

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20422 - L2 Version 2
Chandra X-Ray Center

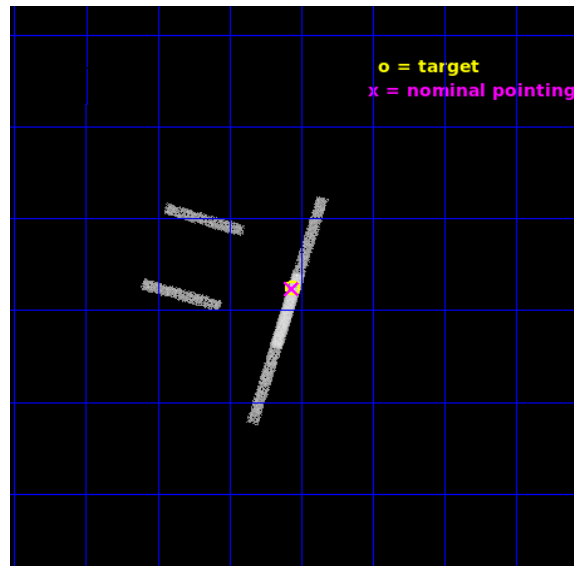
L2 Processing Date : Oct 27 2020

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1 Front

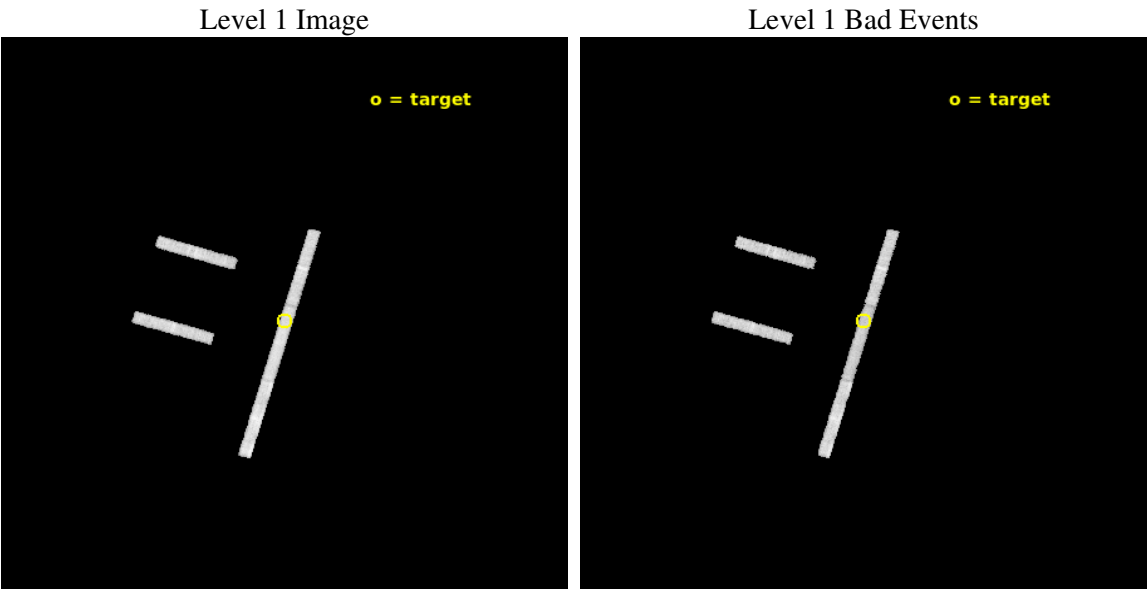
seq_num	703527	Sequence number
obs_id	20422	Observation id
title	X-ray detection of unexplored so far population of AGN	Proposal ti
observer	Magdalena Kunert-Bajraszewska	Principal investigator
object	VTC0107+0112	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	16.889583	Observer's specified target RA [deg]
dec_targ	1.206306	Observer's specified target Dec [deg]
ra_nom	16.891258726289	Nominal RA [deg]
dec_nom	1.2059342791443	Nominal Dec [deg]
roll_nom	106.61816080903	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15070.301026583	Sum of GTIs [s]
livetime	14235.683254086	Livetime [s]
ontime2	15070.301026583	Sum of GTIs [s]
ontime3	15070.301026583	Sum of GTIs [s]
ontime6	15070.301026583	Sum of GTIs [s]
ontime7	15070.301026583	Sum of GTIs [s]
ontime8	15070.301026583	Sum of GTIs [s]
l2events	15699	Number of level 2 events



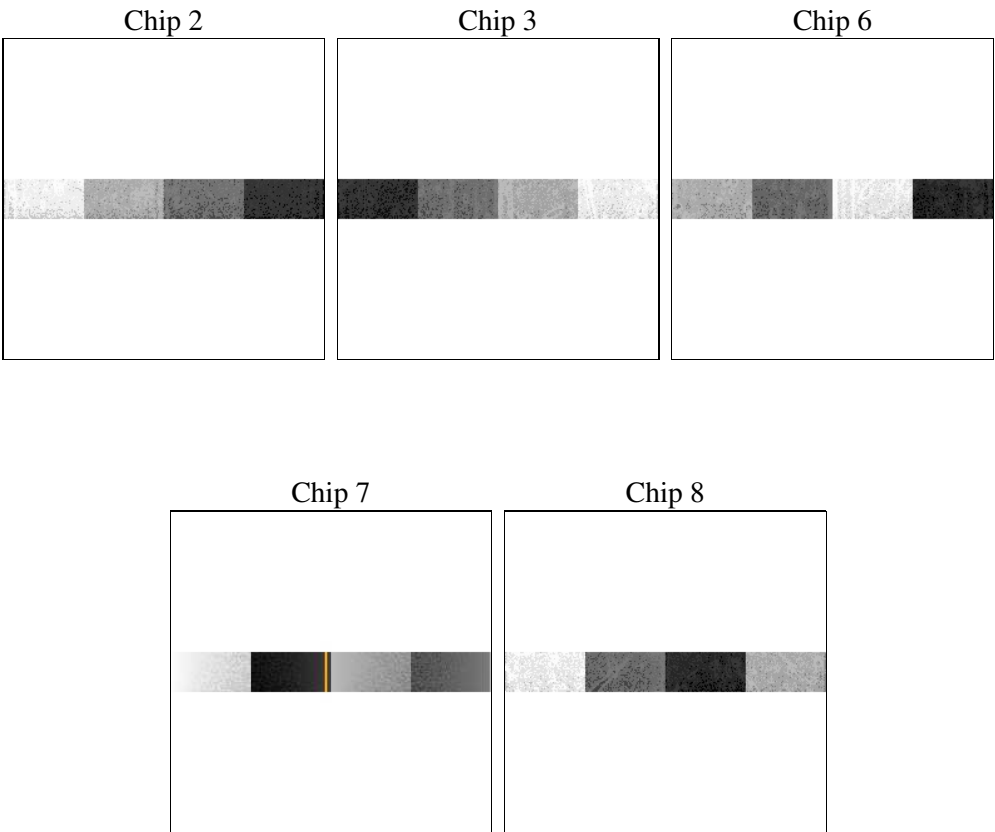
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	15070.301026583	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	15070.301026583	Sum of GTIs [s]
date	2020-10-27T09:45:35	Date and time of file creation	ontime3	15070.301026583	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	15070.301026583	Sum of GTIs [s]
			ontime7	15070.301026583	Sum of GTIs [s]
			ontime8	15070.301026583	Sum of GTIs [s]
			l1events	98634	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	16680	16627	18206	20585	26536
rejected events	14725	14718	16125	11193	20452
rejected %	88%	88%	88%	54%	77%

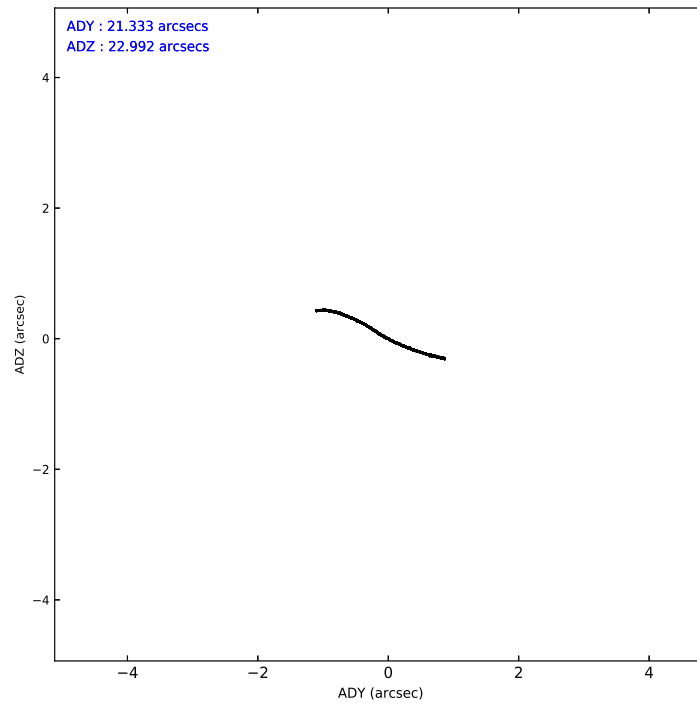
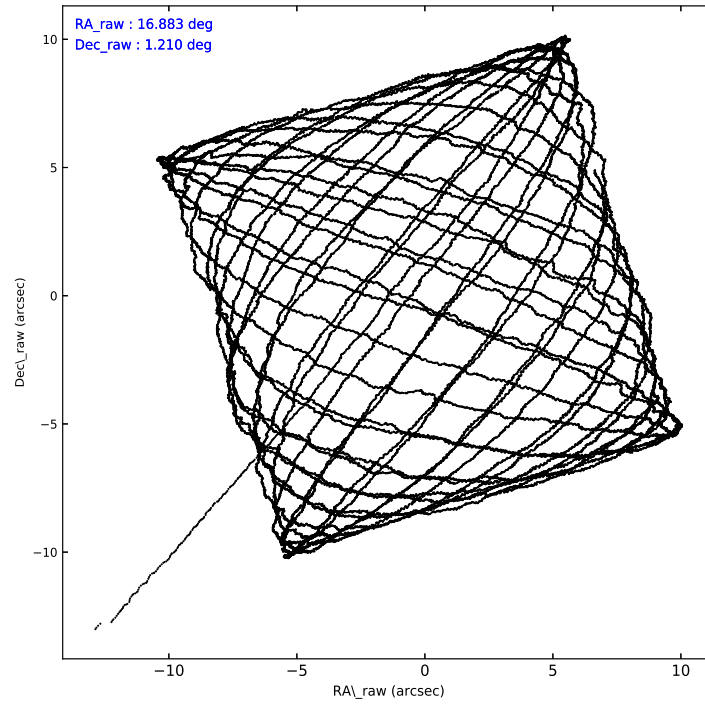
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	583	569	565	954	1415
	3%	3%	3%	4%	5%
grade 1 events	6	6	5	36	8
	0%	0%	0%	0%	0%
grade 2 events	393	359	400	2051	1361
	2%	2%	2%	9%	5%
grade 3 events	288	328	335	1007	602
	1%	1%	1%	4%	2%
grade 4 events	337	315	322	1029	571
	2%	1%	1%	4%	2%
grade 5 events	604	705	726	2017	1073
	3%	4%	3%	9%	4%
grade 6 events	355	339	461	4351	2136
	2%	2%	2%	21%	8%
grade 7 events	14114	14006	15392	9140	19370
	84%	84%	84%	44%	72%

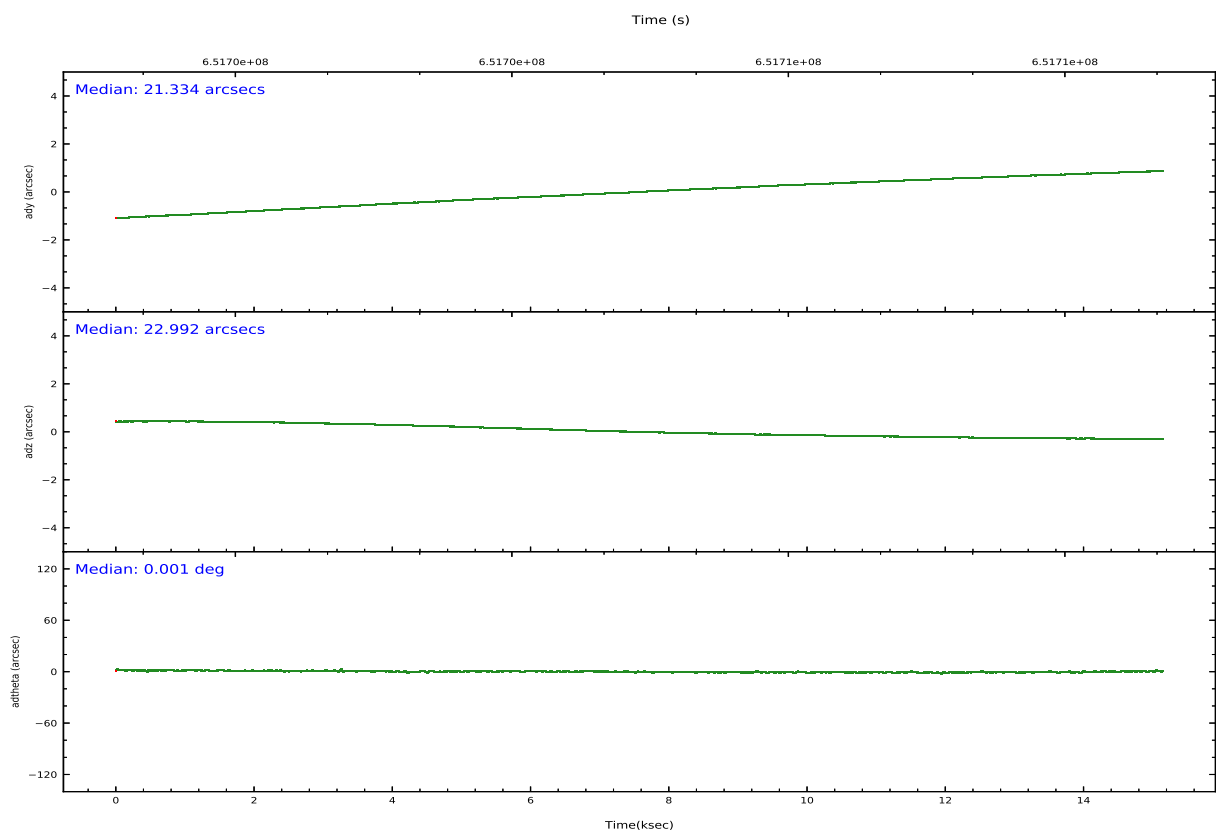
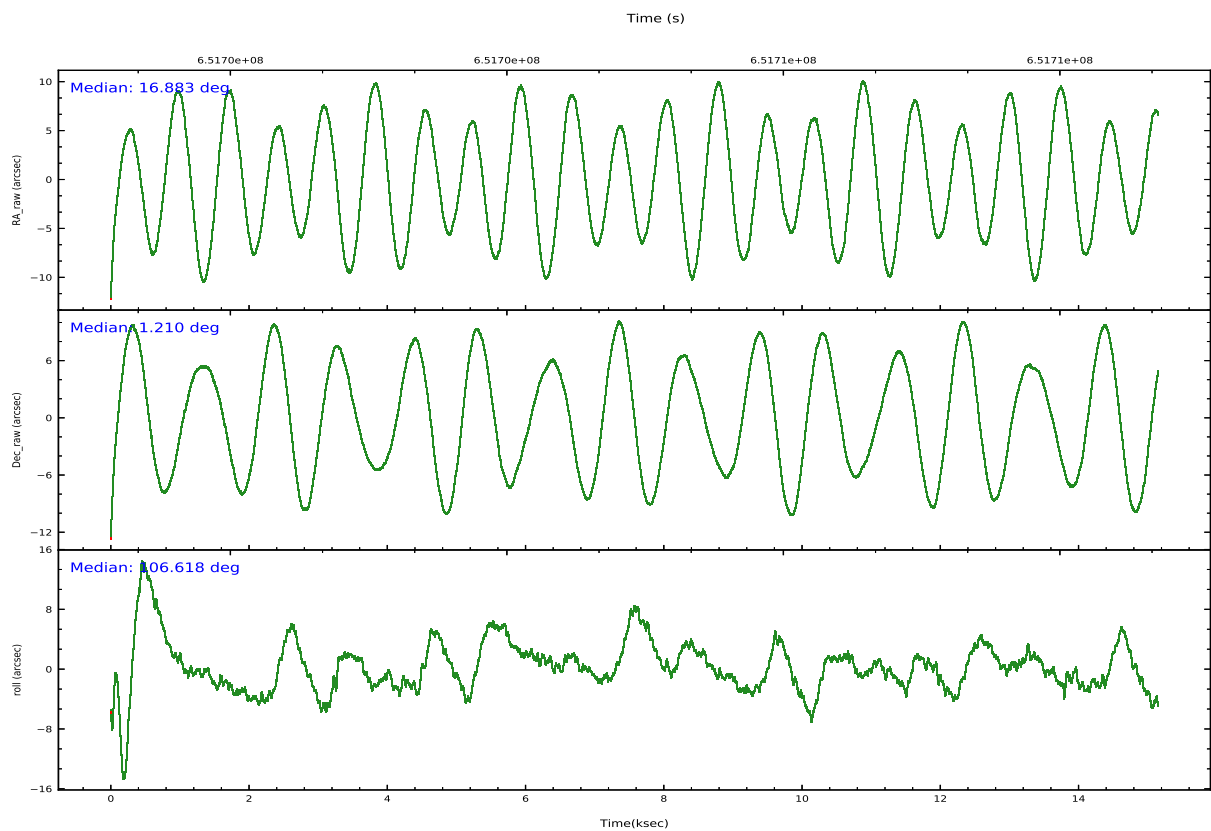
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	16.903310	16.891258726289
[deg] Pointing Dec	1.191408	1.2059342791443
[deg] Pointing Roll	106.473335	106.61816080903
[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)	651698422.184000	651697378.3032399
Observation start date	2018-08-26T19:19:13	2018-08-26T19:02:58
[s] Observation end time (MET)	651713422.184000	651713987.40423
Observation end date	2018-08-26T23:29:13	2018-08-26T23:39:47
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	O1	Y
CCD I3 on	O2	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O3	Y
CCD S3 on	Y	Y
CCD S4 on	O4	Y
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.7

2.3 Aspect



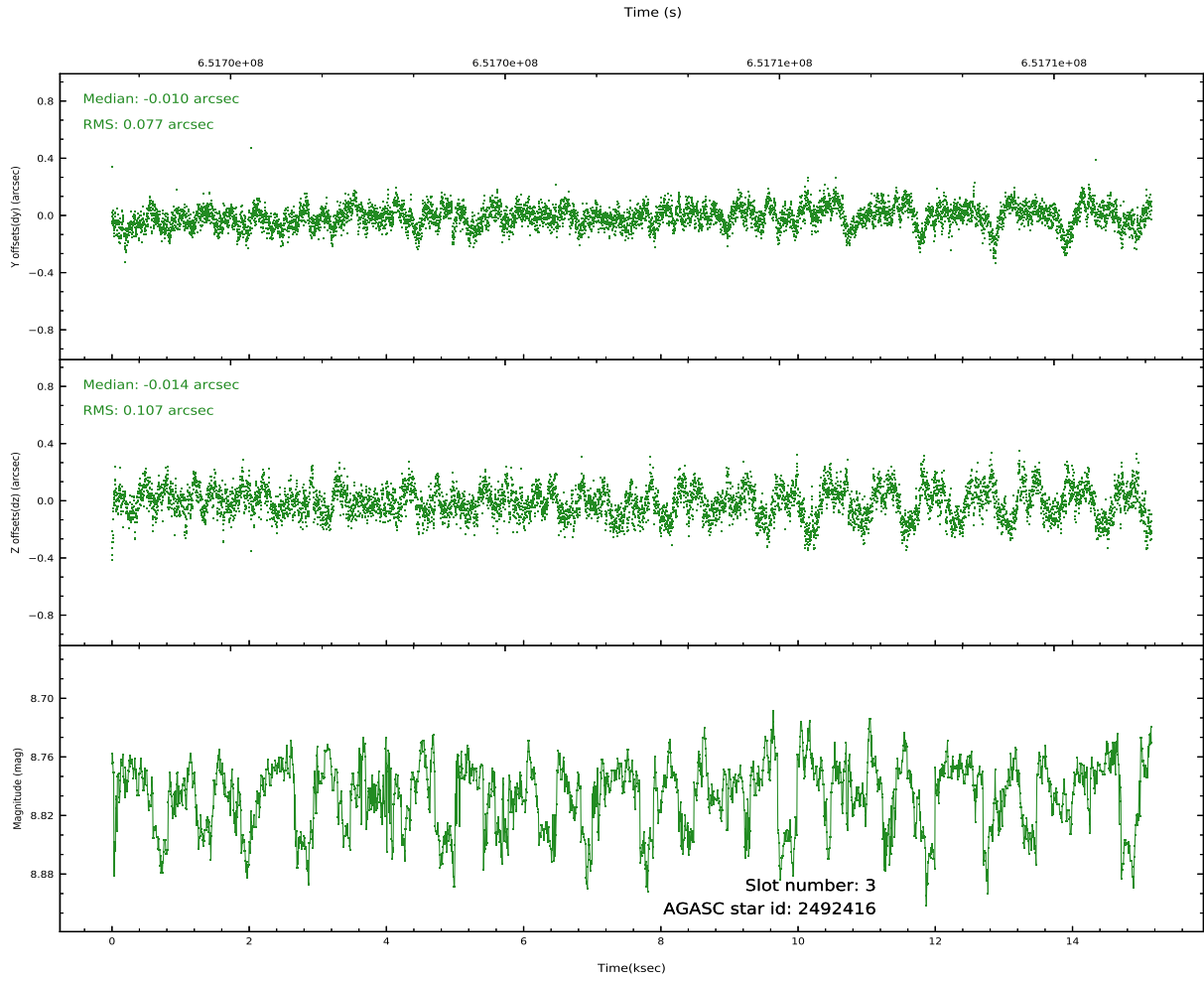
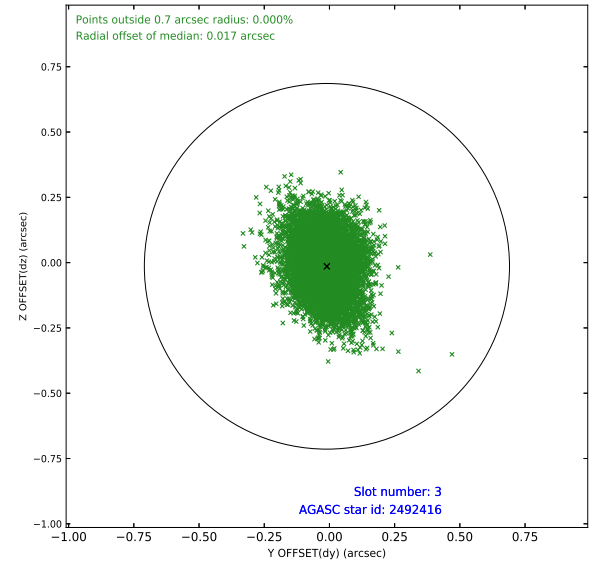
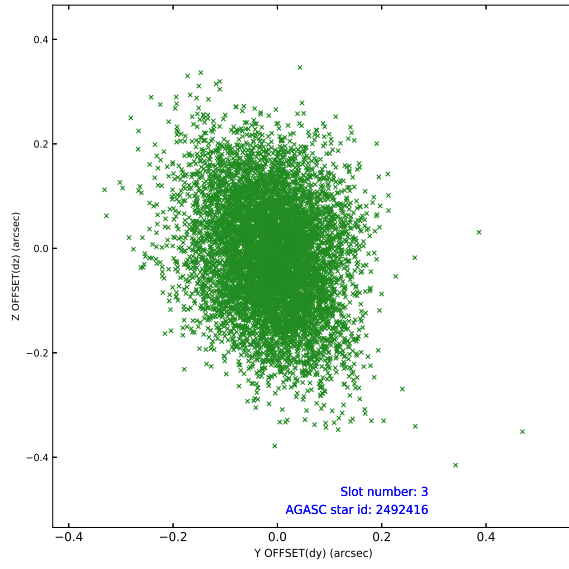


Slot Statistics

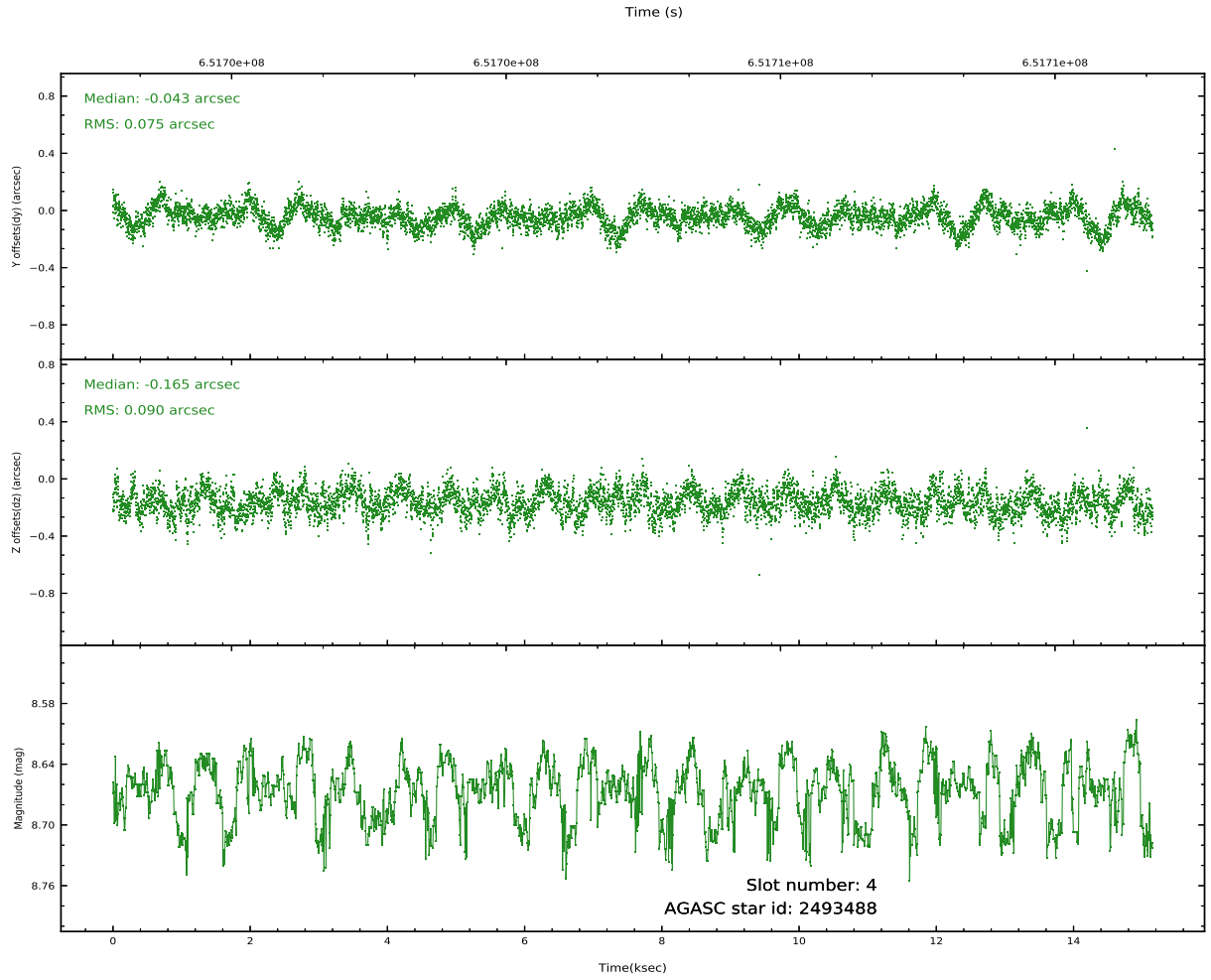
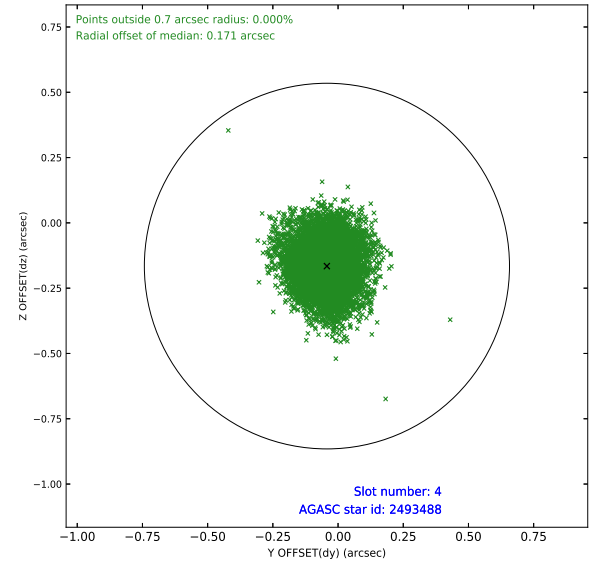
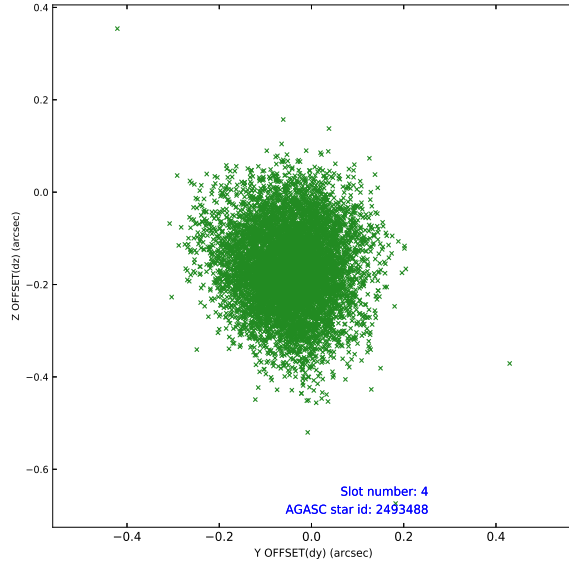
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.98	3696	1.000	0.067	0.047	0.022	0.040	0.000000	0.000000	-774.55	-1744
1	FID		ACIS-S-4	7.08	3693	1.000	0.031	-0.085	0.022	0.038	0.000000	0.000000	2138.75	163
2	FID		ACIS-S-6	7.25	3695	1.000	-0.123	0.041	0.019	0.027	0.000000	0.000000	387.87	801
3	GUIDE	used	2492416	8.79	7388	1.000	-0.010	-0.014	0.139	0.230	16.803588	1.355176	667.44	176
4	GUIDE	used	2493488	8.66	7385	1.000	-0.043	-0.165	0.126	0.202	16.409472	1.201006	537.38	1694
5	GUIDE	used	2496872	8.81	7387	1.000	-0.048	0.191	0.124	0.204	16.933662	1.413437	735.71	-330
6	GUIDE	used	2500304	8.60	7391	1.000	0.103	-0.231	0.121	0.190	16.571799	1.448277	1225.54	882
7	GUIDE	used	2491536	8.97	7380	1.000	-0.010	0.216	0.150	0.237	17.184579	1.638899	1258.78	-1426

2.4 Star Slots

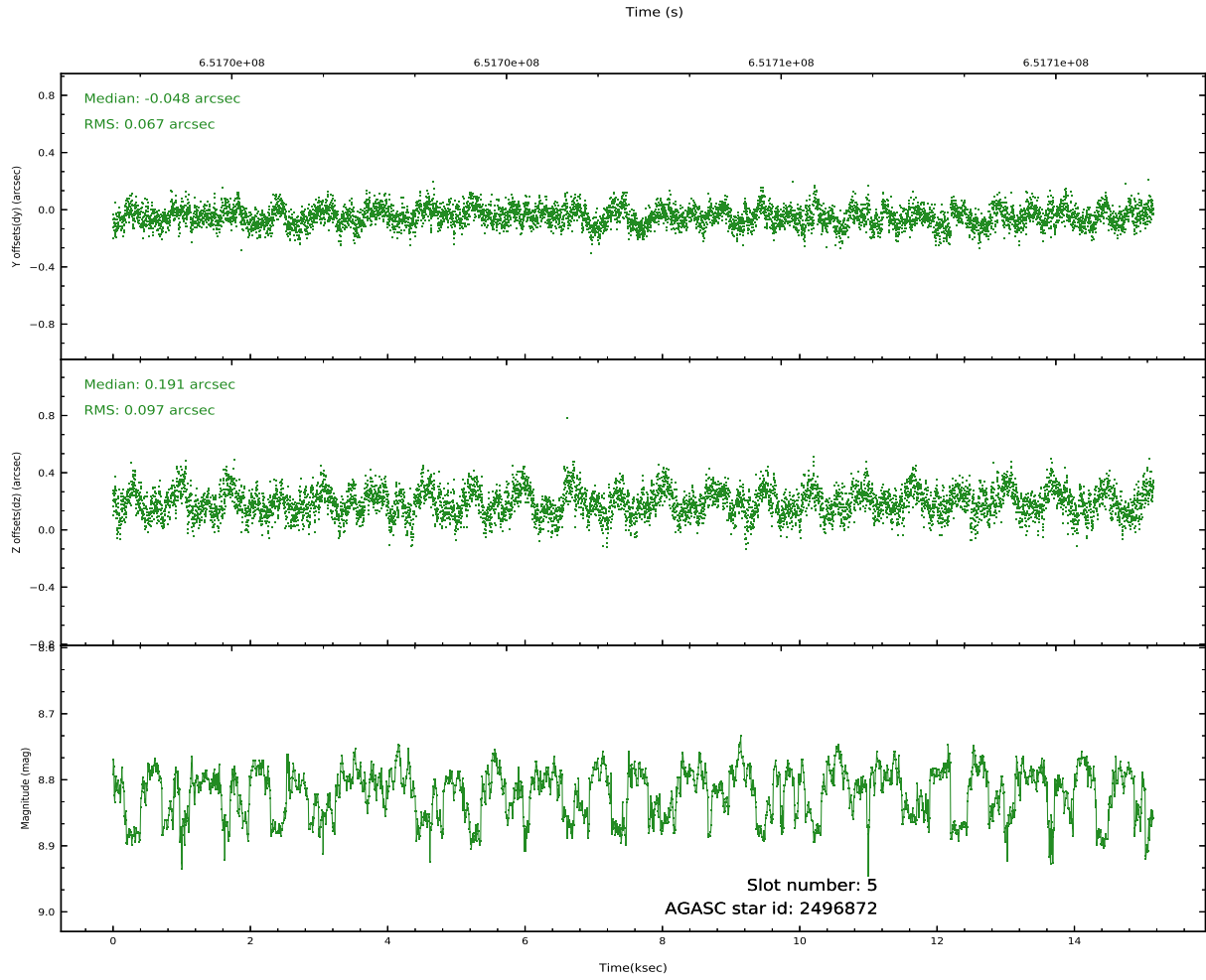
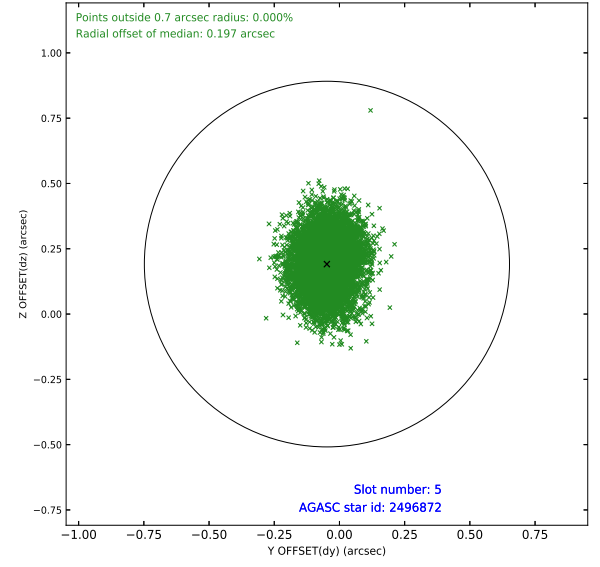
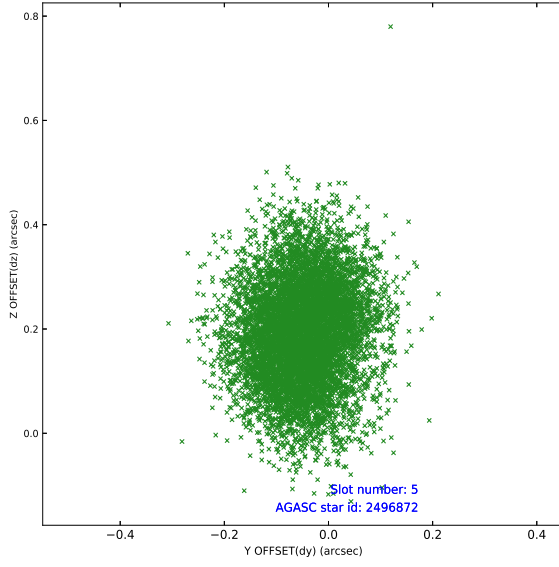
2.4.1 Slot 3



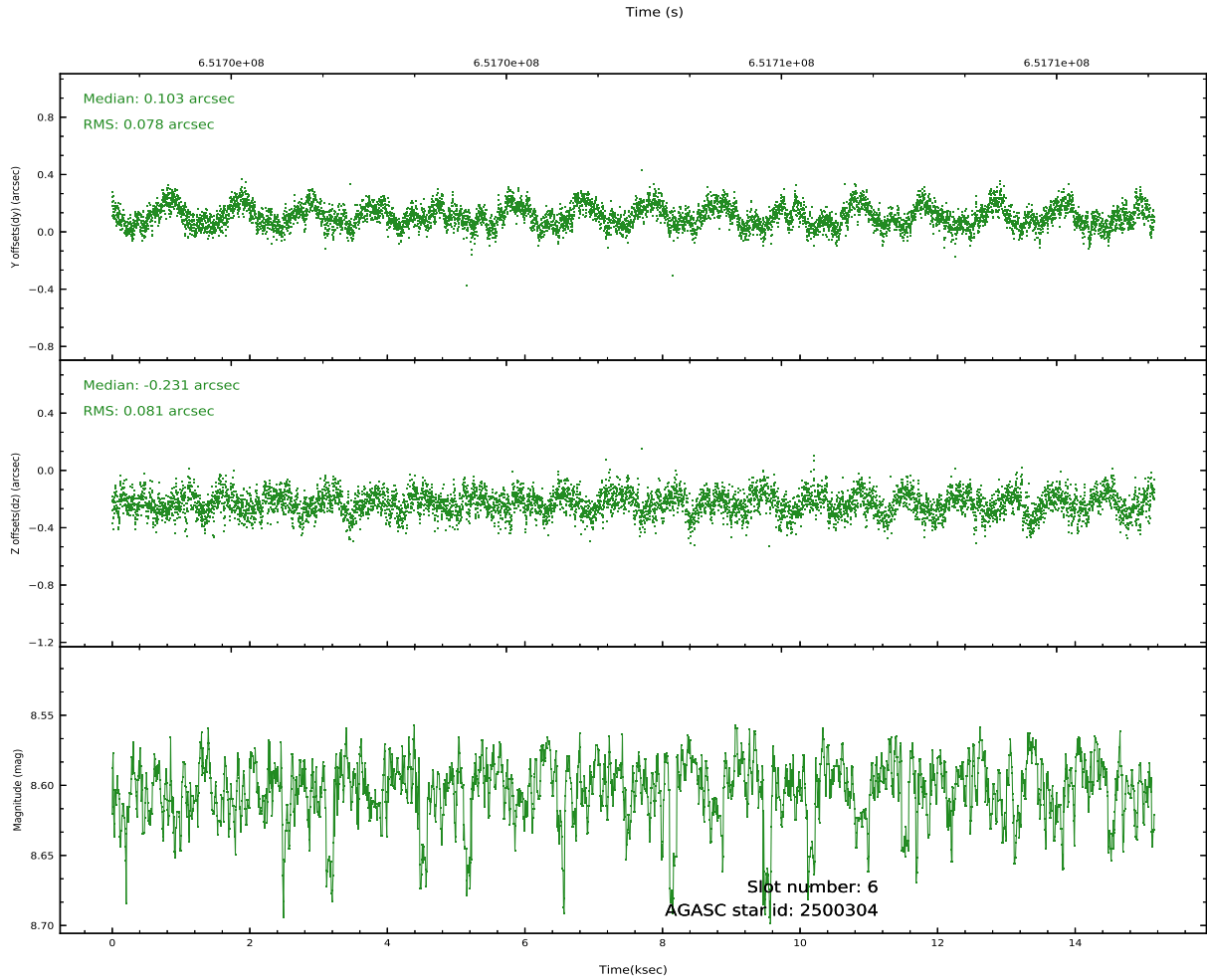
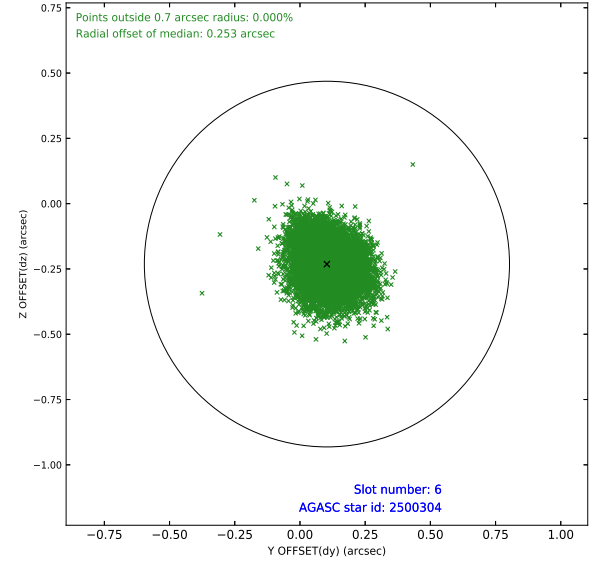
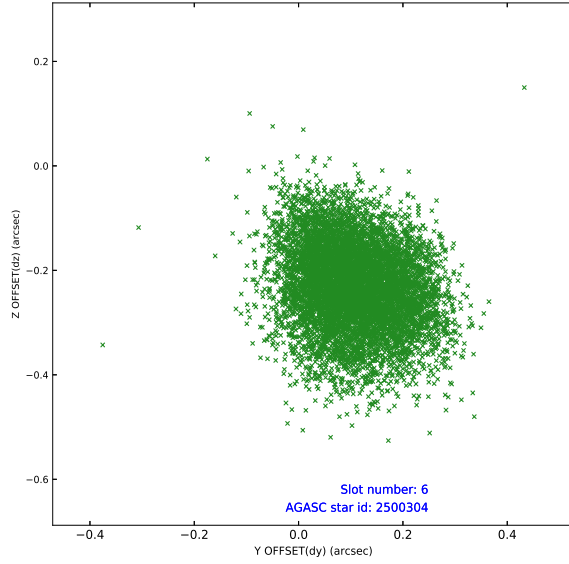
2.4.2 Slot 4



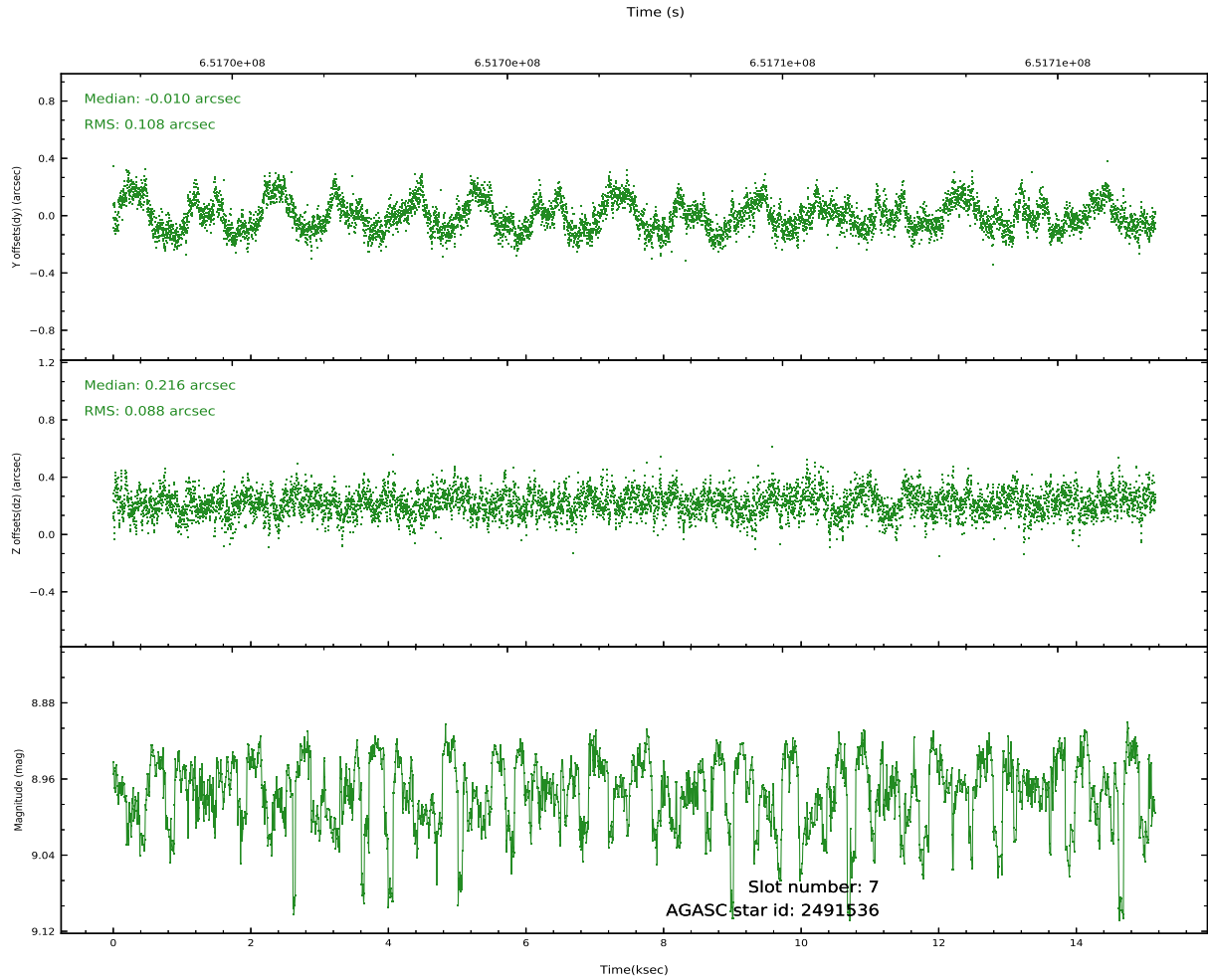
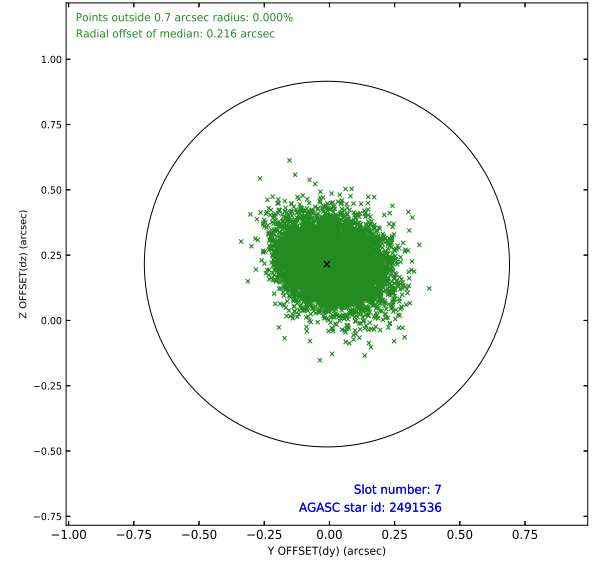
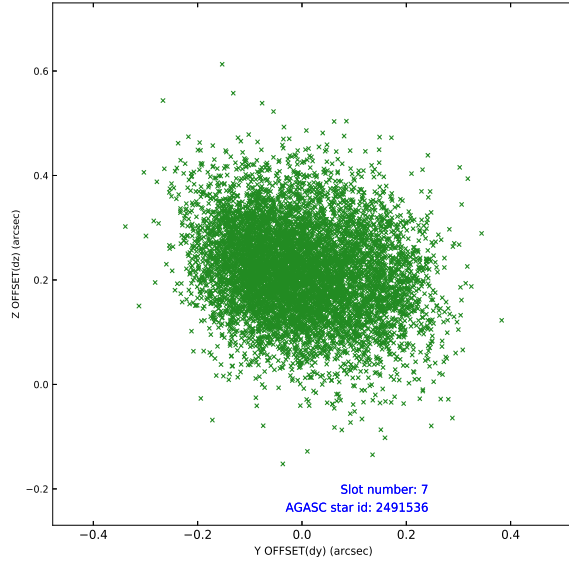
2.4.3 Slot 5



2.4.4 Slot 6

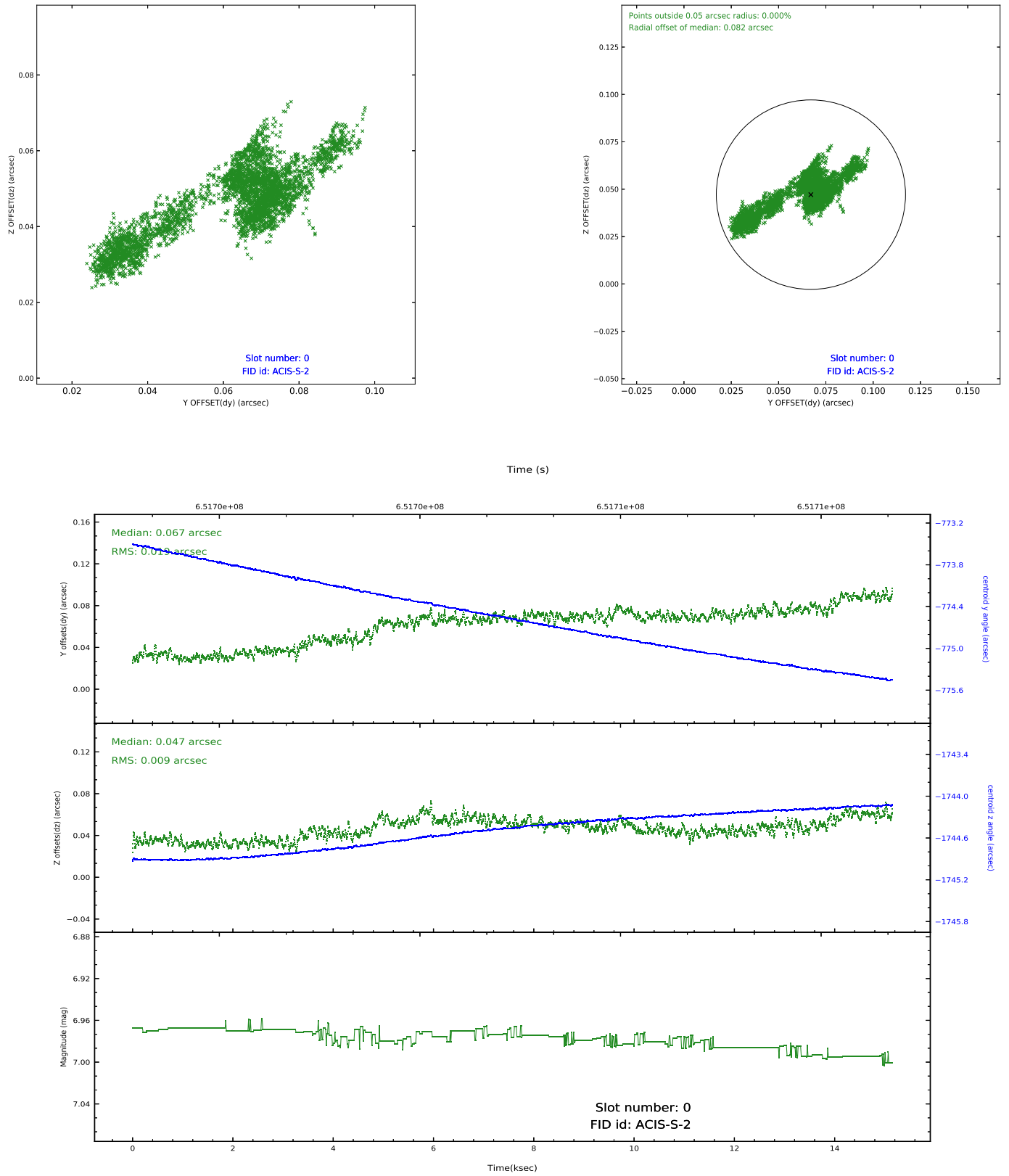


2.4.5 Slot 7

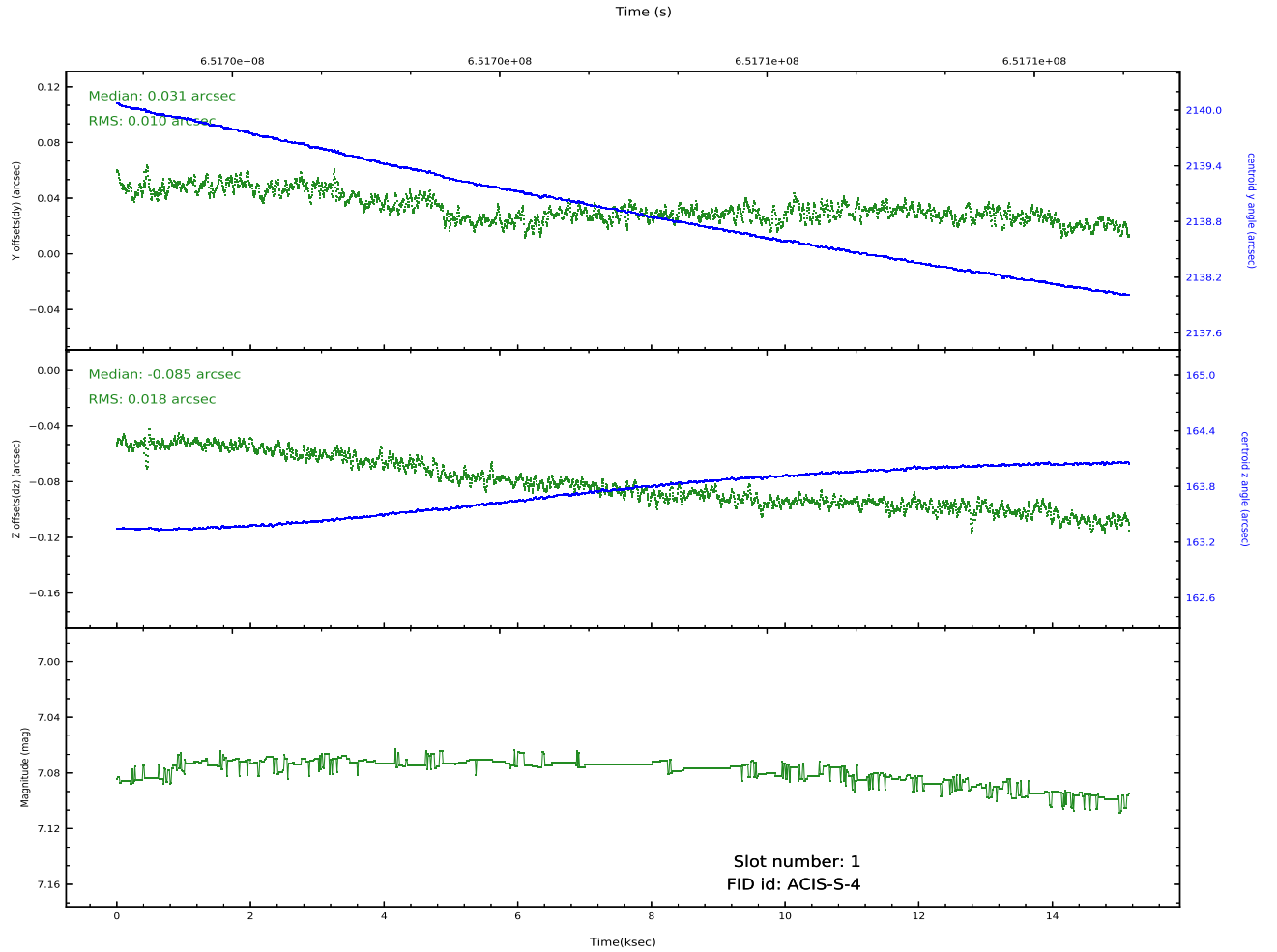
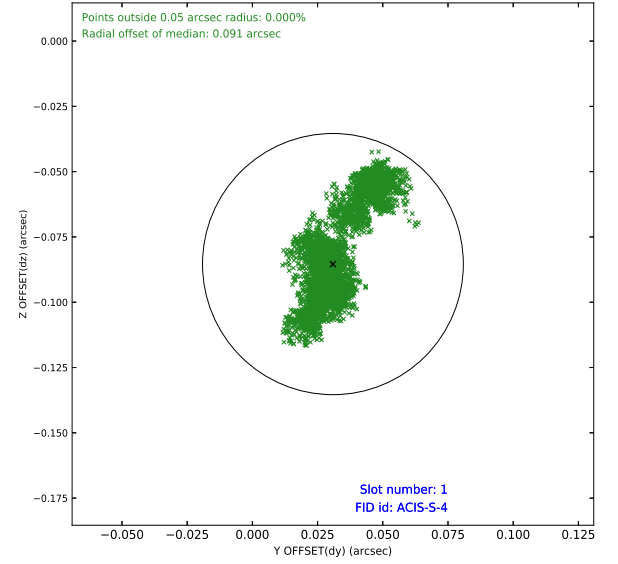
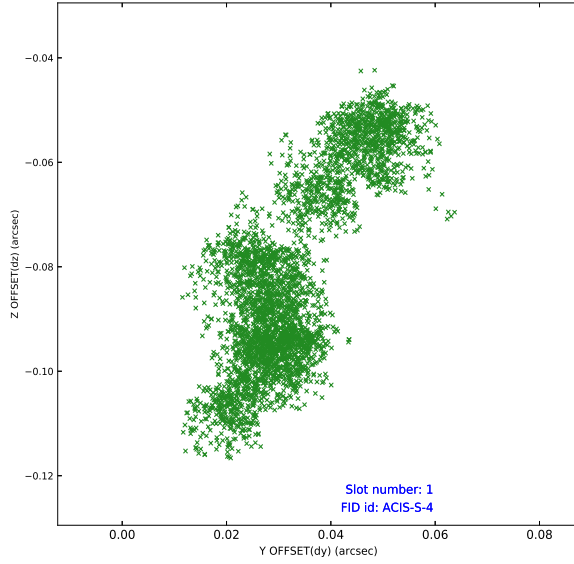


2.5 FID Slots

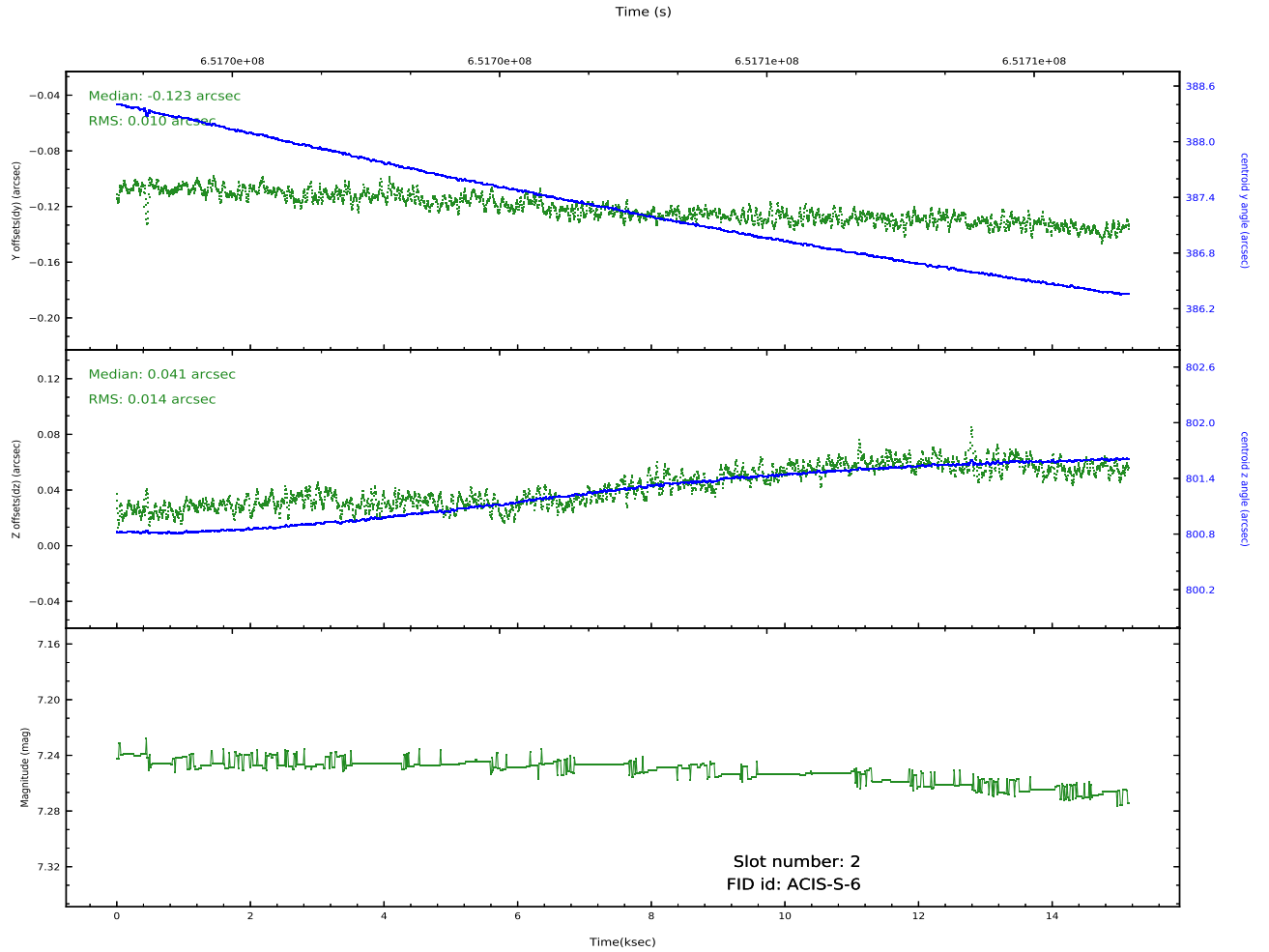
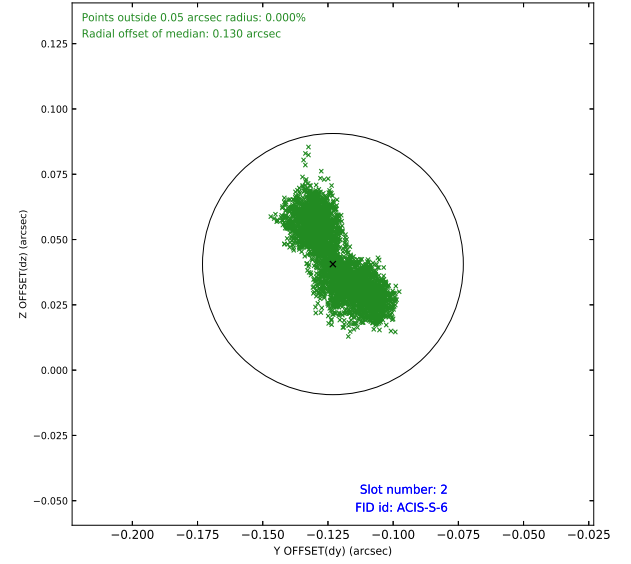
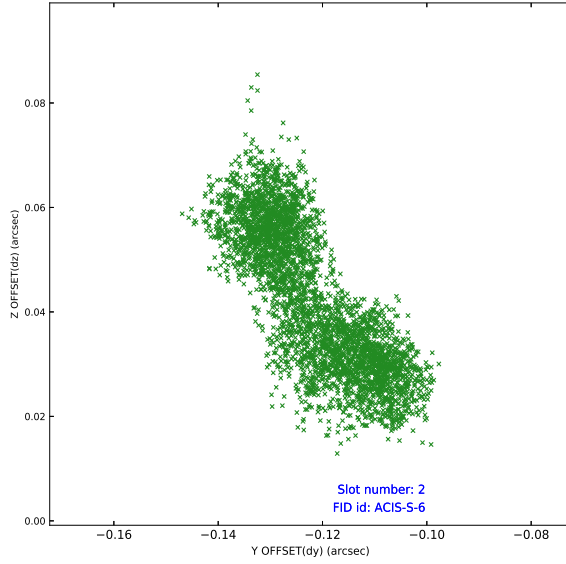
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.070301026583

A.2 Comments