

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20652 - L2 Version 2
Chandra X-Ray Center

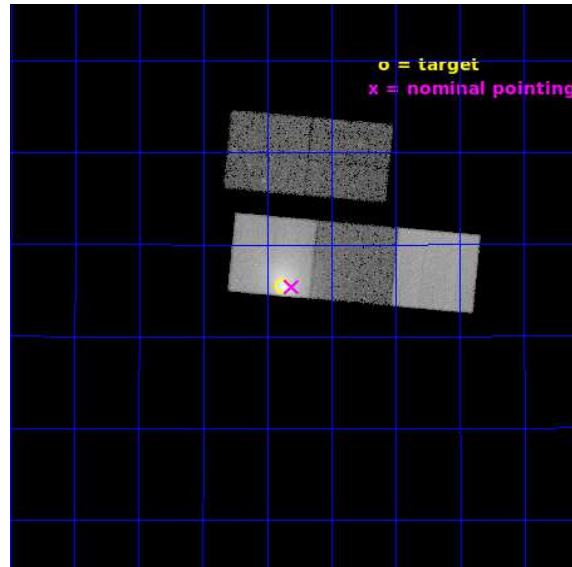
L2 Processing Date : Oct 25 2020

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1 Front

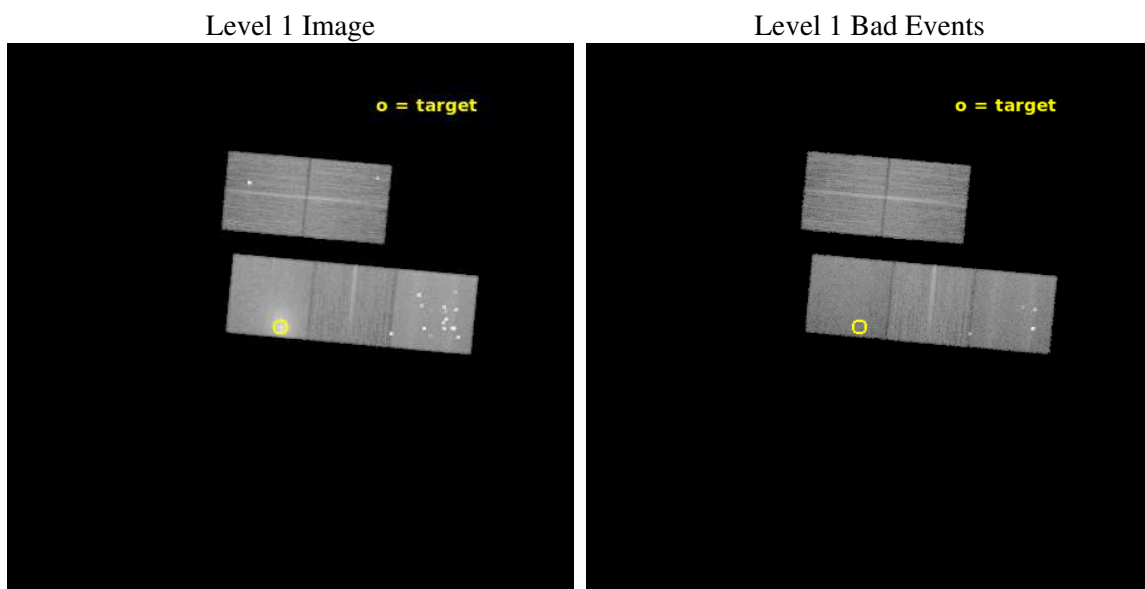
seq_num	890159	Sequence number
obs_id	20652	Observation id
title	AO-19 Calibration Observations of A1795	Proposal title
observer	CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.20191834395	Nominal RA [deg]
dec_nom	26.590298262075	Nominal Dec [deg]
roll_nom	185.36378638458	Nominal Roll [deg]
revision	2	Processing version of data
ontime	19040.200146556	Sum of GTIs [s]
livetime	18791.42591445	Livetime [s]
ontime2	19033.918016195	Sum of GTIs [s]
ontime3	19037.059086323	Sum of GTIs [s]
ontime5	19040.200146556	Sum of GTIs [s]
ontime6	19040.200146556	Sum of GTIs [s]
ontime7	19040.200146556	Sum of GTIs [s]
l2events	323747	Number of level 2 events



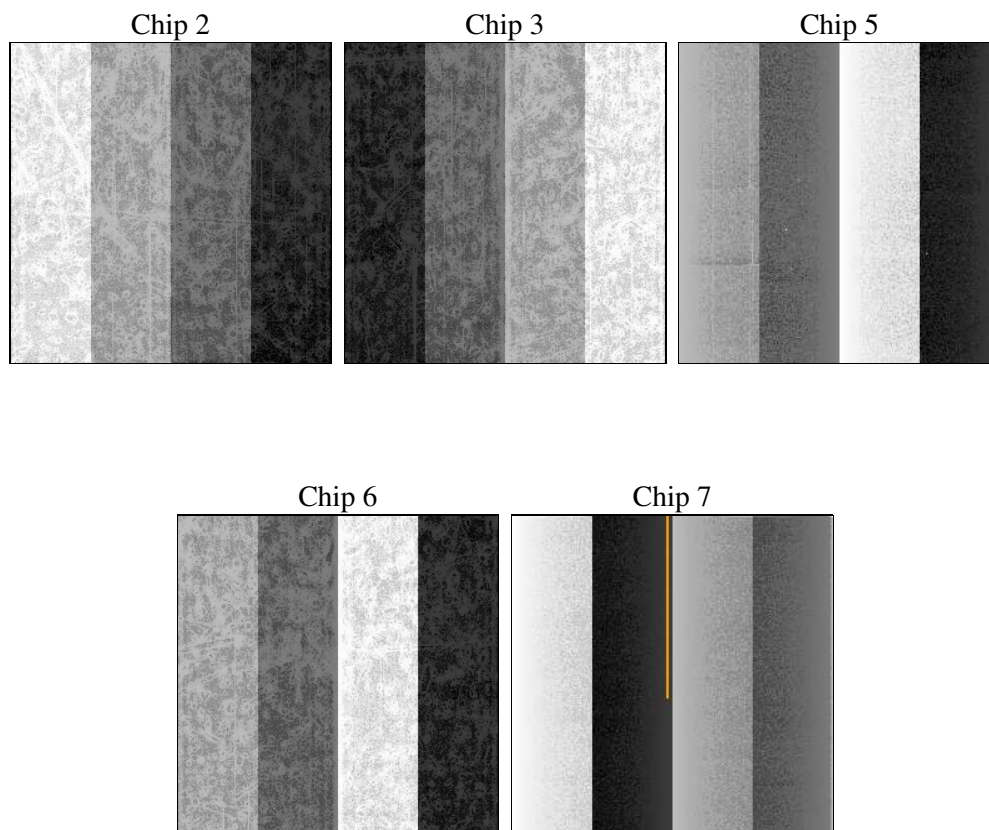
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18988.933000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	19040.200146556	Sum of GTIs [s]
caldsver	4.9.3	 	ontime2	19033.918016195	Sum of GTIs [s]
date	2020-10-25T15:07:09	Date and time of file creation	ontime3	19037.059086323	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	19040.200146556	Sum of GTIs [s]
			ontime6	19040.200146556	Sum of GTIs [s]
			ontime7	19040.200146556	Sum of GTIs [s]
			l1events	1019448	Number of level 1 events

2.1.4 Events

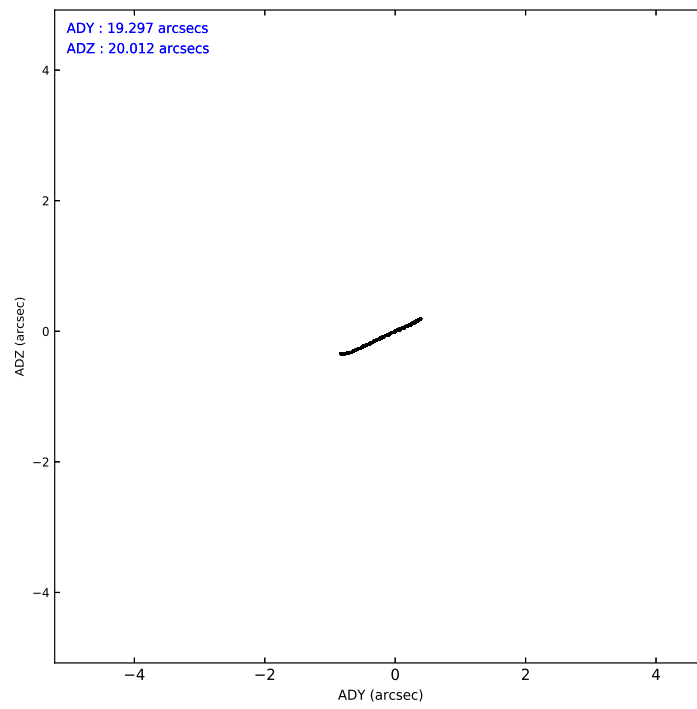
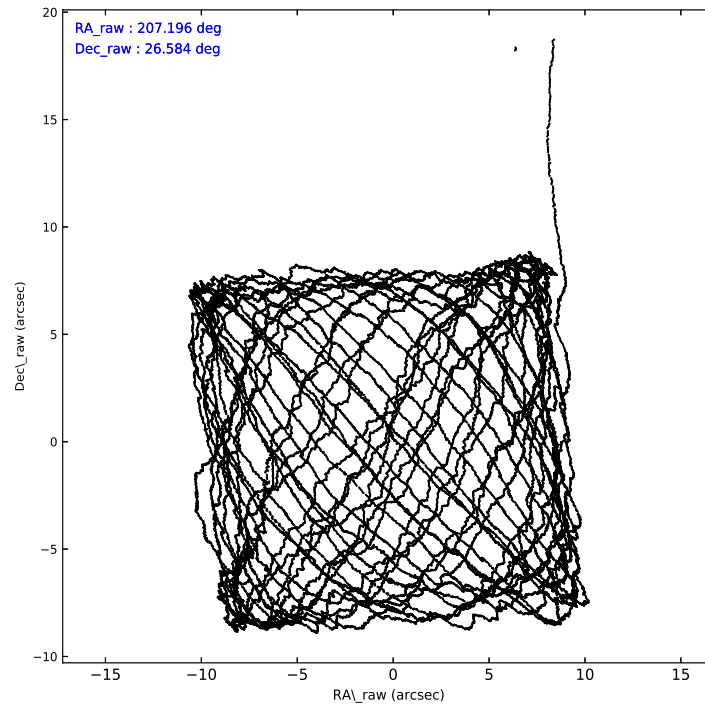
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	148173	147172	277999	158490	287614
rejected events	132776	126877	127170	137401	104171
rejected %	89%	86%	45%	86%	36%

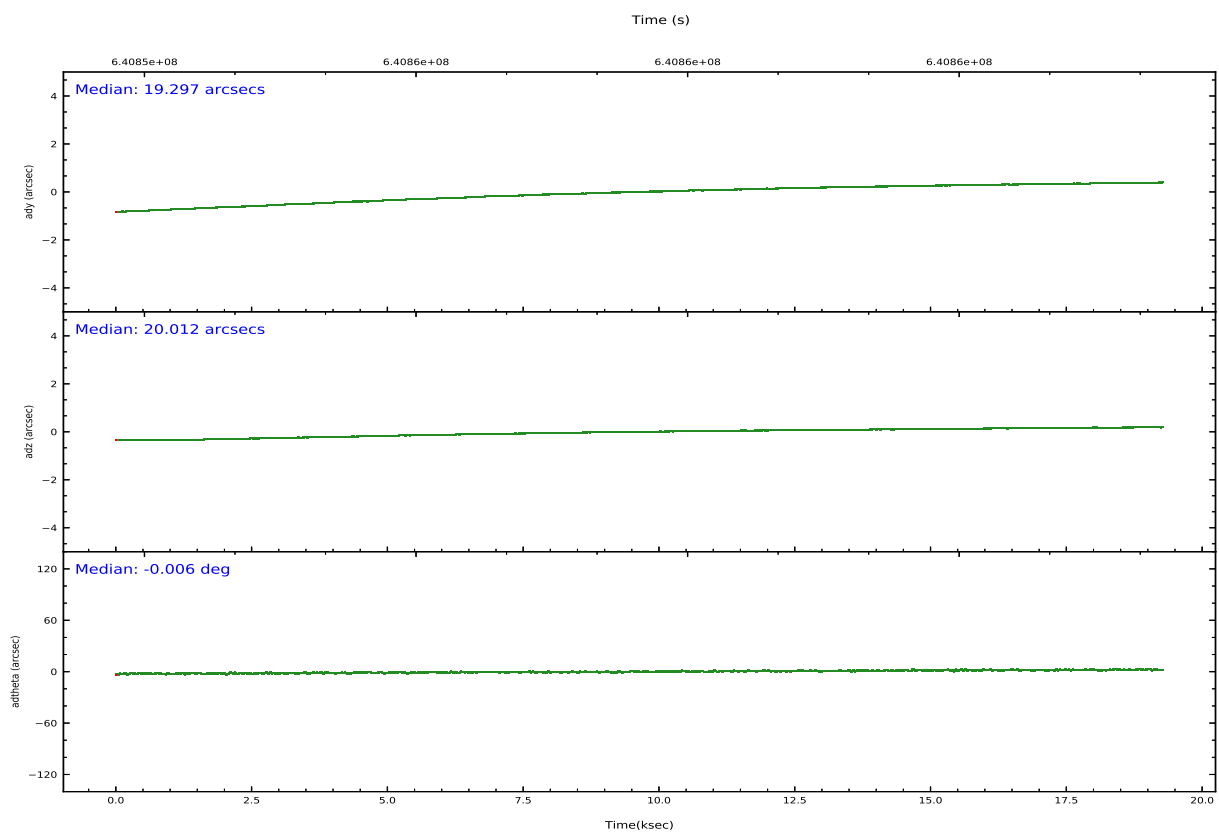
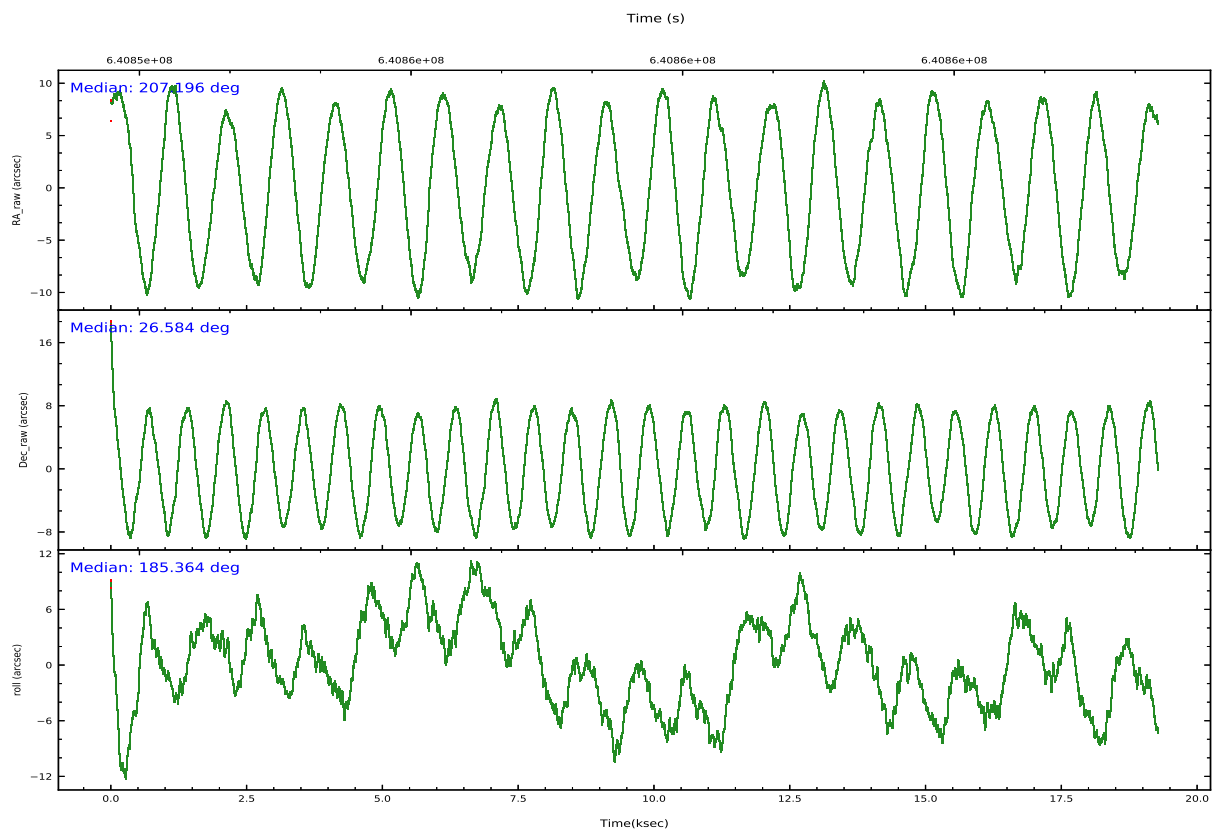
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	6409	11074	40034	8651	33154
	4%	7%	14%	5%	11%
grade 1 events	92	99	656	84	293
	0%	0%	0%	0%	0%
grade 2 events	3348	3140	39875	5021	43175
	2%	2%	14%	3%	15%
grade 3 events	1372	1468	4540	1550	18541
	0%	0%	1%	0%	6%
grade 4 events	1397	1518	5369	1446	18125
	0%	1%	1%	0%	6%
grade 5 events	5090	6206	16033	5816	18031
	3%	4%	5%	3%	6%
grade 6 events	2876	3102	61062	4428	70521
	1%	2%	21%	2%	24%
grade 7 events	127589	120565	110430	131494	85774
	86%	81%	39%	82%	29%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	207.221022	207.20191834395	CCD I2 on	Y	Y
[deg] Pointing Dec	26.600259	26.590298262075	CCD I3 on	O1	Y
[deg] Pointing Roll	185.191836	185.36378638458	CCD S0 on	N	N
[s] Window start time (MET)	638928069.184000	638928069.184000	CCD S1 on	Y	Y
[s] Window stop time (MET)	641433669.184000	641433669.184000	CCD S2 on	Y	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S3 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S4 on	N	N
[mm] SIM translation stage pos	-180.332523	-180.3266934278832	CCD S5 on	N	N
[mm] SIM translation stage offset	-9.8000000000000001	-9.805829155124599	Number of optional ACIS chips dropped	0	0
[s] Observation start time (MET)	640849767.184000	640848761.261	On-chip summing requested	N	N
Observation start date	2018-04-23T05:48:18	2018-04-23T05:32:41	Subarray requested	NONE	NONE
[s] Observation end time (MET)	640868756.184000	640869722.5122401	Alternating exposures requested	N	N
Observation end date	2018-04-23T11:04:47	2018-04-23T11:22:02	[s] Primary exposure time	0.000000	3.1
Read mode	TIMED	TIMED			

2.3 Aspect



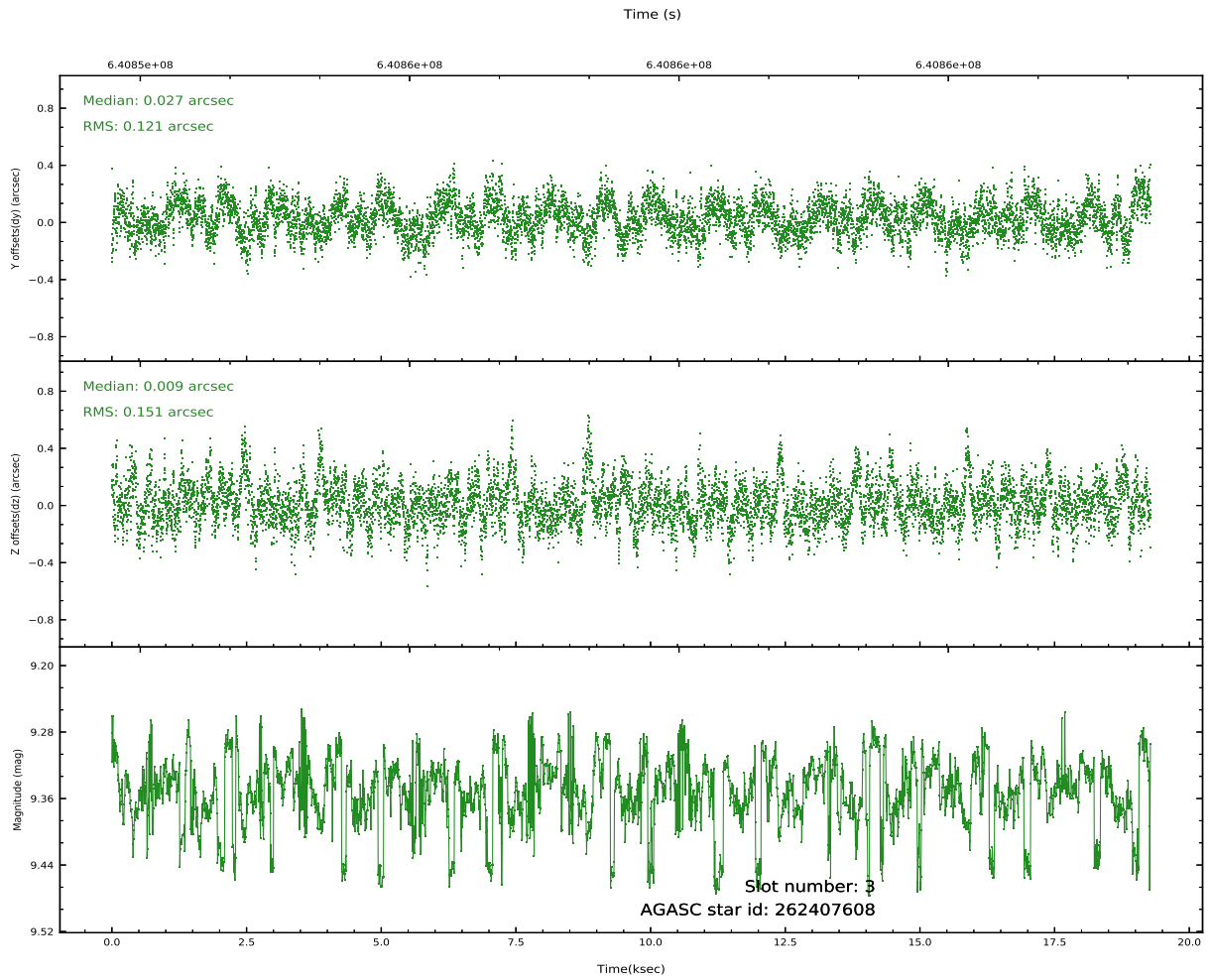
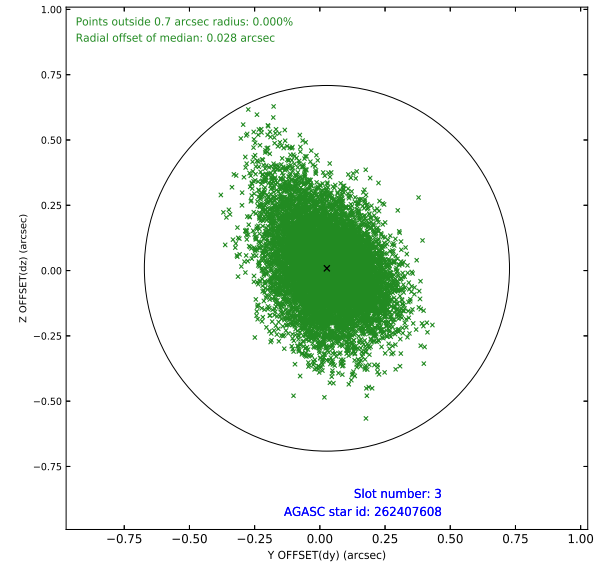
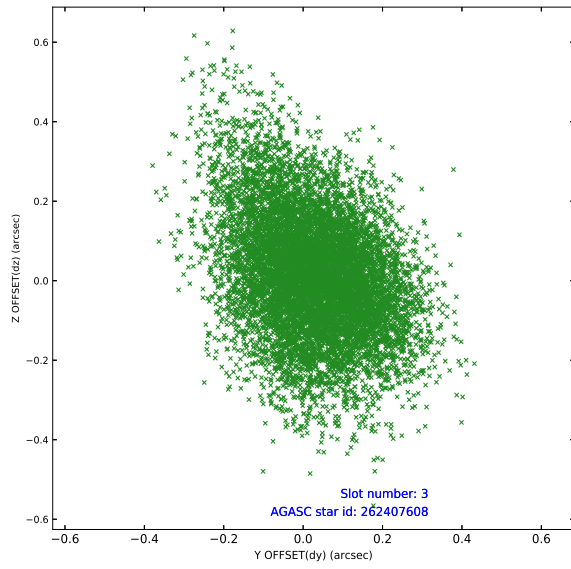


Slot Statistics

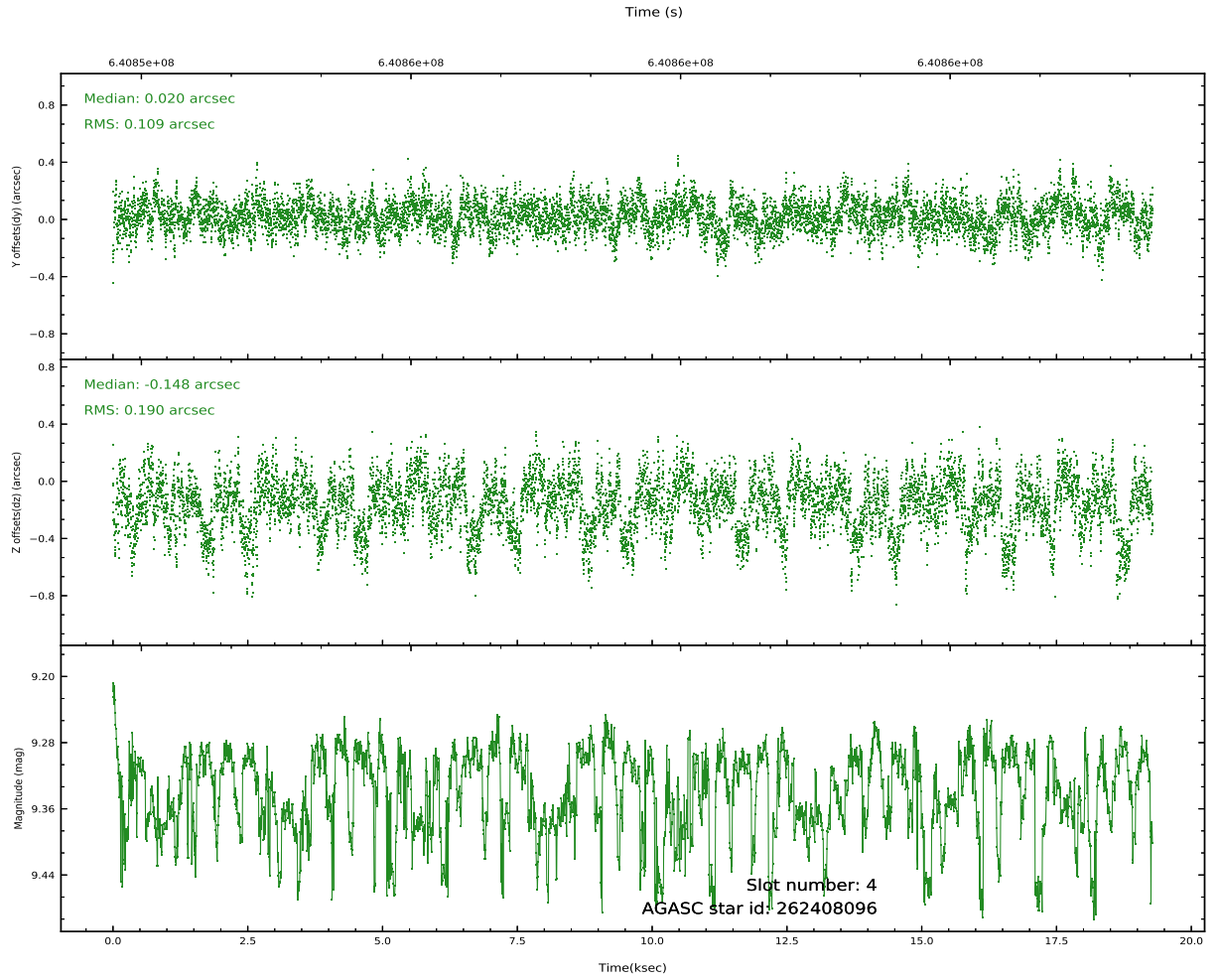
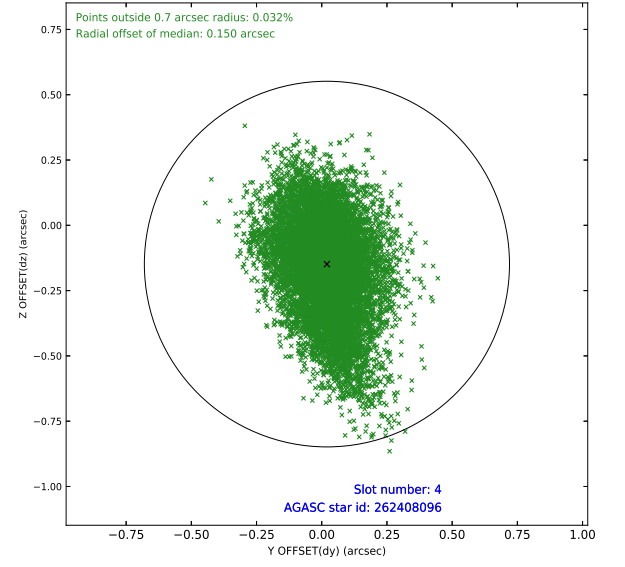
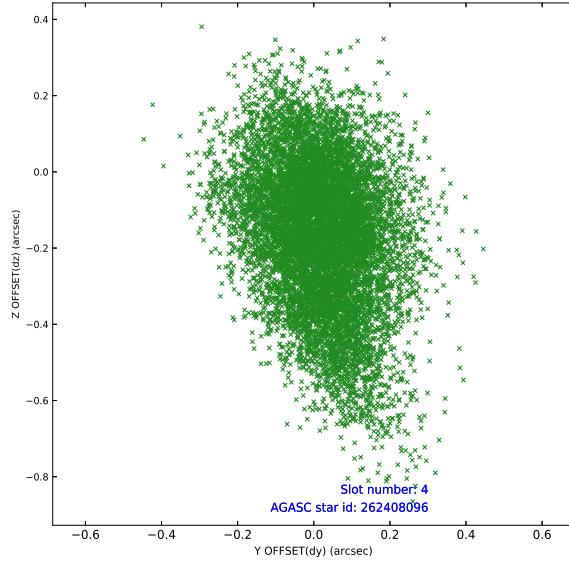
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.20	4704	1.000	0.177	0.035	0.019	0.043	0.000000	0.000000	924.66	-1938
1	FID		ACIS-S-2	7.10	4703	1.000	-0.226	-0.067	0.018	0.039	0.000000	0.000000	-771.53	-1943
2	FID		ACIS-S-6	7.42	4698	1.000	0.029	0.035	0.012	0.019	0.000000	0.000000	390.04	602
3	GUIDE	used	262407608	9.35	9400	1.000	0.027	0.009	0.200	0.342	207.378401	26.435507	-451.19	636
4	GUIDE	used	262408096	9.33	9397	1.000	0.020	-0.148	0.227	0.389	207.011678	26.515421	700.40	242
5	GUIDE	used	262408512	7.96	9406	1.000	-0.047	0.071	0.158	0.280	207.800210	27.128796	-2019.97	-1731
6	GUIDE	used	262408936	9.66	9381	1.000	-0.292	0.172	0.265	0.467	207.154731	26.726554	170.97	-471
7	GUIDE	used	262409552	8.15	9404	1.000	0.287	-0.099	0.184	0.329	206.584269	27.192805	1838.43	-2313

2.4 Star Slots

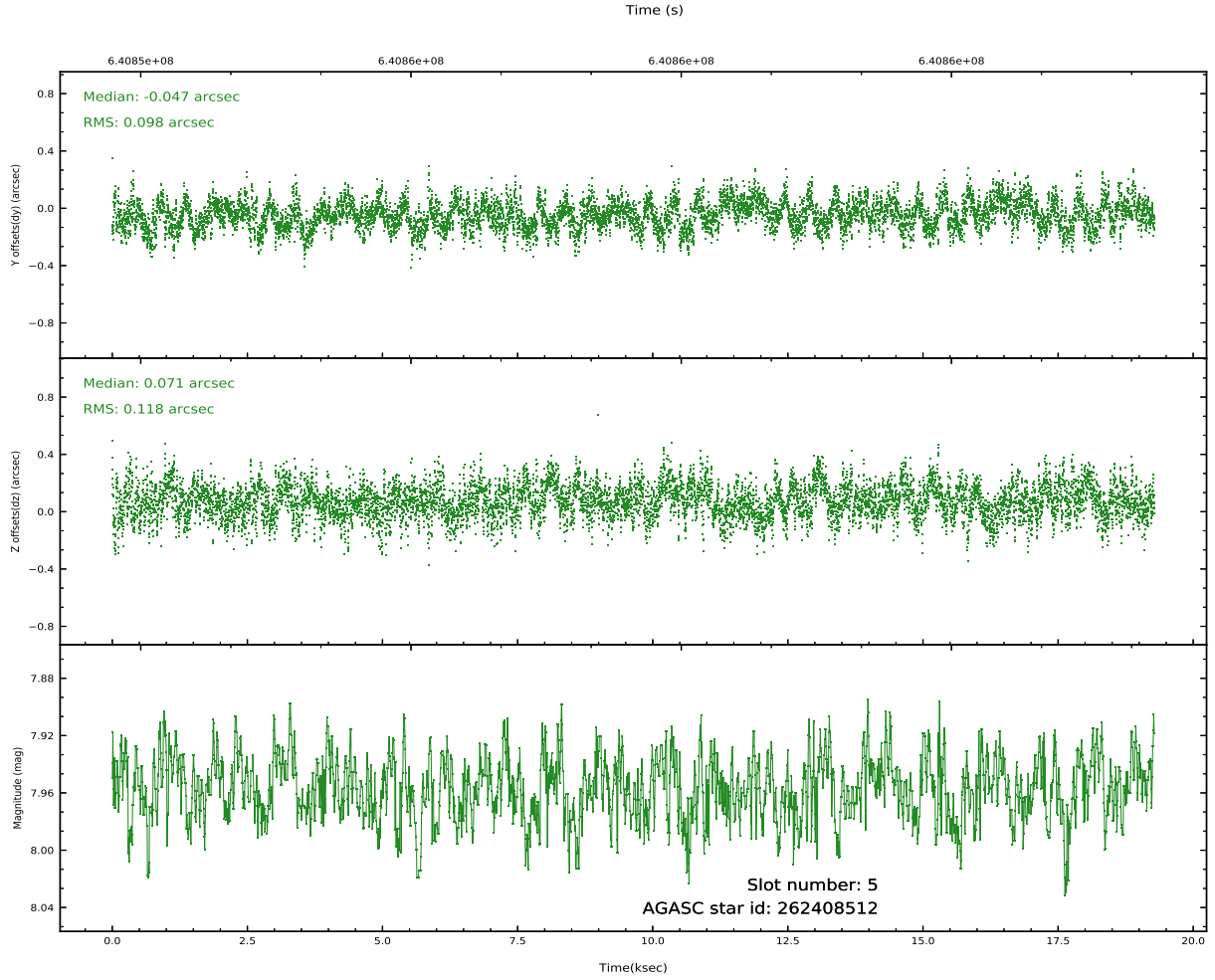
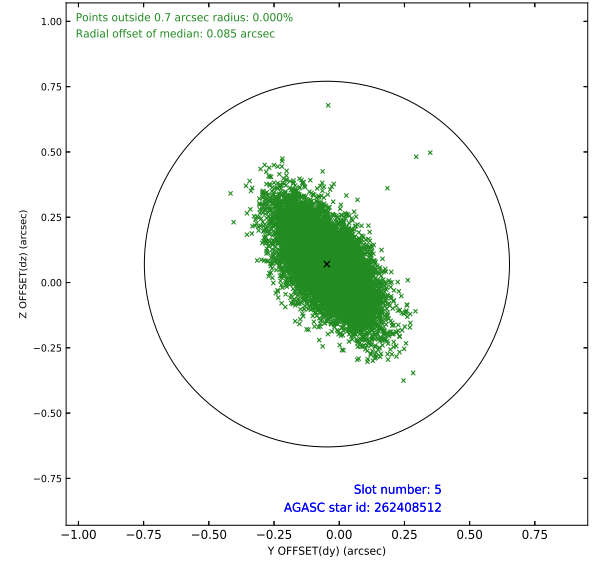
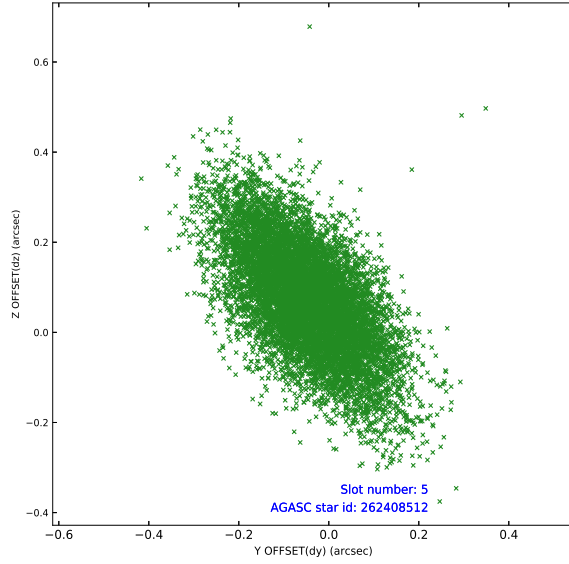
2.4.1 Slot 3



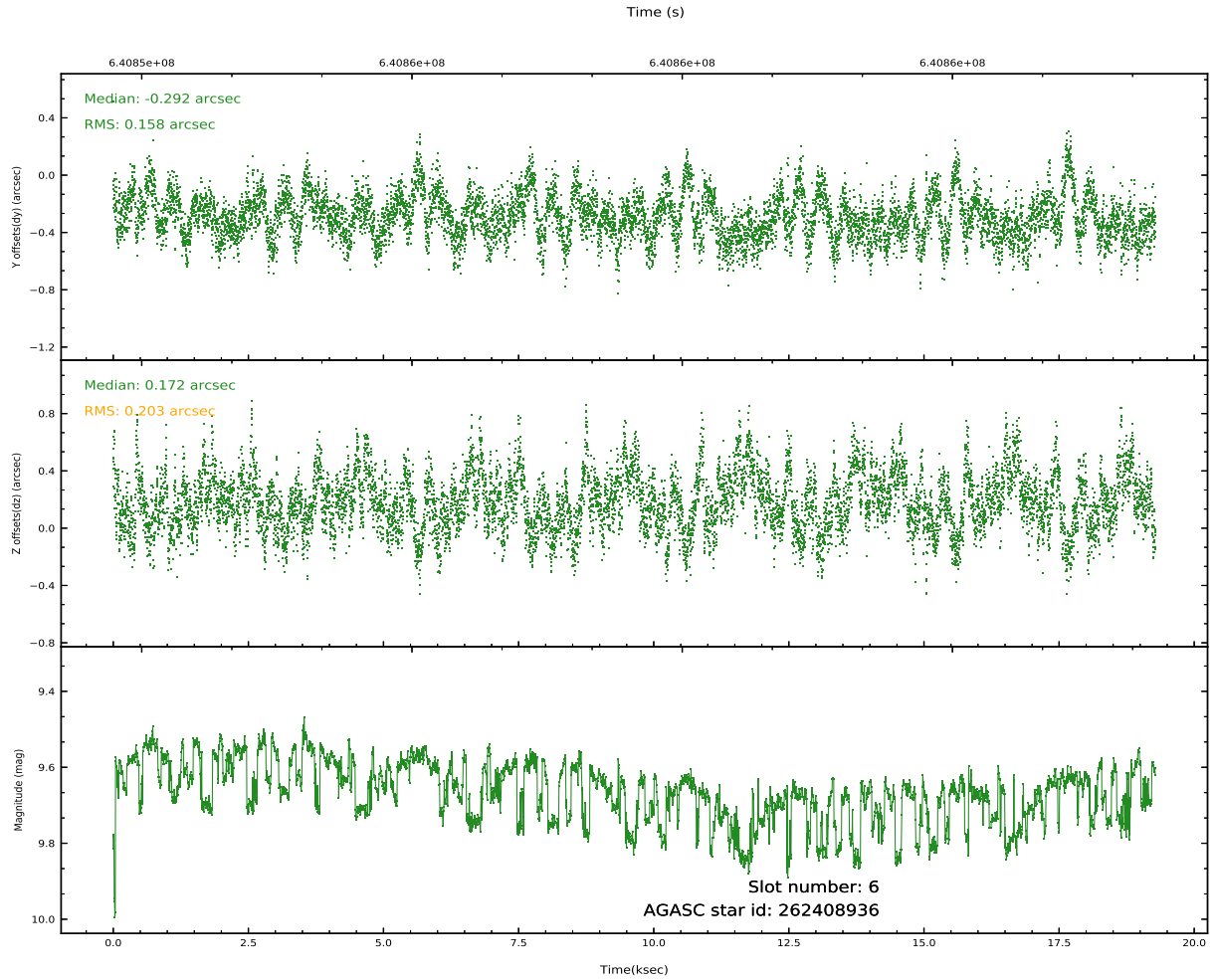
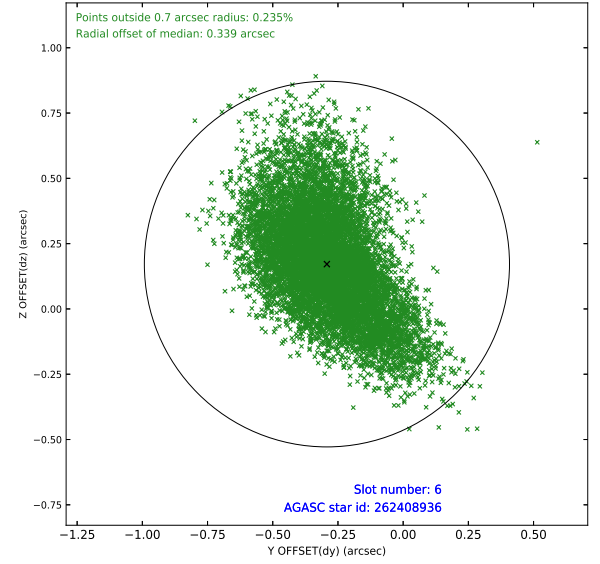
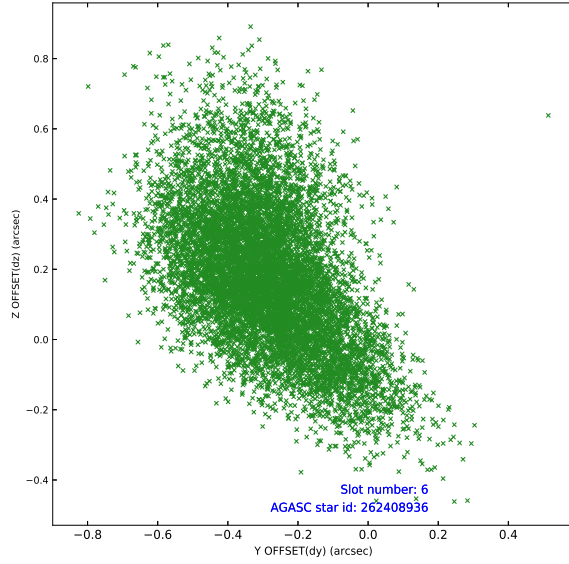
2.4.2 Slot 4



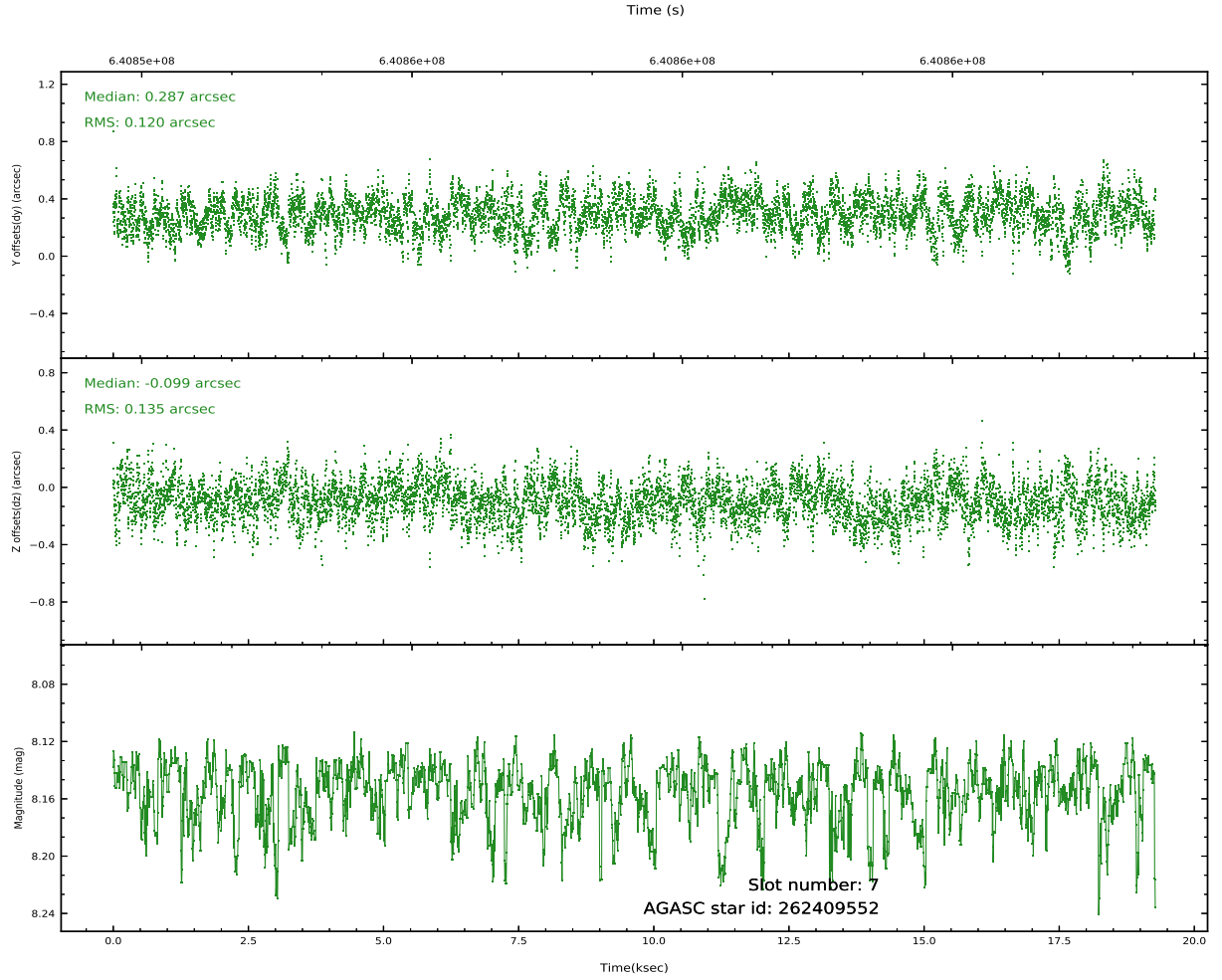
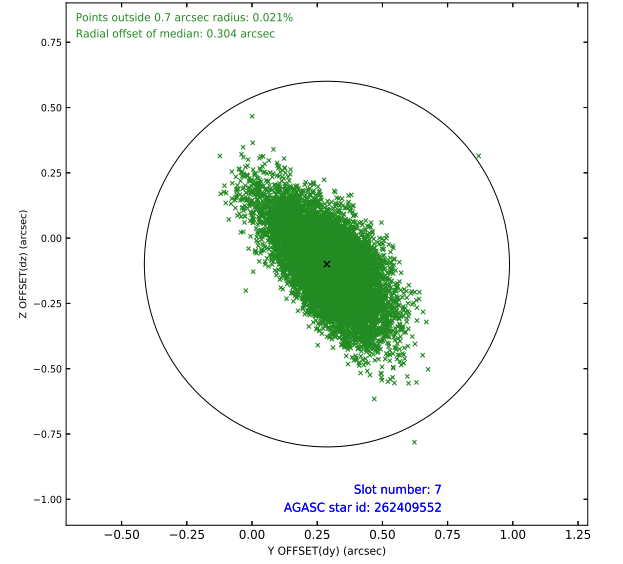
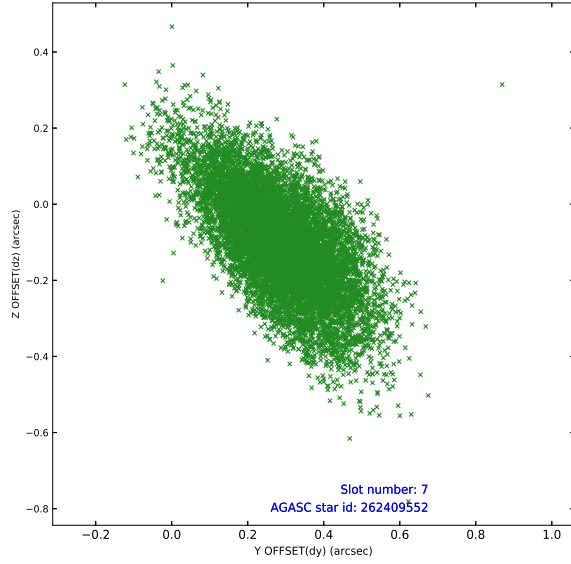
2.4.3 Slot 5



2.4.4 Slot 6

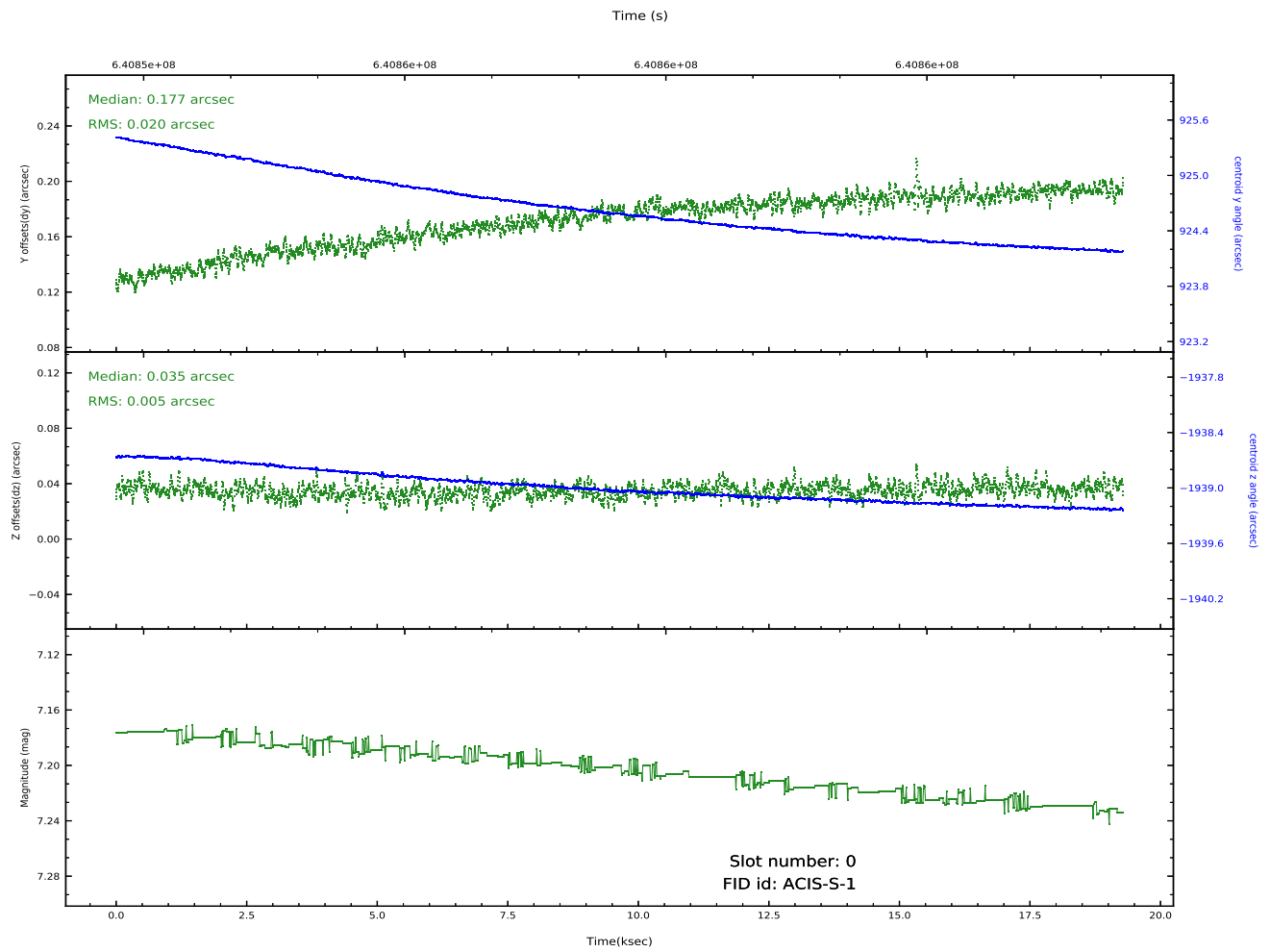
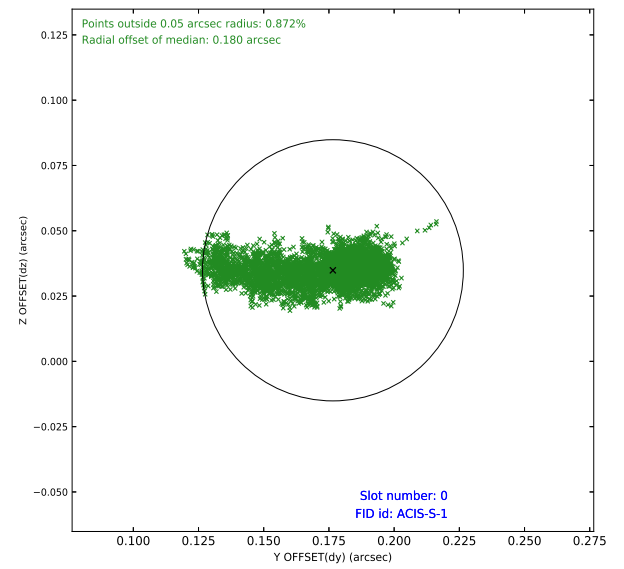
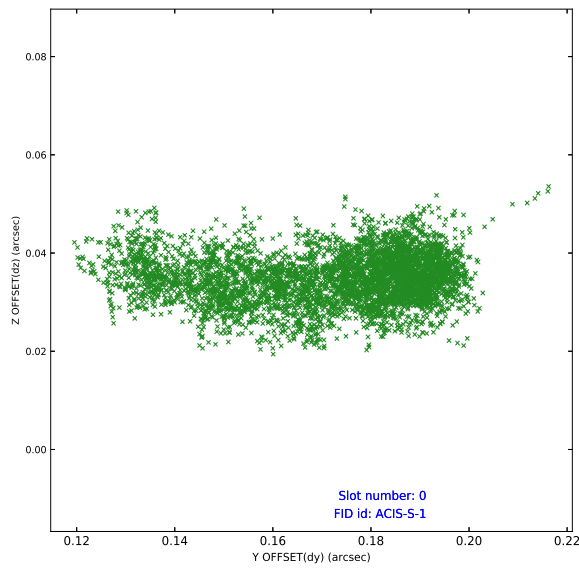


2.4.5 Slot 7

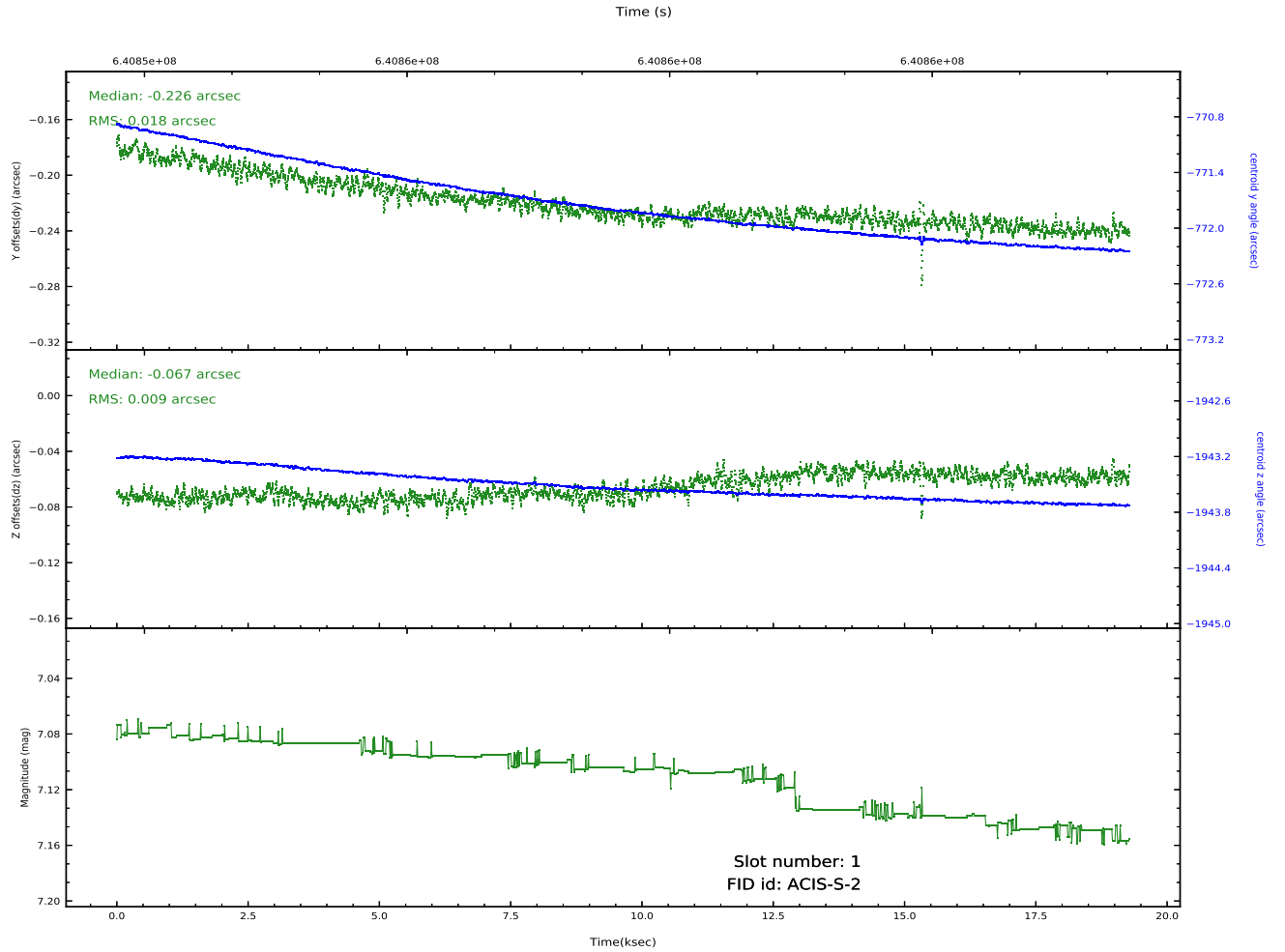
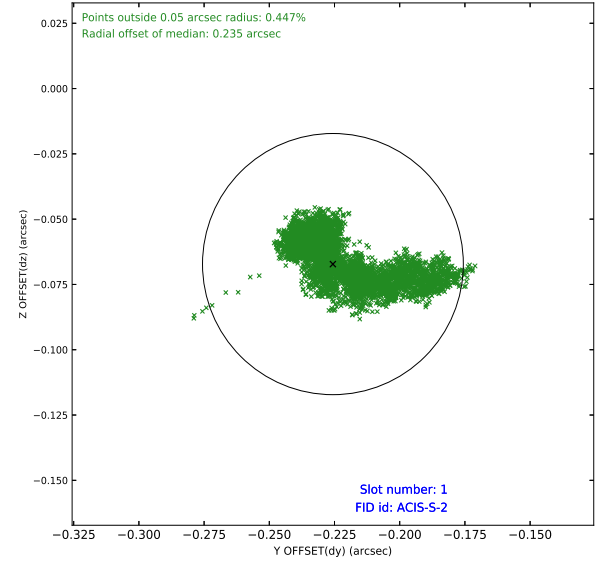
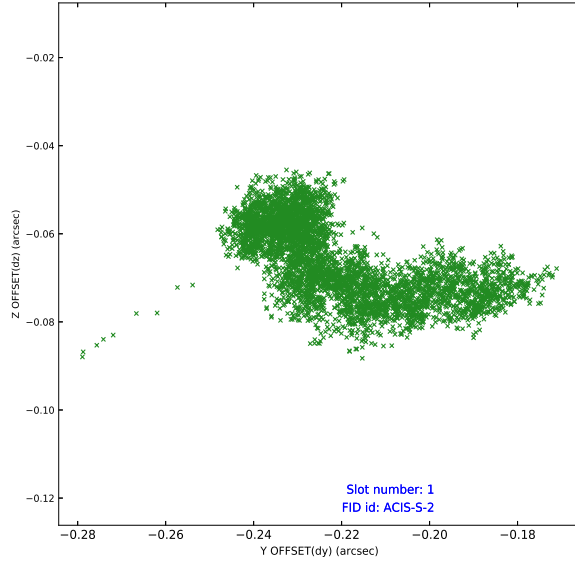


2.5 FID Slots

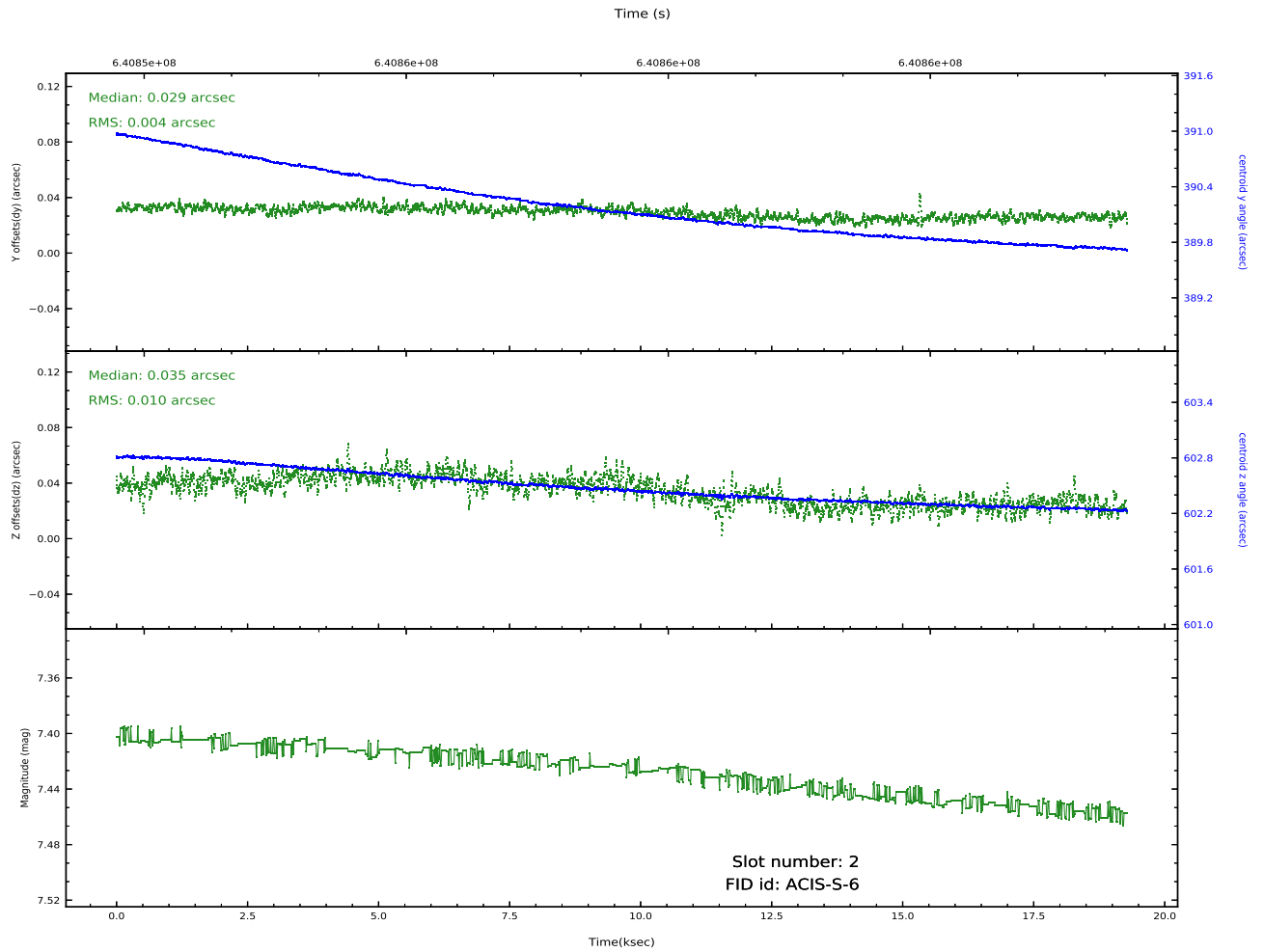
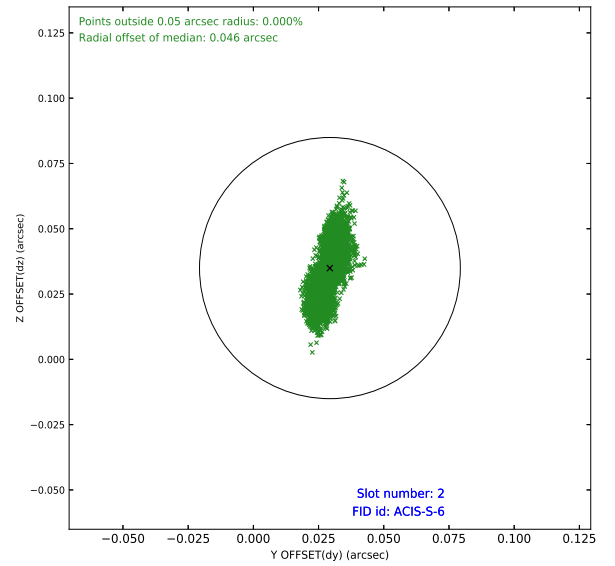
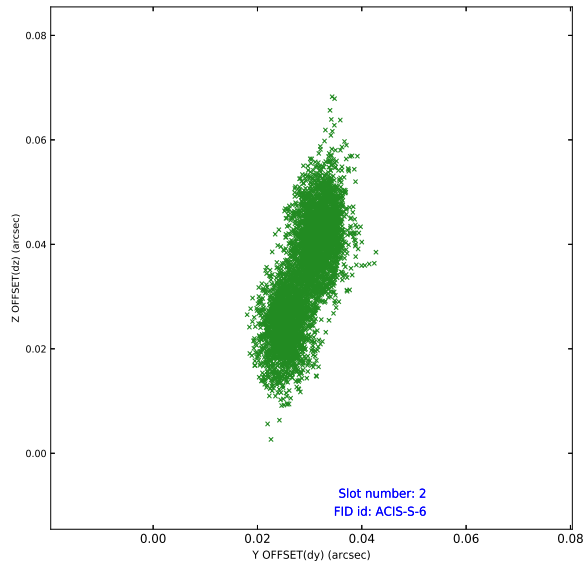
2.5.1 Slot 0



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)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.040200146556

A.2 Comments

Window constraint was met.