

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20462 - L2 Version 2
Chandra X-Ray Center

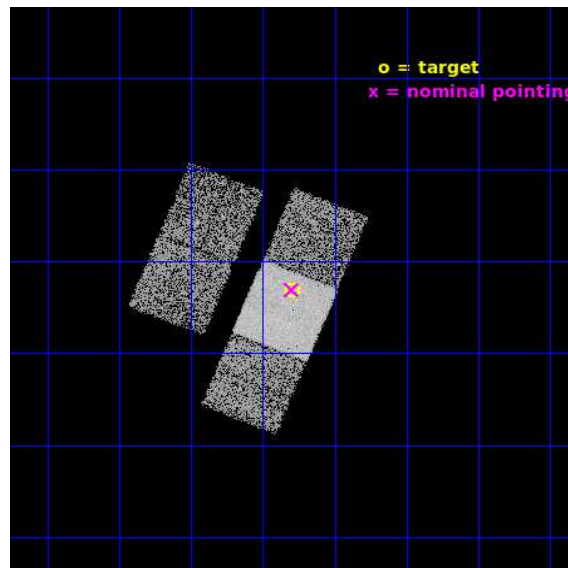
L2 Processing Date : Oct 25 2020

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1 Front

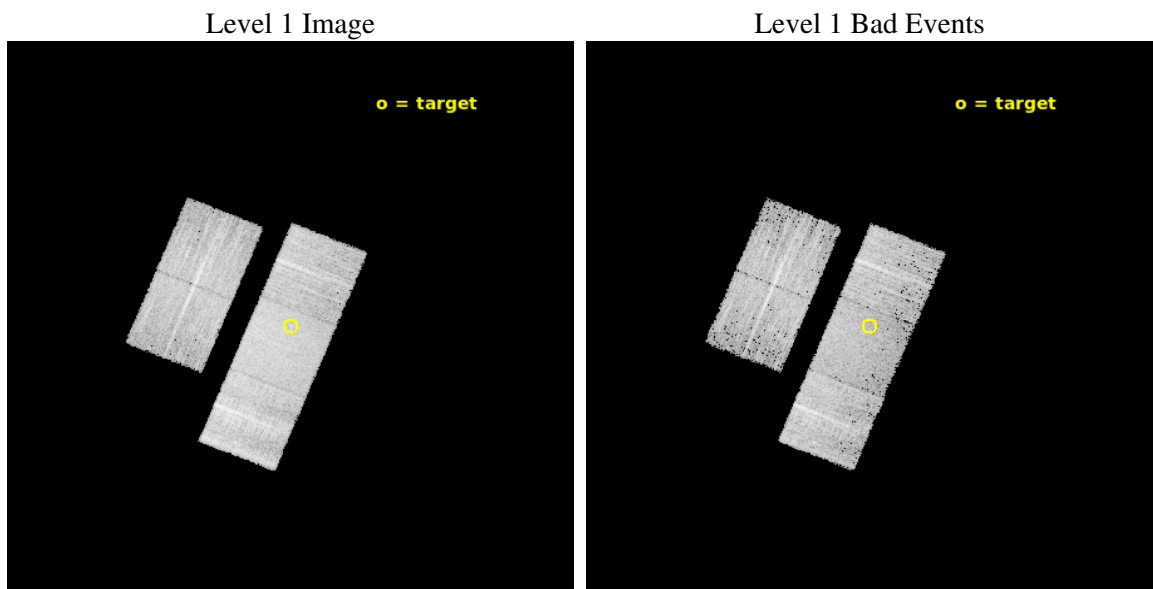
seq_num	703565	Sequence number
obs_id	20462	Observation id
title	Understanding AGN Accretion State Transitions with a Statistical Sample of Changing-Look Quasars	Proposal title
observer	John Ruan	Principal investigator
object	SDSS J233317.38-002303.5	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	353.3225	Observer's specified target RA [deg]
dec_targ	-0.384306	Observer's specified target Dec [deg]
ra_nom	353.3245349829	Nominal RA [deg]
dec_nom	-0.3842766015277	Nominal Dec [deg]
roll_nom	112.25586545774	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7057.8647837639	Sum of GTIs [s]
livetime	6965.6485844395	Livetime [s]
ontime2	7057.7006237507	Sum of GTIs [s]
ontime3	7054.641733408	Sum of GTIs [s]
ontime6	7057.8237438202	Sum of GTIs [s]
ontime7	7057.8647837639	Sum of GTIs [s]
ontime8	7057.7416638136	Sum of GTIs [s]
l2events	49233	Number of level 2 events



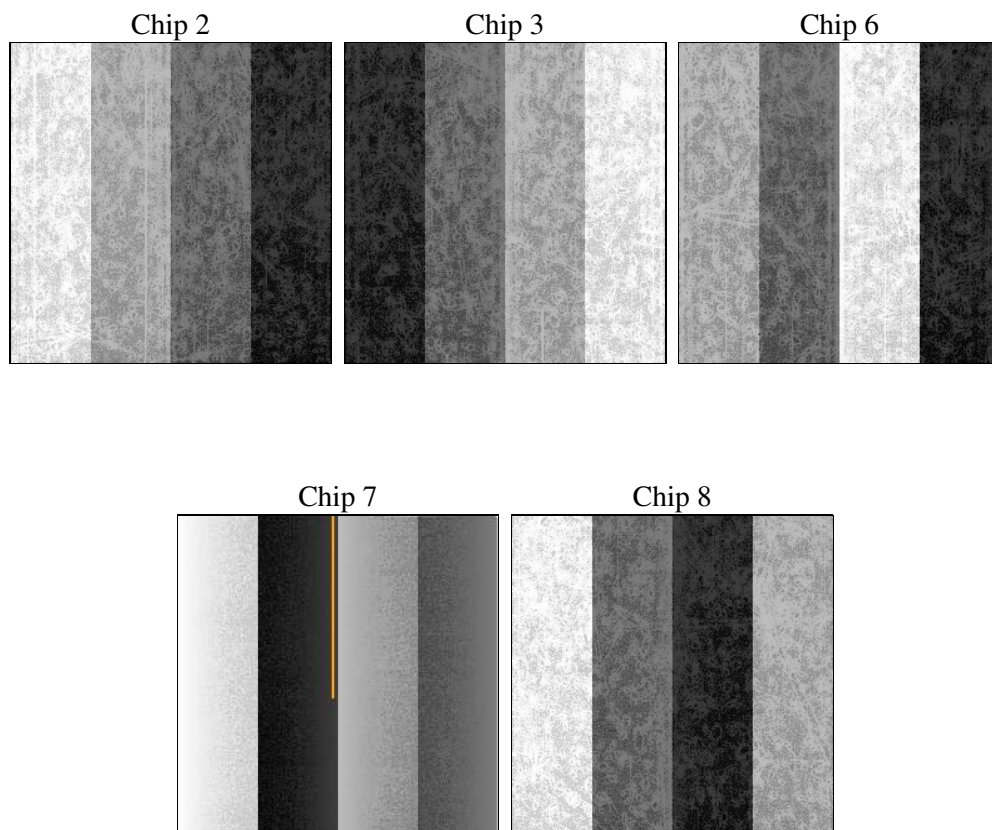
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	7057.8647837639	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	7057.7006237507	Sum of GTIs [s]
date	2020-10-25T23:30:19	Date and time of file creation	ontime3	7054.641733408	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	7057.8237438202	Sum of GTIs [s]
			ontime7	7057.8647837639	Sum of GTIs [s]
			ontime8	7057.7416638136	Sum of GTIs [s]
			l1events	286004	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	49730	47878	51582	66884	69930
rejected events	44012	42311	45734	37579	50770
rejected %	88%	88%	88%	56%	72%

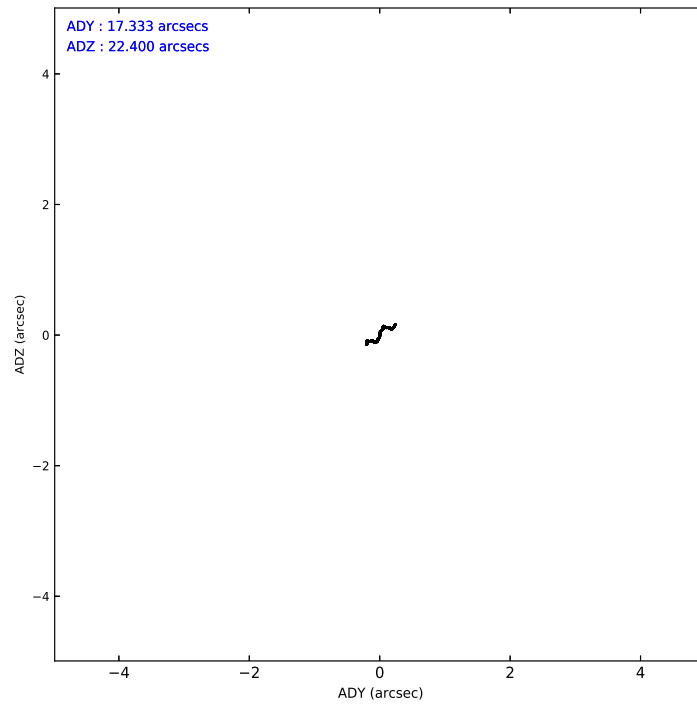
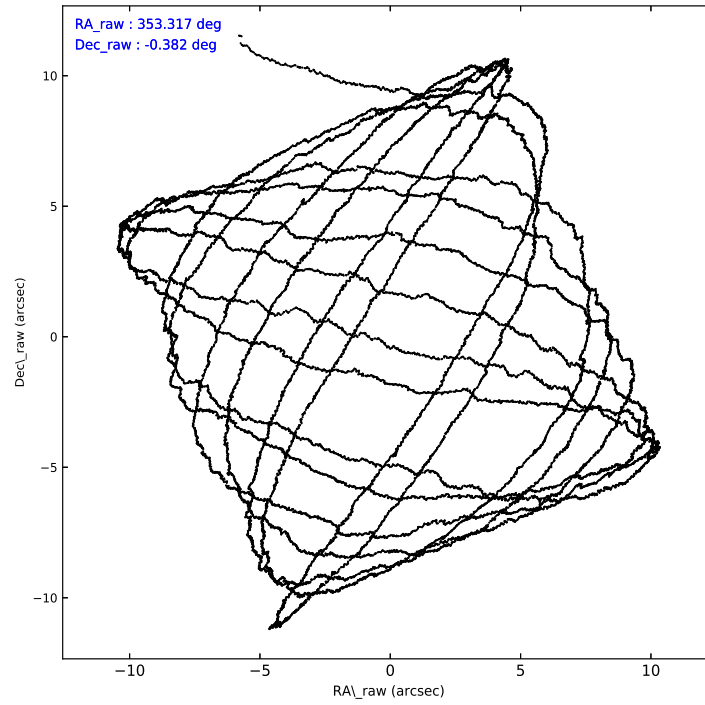
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2068	2144	1879	2536	5602
	4%	4%	3%	3%	8%
grade 1 events	28	29	29	105	56
	0%	0%	0%	0%	0%
grade 2 events	1453	1146	1389	6276	4693
	2%	2%	2%	9%	6%
grade 3 events	539	552	636	2430	1965
	1%	1%	1%	3%	2%
grade 4 events	562	557	571	2308	1867
	1%	1%	1%	3%	2%
grade 5 events	2040	2472	2549	6709	3830
	4%	5%	4%	10%	5%
grade 6 events	1097	1174	1377	15781	5044
	2%	2%	2%	23%	7%
grade 7 events	41943	39804	43152	30739	46873
	84%	83%	83%	45%	67%

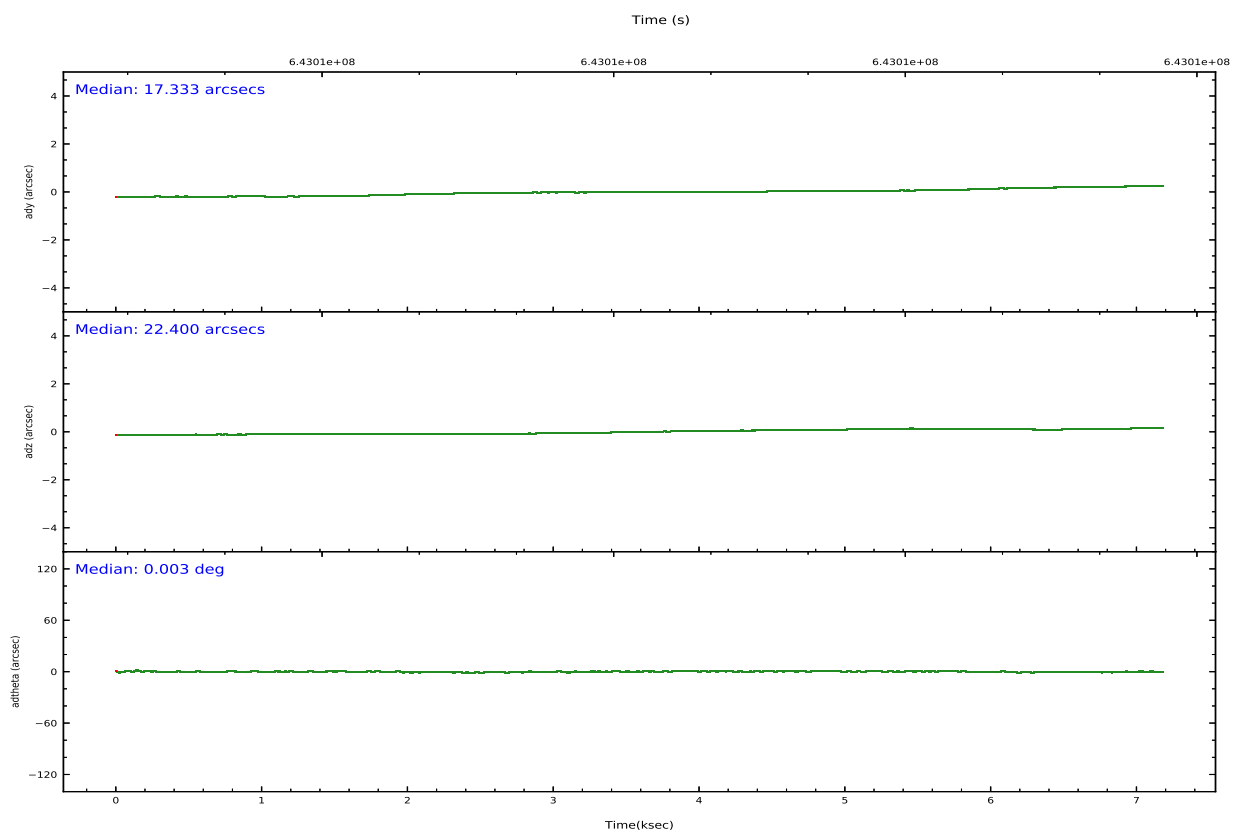
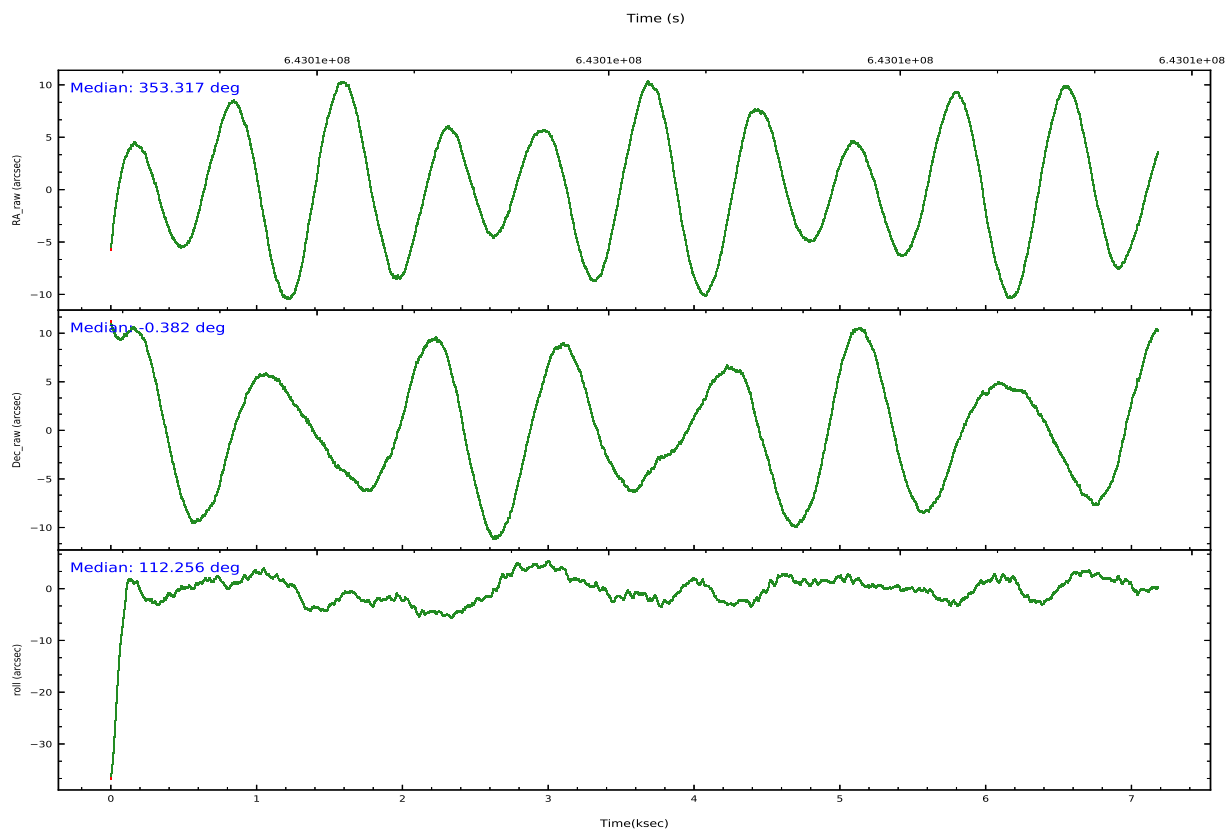
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23678	ACIS-23678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	353.338602	353.3245349829
[deg] Pointing Dec	-0.398641	-0.3842766015277
[deg] Pointing Roll	112.103824	112.25586545774
[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)	643006768.184000	643005388.5509
Observation start date	2018-05-18T04:58:19	2018-05-18T04:36:28
[s] Observation end time (MET)	643013768.184000	643014753.4639601
Observation end date	2018-05-18T06:54:59	2018-05-18T07:12:33
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	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	N	N
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



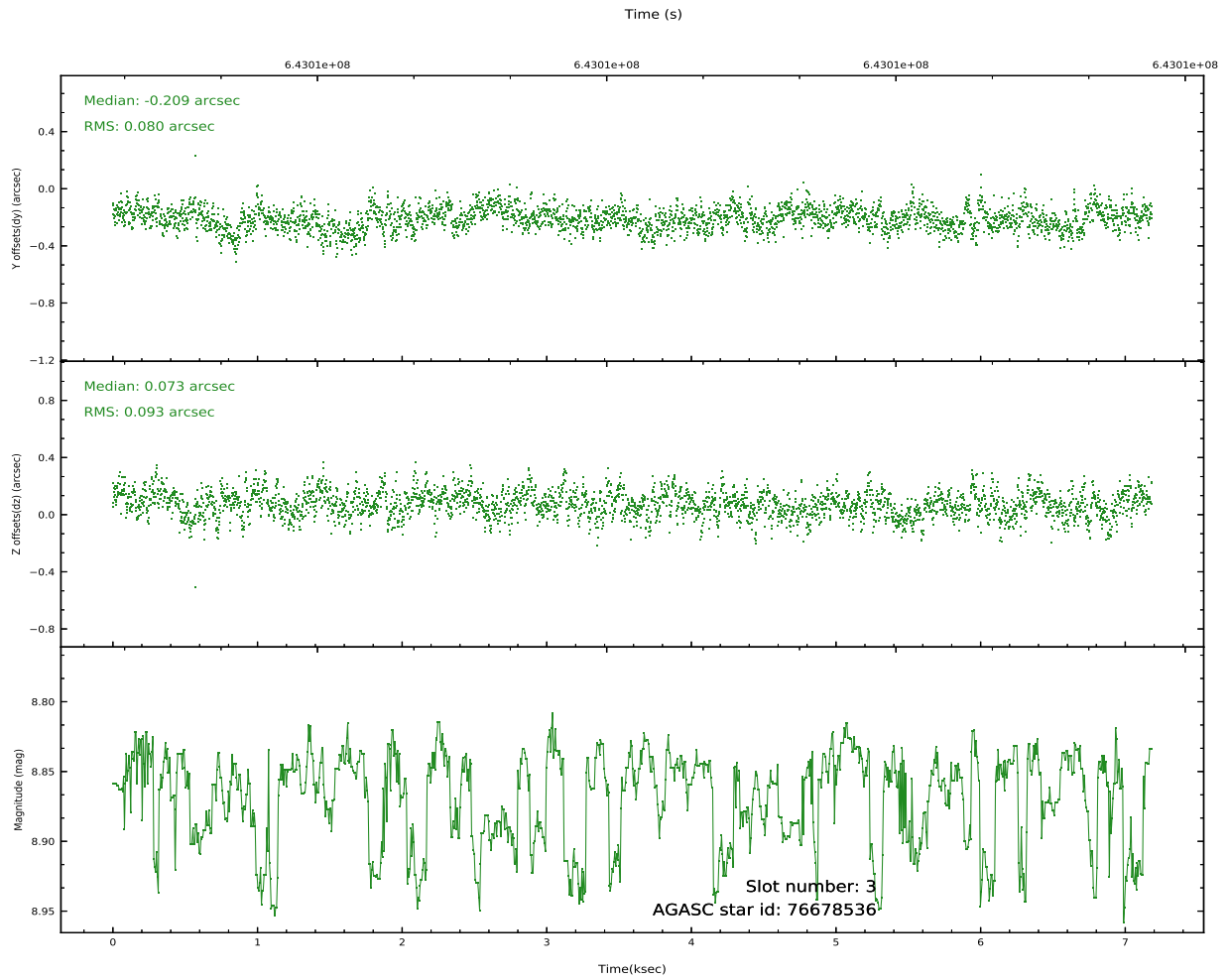
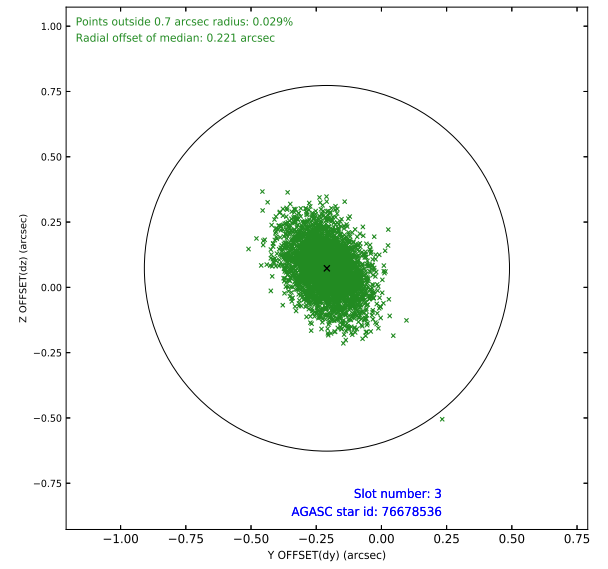
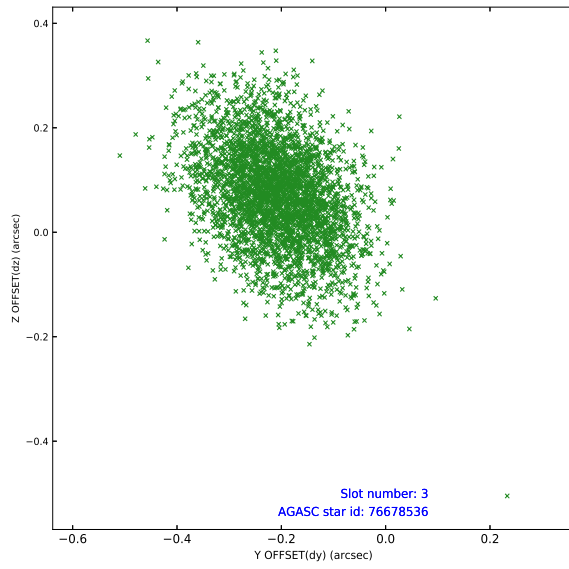


Slot Statistics

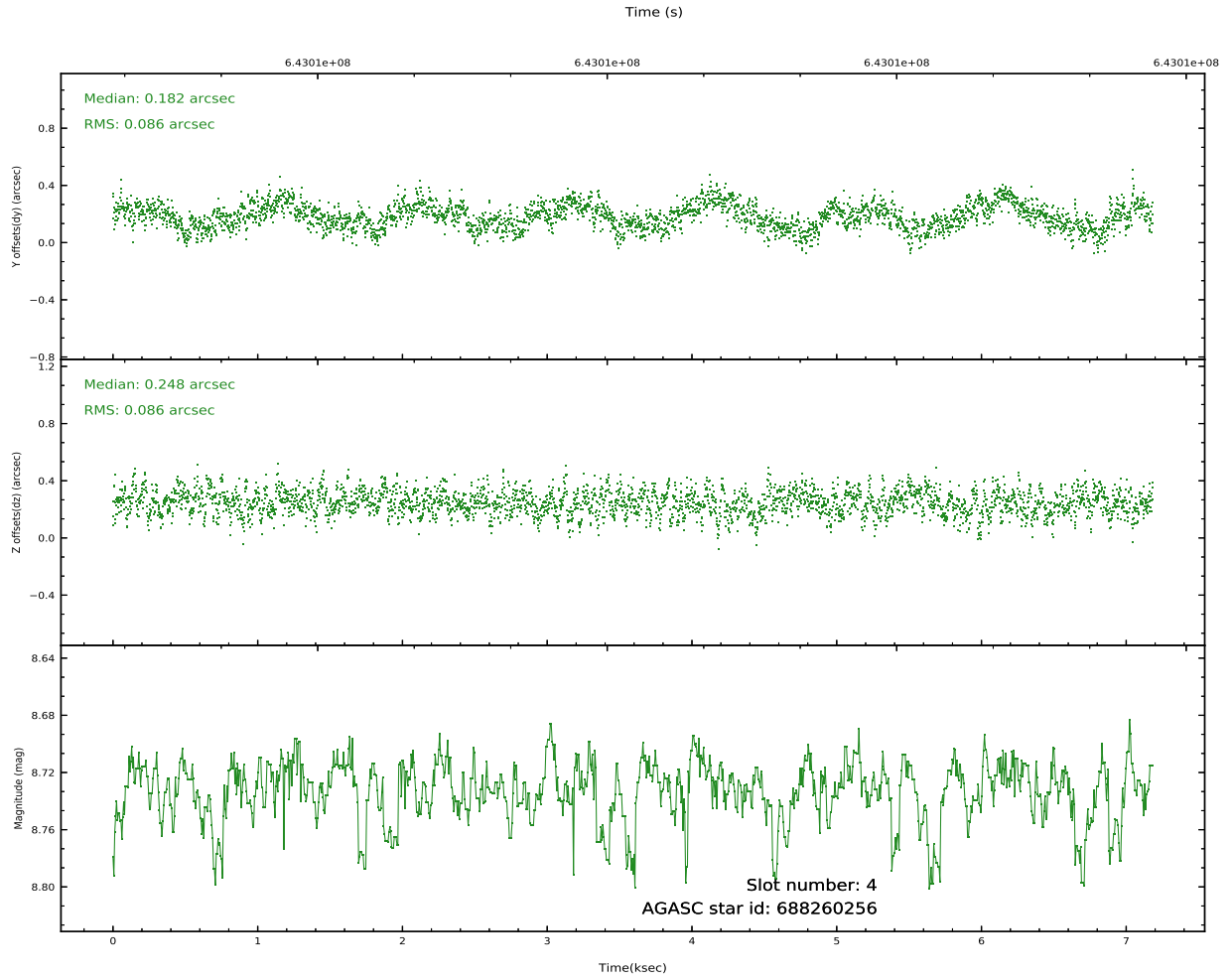
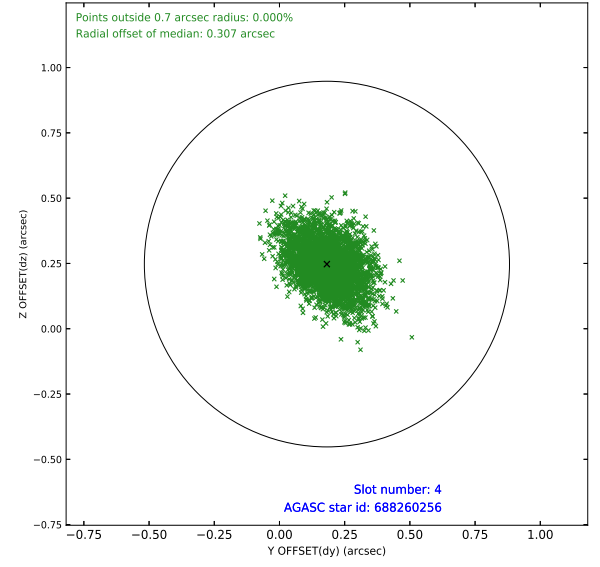
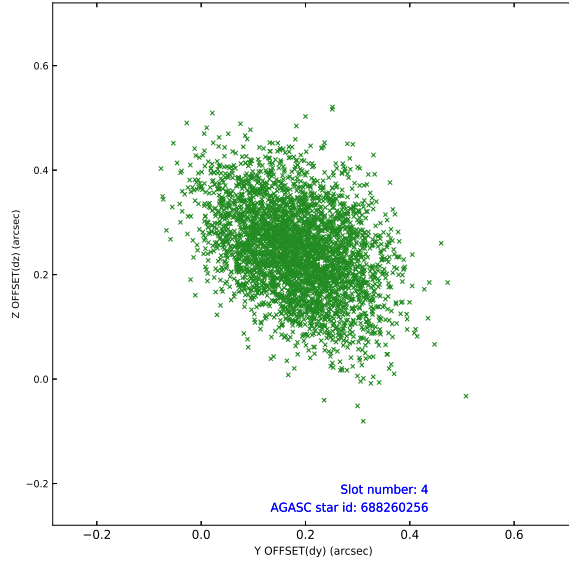
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.97	1752	1.000	0.121	-0.103	0.008	0.012	0.000000	0.000000	-770.45	-1743
1	FID		ACIS-S-4	7.07	1753	1.000	0.087	-0.031	0.006	0.012	0.000000	0.000000	2142.66	163
2	FID		ACIS-S-5	7.06	1753	1.000	-0.240	0.142	0.008	0.014	0.000000	0.000000	-1822.40	158
3	GUIDE	used	76678536	8.86	3503	1.000	-0.209	0.073	0.128	0.218	353.237558	0.180446	2067.97	-447
4	GUIDE	used	688260256	8.73	3502	1.000	0.182	0.248	0.129	0.210	353.848491	-0.630139	-1462.32	-1386
5	GUIDE	used	688265896	9.13	3498	1.000	-0.324	-0.403	0.147	0.241	352.587516	-0.177872	1752.75	2205
6	GUIDE	used	688265920	8.09	3505	1.000	0.203	0.093	0.108	0.191	353.620473	-0.325855	-138.78	-1037
7	GUIDE	used	688259864	9.14	3497	1.000	0.152	-0.005	0.159	0.257	353.194897	-0.842717	-1286.34	1080

2.4 Star Slots

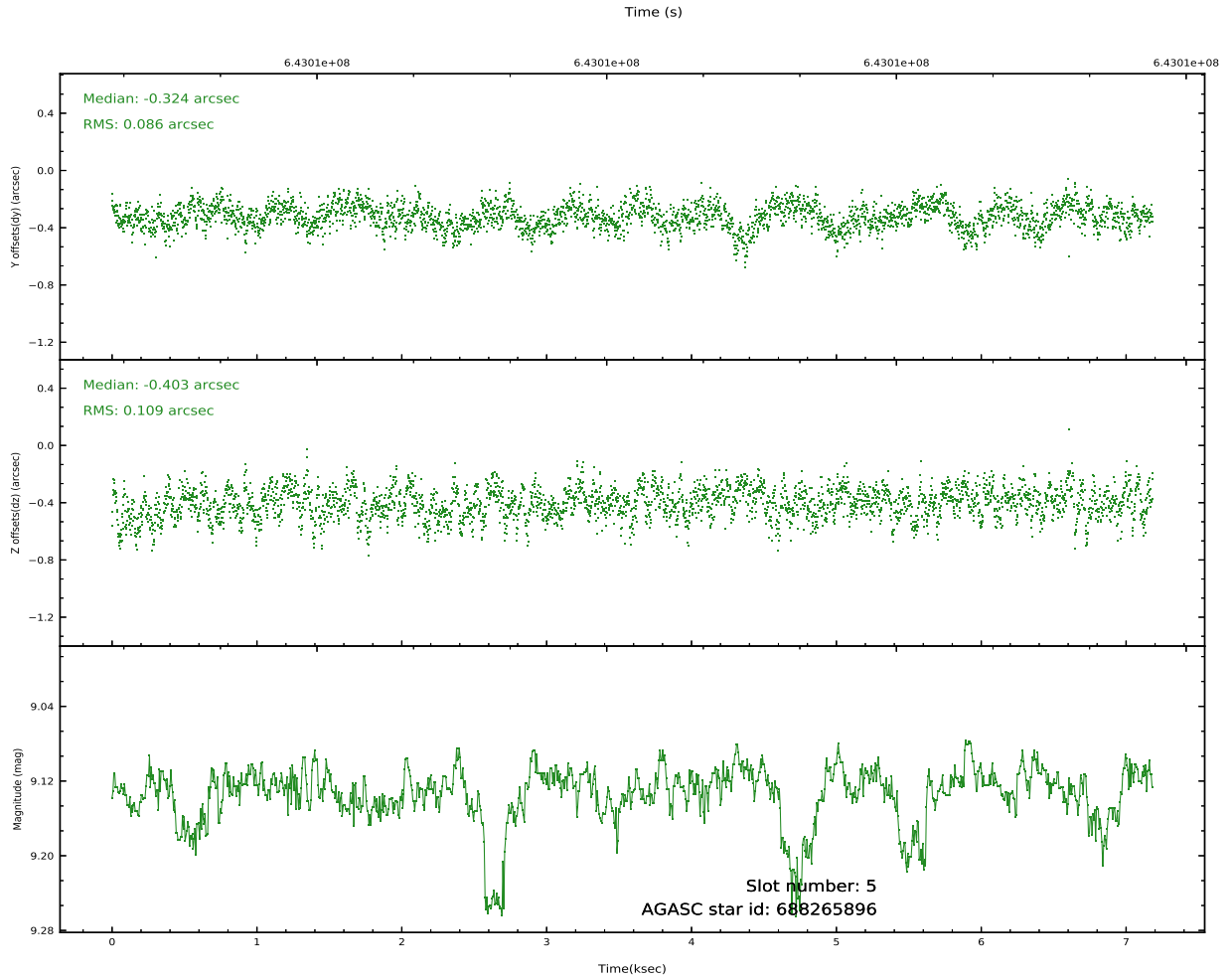
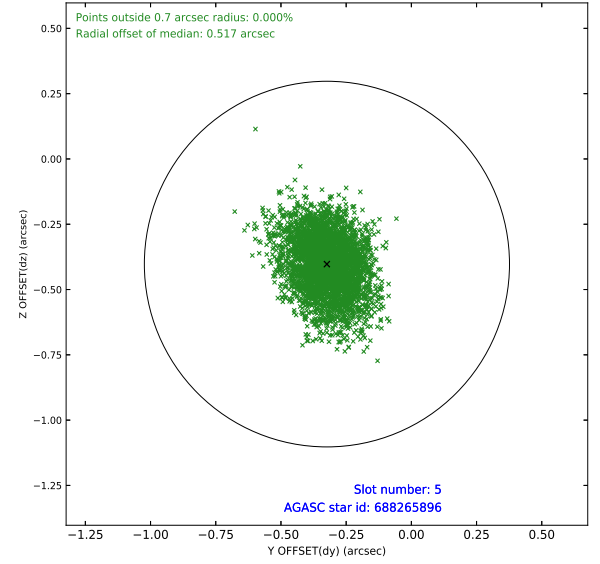
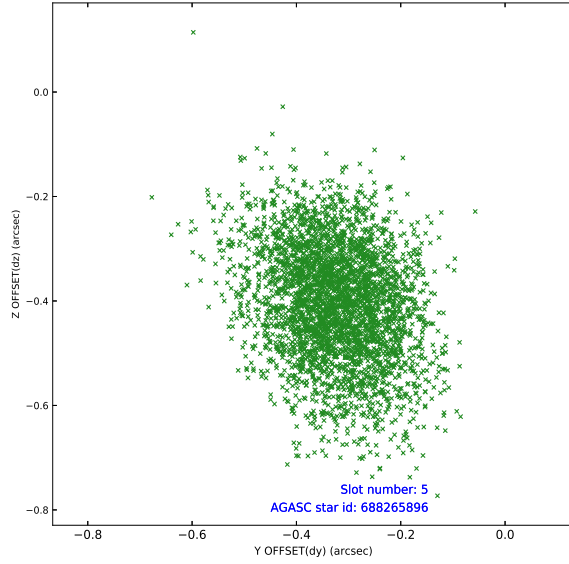
2.4.1 Slot 3



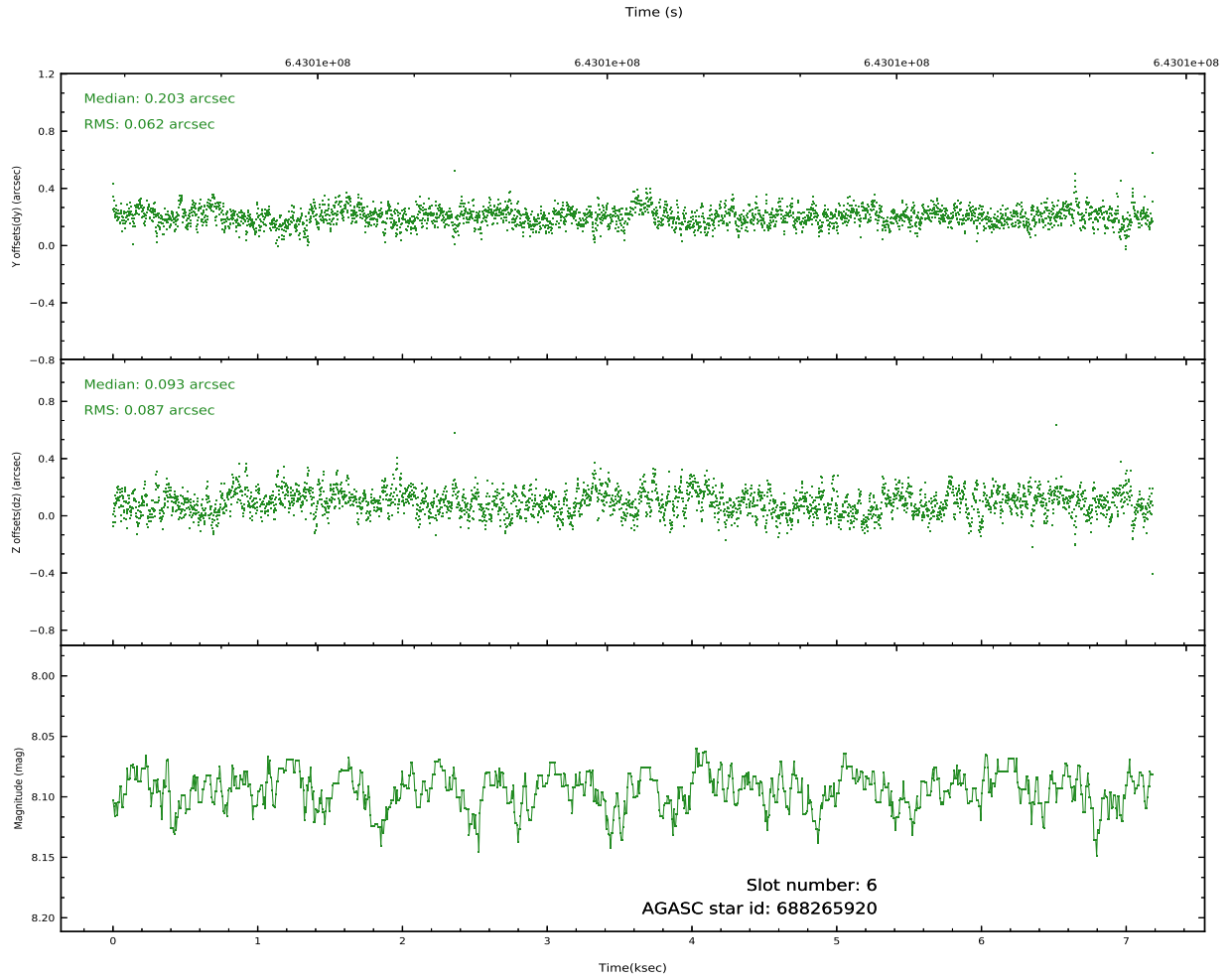
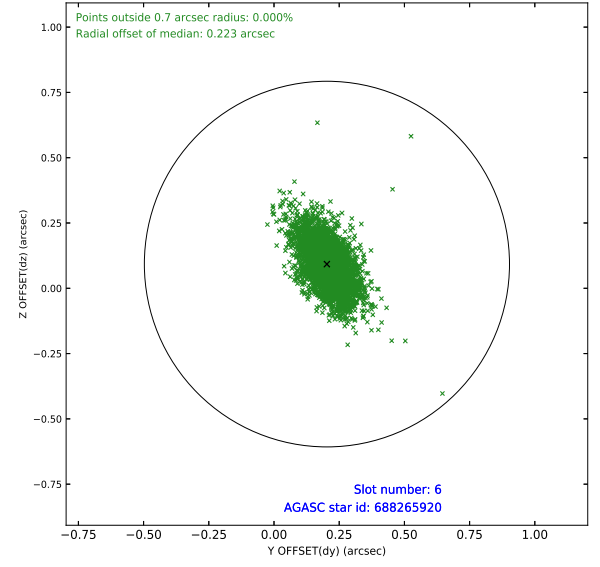
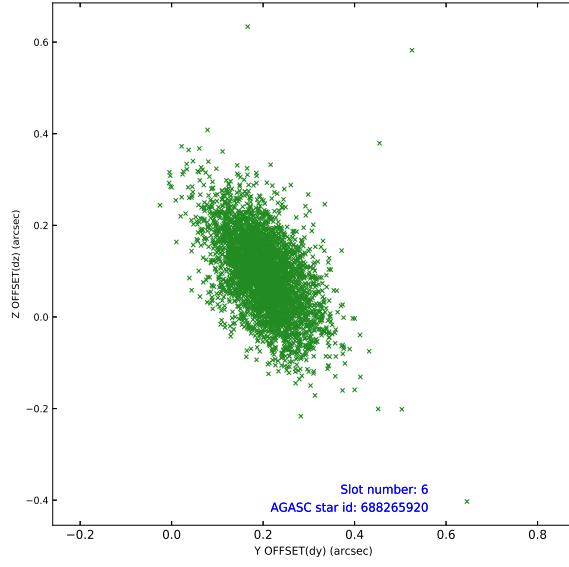
2.4.2 Slot 4



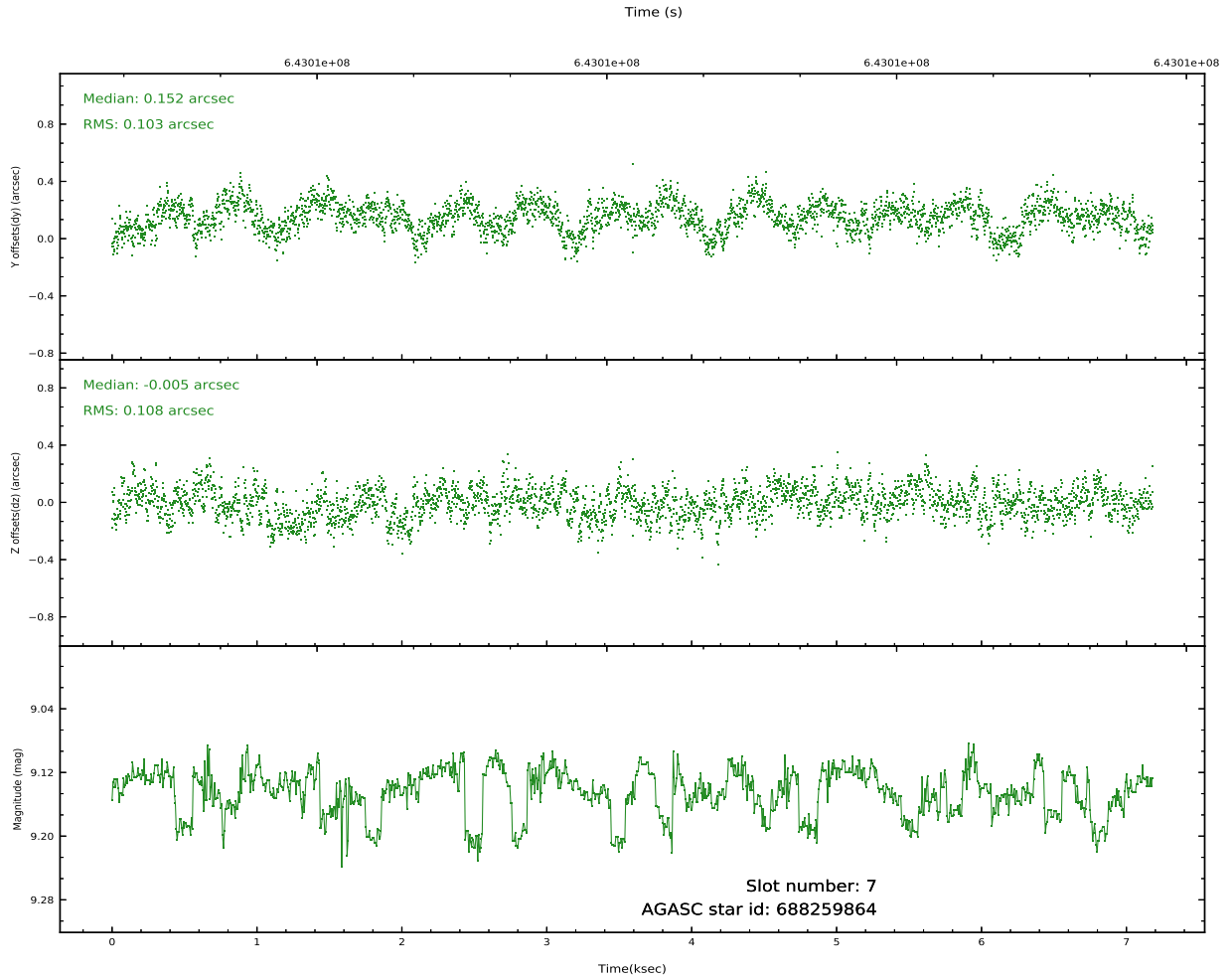
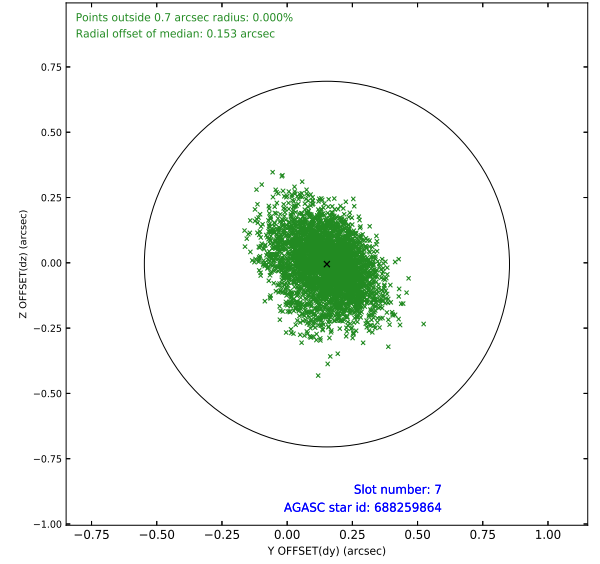
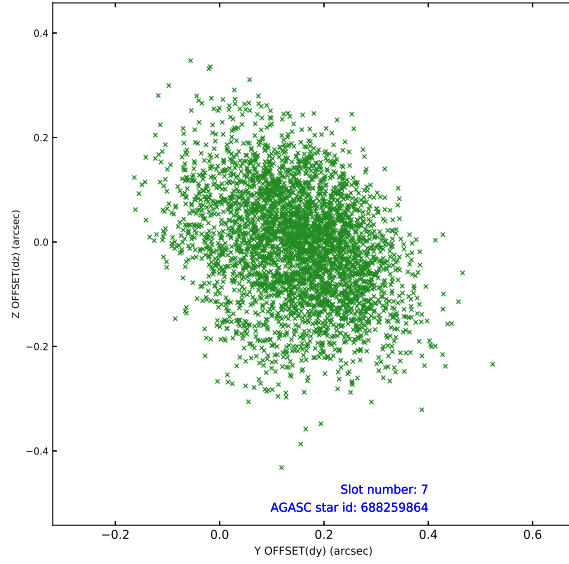
2.4.3 Slot 5



2.4.4 Slot 6

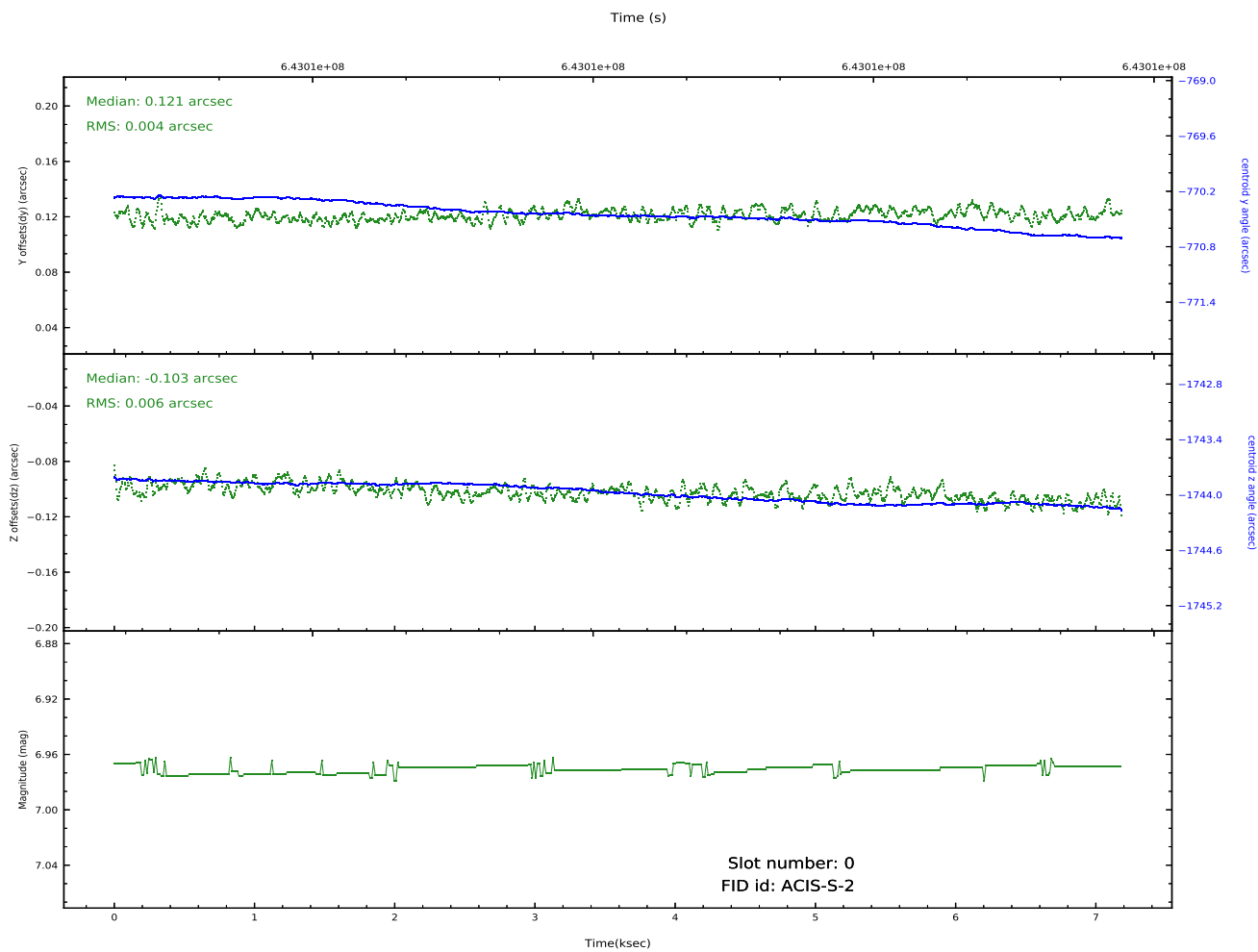
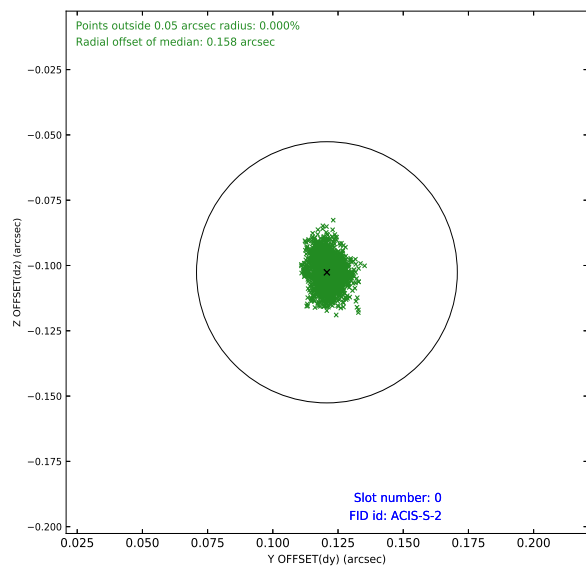
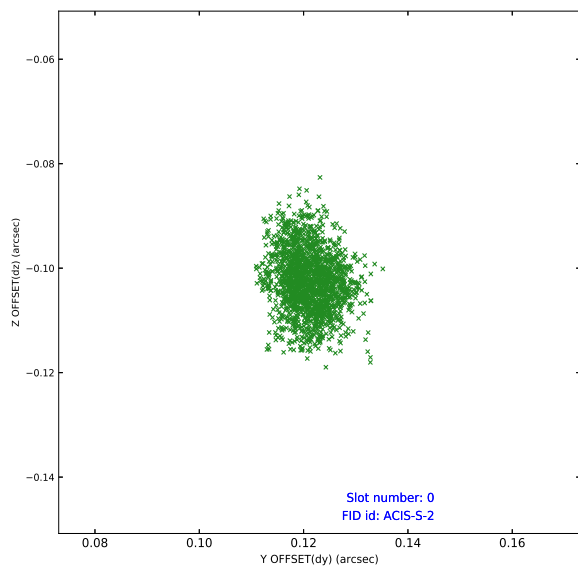


2.4.5 Slot 7

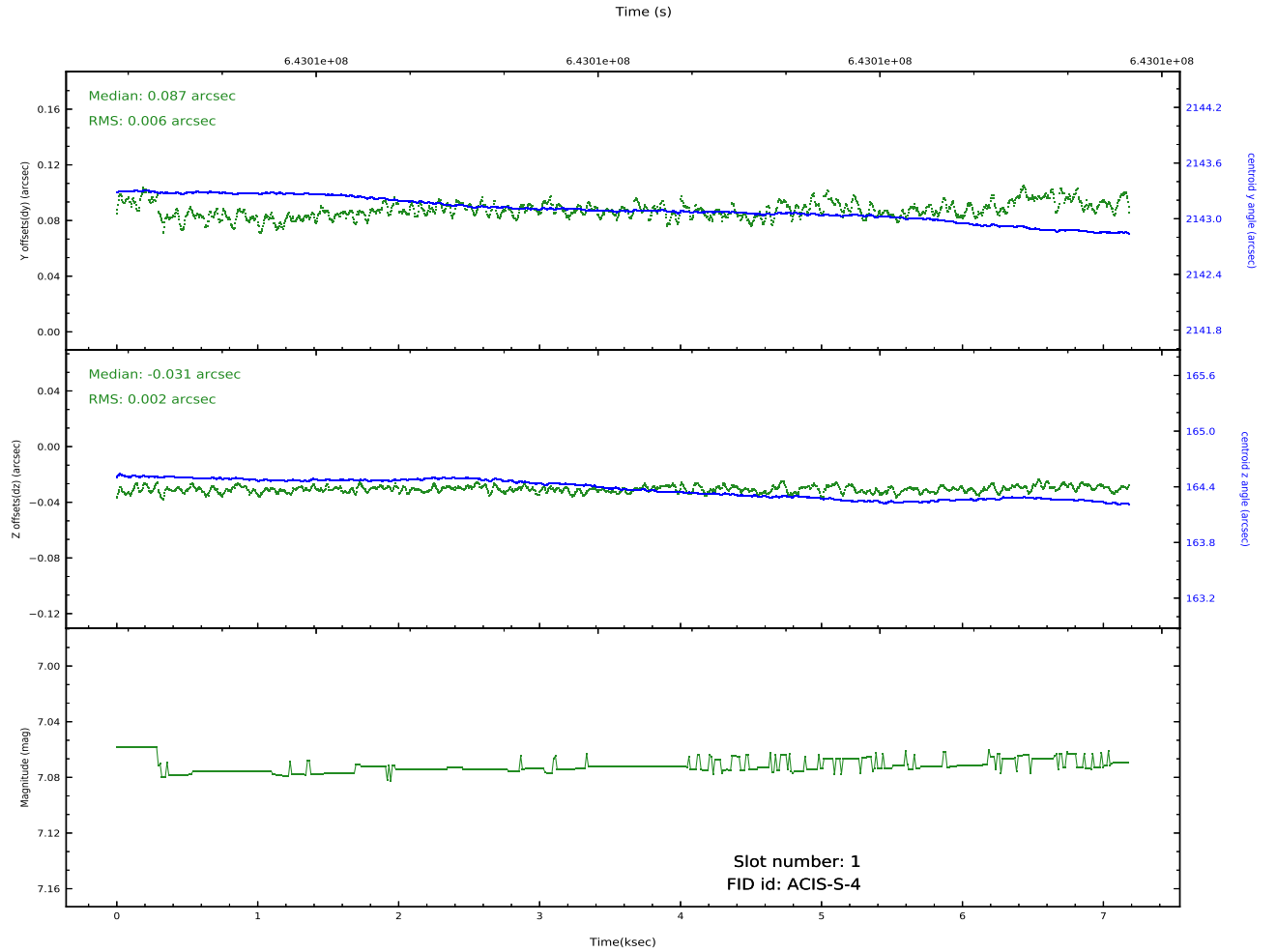
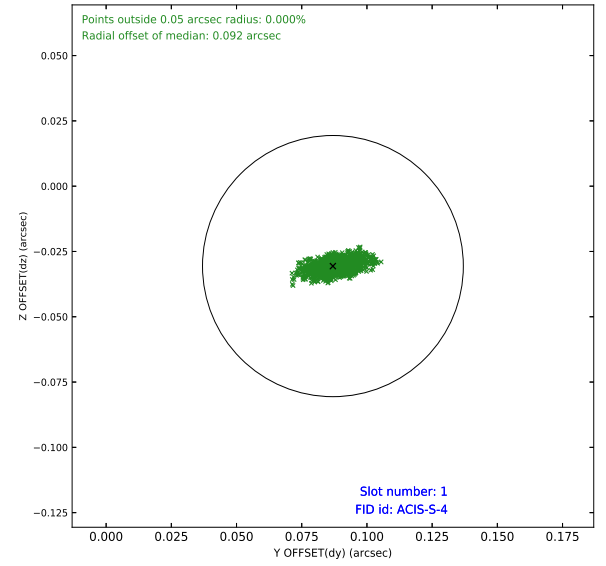
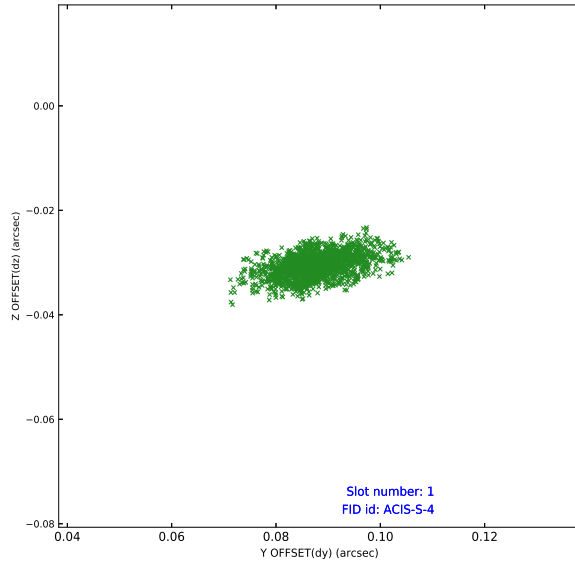


2.5 FID Slots

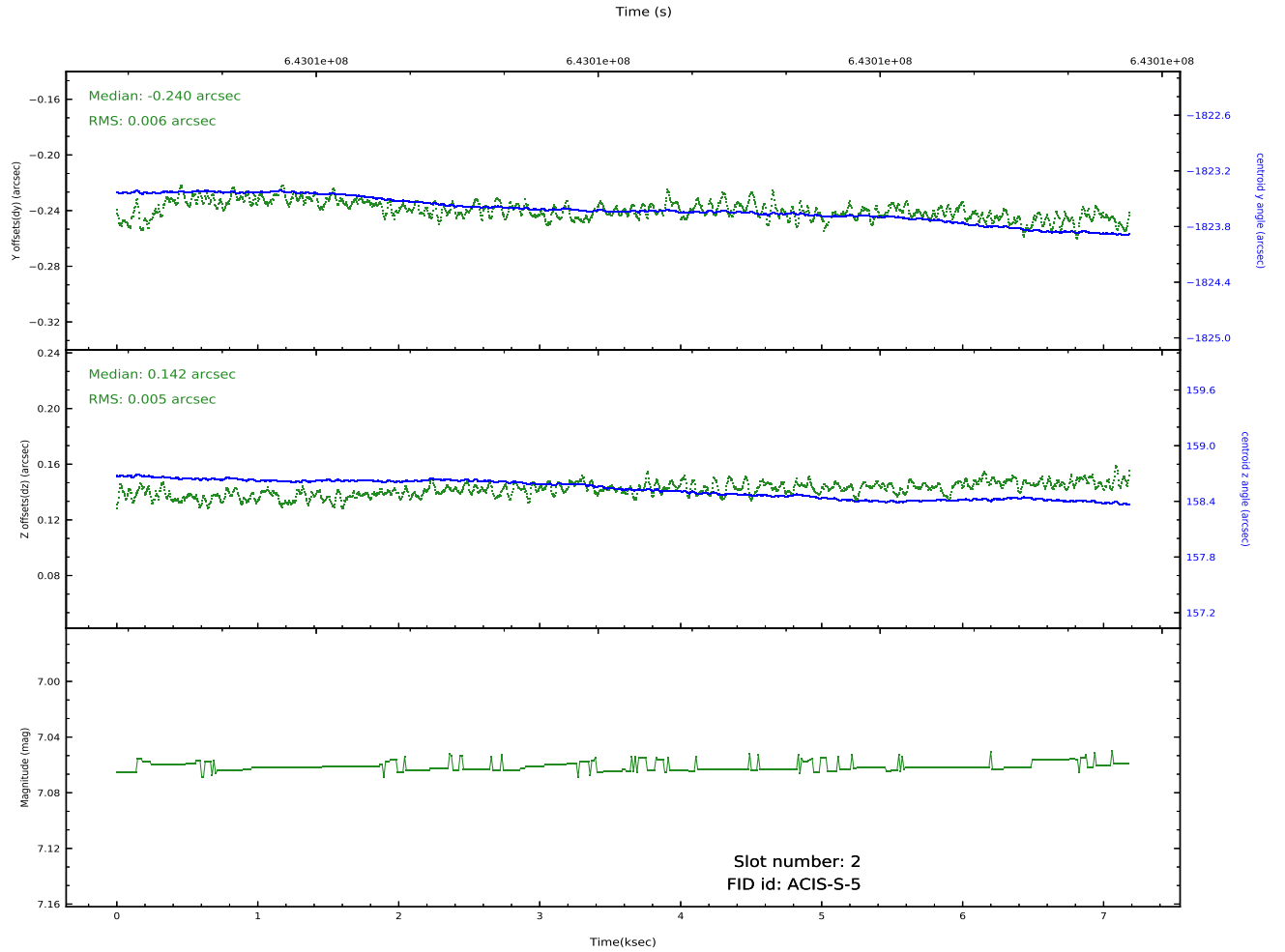
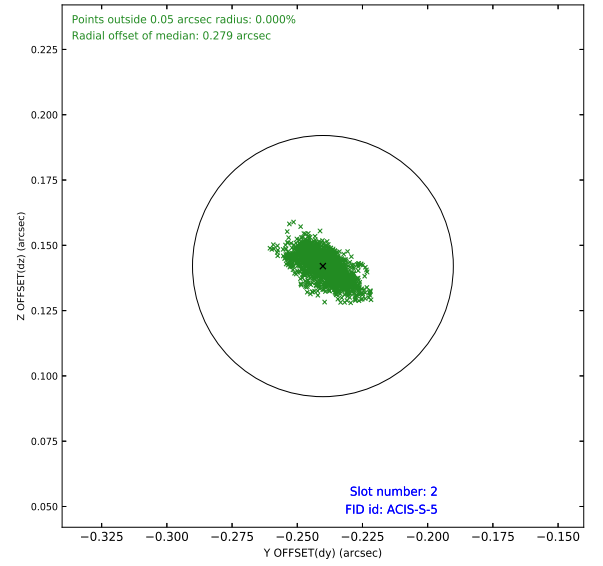
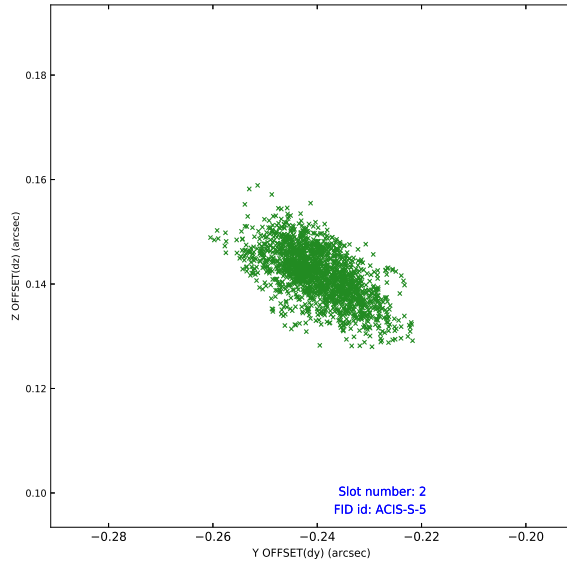
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.057864790082

A.2 Comments