

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4714 - L2 Version 4
Chandra X-Ray Center

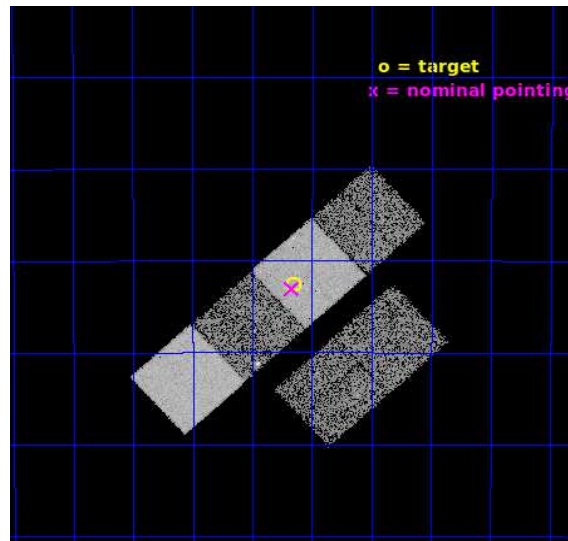
L2 Processing Date : Oct 5 2020

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1 Front

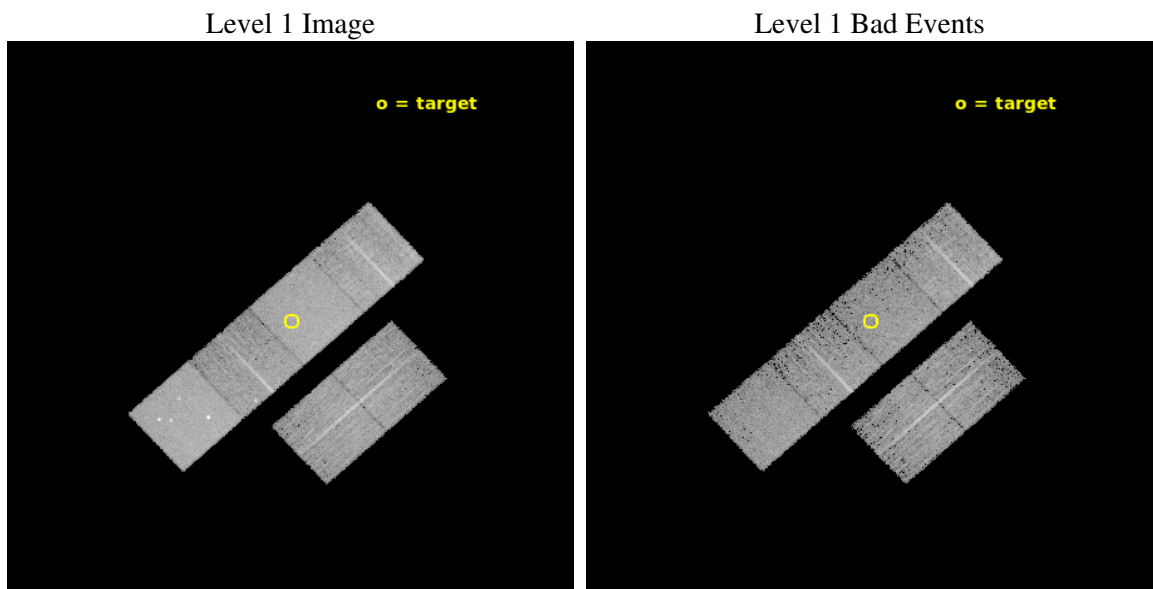
seq_num	600369	Sequence number
obs_id	4714	Observation id
title	Using the Sculptor Dwarf Spheroidal Galaxy to Constrain X-ray Binary Production in Population II	Proposal title
observer	Thomas Maccarone	Principal investigator
object	SCULPTOR DWARF SPHEROIDAL	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	15.039167	Observer's specified target RA [deg]
dec_targ	-33.708889	Observer's specified target Dec [deg]
ra_nom	15.041993180024	Nominal RA [deg]
dec_nom	-33.717578850812	Nominal Dec [deg]
roll_nom	317.44380963195	Nominal Roll [deg]
revision	4	Processing version of data
ontime	6121.5999771953	Sum of GTIs [s]
livetime	6044.084592299	Livetime [s]
ontime2	6118.3590069115	Sum of GTIs [s]
ontime3	6121.5999771953	Sum of GTIs [s]
ontime5	6121.5999771953	Sum of GTIs [s]
ontime6	6118.3590069115	Sum of GTIs [s]
ontime7	6121.5999771953	Sum of GTIs [s]
ontime8	6121.5999771953	Sum of GTIs [s]
l2events	80438	Number of level 2 events



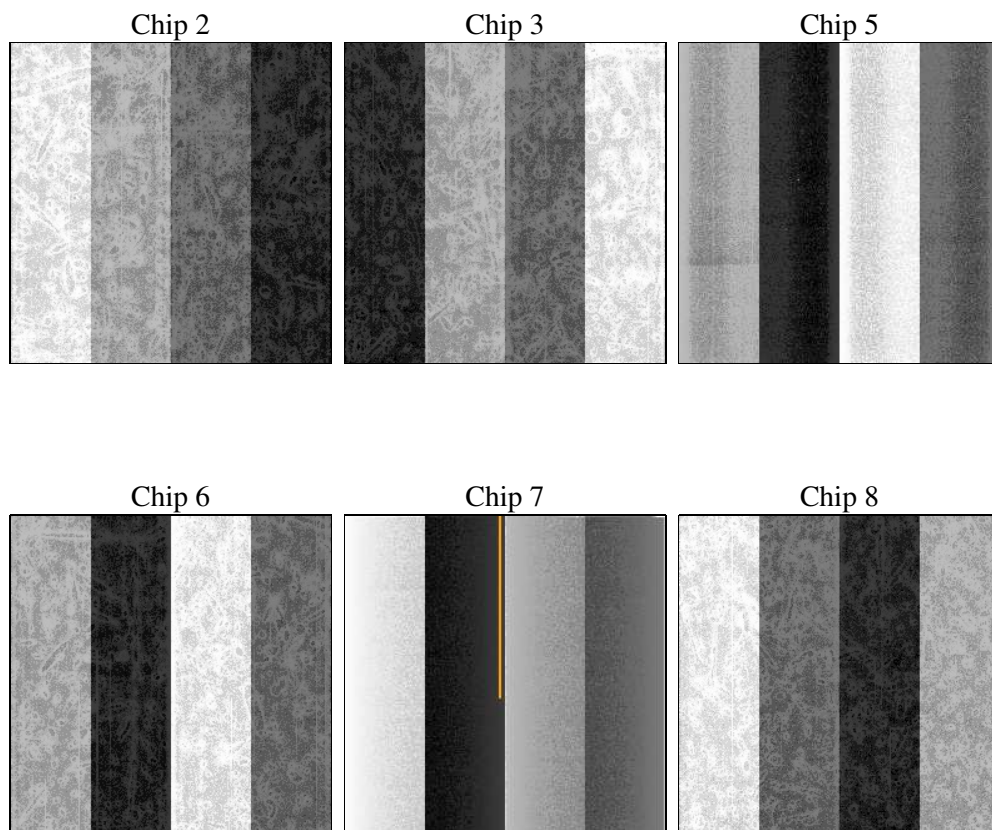
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	6121.5999771953	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	6118.3590069115	Sum of GTIs [s]
date	2020-10-05T06:21:23	Date and time of file creation	ontime3	6121.5999771953	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	6121.5999771953	Sum of GTIs [s]
			ontime6	6118.3590069115	Sum of GTIs [s]
			ontime7	6121.5999771953	Sum of GTIs [s]
			ontime8	6121.5999771953	Sum of GTIs [s]
			l1events	421292	Number of level 1 events

2.1.4 Events

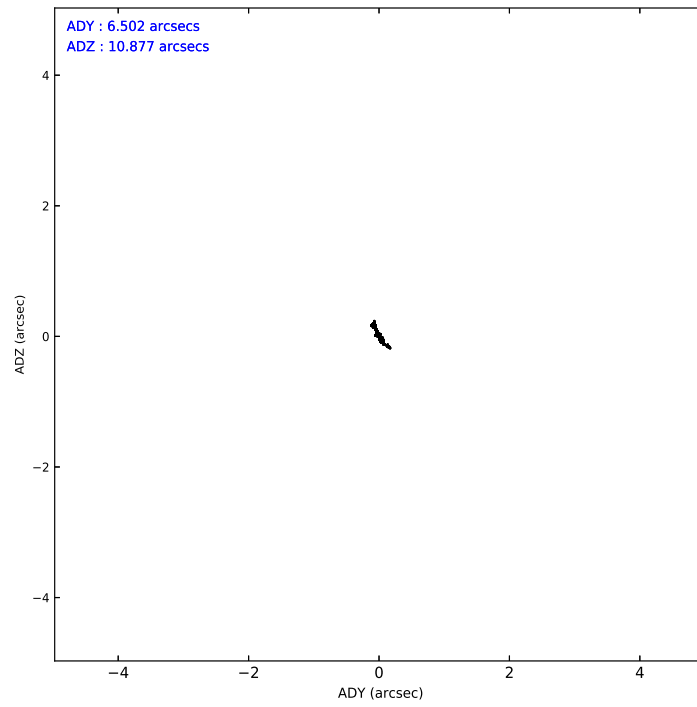
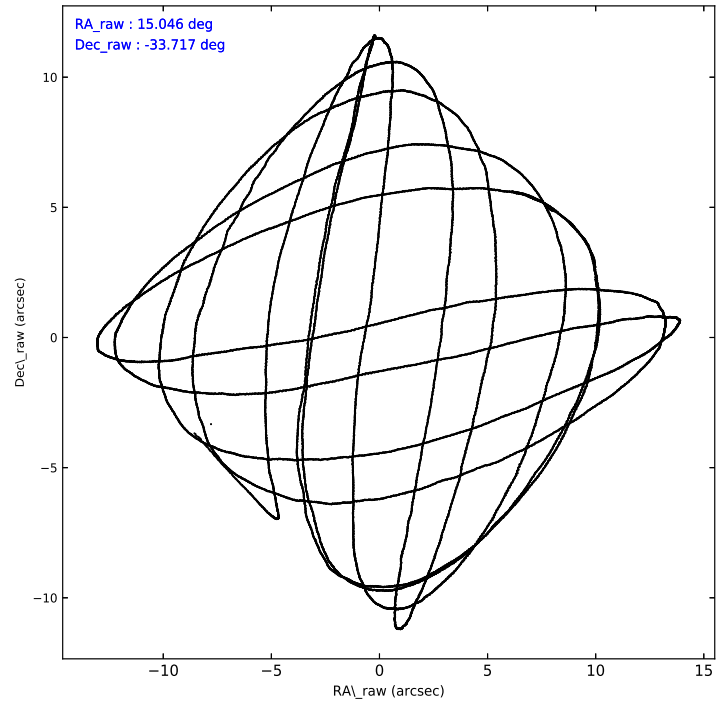
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	59928	55780	91348	58459	80397	75380	grade 0 events	3406	3055	6197	3333	3124	5293
rejected events	53949	50165	55747	52120	52250	62160		5%	5%	6%	5%	3%	7%
rejected %	90%	89%	61%	89%	64%	82%	grade 1 events	33	40	138	24	63	57
								0%	0%	0%	0%	0%	0%
							grade 2 events	1470	1373	12506	1553	6841	3449
								2%	2%	13%	2%	8%	4%
							grade 3 events	674	660	1723	687	3034	1748
								1%	1%	1%	1%	3%	2%
							grade 4 events	663	612	1707	700	2918	1611
								1%	1%	1%	1%	3%	2%
							grade 5 events	2401	2586	6539	2679	7606	3563
								4%	4%	7%	4%	9%	4%
							grade 6 events	1130	1246	21705	1419	18490	4086
								1%	2%	23%	2%	22%	5%
							grade 7 events	50151	46208	40833	48064	38321	55573
								83%	82%	44%	82%	47%	73%

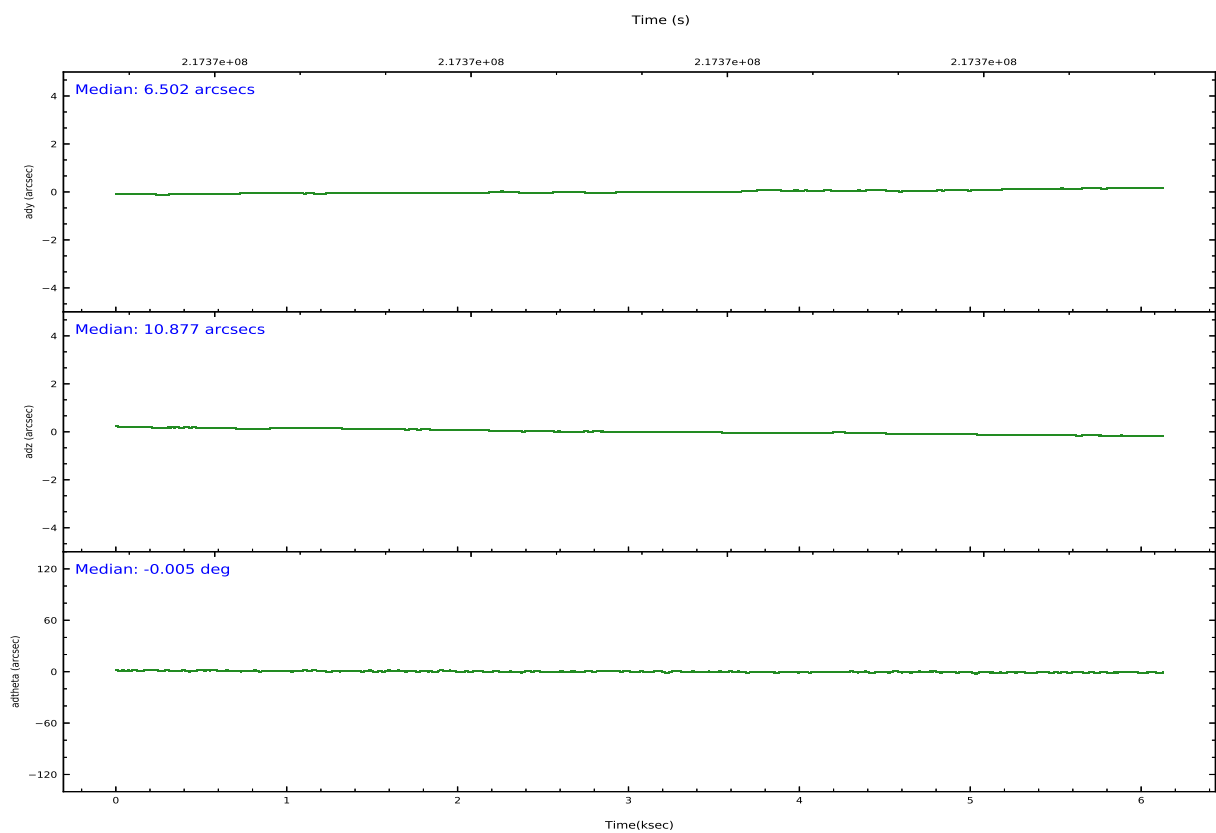
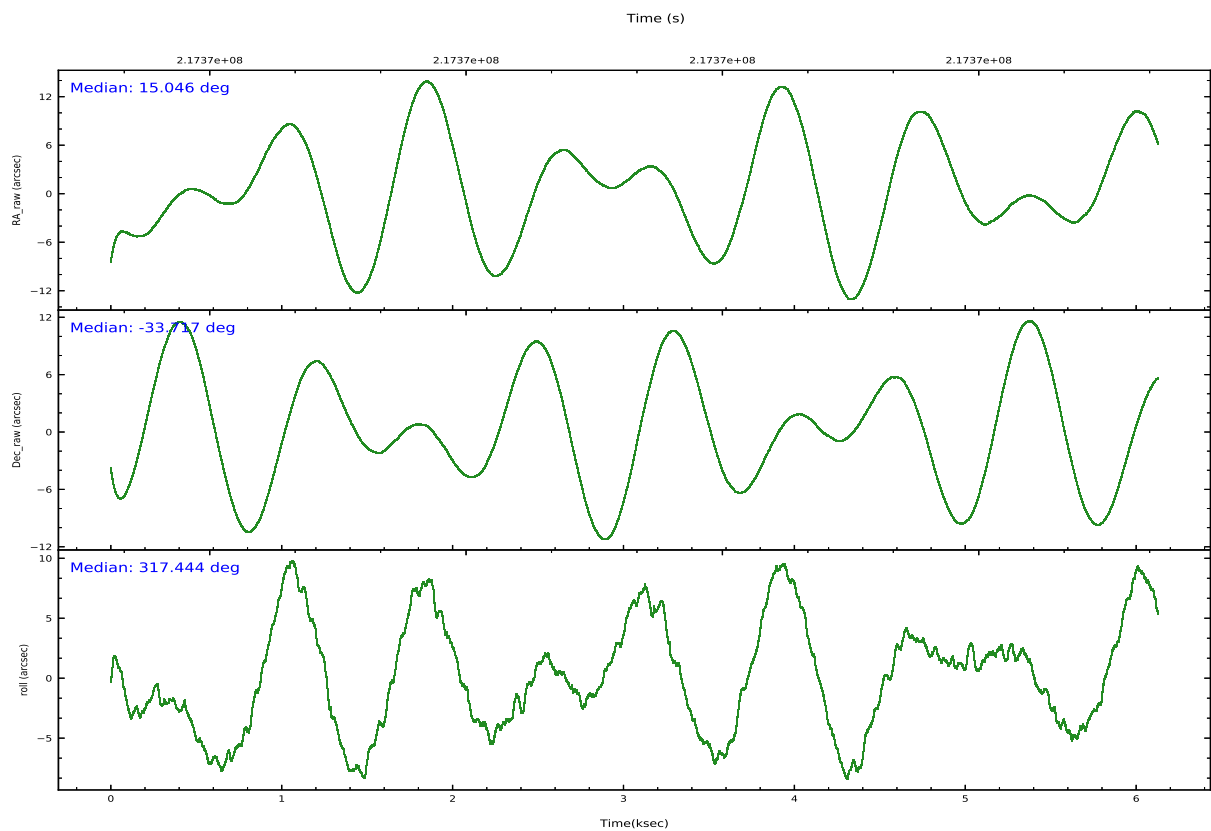
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	15.014179	15.041993180024
[deg] Pointing Dec	-33.711014	-33.717578850812
[deg] Pointing Roll	317.269891	317.44380963195
[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)	217365549.184000	217363775.68927
Observation start date	2004-11-20T19:18:05	2004-11-20T18:49:35
[s] Observation end time (MET)	217371549.184000	217372159.16465
Observation end date	2004-11-20T20:58:05	2004-11-20T21:09:19
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



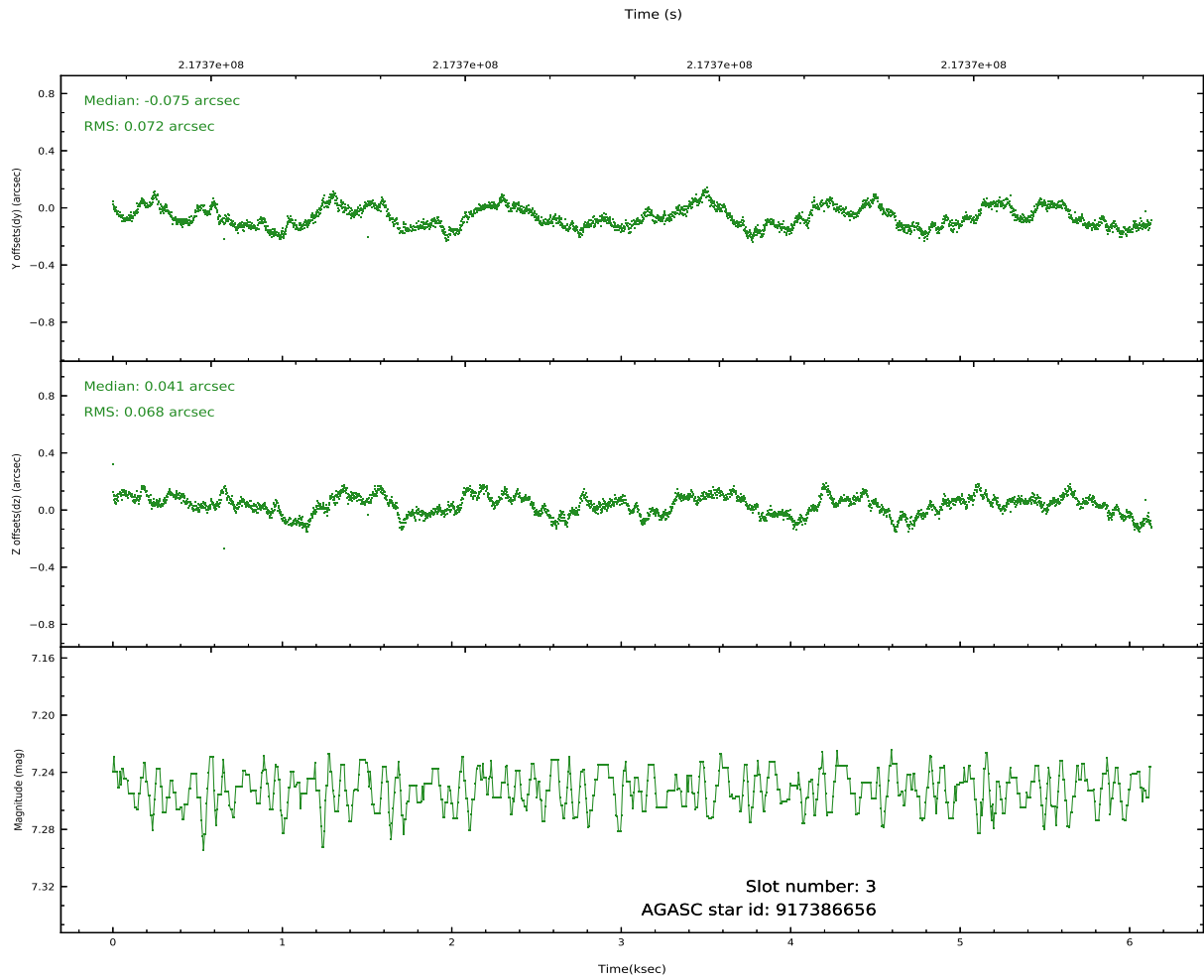
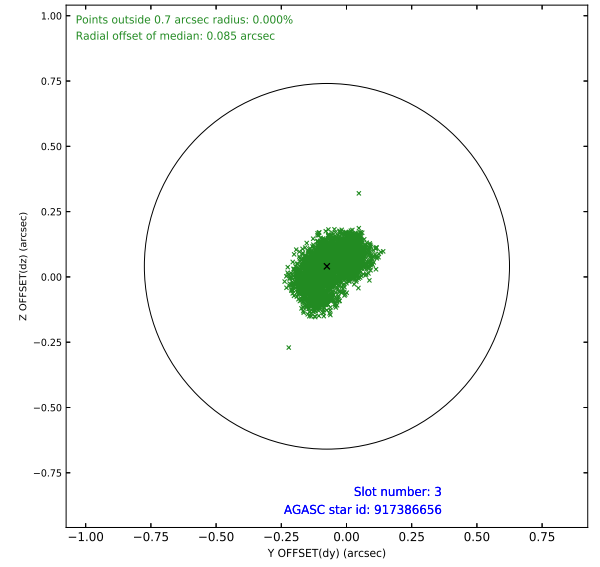
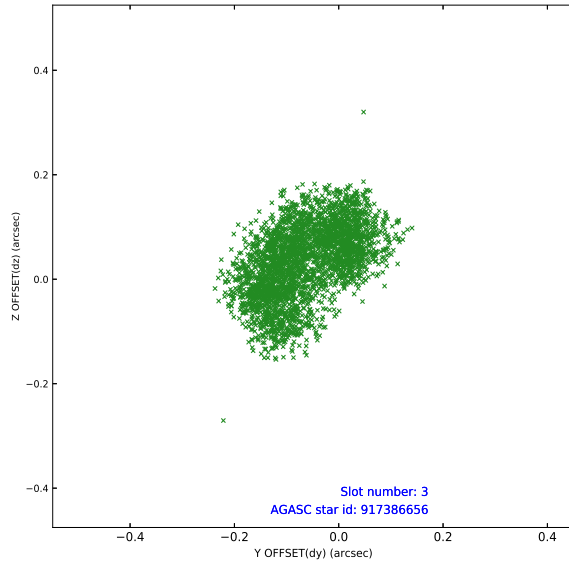


Slot Statistics

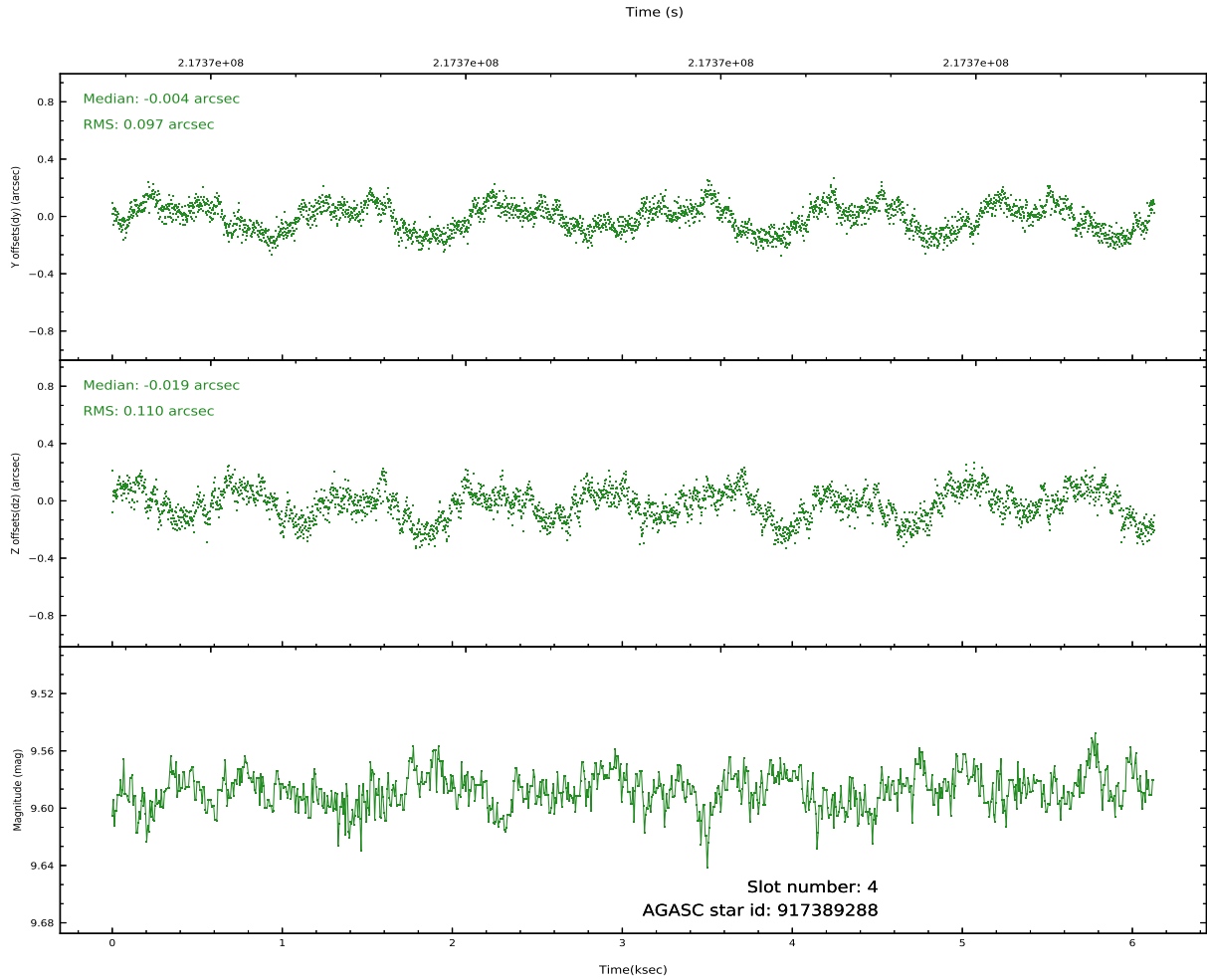
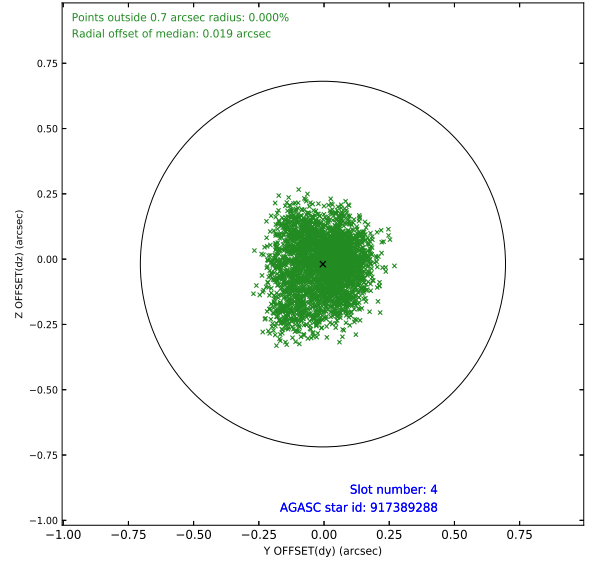
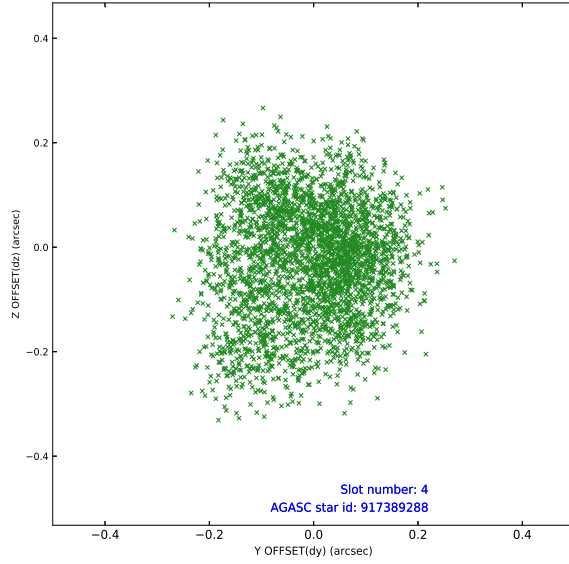
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.18	1495	1.000	0.039	-0.091	0.008	0.014	0.000000	0.000000	936.82	-1727
1	FID		ACIS-S-5	7.23	1496	1.000	-0.089	0.009	0.006	0.010	0.000000	0.000000	-1811.76	168
2	FID		ACIS-S-6	7.35	1494	1.000	0.029	0.094	0.007	0.012	0.000000	0.000000	401.33	813
3	GUIDE	used	917386656	7.25	2991	1.000	-0.075	0.041	0.110	0.161	15.342124	-33.359890	-132.30	1596
4	GUIDE	used	917389288	9.59	2991	1.000	-0.004	-0.019	0.160	0.242	15.394706	-33.185862	-439.22	2165
5	GUIDE	used	917650528	8.71	2990	1.000	-0.035	-0.133	0.126	0.187	14.274554	-33.869842	-1230.36	-1925
6	GUIDE	used	917389592	9.98	2985	1.000	0.374	0.345	0.129	0.205	16.074673	-33.644125	2182.48	2321
7	GUIDE	used	917653720	9.52	2989	1.000	-0.271	-0.248	0.279	0.388	13.921033	-33.753180	-2287.50	-2344

2.4 Star Slots

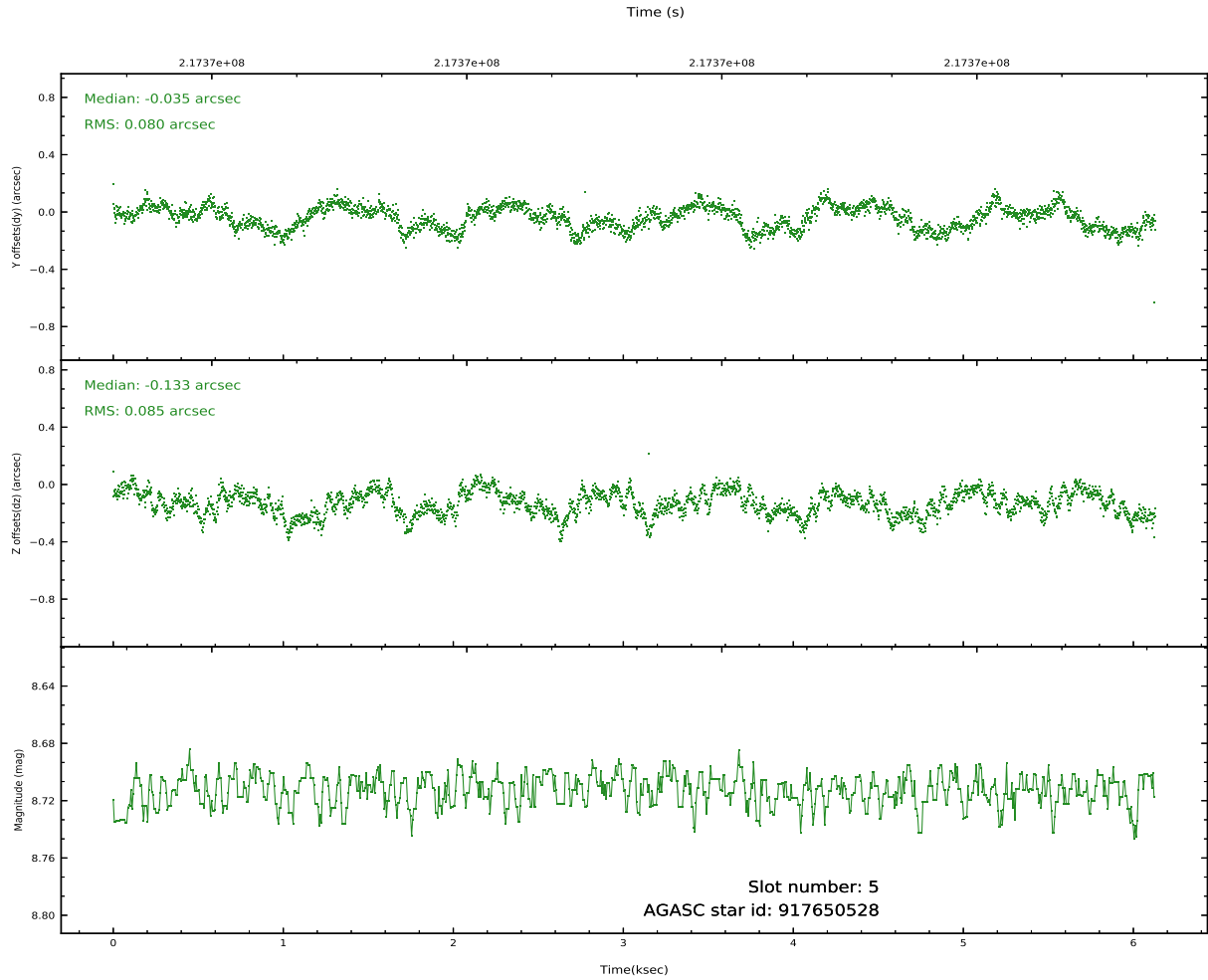
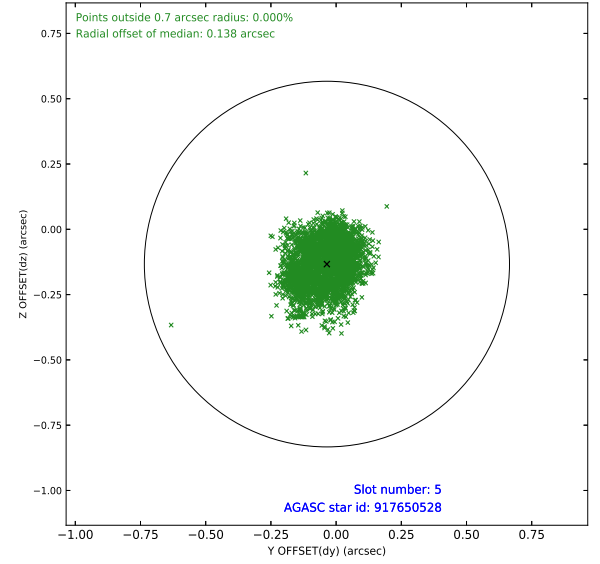
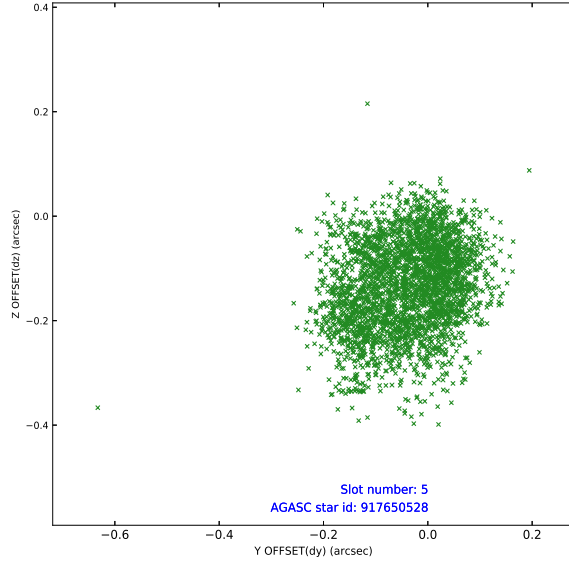
2.4.1 Slot 3



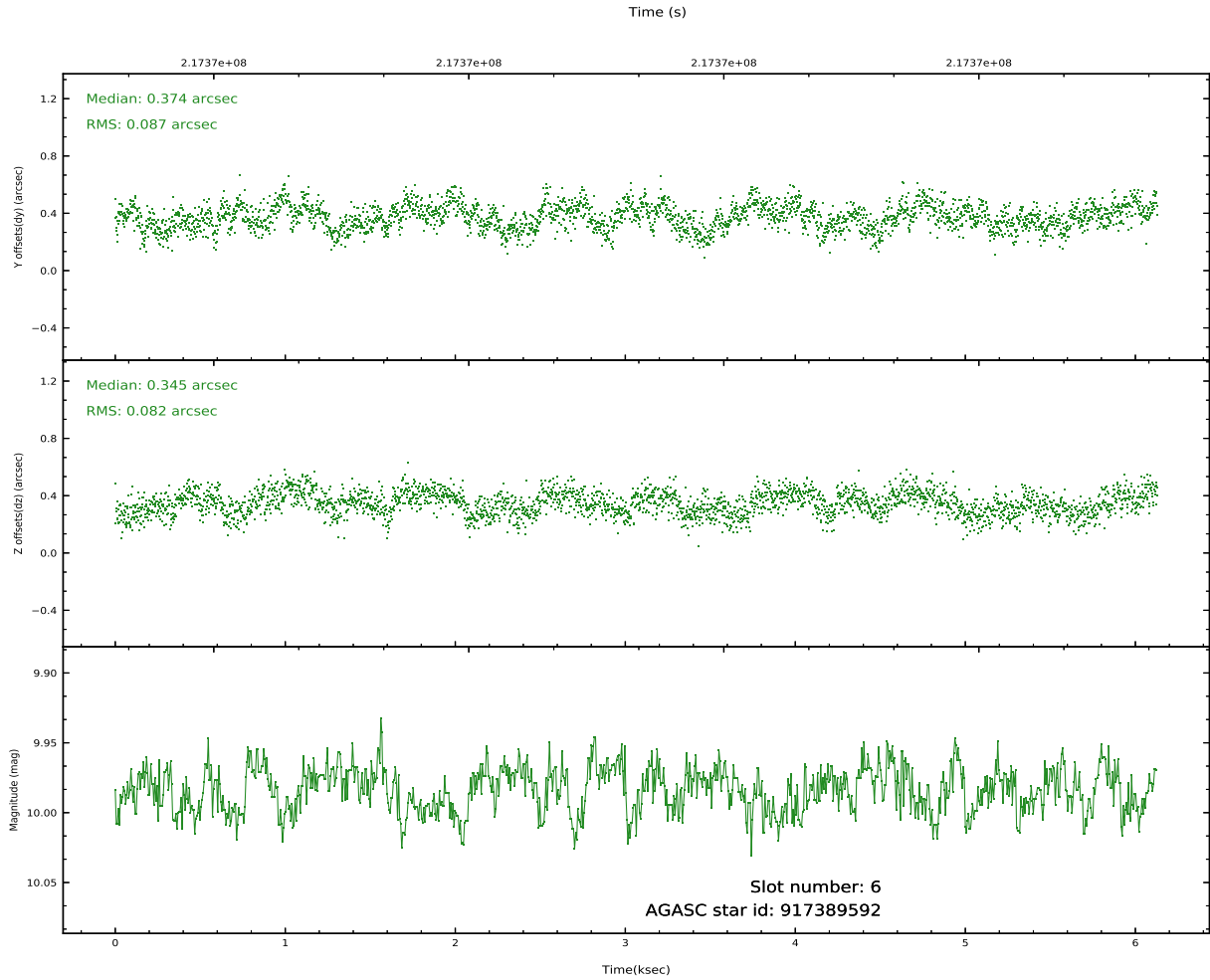
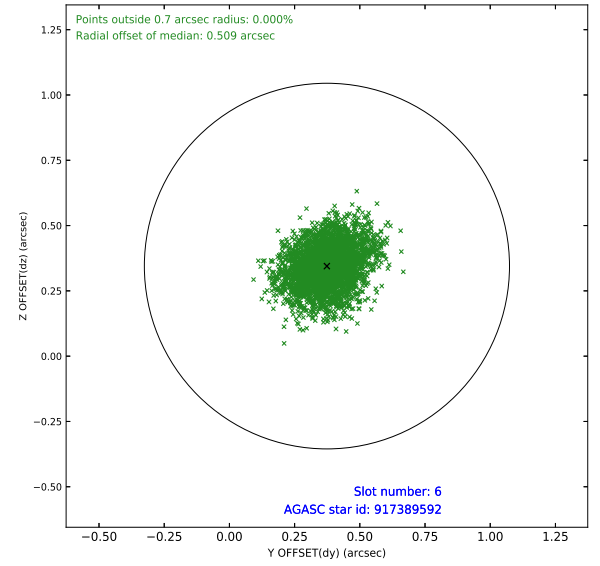
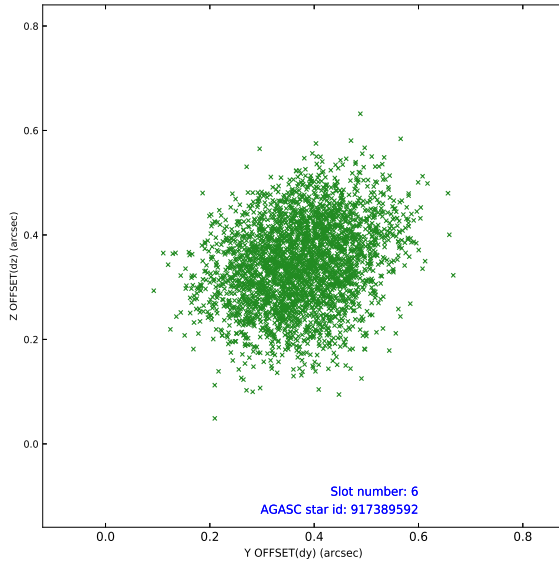
2.4.2 Slot 4



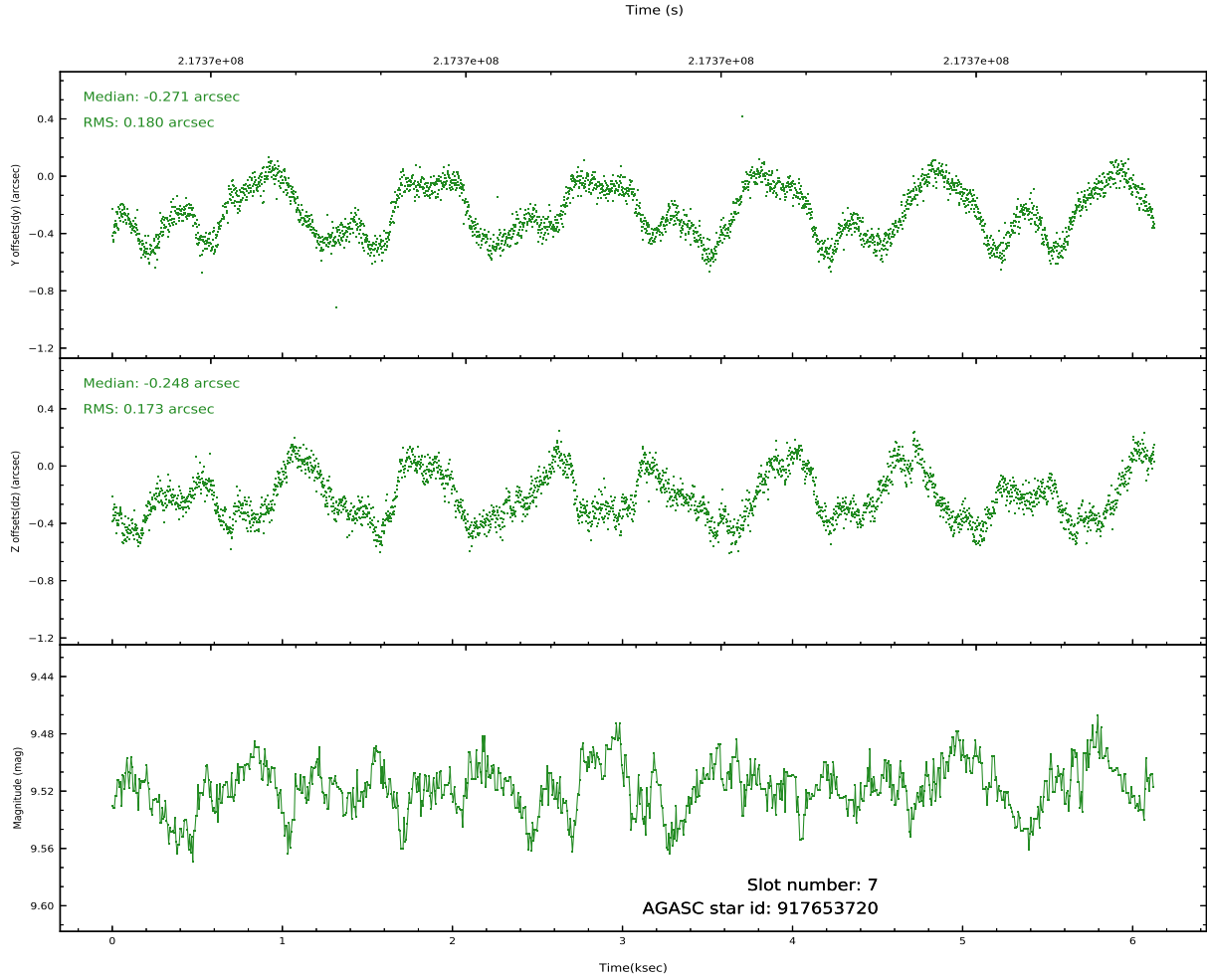
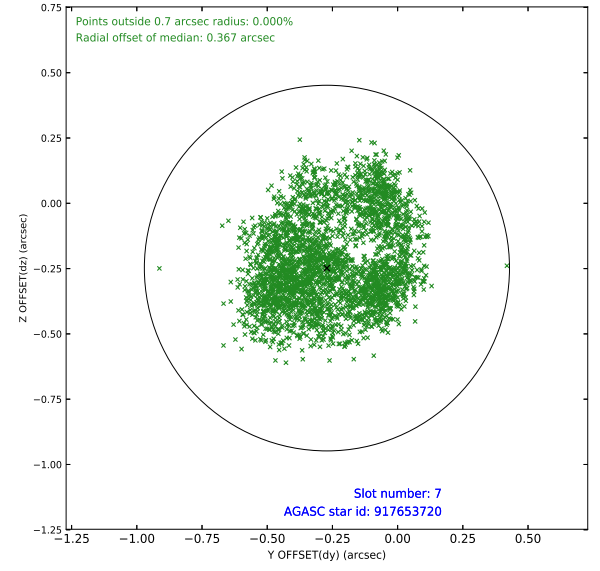
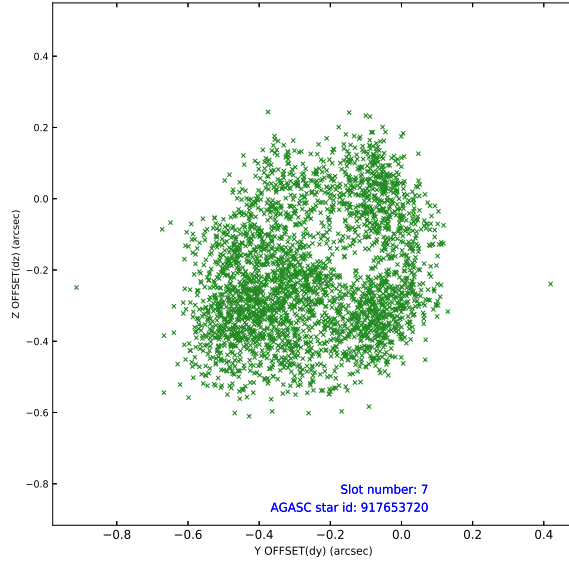
2.4.3 Slot 5



2.4.4 Slot 6

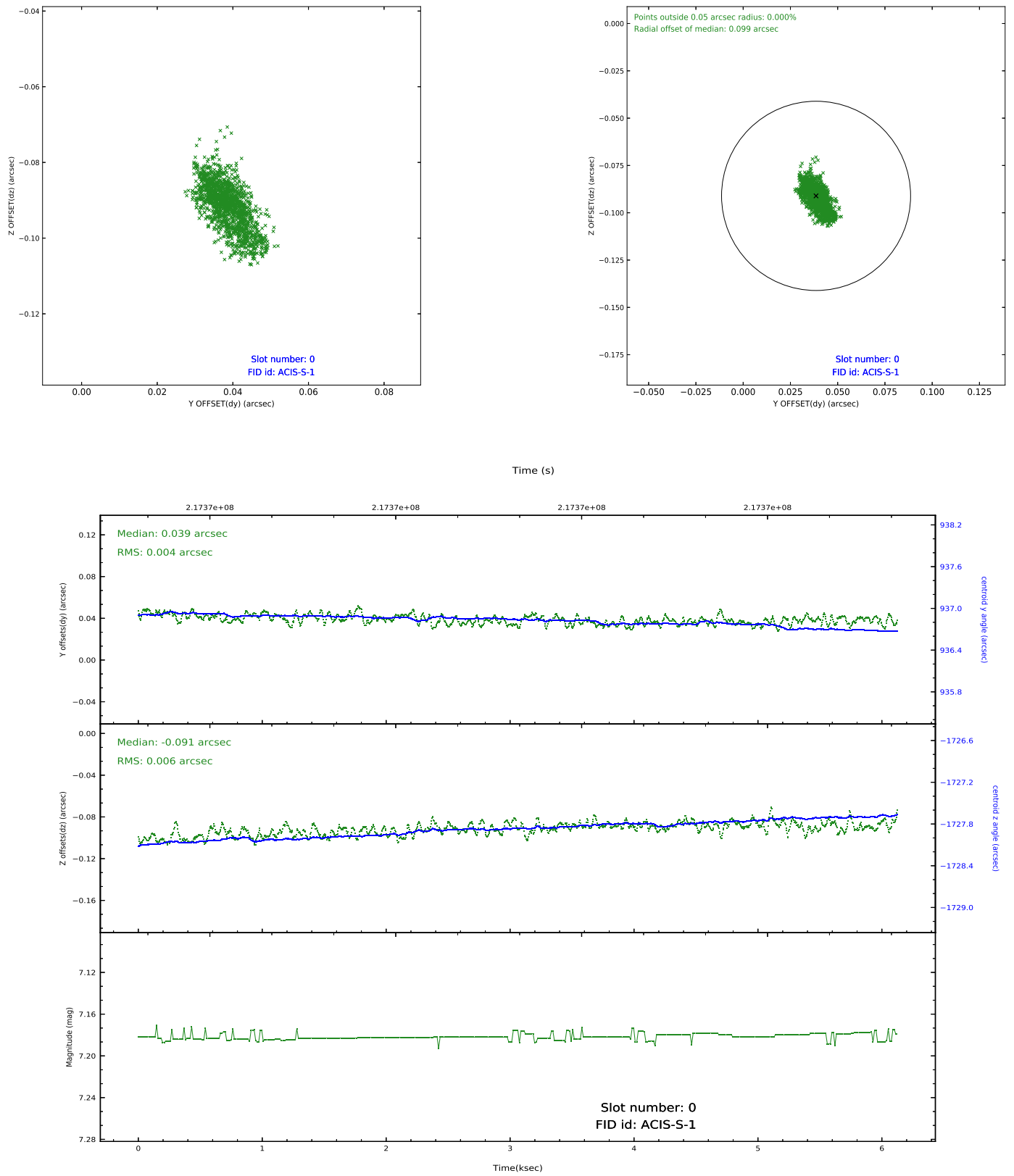


2.4.5 Slot 7

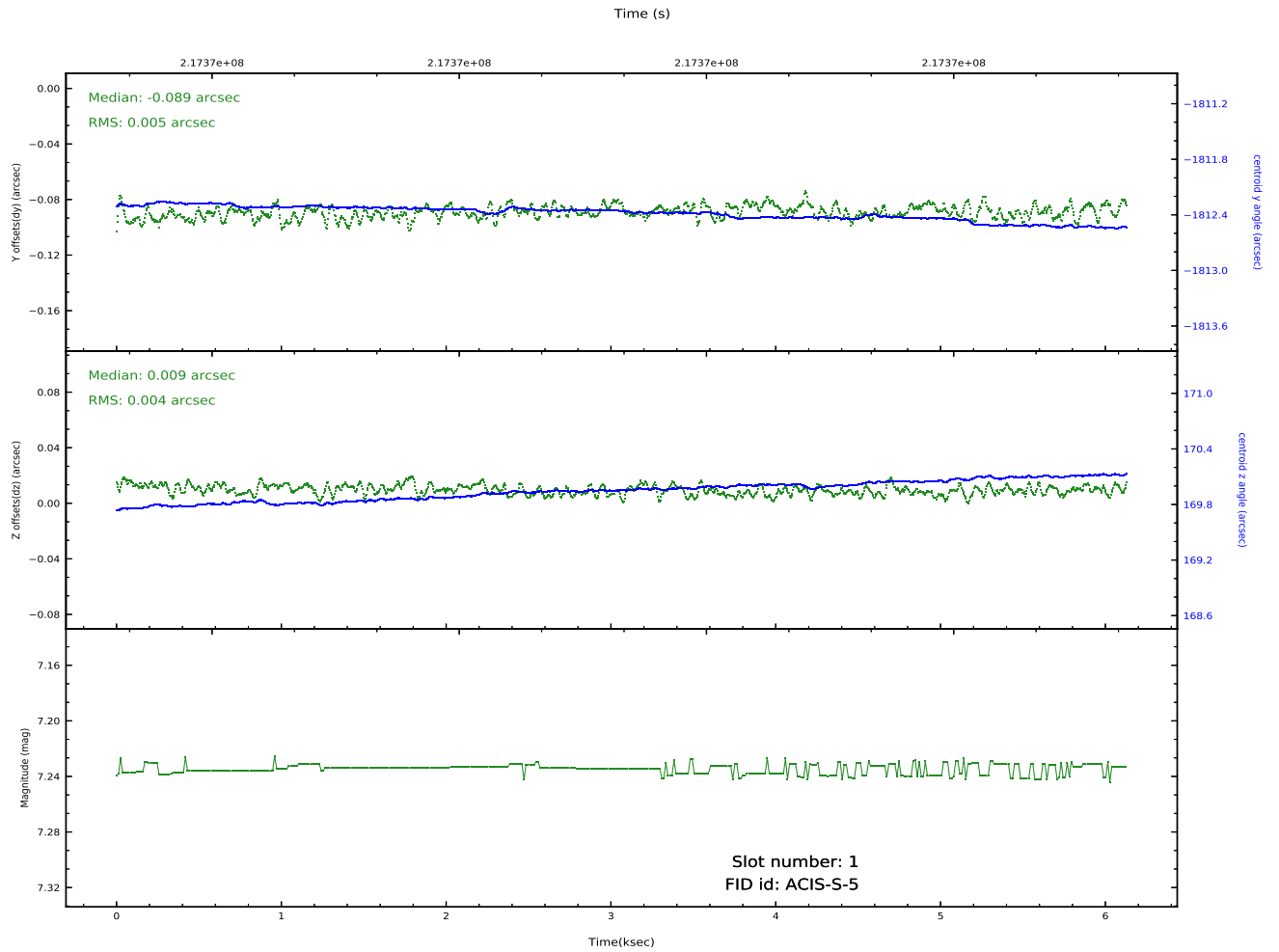
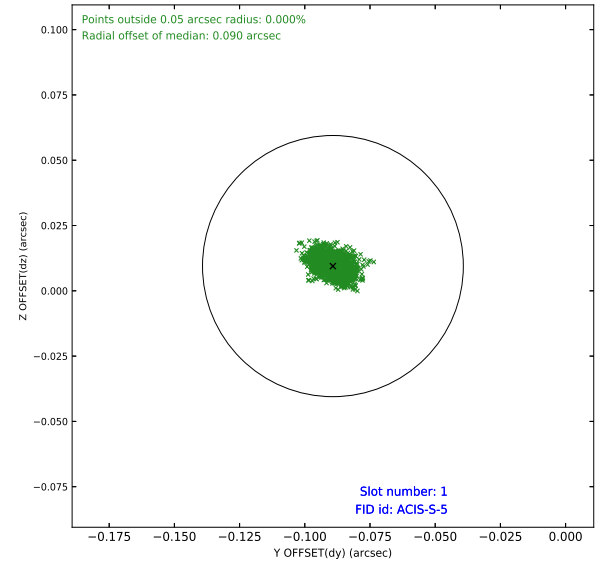
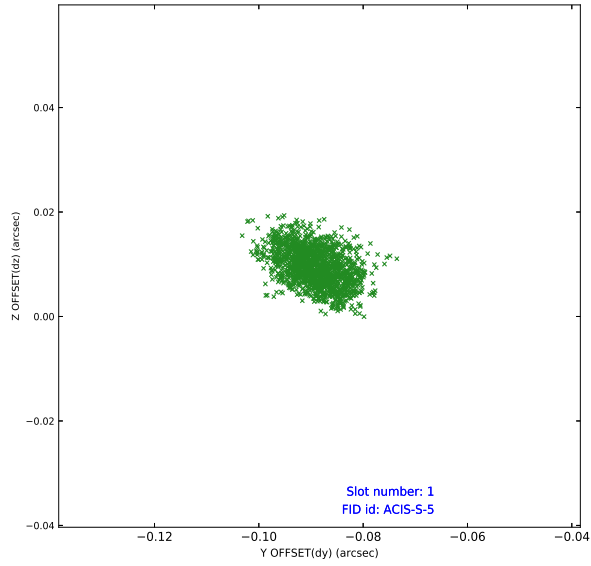


2.5 FID Slots

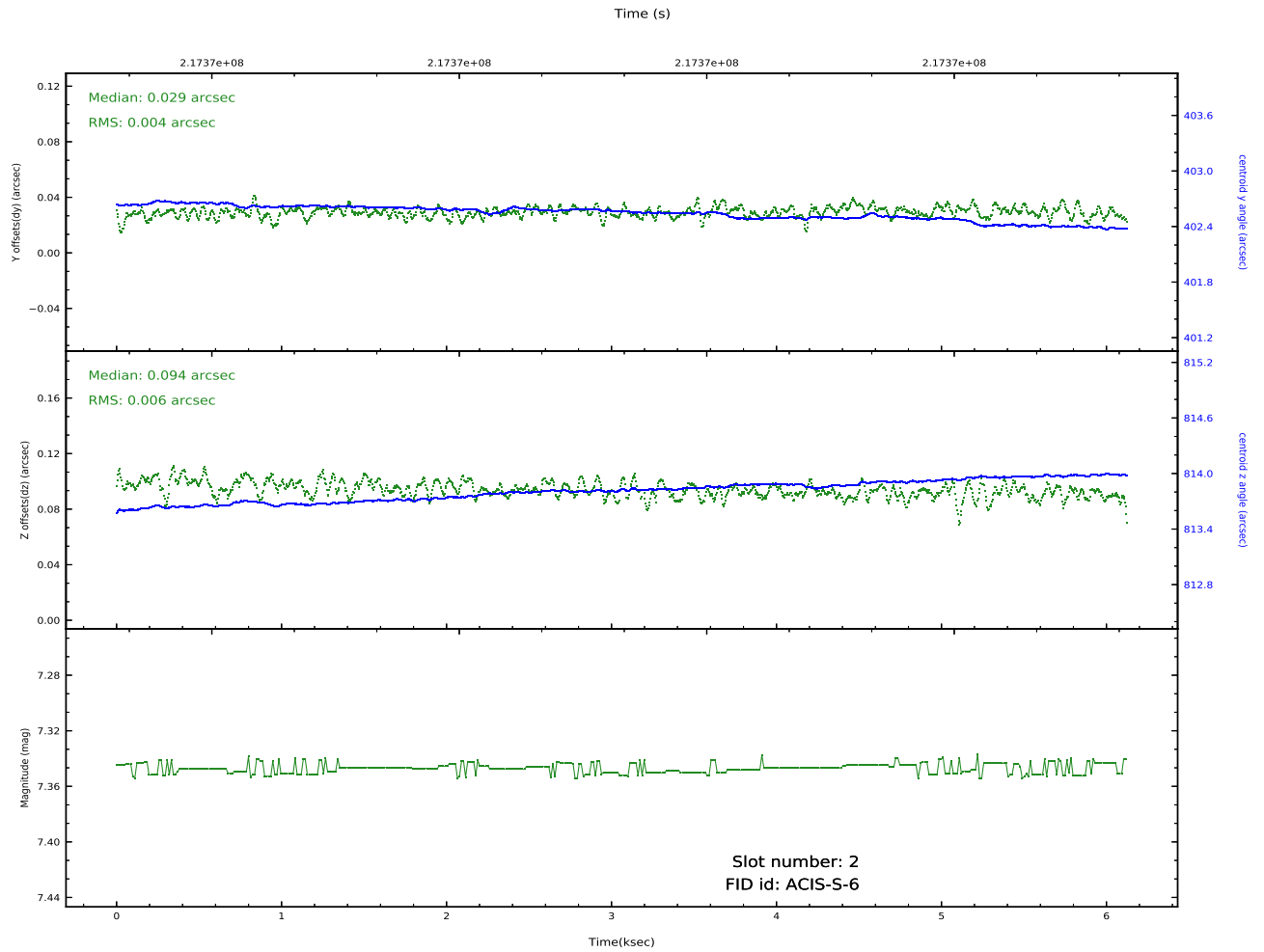
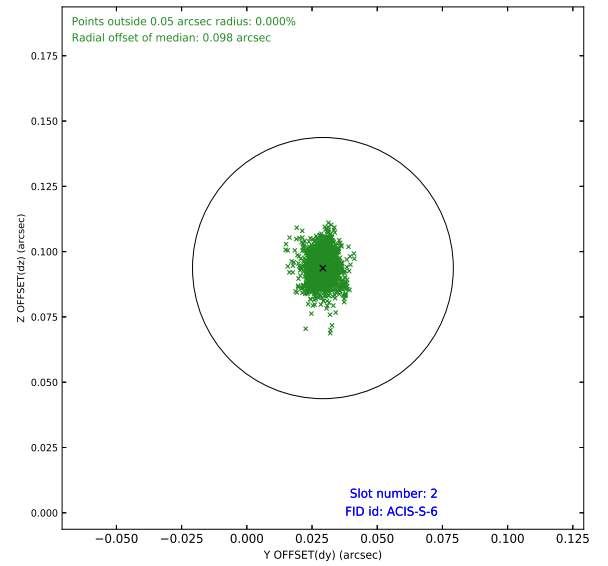
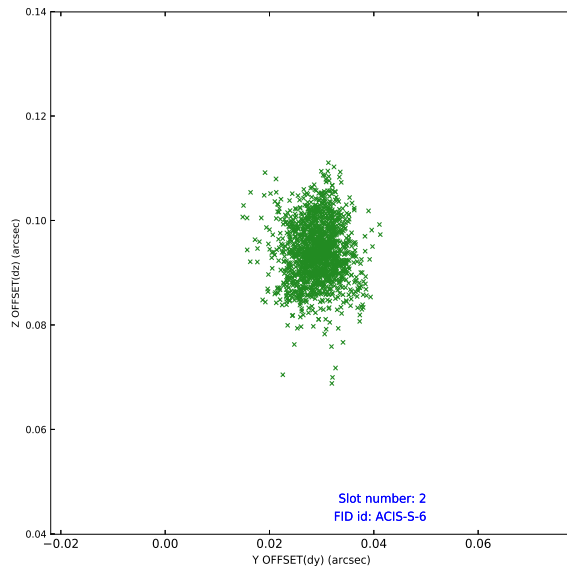
2.5.1 Slot 0



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)	2020.10.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.121

A.2 Comments

Joint proposal with NOAO.