

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 21028 - L2 Version 2
Chandra X-Ray Center

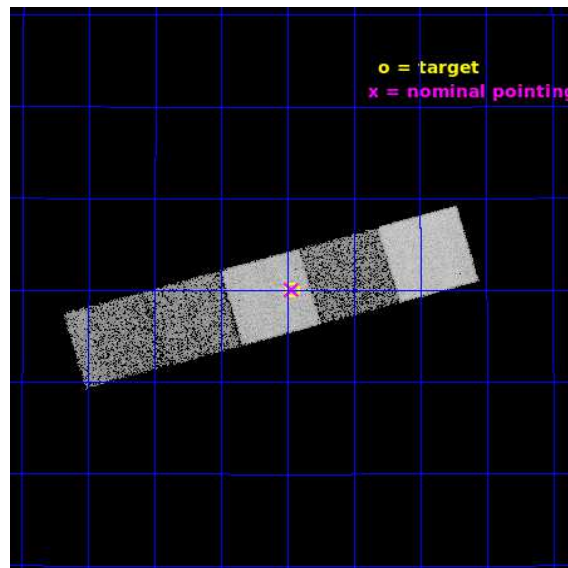
L2 Processing Date : Oct 25 2020

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1 Front

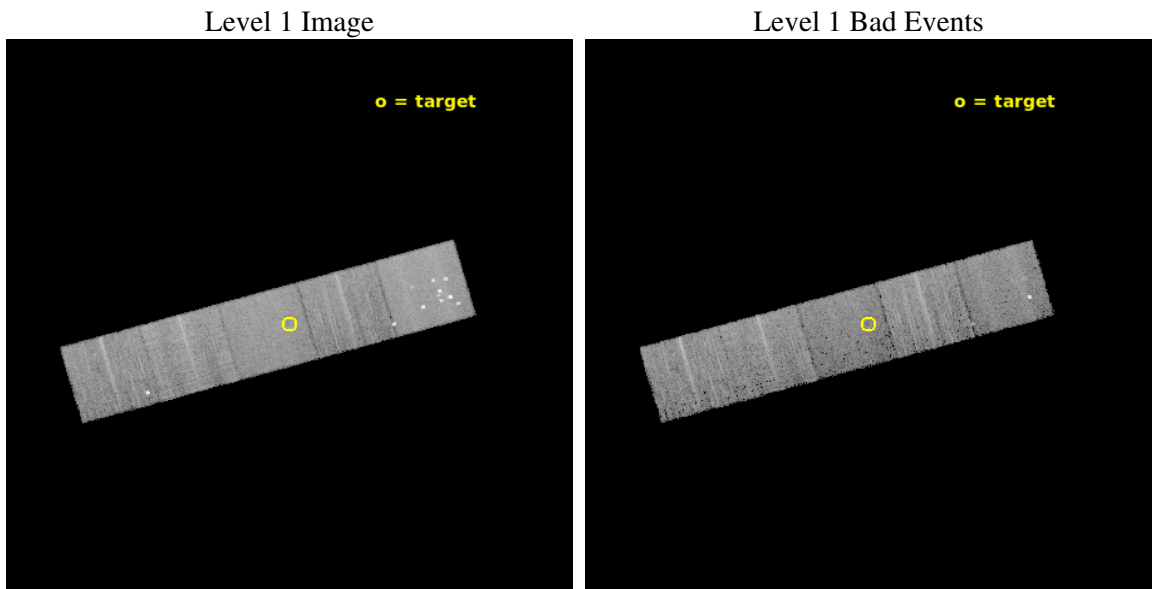
seq_num	703669	Sequence number
obs_id	21028	Observation id
title	LOW SURFACE BRIGHTNESS GALAXIES AND THE BLACK HOLE OCCUPATION FRACTION	Proposal title
observer	Elena Gallo	Principal investigator
object	UGC 09927	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	234.115833	Observer's specified target RA [deg]
dec_targ	22.5005	Observer's specified target Dec [deg]
ra_nom	234.11663481953	Nominal RA [deg]
dec_nom	22.501270842137	Nominal Dec [deg]
roll_nom	164.02525423213	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7650.7196259499	Sum of GTIs [s]
livetime	7550.757341659	Livetime [s]
ontime5	7650.6785860062	Sum of GTIs [s]
ontime6	7650.6375459433	Sum of GTIs [s]
ontime7	7650.7196259499	Sum of GTIs [s]
ontime8	7650.5965059996	Sum of GTIs [s]
ontime9	7650.5554659367	Sum of GTIs [s]
l2events	89021	Number of level 2 events



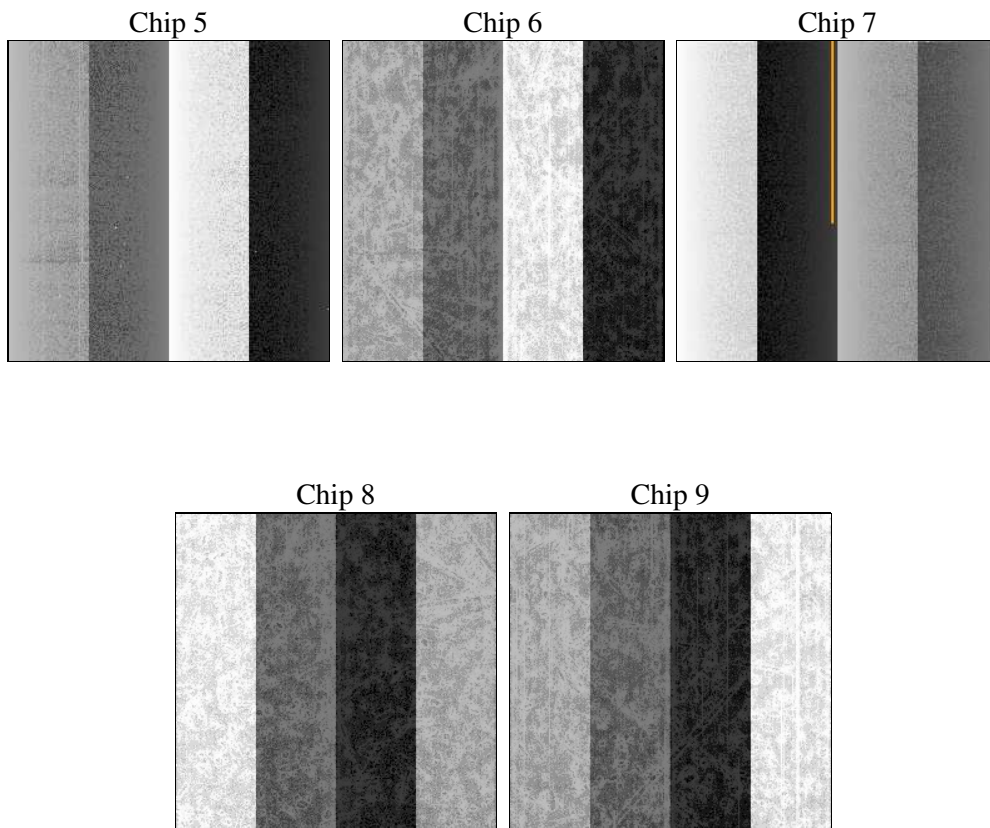
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7600.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	7650.7196259499	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	7650.6785860062	Sum of GTIs [s]
date	2020-10-25T21:06:01	Date and time of file creation	ontime6	7650.6375459433	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	7650.7196259499	Sum of GTIs [s]
			ontime8	7650.5965059996	Sum of GTIs [s]
			ontime9	7650.5554659367	Sum of GTIs [s]
			l1events	382040	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	107668	64170	73459	74302	62441
rejected events	51612	57672	42116	56216	53285
rejected %	47%	89%	57%	75%	85%

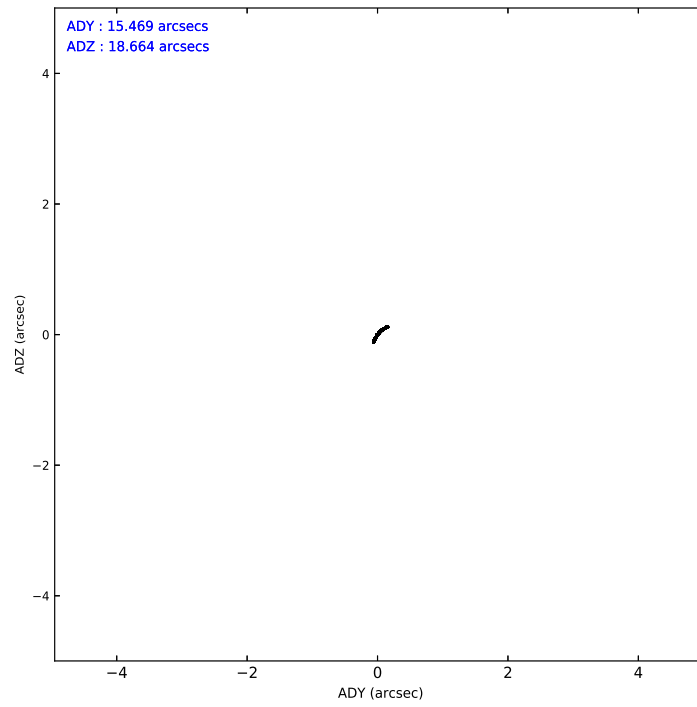
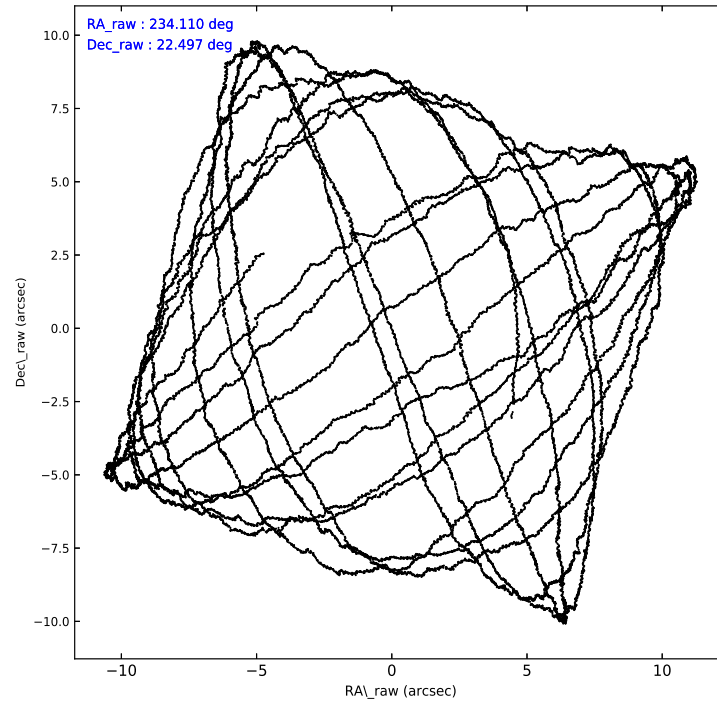
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	11157	1877	2598	4832	4678
	10%	2%	3%	6%	7%
grade 1 events	291	20	131	54	55
	0%	0%	0%	0%	0%
grade 2 events	16392	1797	6588	4707	1697
	15%	2%	8%	6%	2%
grade 3 events	1637	549	2466	1780	585
	1%	0%	3%	2%	0%
grade 4 events	2201	537	2317	1587	587
	2%	0%	3%	2%	0%
grade 5 events	6203	2359	6997	3863	2736
	5%	3%	9%	5%	4%
grade 6 events	24704	1745	17388	5181	1612
	22%	2%	23%	6%	2%
grade 7 events	45083	55286	34974	52298	50491
	41%	86%	47%	70%	80%

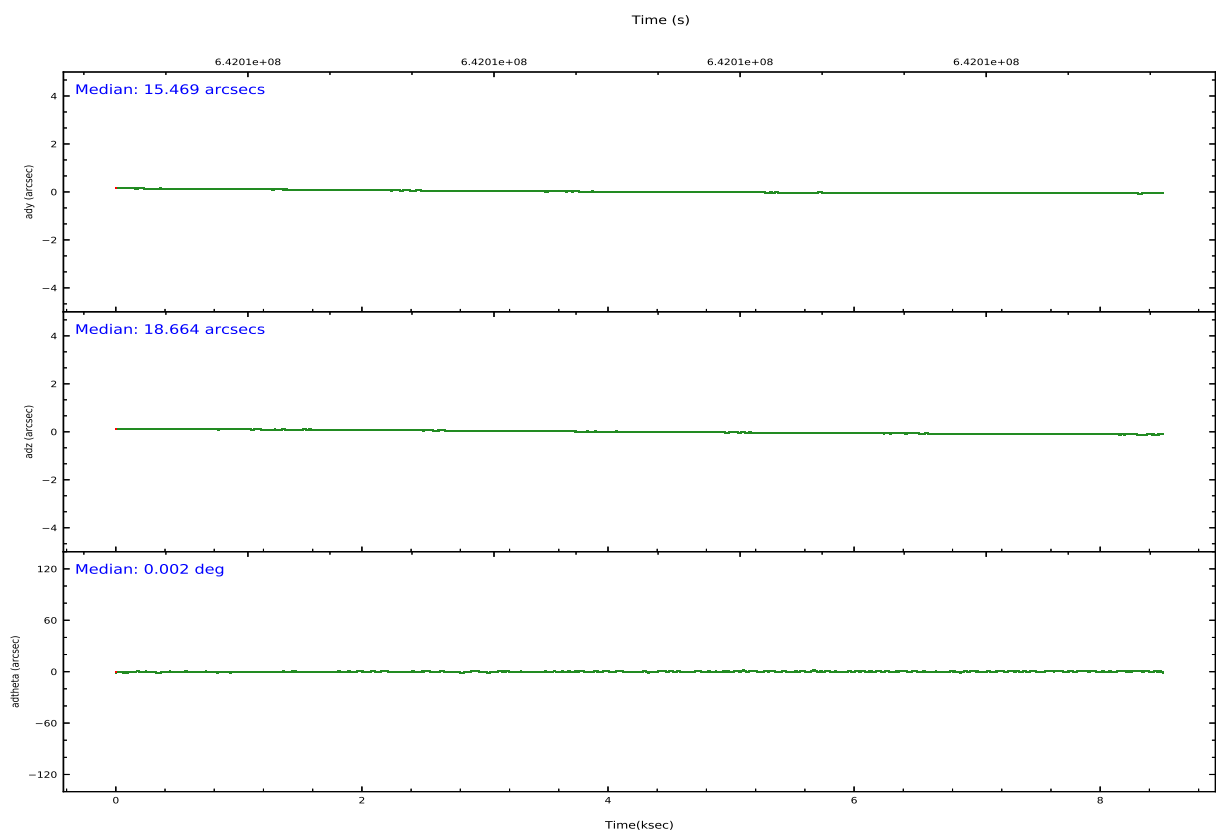
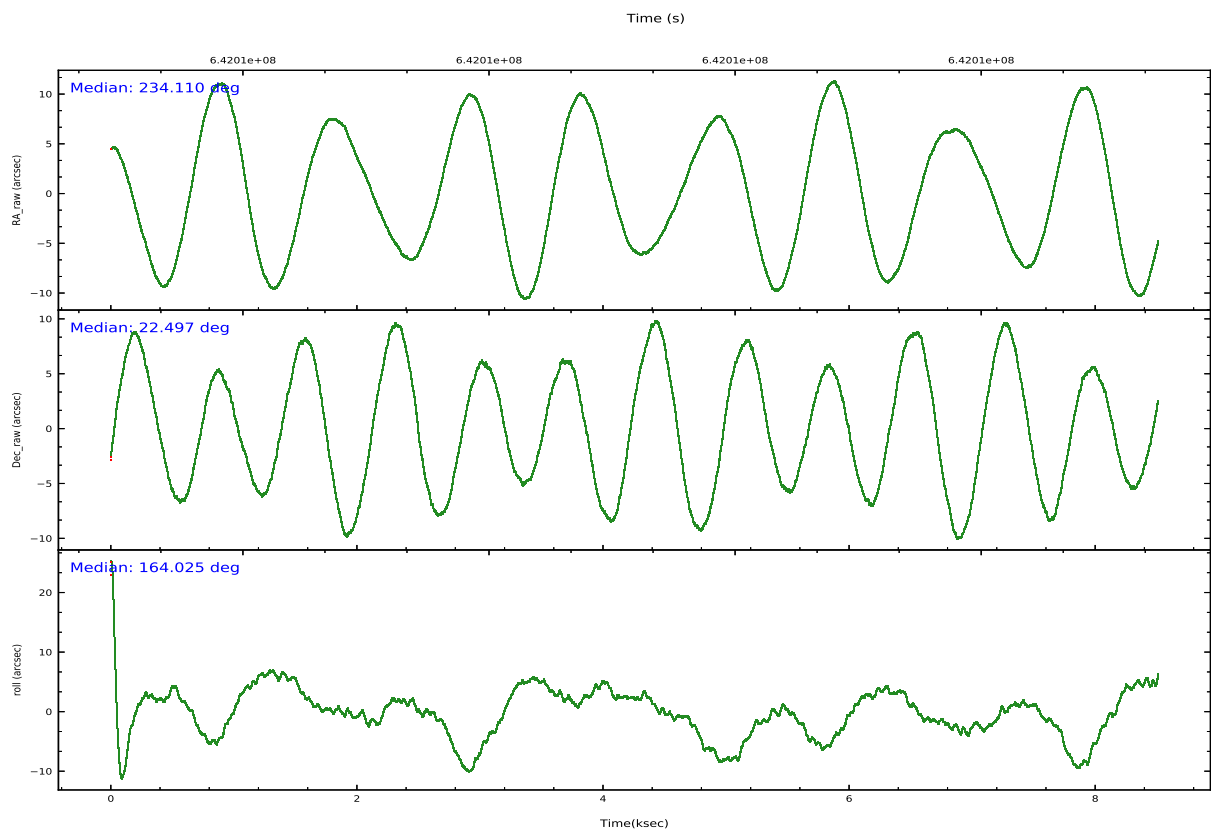
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-56789	ACIS-56789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	234.139149	234.11663481953
[deg] Pointing Dec	22.504341	22.501270842137
[deg] Pointing Roll	163.866825	164.02525423213
[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)	642005839.184000	642004533.39176
Observation start date	2018-05-06T14:56:10	2018-05-06T14:35:33
[s] Observation end time (MET)	642013439.184000	642014304.2048399
Observation end date	2018-05-06T17:02:50	2018-05-06T17:18:24
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	N	N
CCD I3 on	N	N
CCD S0 on	N	N
CCD S1 on	O1	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	O2	Y
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	3.1

2.3 Aspect



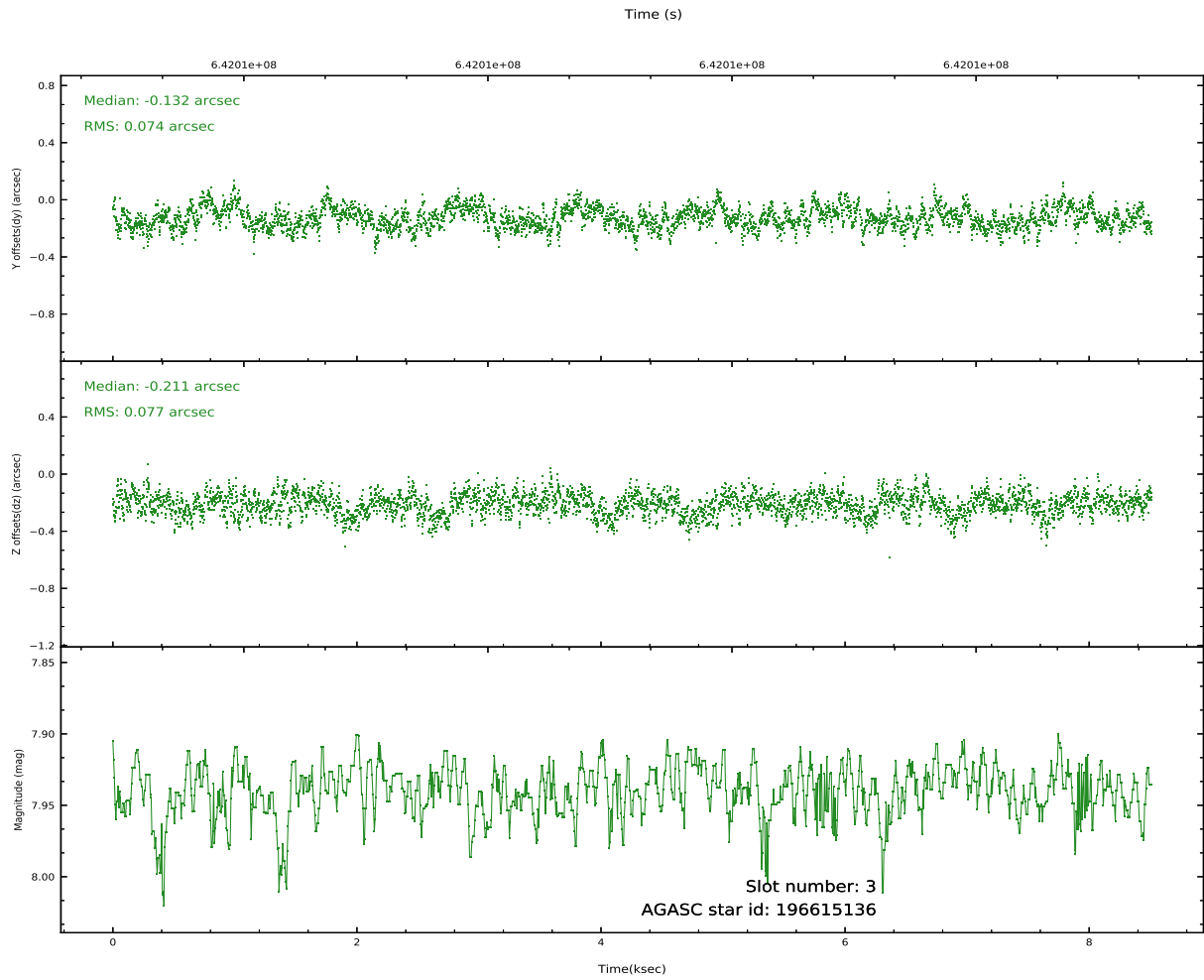
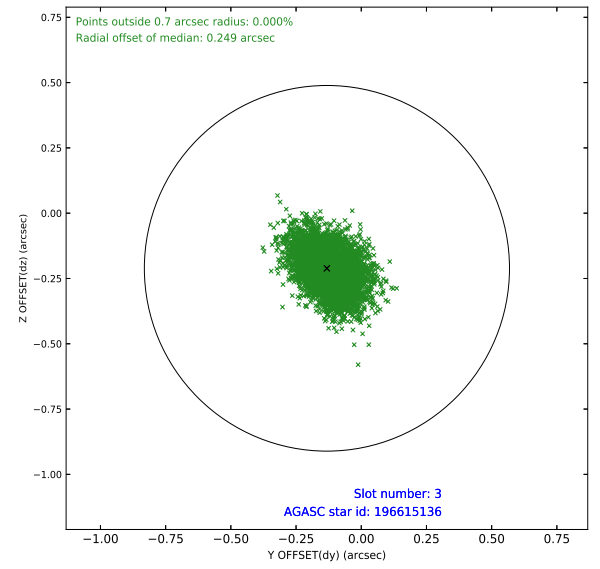
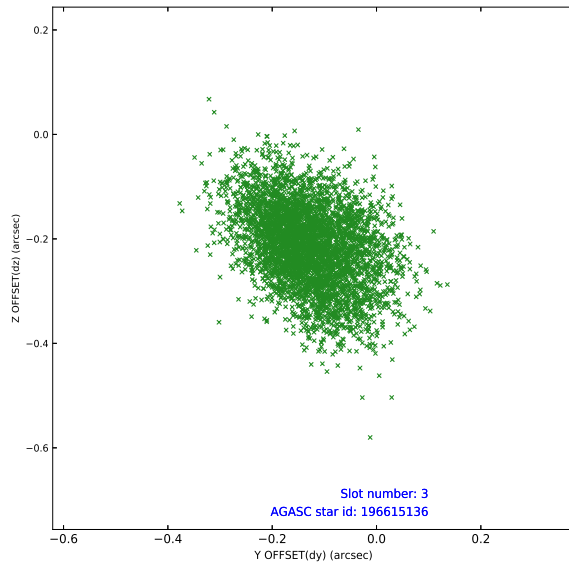


Slot Statistics

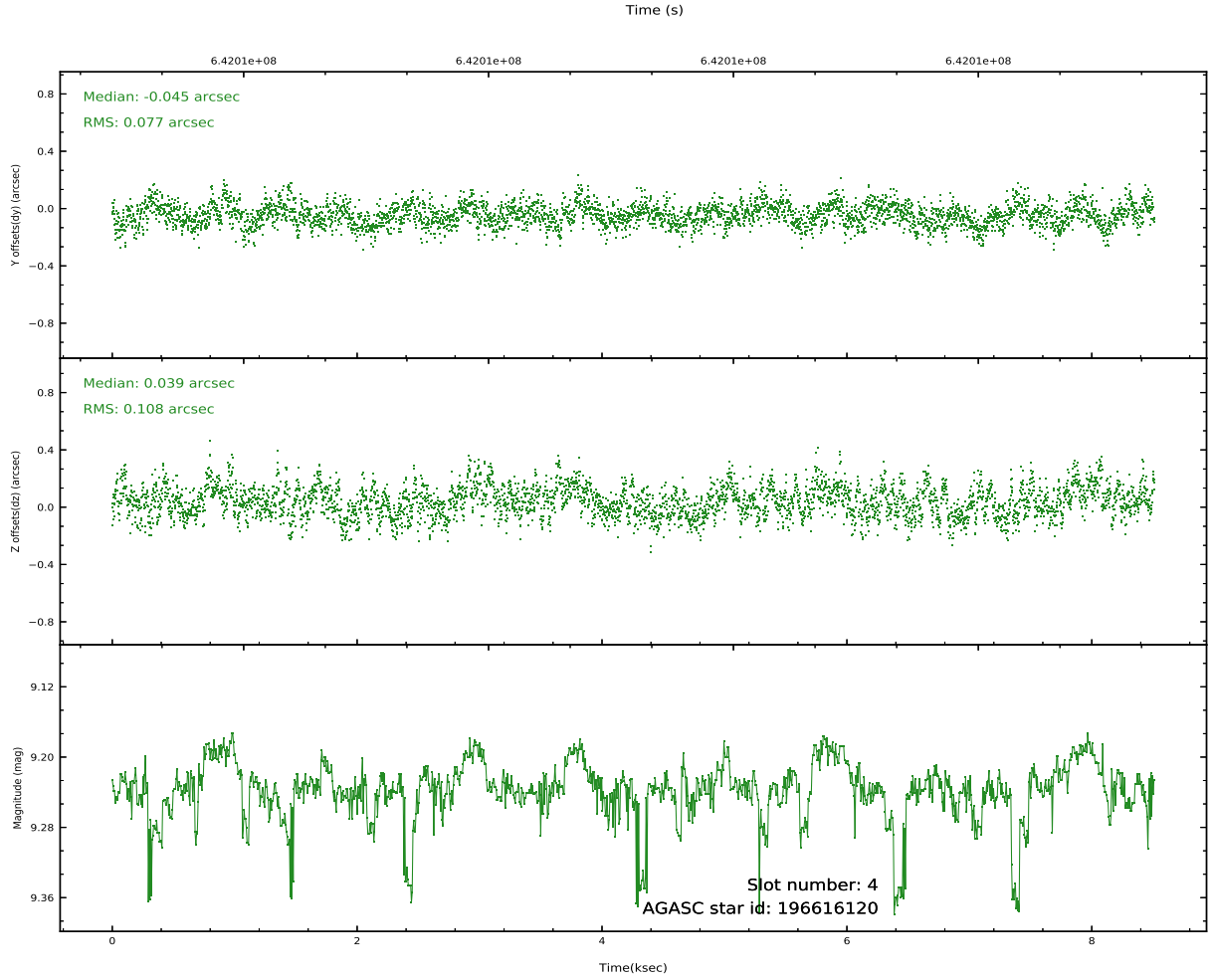
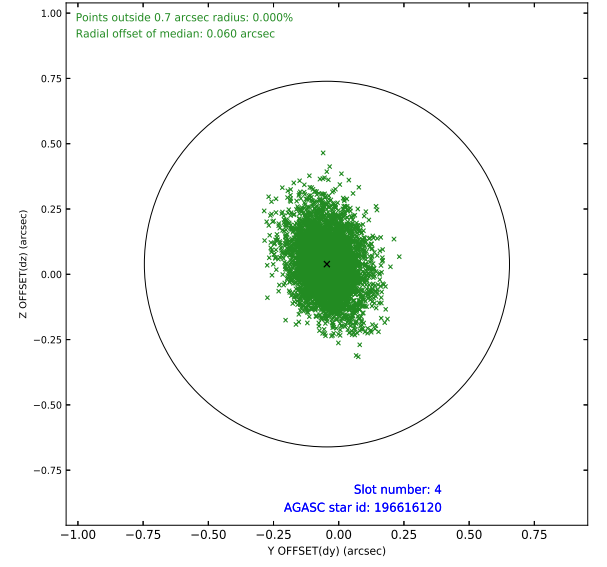
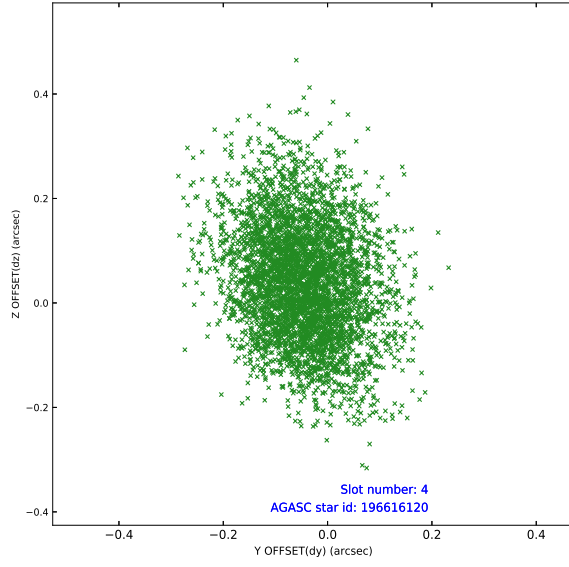
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	2077	1.000	0.082	-0.114	0.007	0.012	0.000000	0.000000	-768.59	-1740
1	FID		ACIS-S-4	7.22	2077	1.000	0.168	-0.008	0.005	0.010	0.000000	0.000000	2144.69	167
2	FID		ACIS-S-5	7.20	2077	1.000	-0.281	0.132	0.007	0.012	0.000000	0.000000	-1820.75	162
3	GUIDE	used	196615136	7.94	4151	1.000	-0.132	-0.211	0.113	0.186	233.838984	22.487569	942.68	334
4	GUIDE	used	196616120	9.24	4149	1.000	-0.045	0.039	0.139	0.231	234.158557	22.129689	-436.69	1277
5	GUIDE	used	265563712	8.95	4148	1.000	-0.023	0.010	0.142	0.237	234.196399	22.842714	155.56	-1222
6	GUIDE	used	266477840	7.26	4151	1.000	0.030	0.050	0.131	0.213	234.603048	22.674976	-1307.89	-1020
7	GUIDE	used	266479088	8.68	4151	1.000	0.174	0.117	0.118	0.197	234.713490	22.928599	-1401.10	-1998

2.4 Star Slots

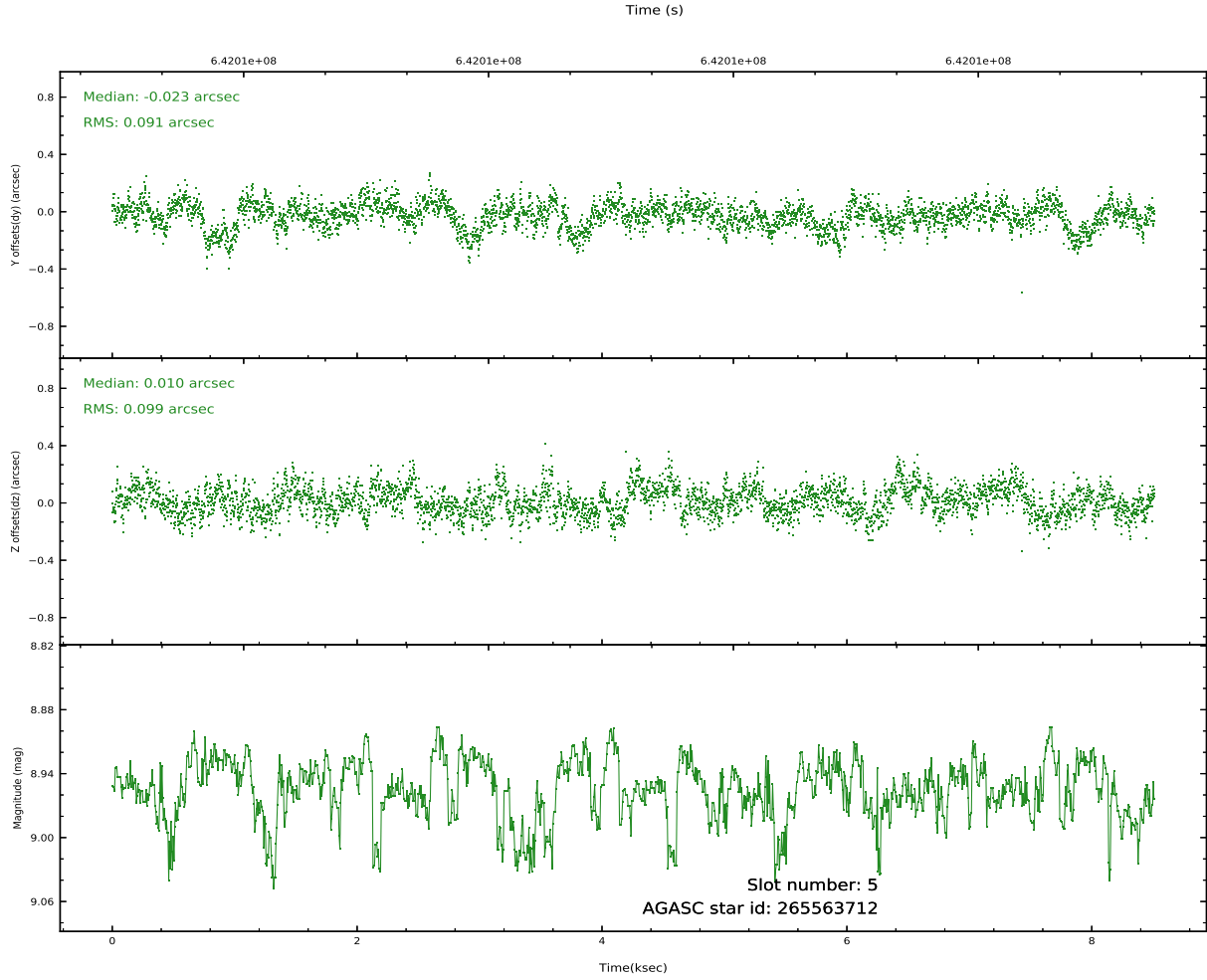
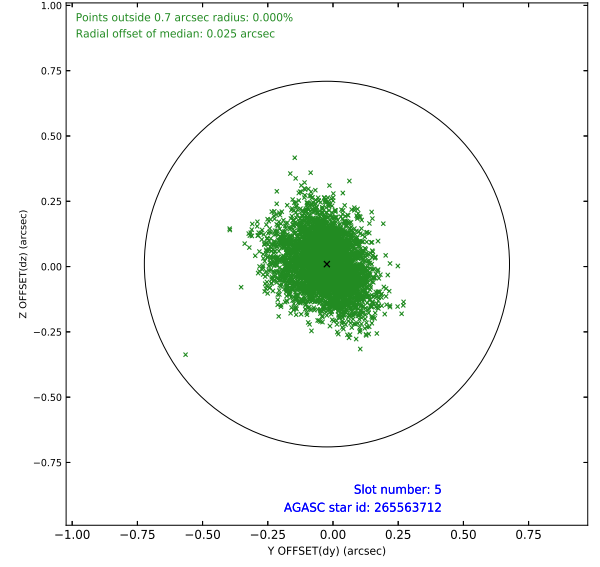
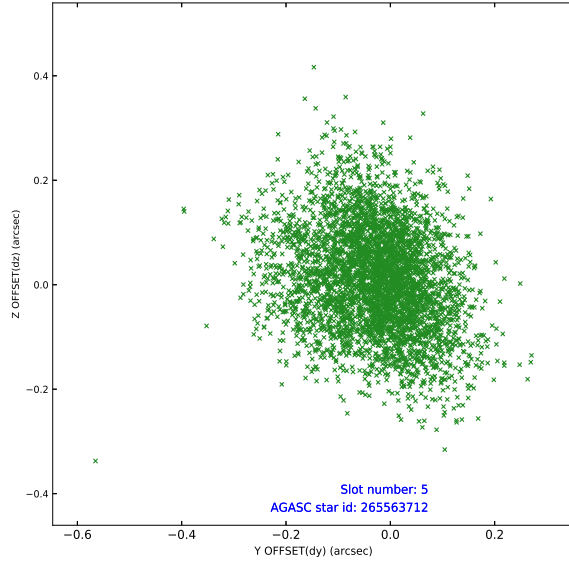
2.4.1 Slot 3



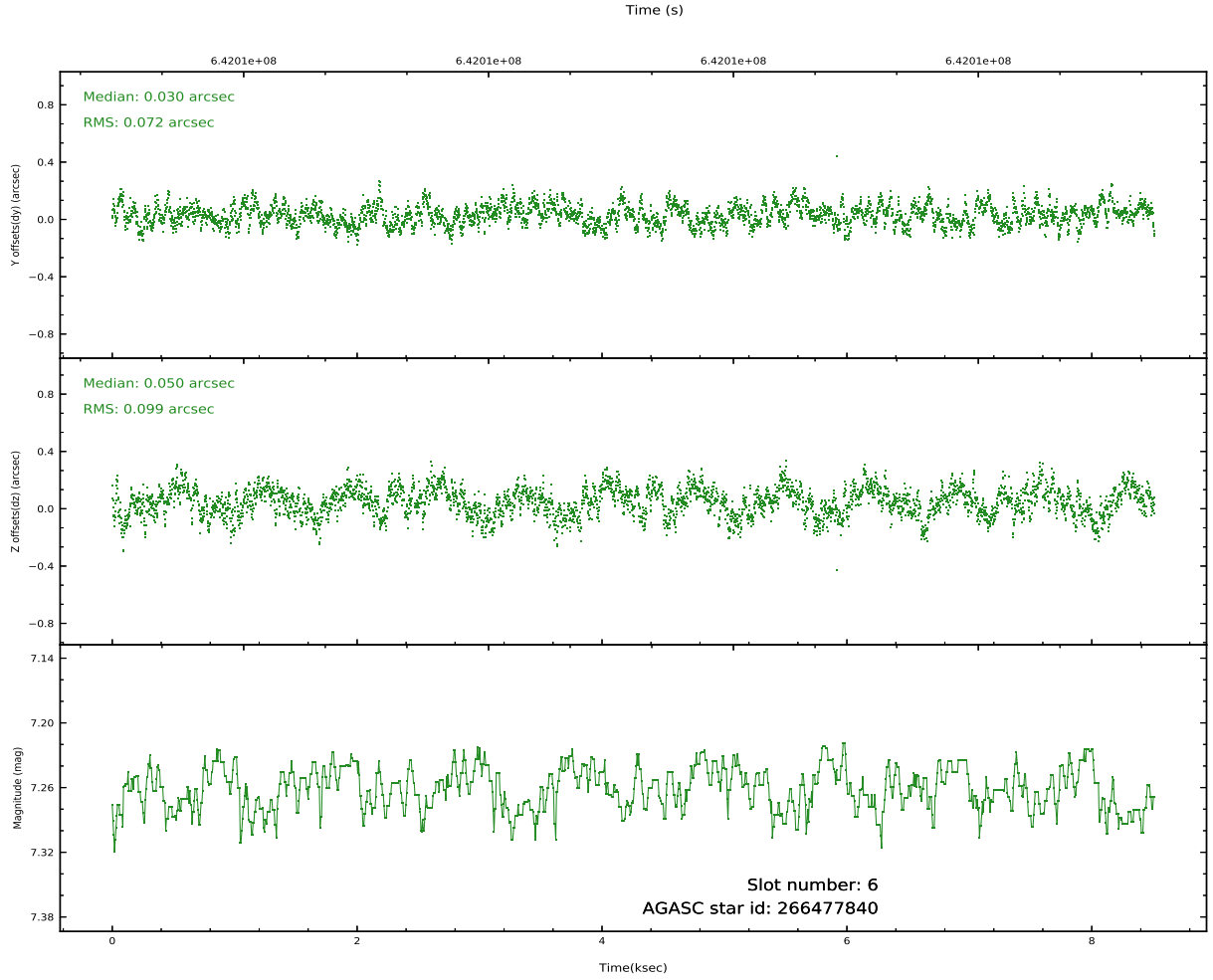
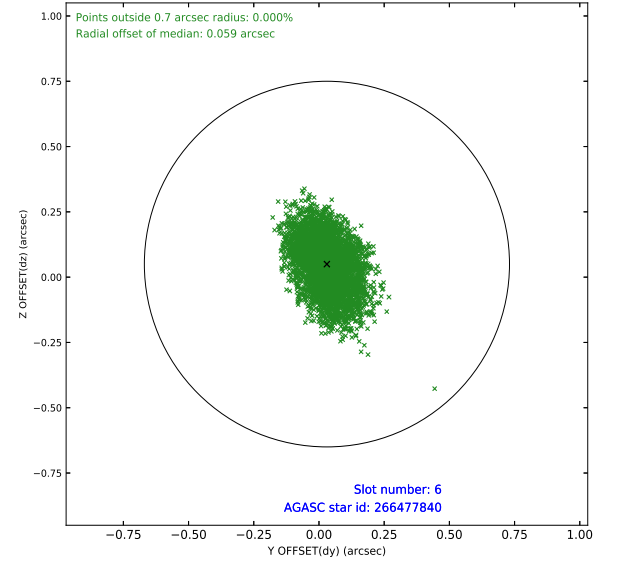
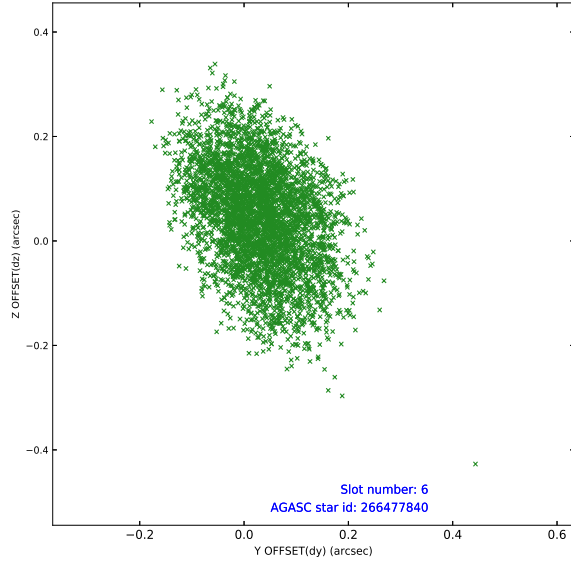
2.4.2 Slot 4



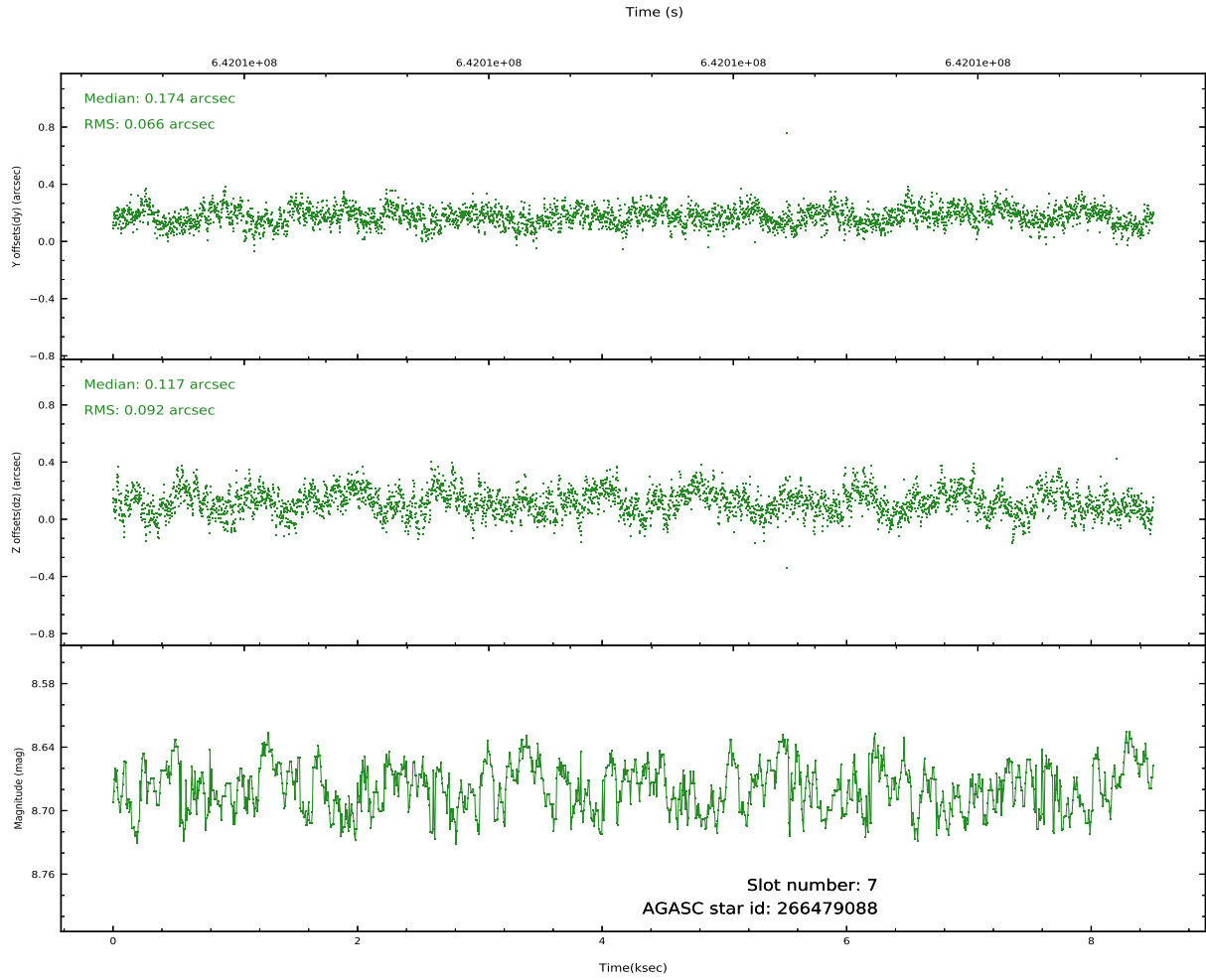
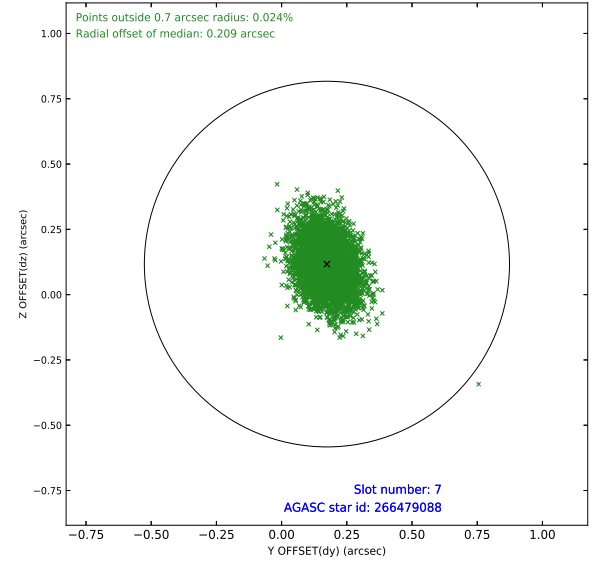
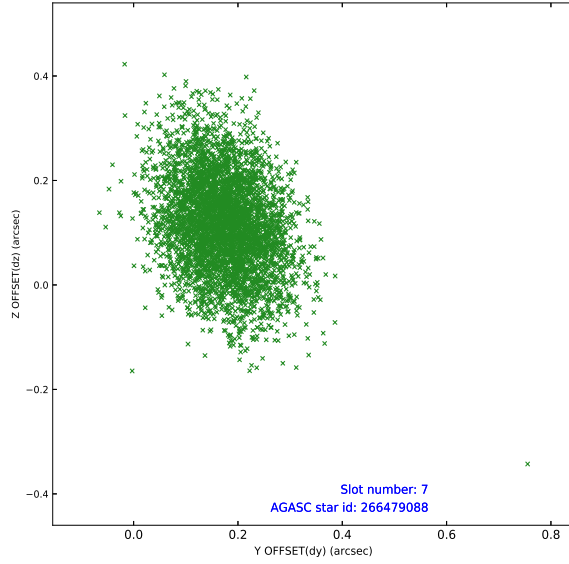
2.4.3 Slot 5



2.4.4 Slot 6

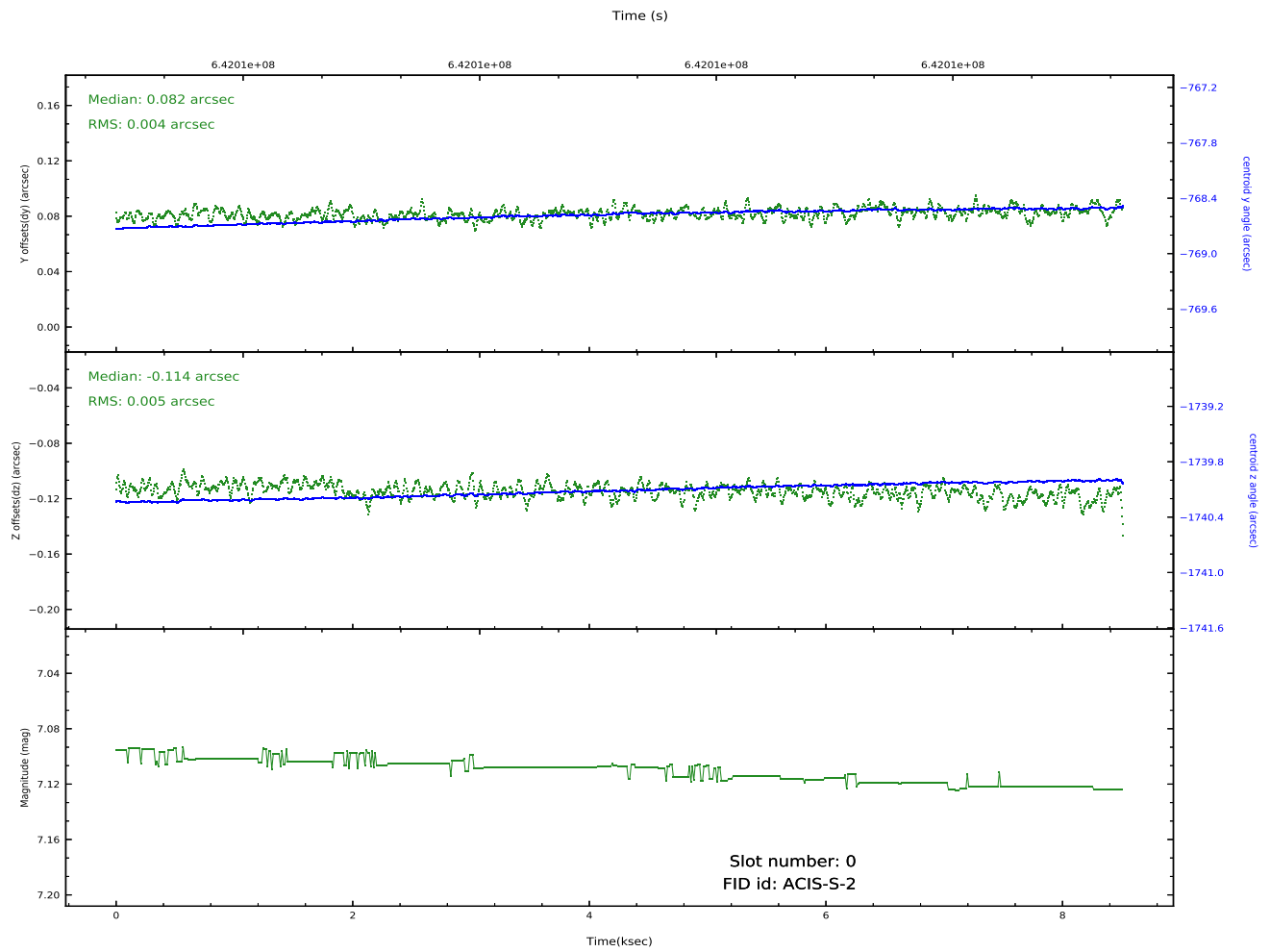
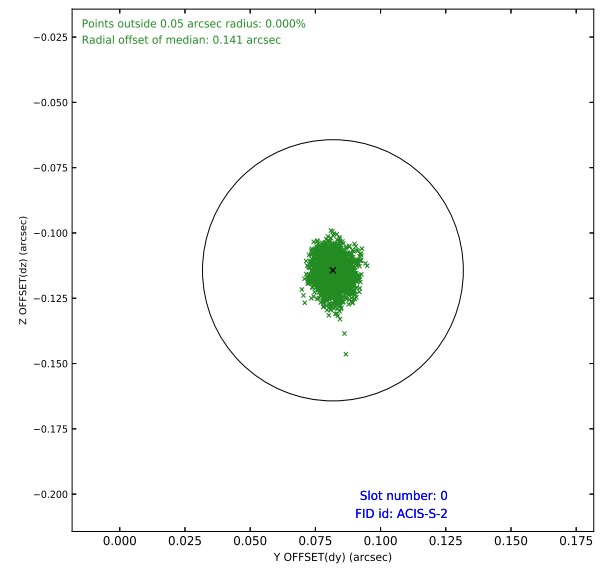
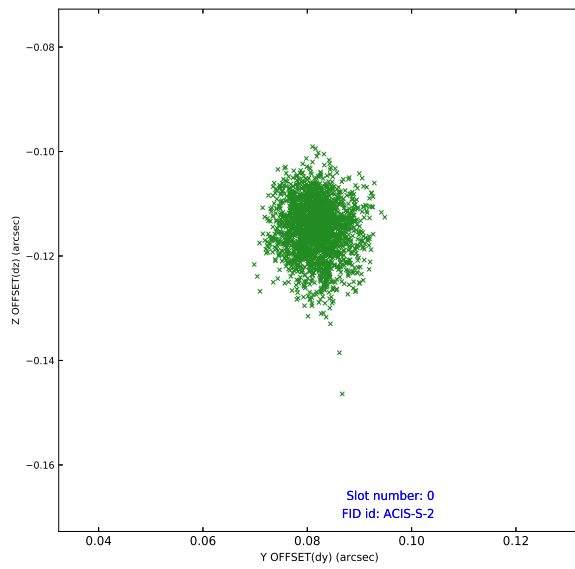


2.4.5 Slot 7

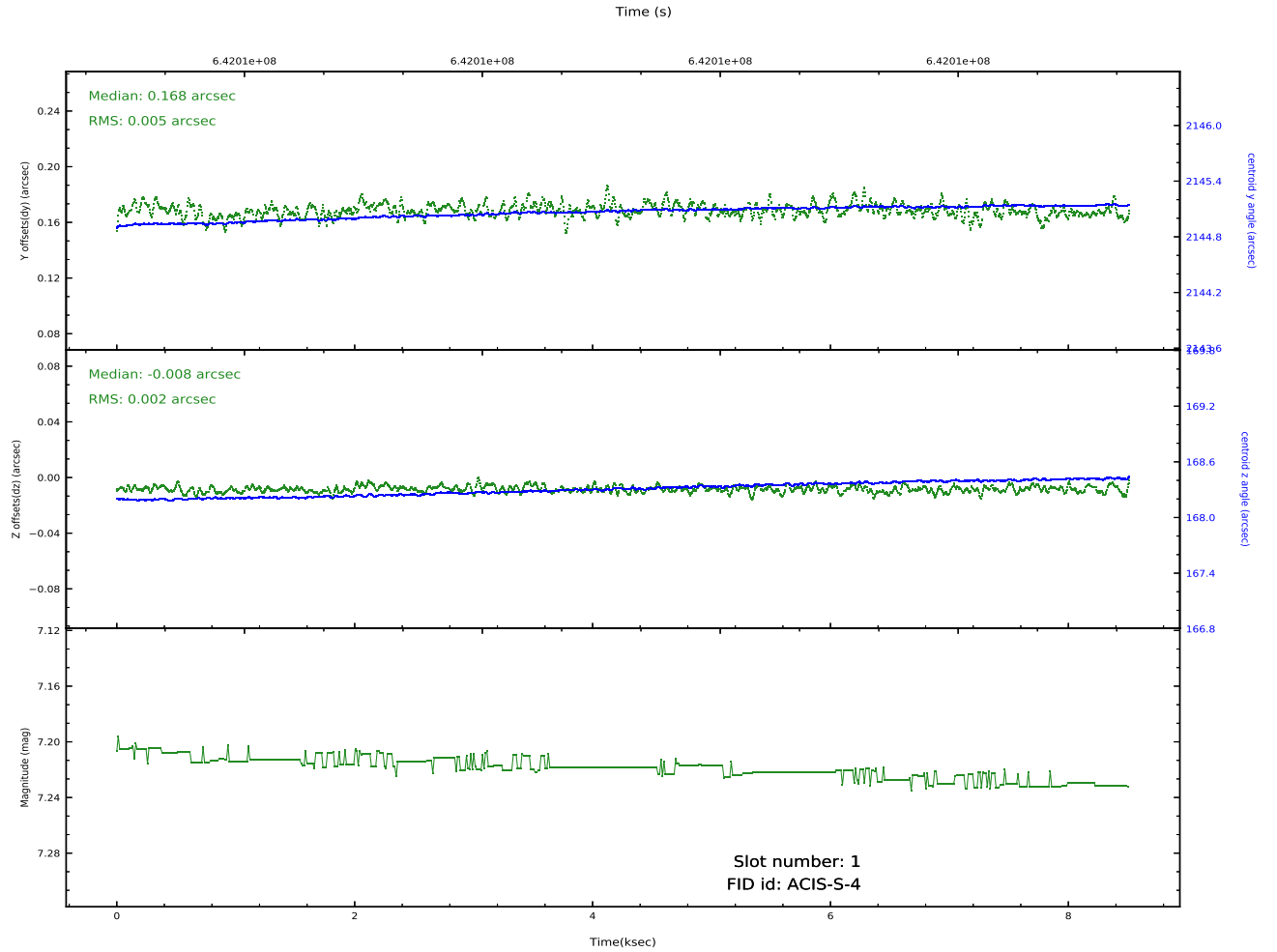
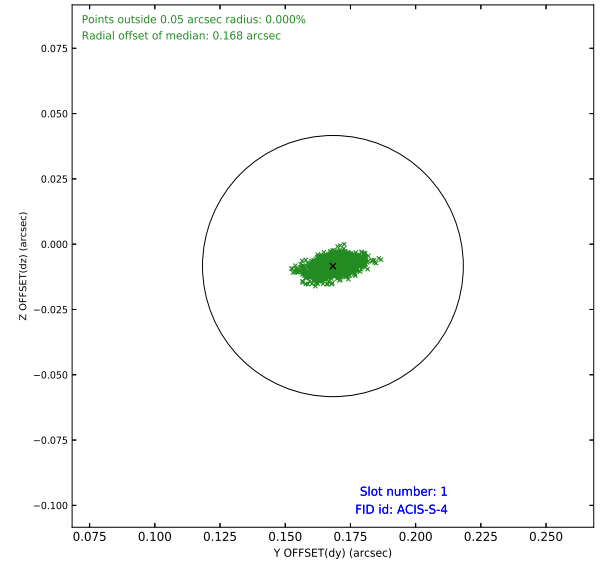
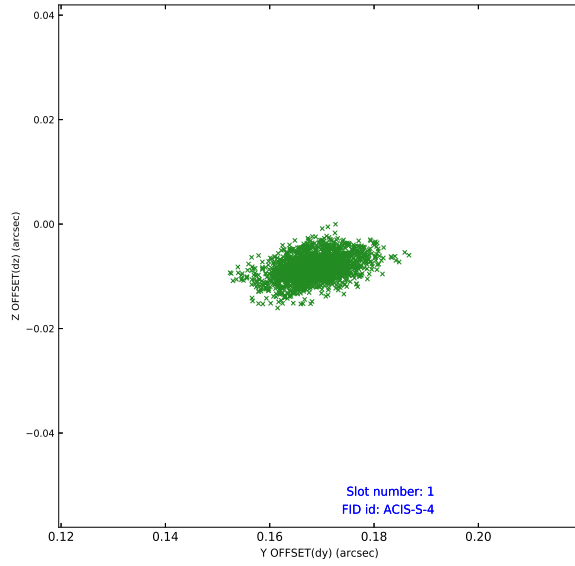


2.5 FID Slots

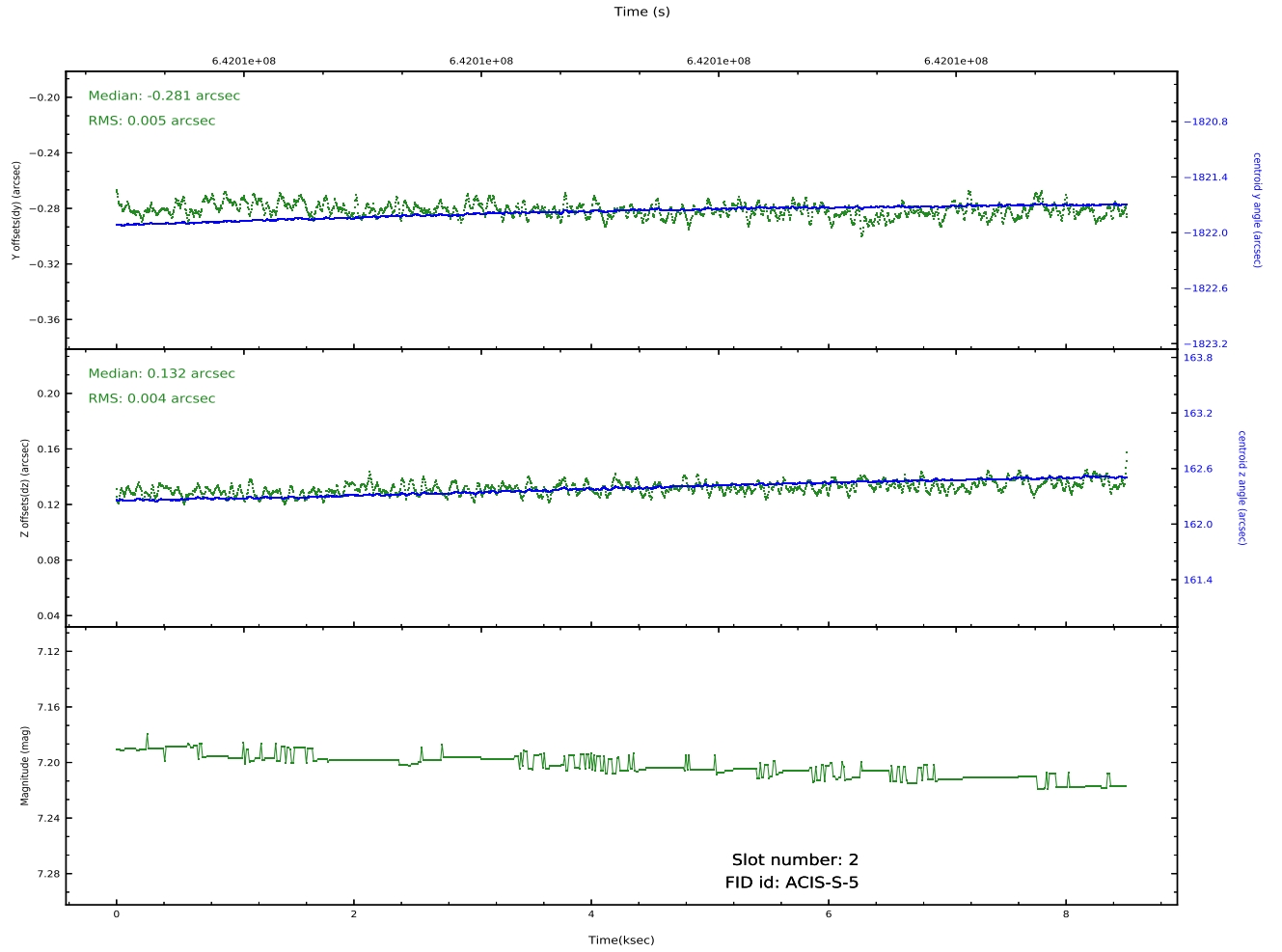
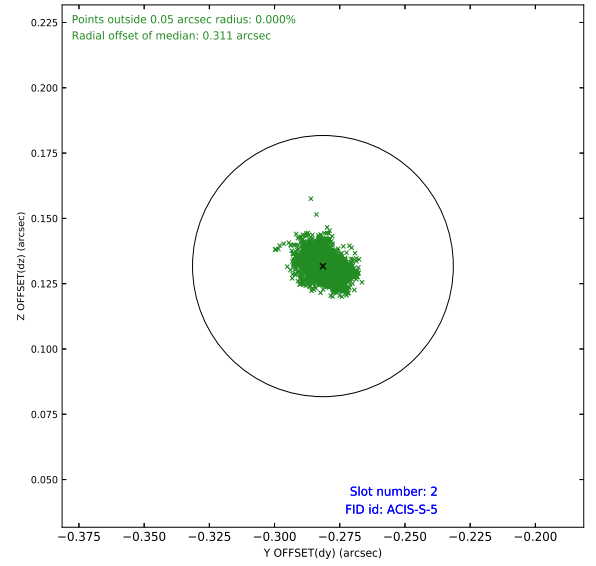
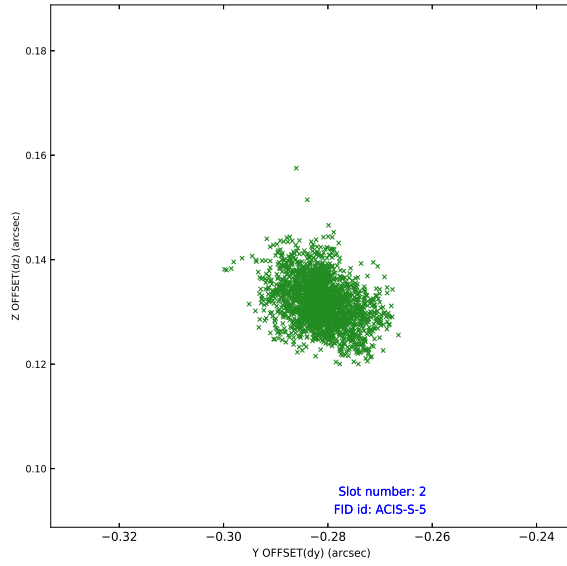
2.5.1 Slot 0



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	7.6507196235657

A.2 Comments