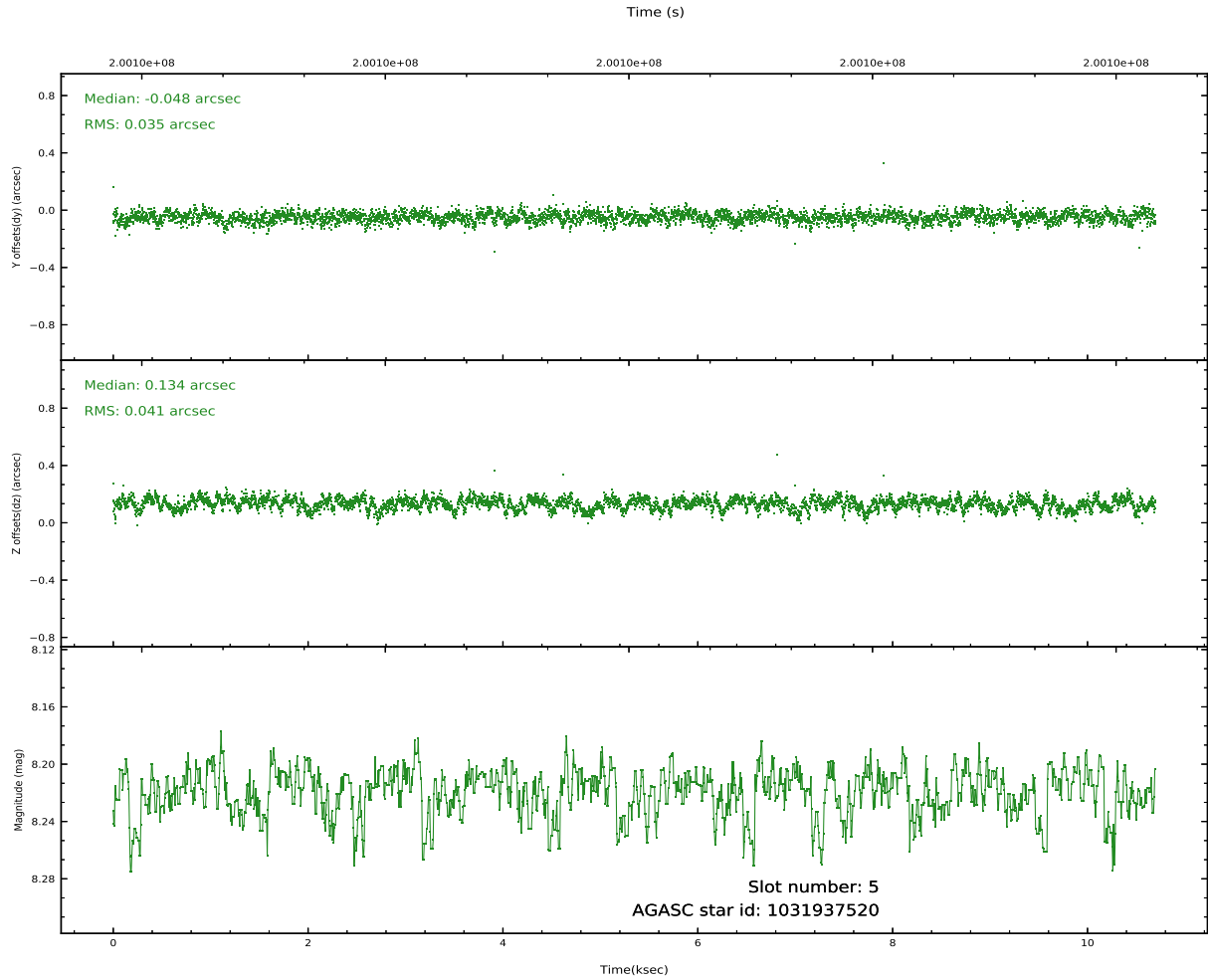
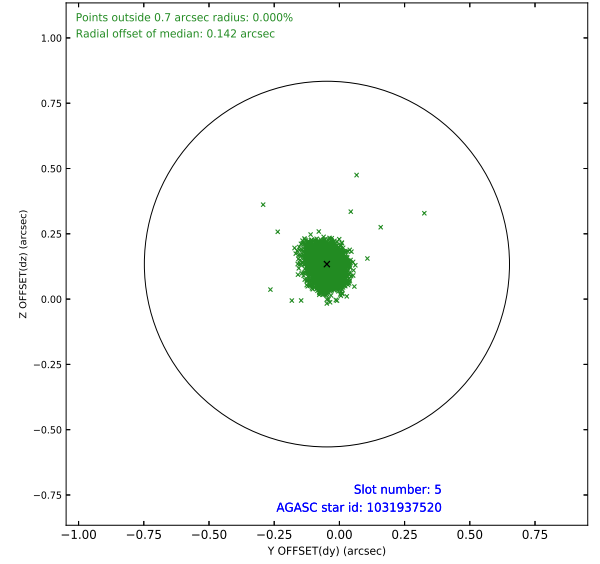
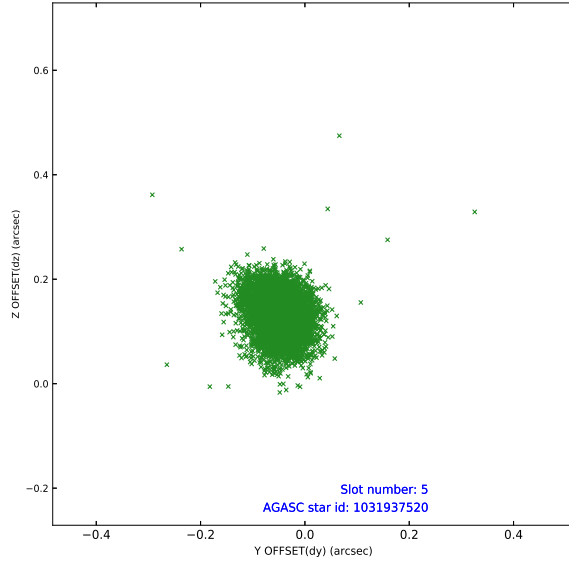
2.4.1 Slot 3



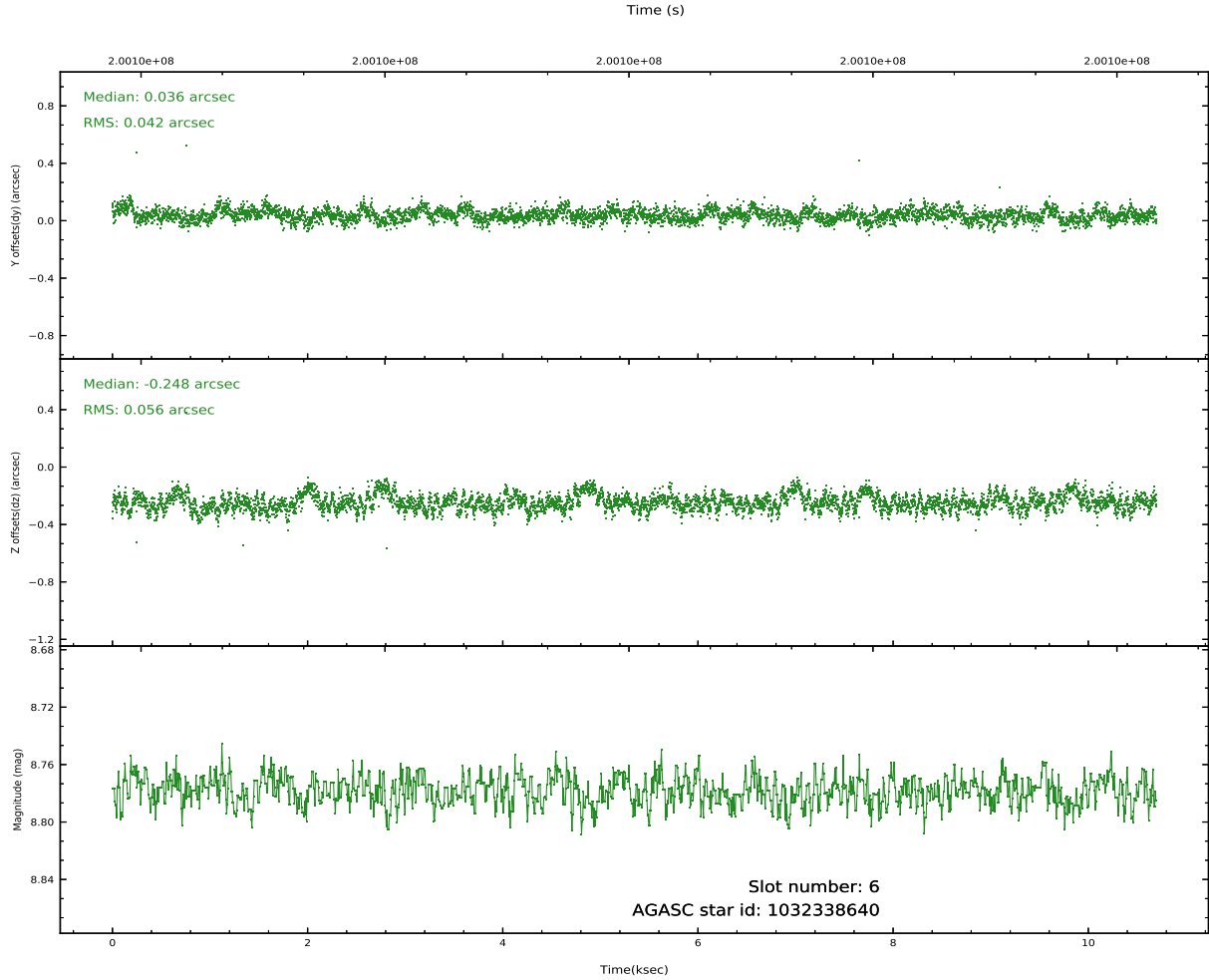
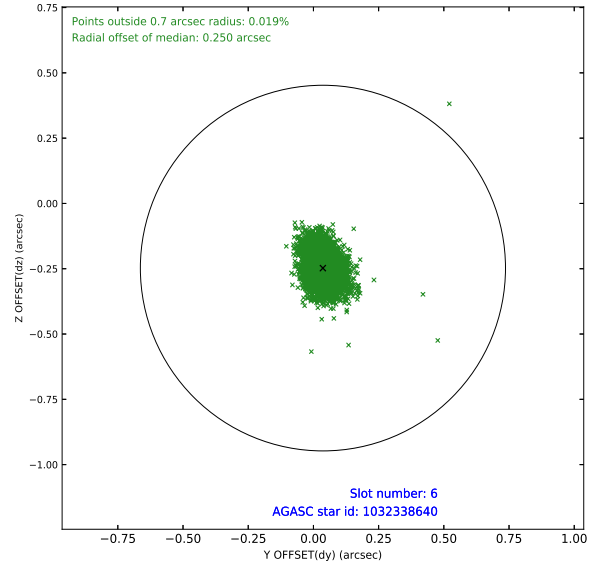
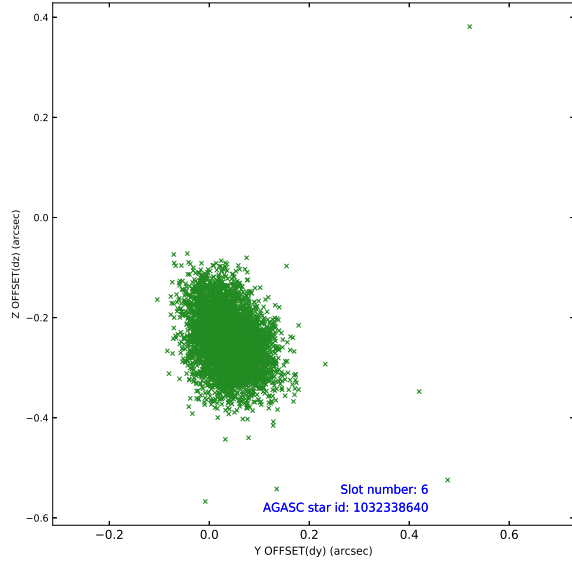
2.4.2 Slot 4



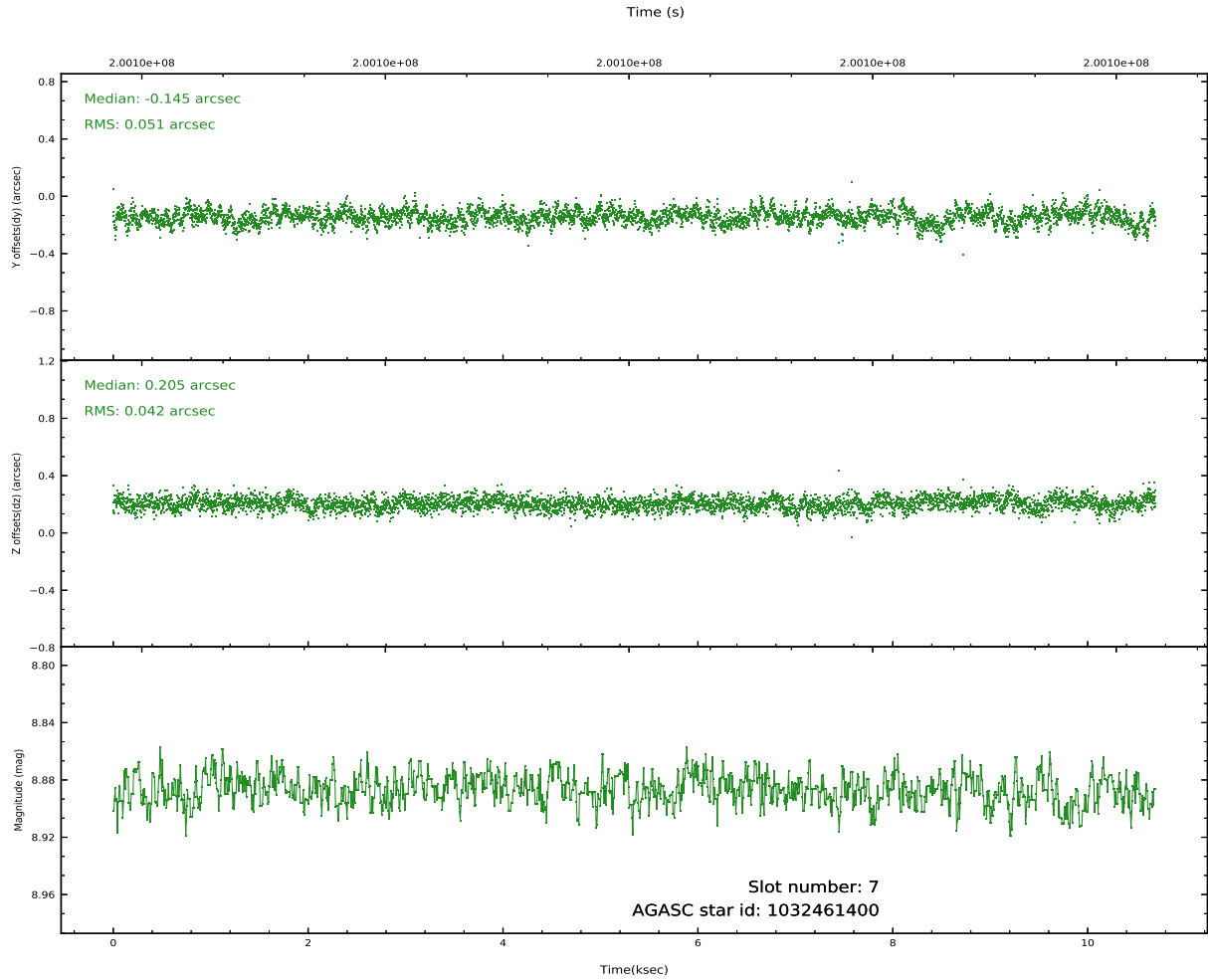
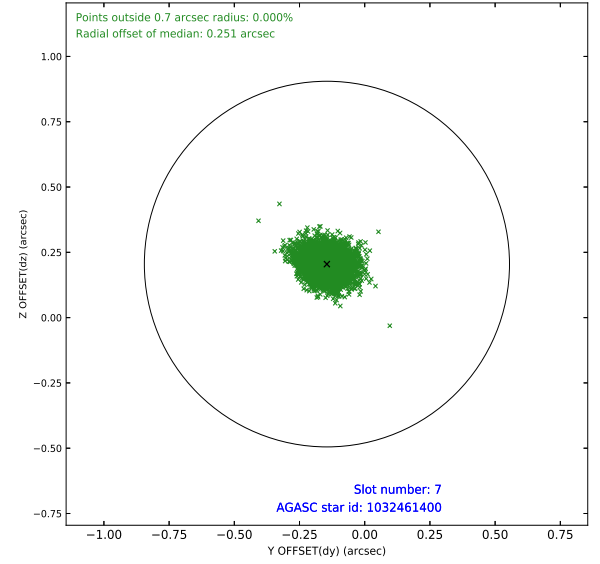
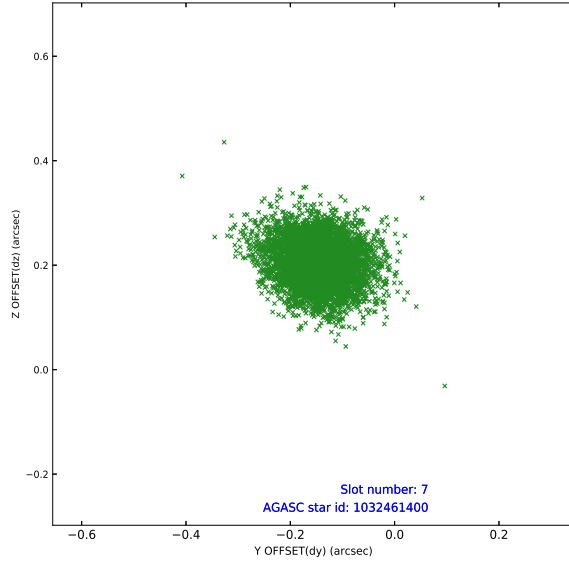
2.4.3 Slot 5



2.4.4 Slot 6

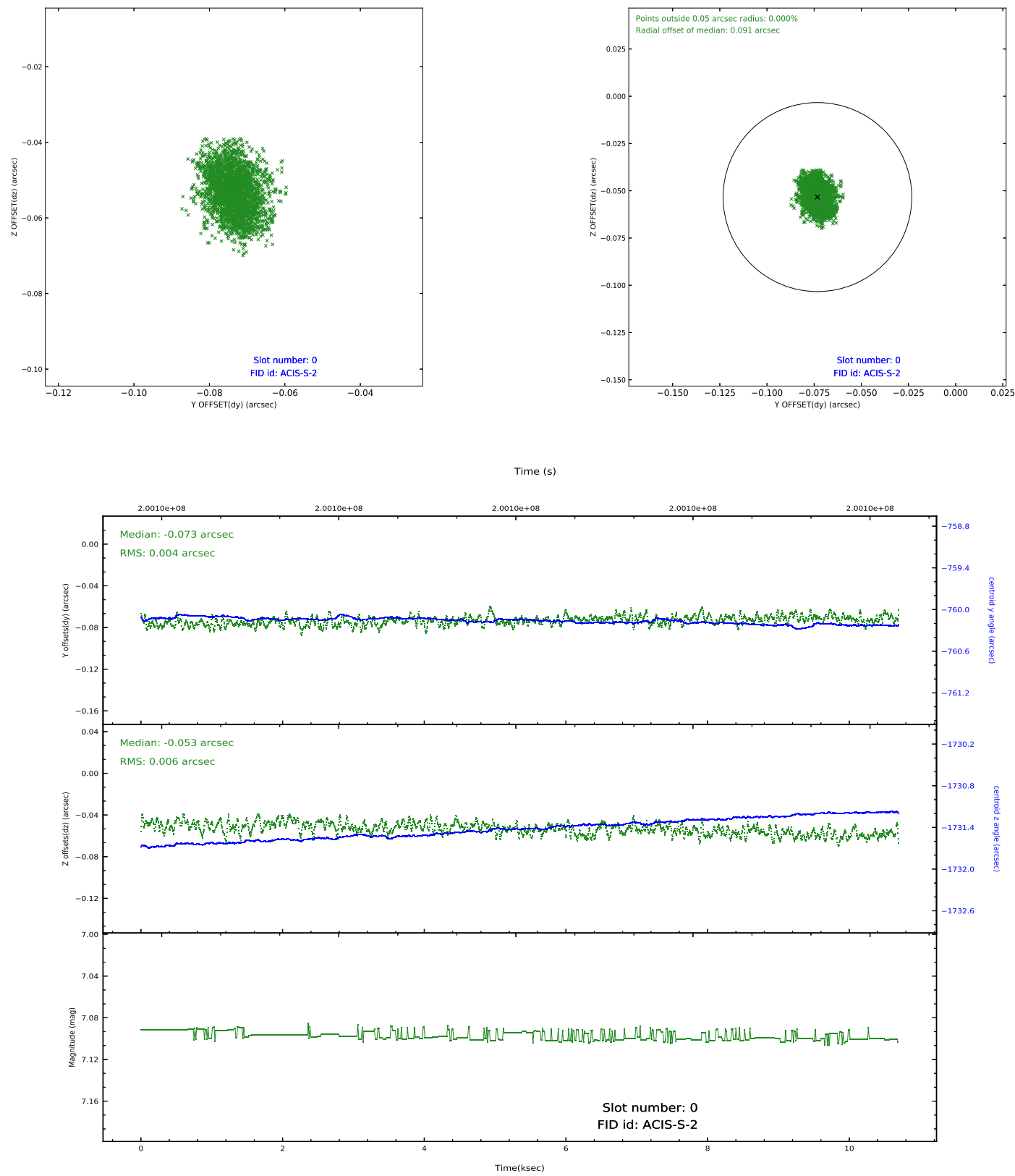


2.4.5 Slot 7

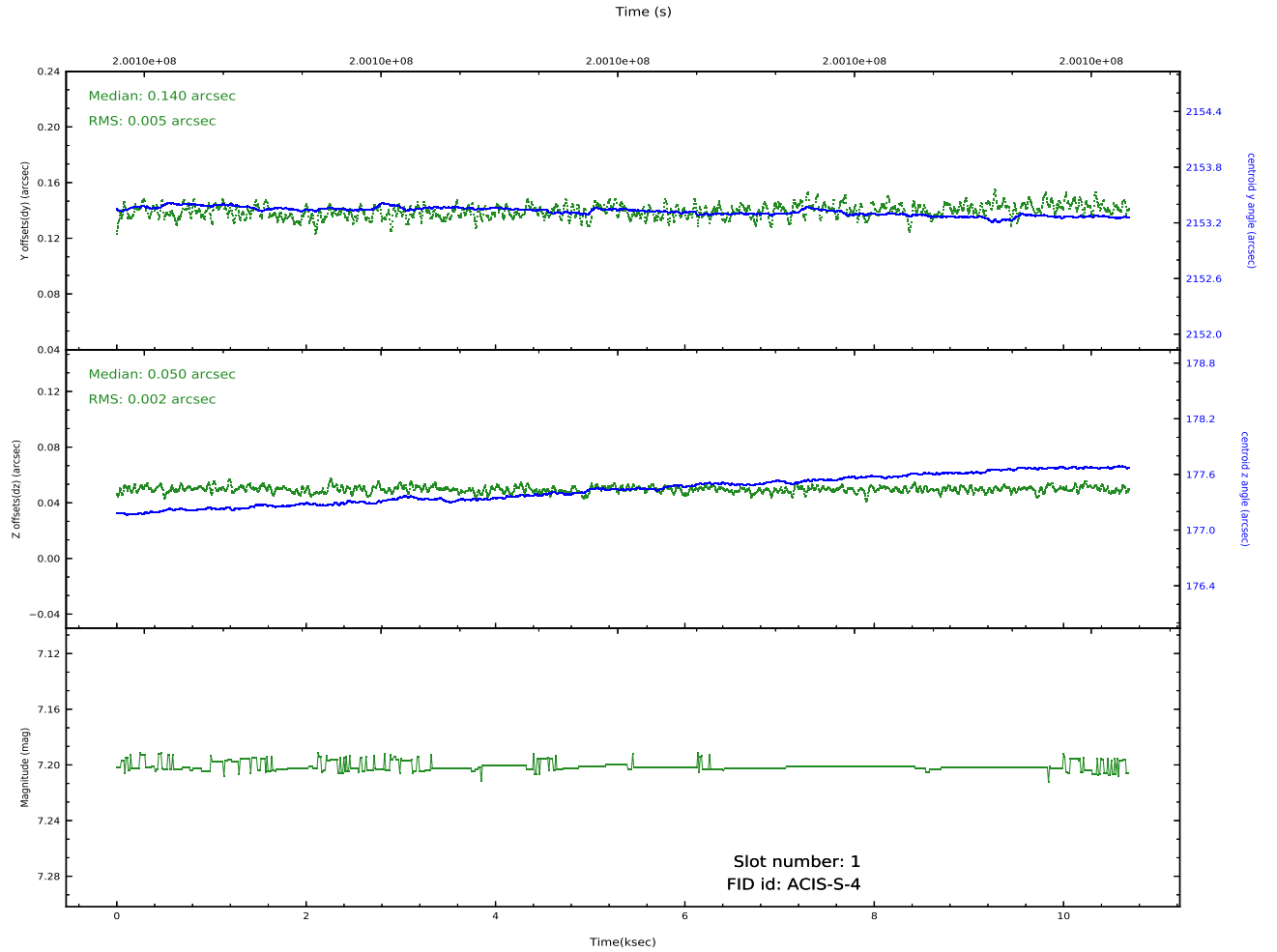
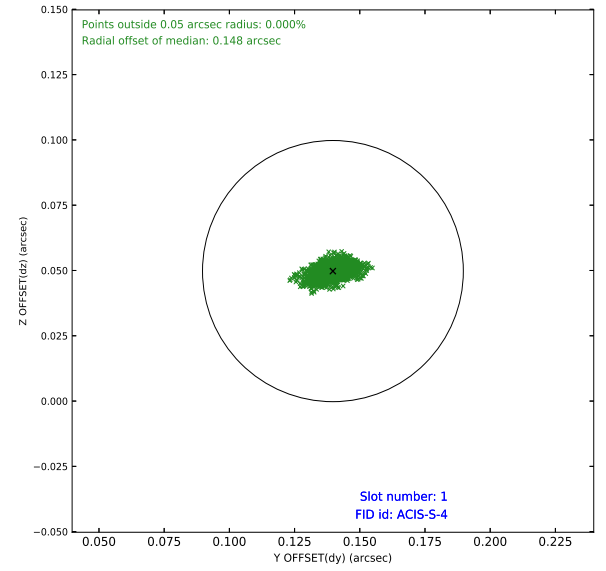
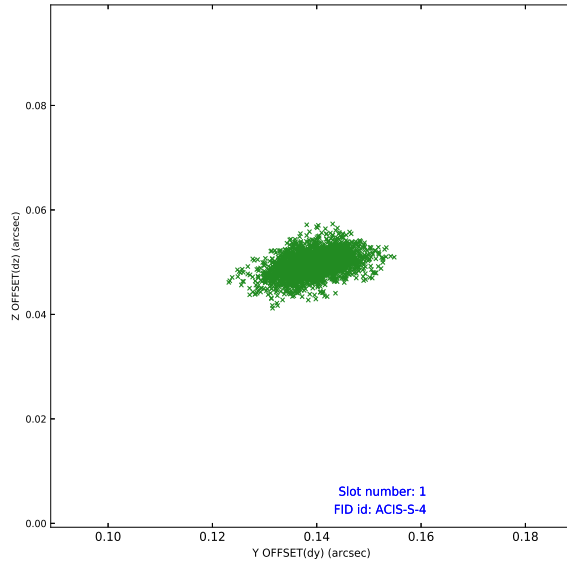


2.5 FID Slots

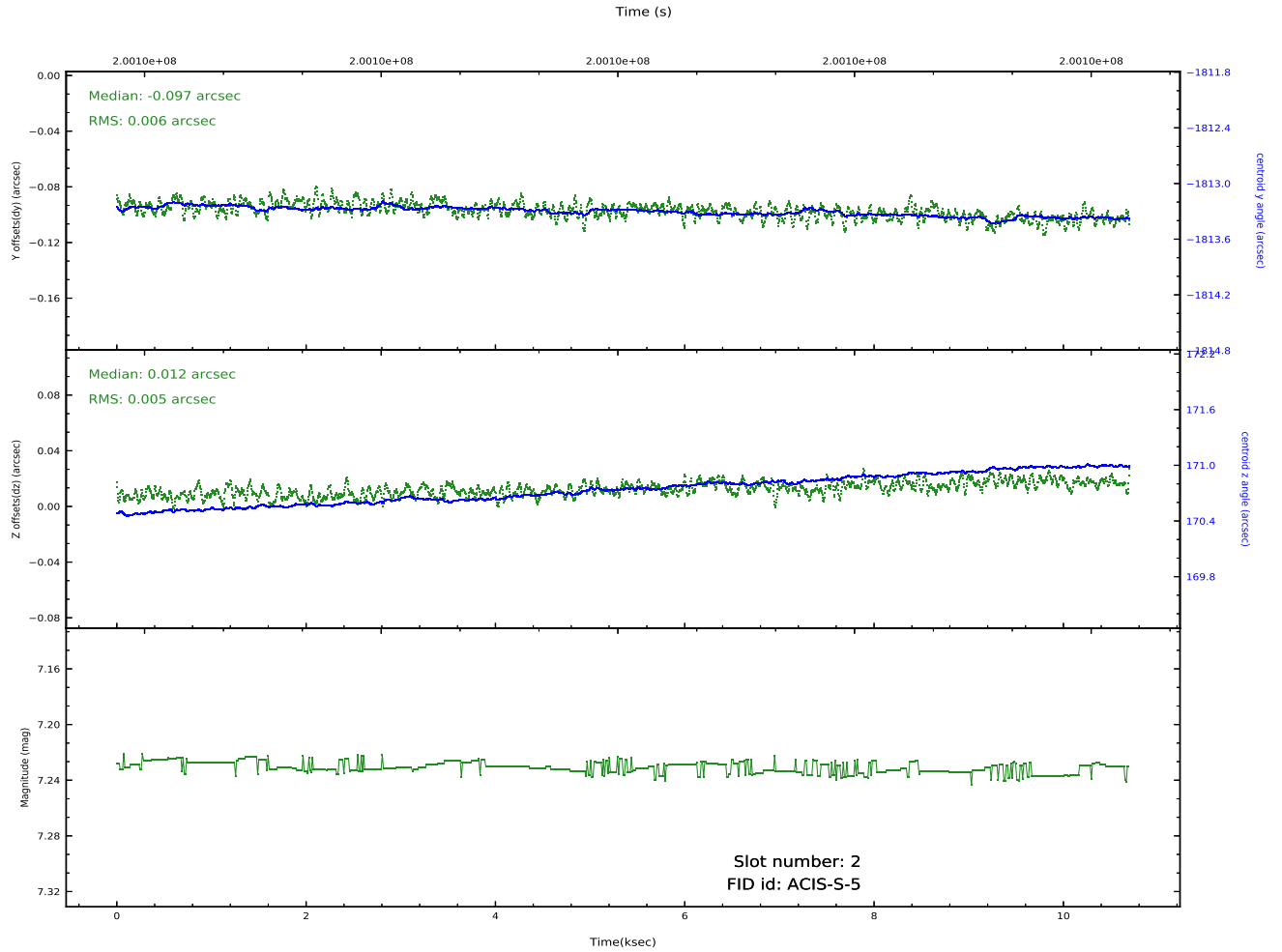
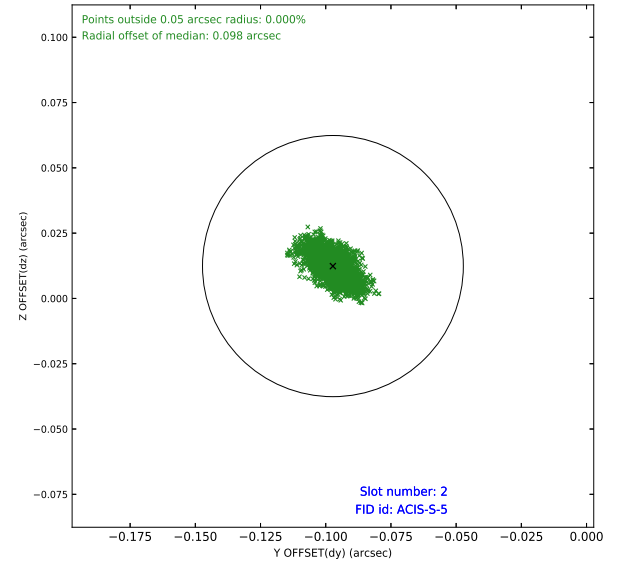
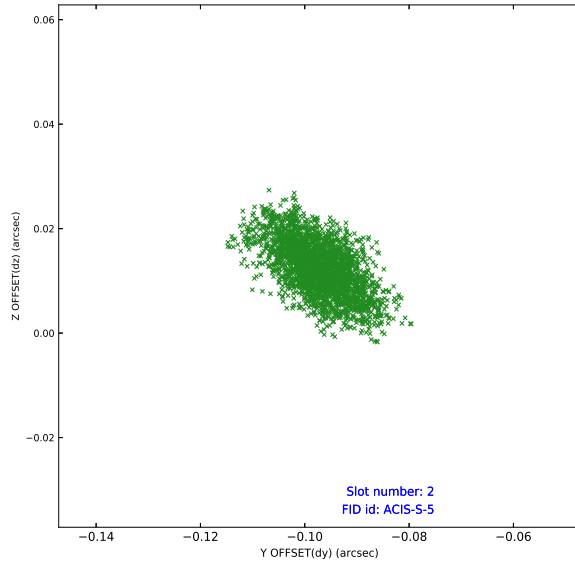
2.5.1 Slot 0



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)	2020.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.518

A.2 Comments

Roll constraint met.