

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 7238 - L2 Version 3
Chandra X-Ray Center

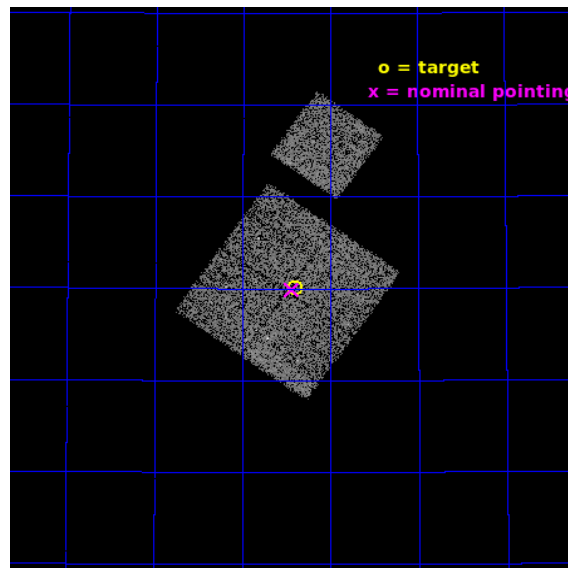
L2 Processing Date : Oct 11 2020

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1 Front

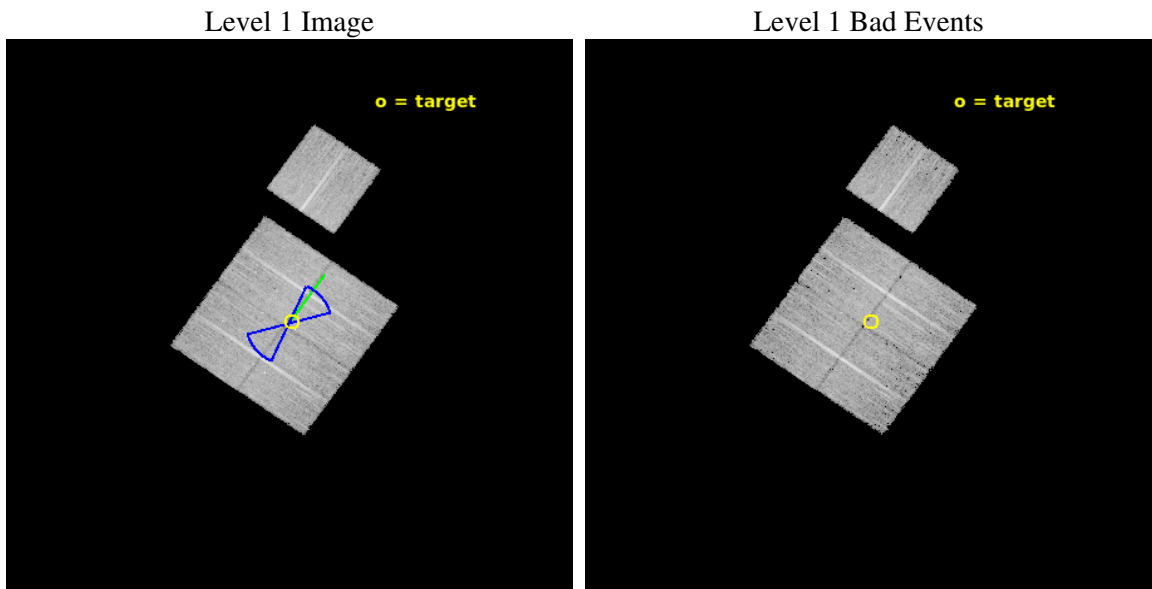
seq_num	900353	Sequence number
obs_id	7238	Observation id
title	Deep Chandra Imaging of the Extended Groth Strip: The Co-evolution of Black Holes and Galaxies	Proposal title
observer	Prof Kirpal Nandra	Principal investigator
object	Extended Groth Strip (EGS)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	214.102081	Observer's specified target RA [deg]
dec_targ	52.334053	Observer's specified target Dec [deg]
ra_nom	214.10969929161	Nominal RA [deg]
dec_nom	52.331313951406	Nominal Dec [deg]
roll_nom	35.192664811974	Nominal Roll [deg]
revision	3	Processing version of data
ontime	9653.3590111136	Sum of GTIs [s]
livetime	9527.2307689339	Livetime [s]
ontime0	9656.4999814034	Sum of GTIs [s]
ontime1	9653.3590011001	Sum of GTIs [s]
ontime2	9650.2180309296	Sum of GTIs [s]
ontime3	9653.3590111136	Sum of GTIs [s]
ontime6	9656.4999814034	Sum of GTIs [s]
l2events	27422	Number of level 2 events



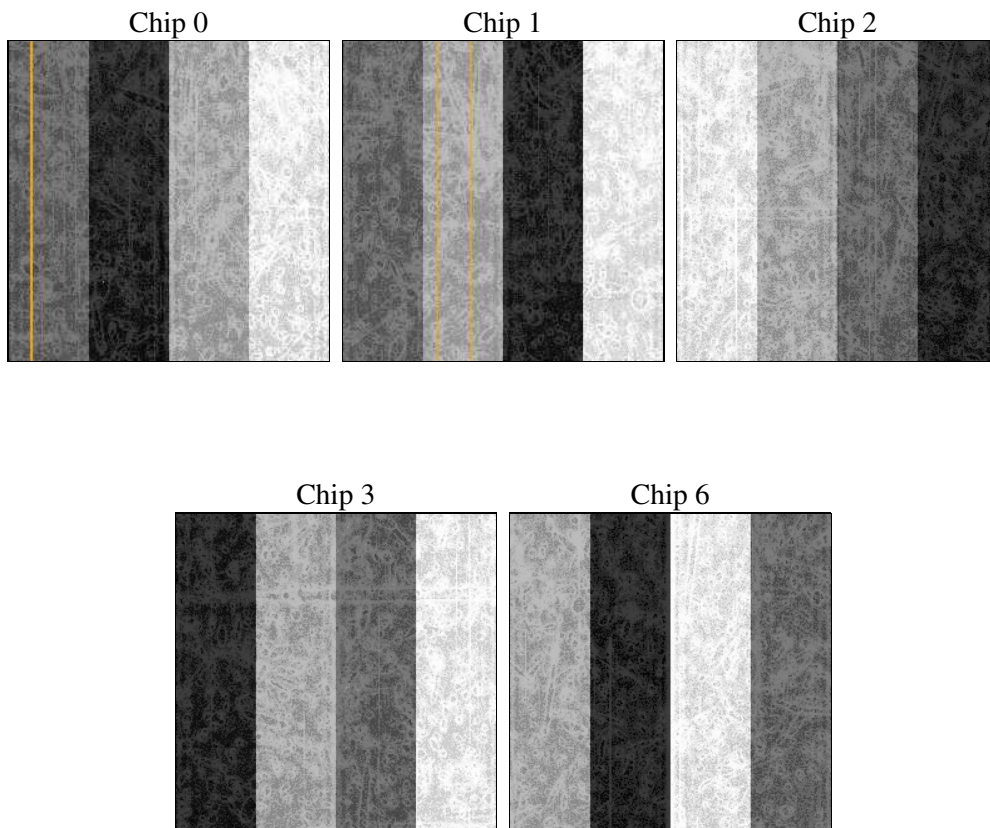
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	9653.3590111136	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	9656.4999814034	Sum of GTIs [s]
date	2020-10-12T02:31:50	Date and time of file creation	ontime1	9653.3590011001	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	9650.2180309296	Sum of GTIs [s]
			ontime3	9653.3590111136	Sum of GTIs [s]
			ontime6	9656.4999814034	Sum of GTIs [s]
			l1events	327478	Number of level 1 events

2.1.4 Events

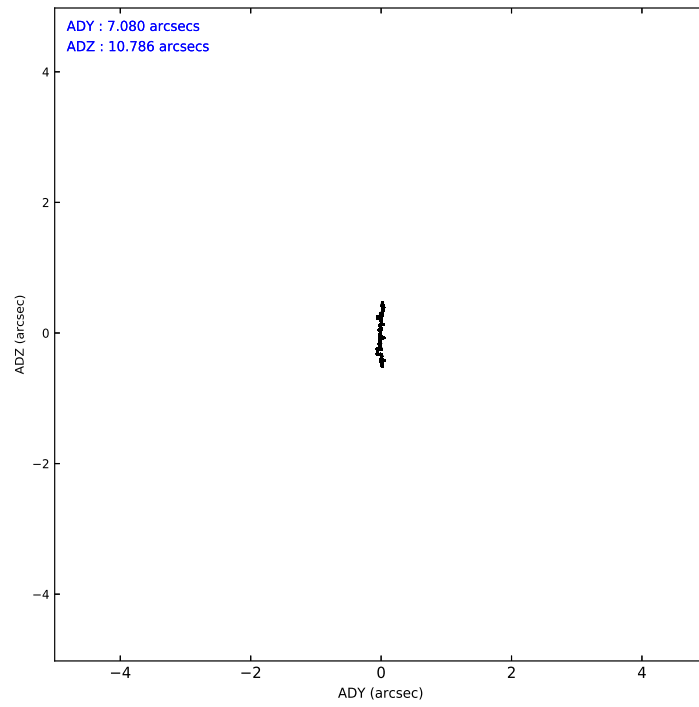
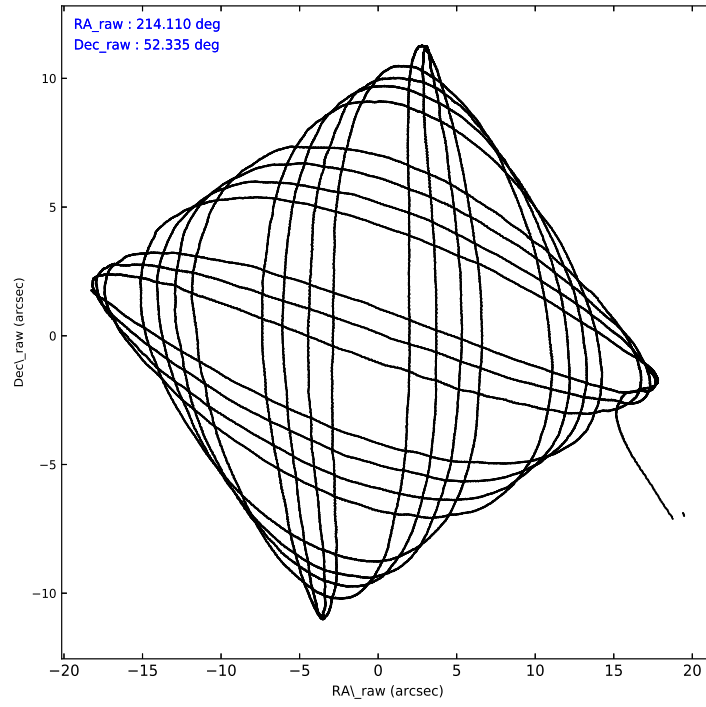
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	61938	60199	70296	67586	67459
rejected events	55458	52906	63907	61310	60813
rejected %	89%	87%	90%	90%	90%

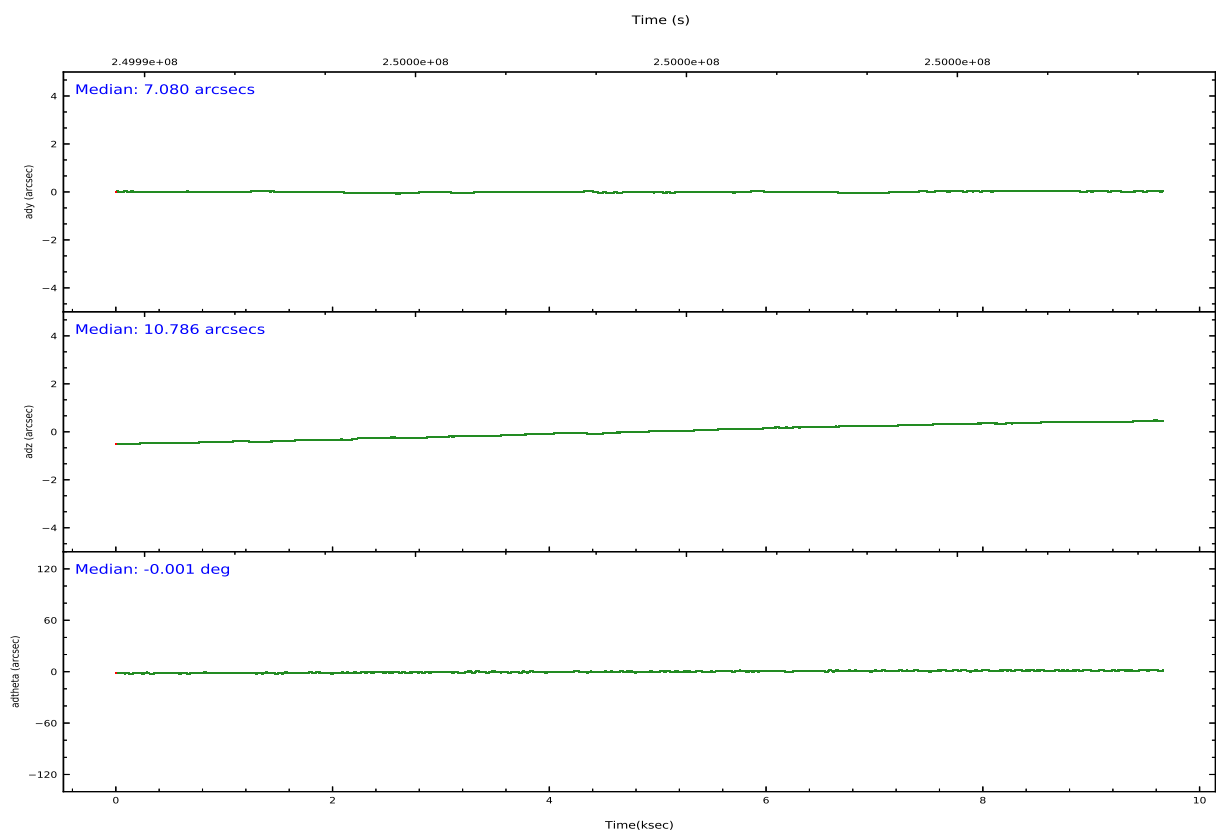
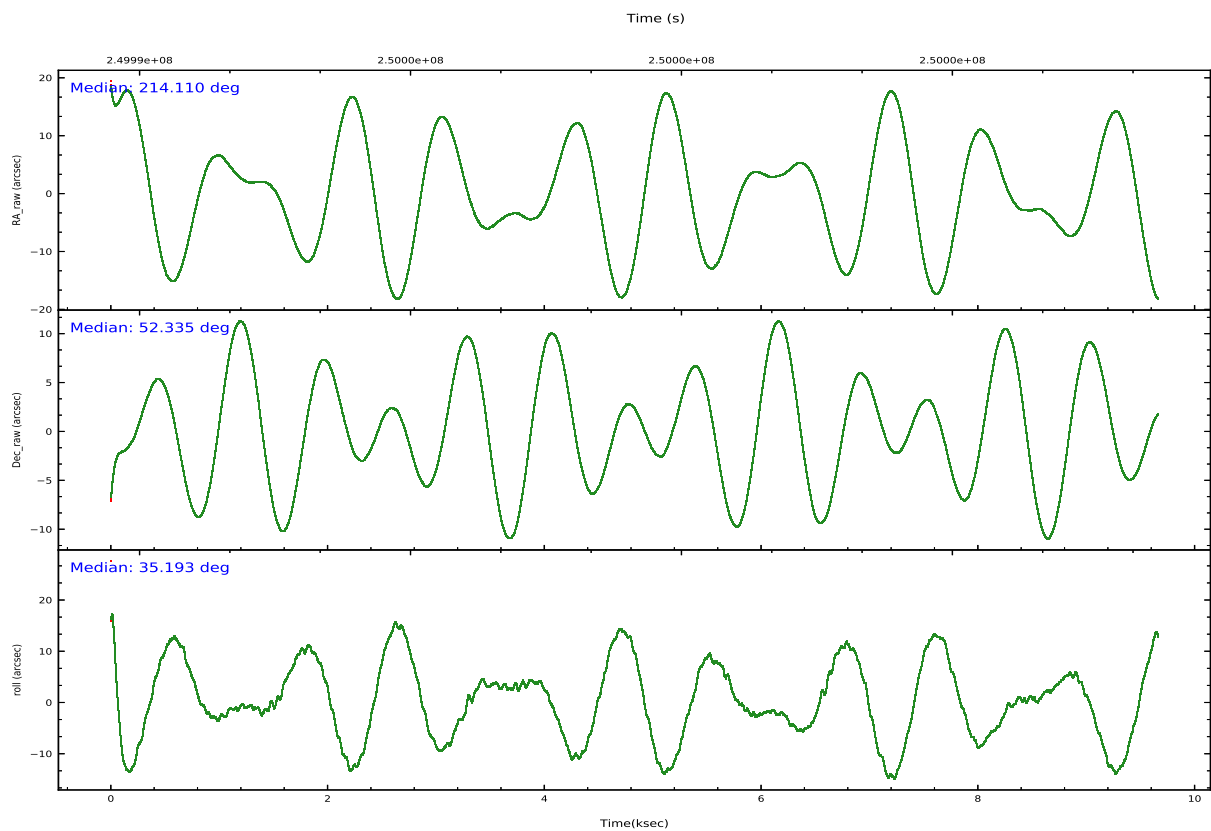
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2260	2795	2301	2303	2335
	3%	4%	3%	3%	3%
grade 1 events	34	32	35	35	25
	0%	0%	0%	0%	0%
grade 2 events	1584	1634	1550	1299	1446
	2%	2%	2%	1%	2%
grade 3 events	736	790	700	734	766
	1%	1%	0%	1%	1%
grade 4 events	710	783	726	728	777
	1%	1%	1%	1%	1%
grade 5 events	2319	2496	2158	2640	2668
	3%	4%	3%	3%	3%
grade 6 events	1315	1416	1229	1314	1441
	2%	2%	1%	1%	2%
grade 7 events	52980	50253	61597	58533	58001
	85%	83%	87%	86%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	214.090878	214.10969929161	Subarray requested	NONE	NONE
[deg] Pointing Dec	52.310136	52.331313951406	Alternating exposures requested	N	N
[deg] Pointing Roll	35.008870	35.192664811974	[s] Primary exposure time	0.000000	3.1
[deg] Roll angle	50.756000	50.756000			
[deg] Roll tolerance	25.000000	25.000000			
Roll constraint allows 180D rotation	Y	Y			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	249992399.184000	249991330.15168			
Observation start date	2005-12-03T10:18:55	2005-12-03T10:02:10			
[s] Observation end time (MET)	250001899.184000	250002033.20218			
Observation end date	2005-12-03T12:57:15	2005-12-03T13:00:33			
Read mode	TIMED	TIMED			

2.3 Aspect



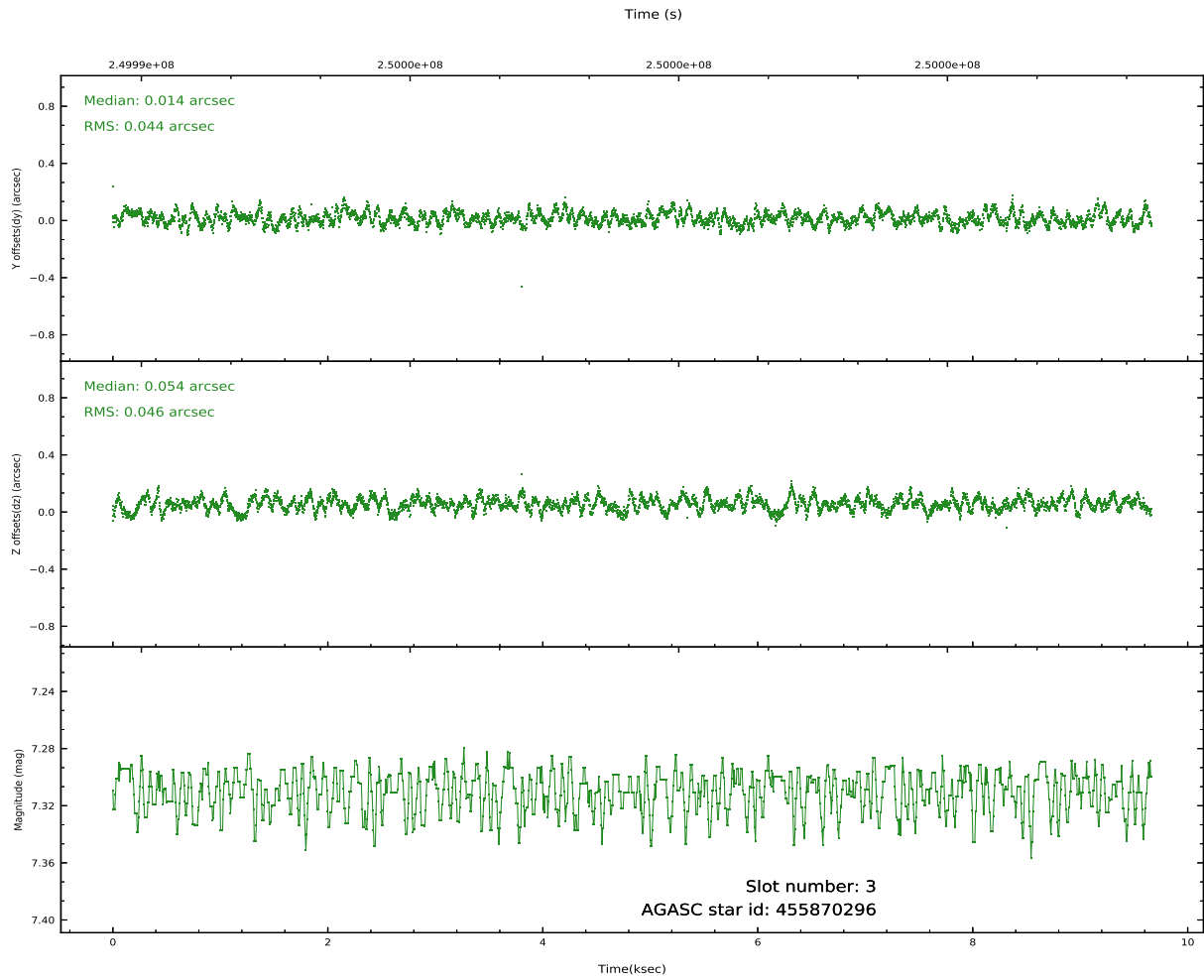
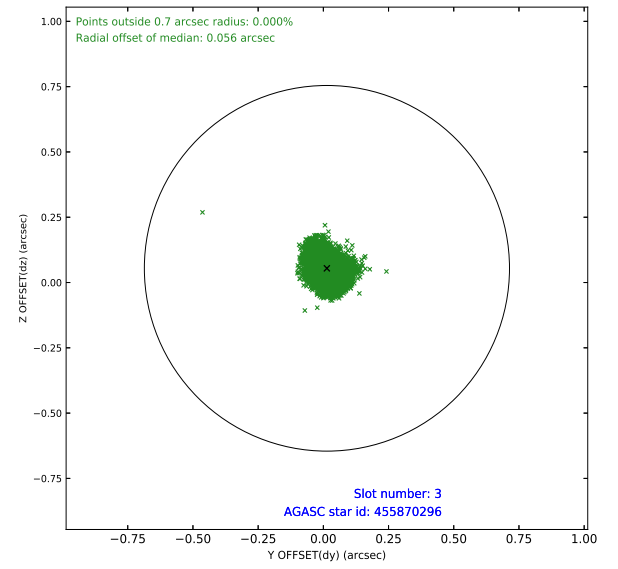
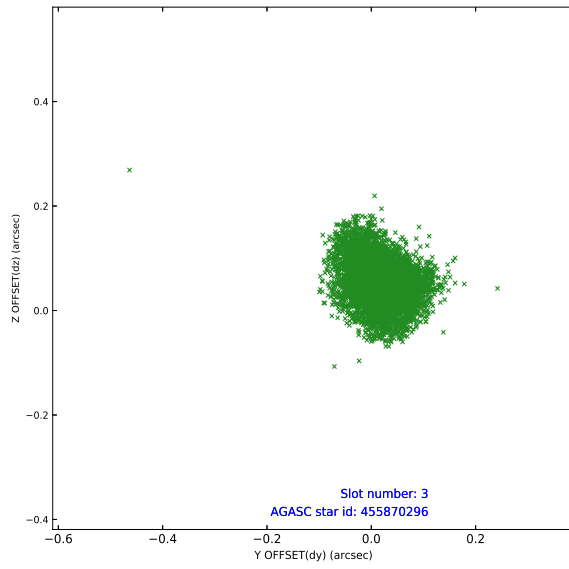


Slot Statistics

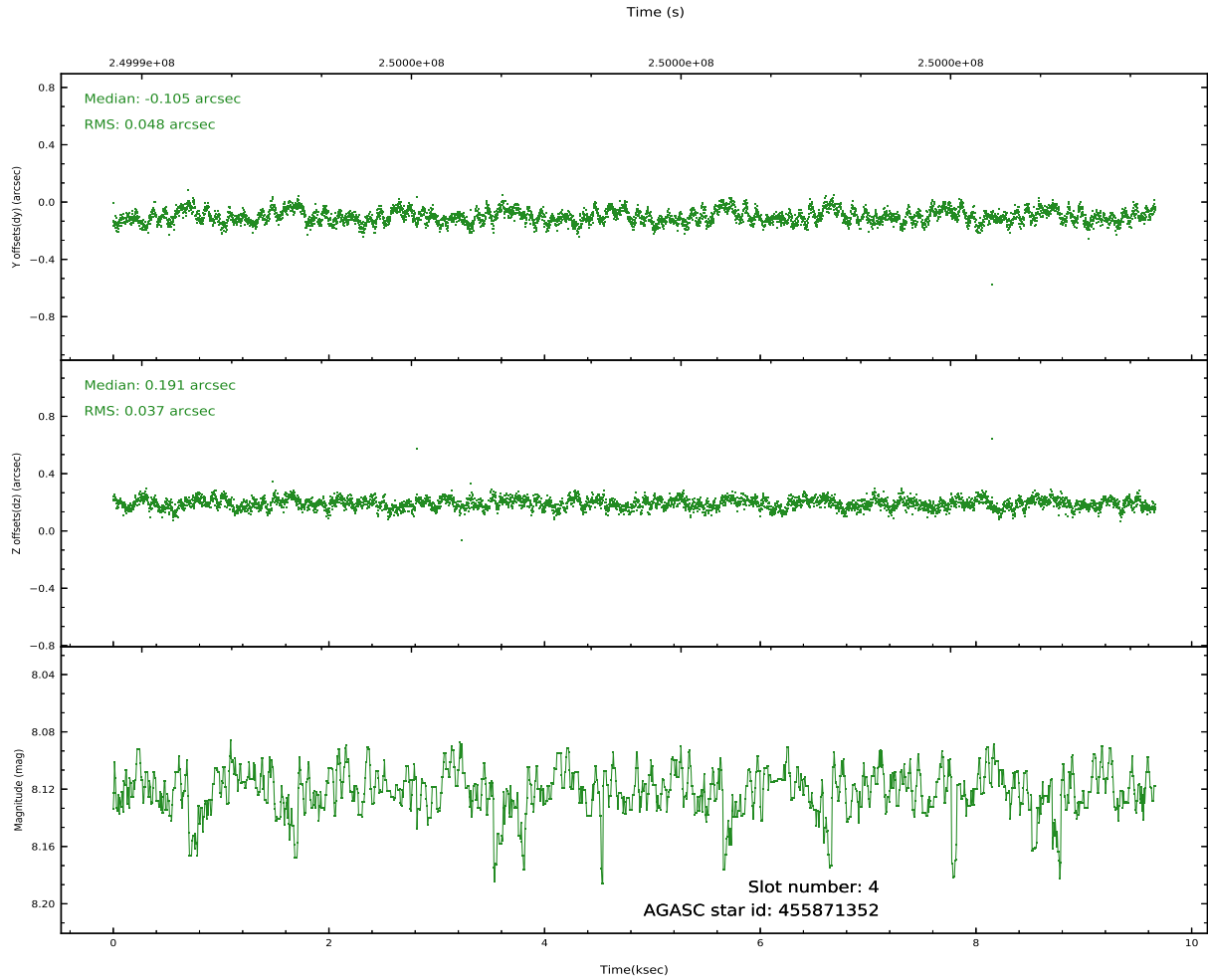
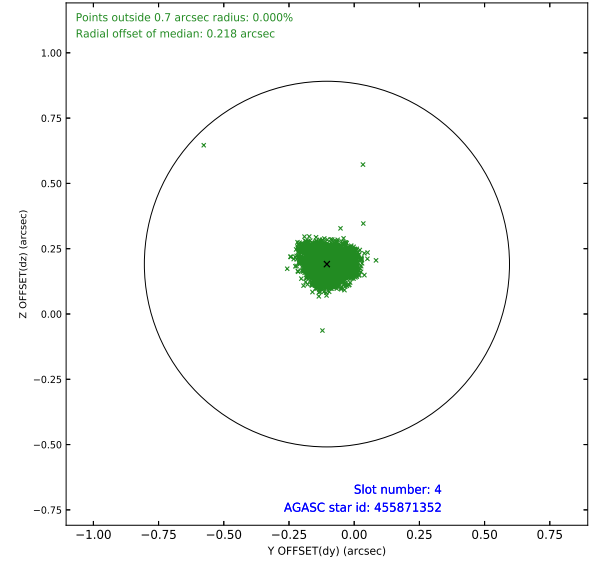
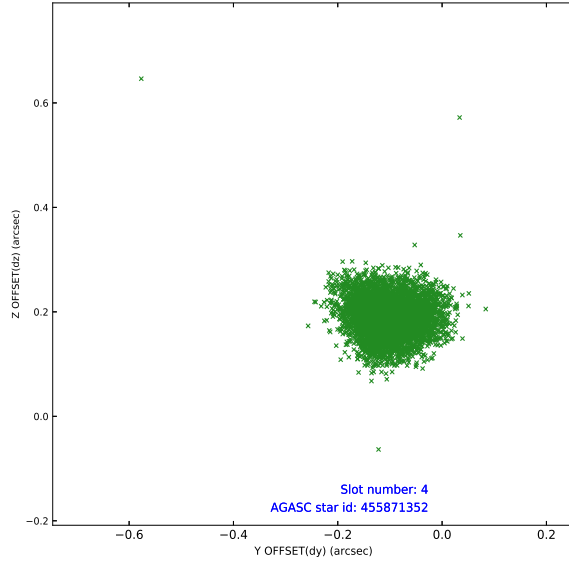
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	2358	1.000	0.042	-0.045	0.015	0.024	0.000000	0.000000	932.63	-834
1	FID		ACIS-I-5	7.23	2358	1.000	-0.205	0.040	0.010	0.016	0.000000	0.000000	-1815.40	1062
2	FID		ACIS-I-6	7.25	2358	1.000	0.072	0.075	0.010	0.016	0.000000	0.000000	397.63	1708
3	GUIDE	used	455870296	7.31	4715	1.000	0.014	0.054	0.069	0.105	214.629779	52.033323	408.83	-1496
4	GUIDE	used	455871352	8.12	4714	1.000	-0.105	0.191	0.065	0.102	215.099961	52.172669	1550.23	-1670
5	GUIDE	used	505806936	7.01	4715	1.000	0.066	0.005	0.068	0.112	213.820815	52.535927	-17.11	1005
6	GUIDE	used	505812376	7.57	4714	1.000	-0.131	-0.098	0.059	0.090	214.039537	52.937930	1204.90	1915
7	GUIDE	used	504894728	8.82	4714	1.000	0.147	-0.150	0.078	0.125	213.220892	52.722550	-695.23	2314

2.4 Star Slots

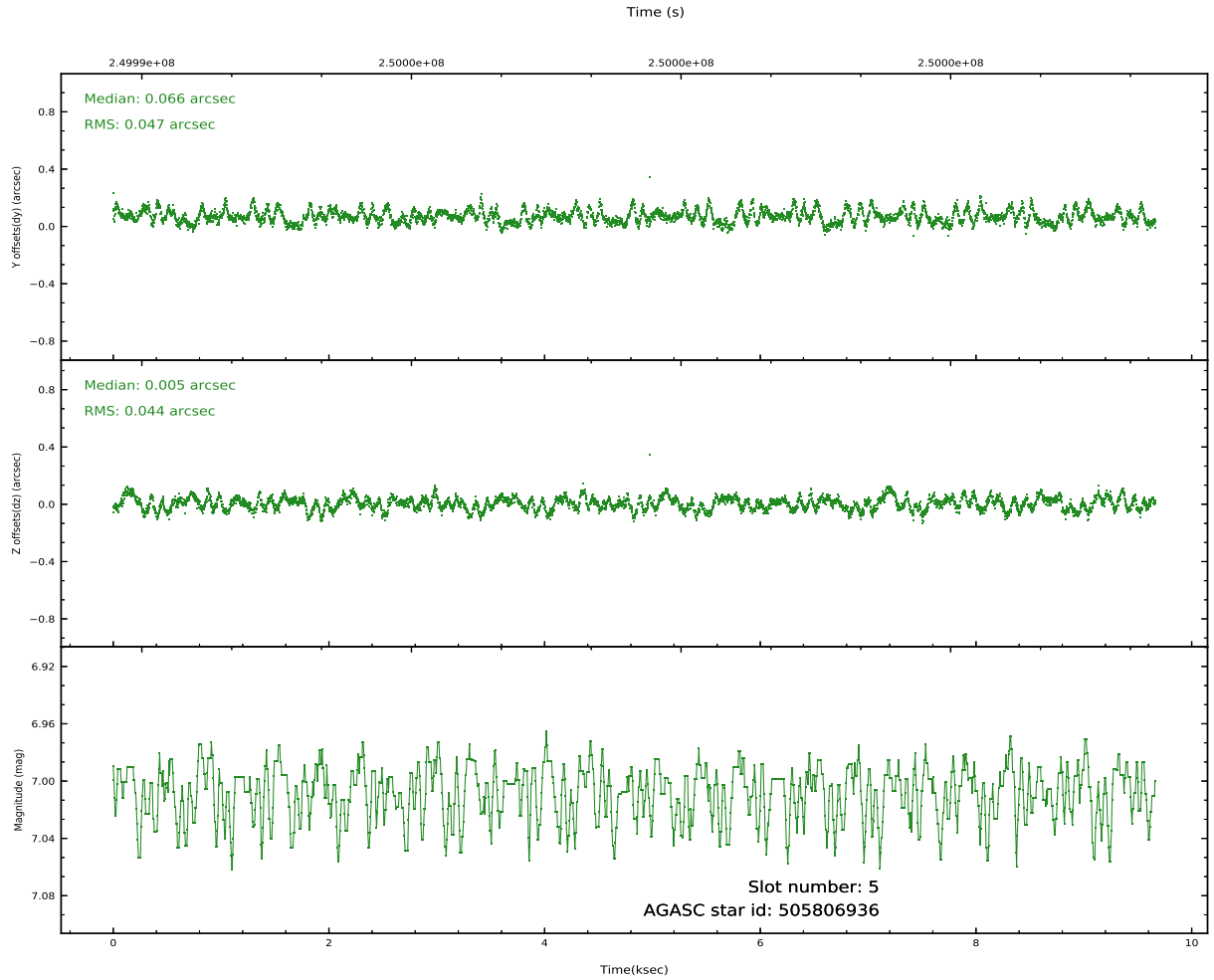
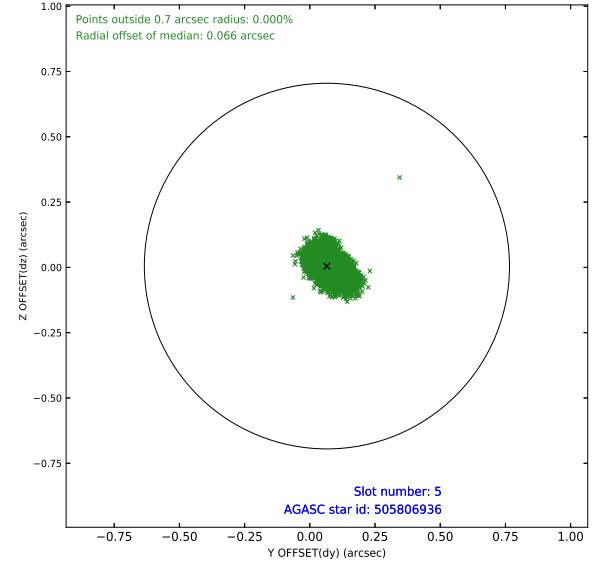
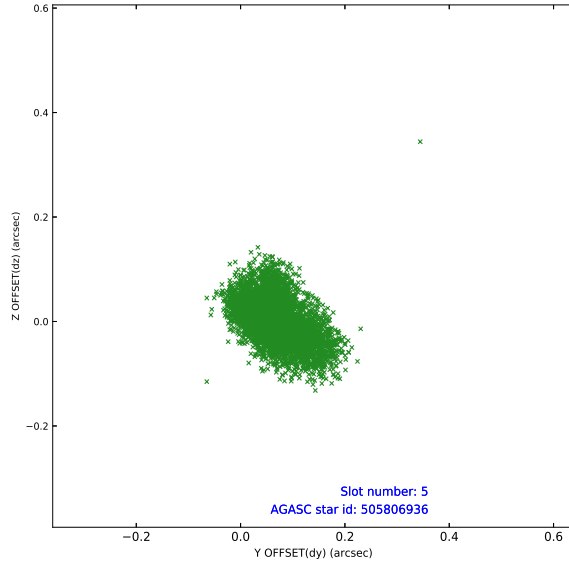
2.4.1 Slot 3



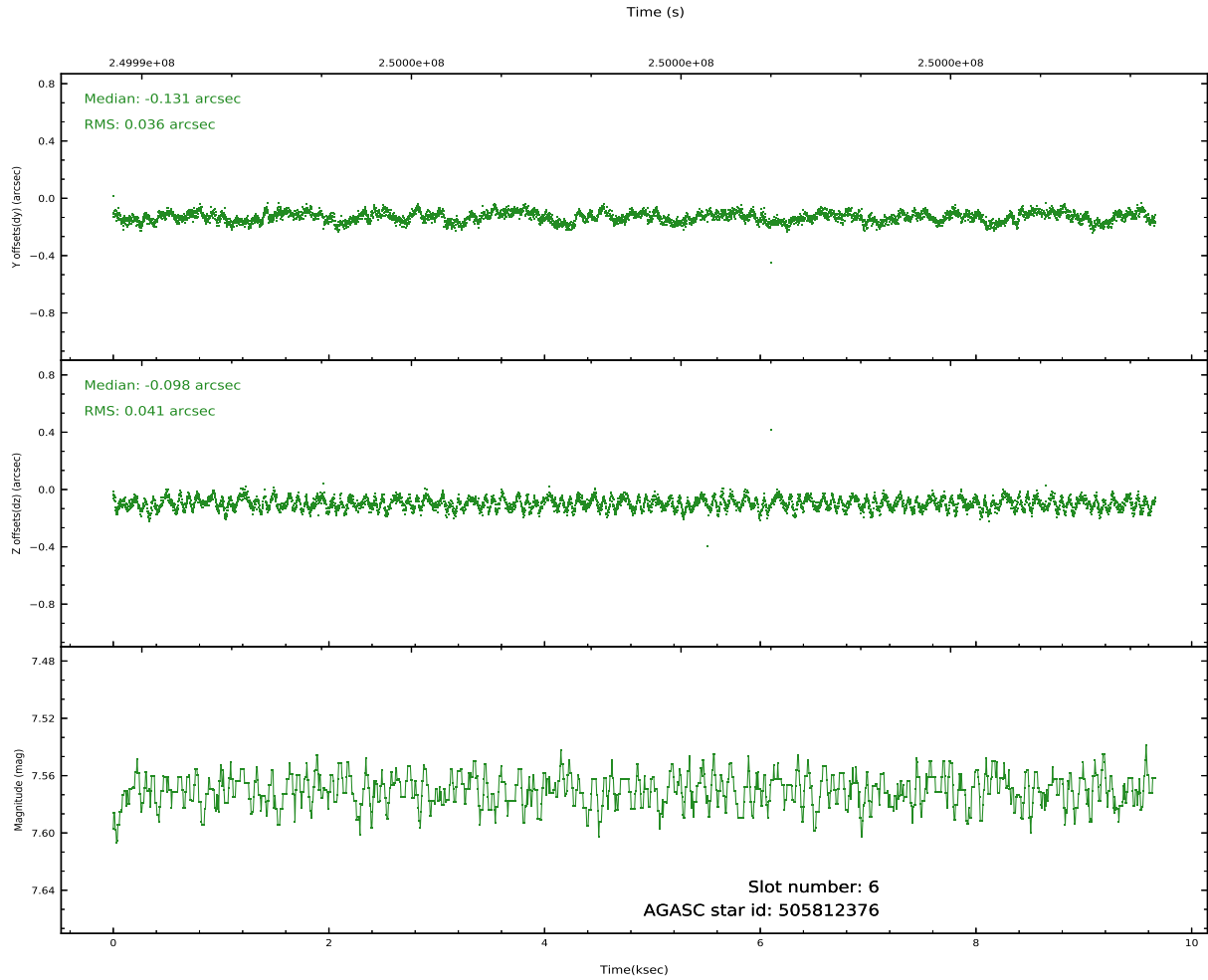
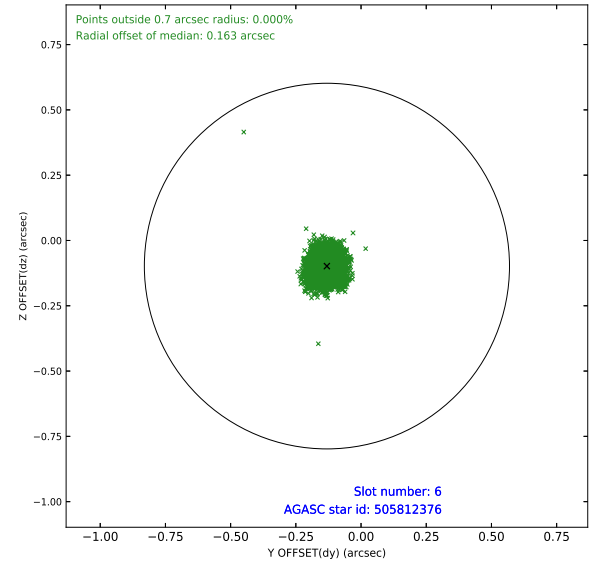
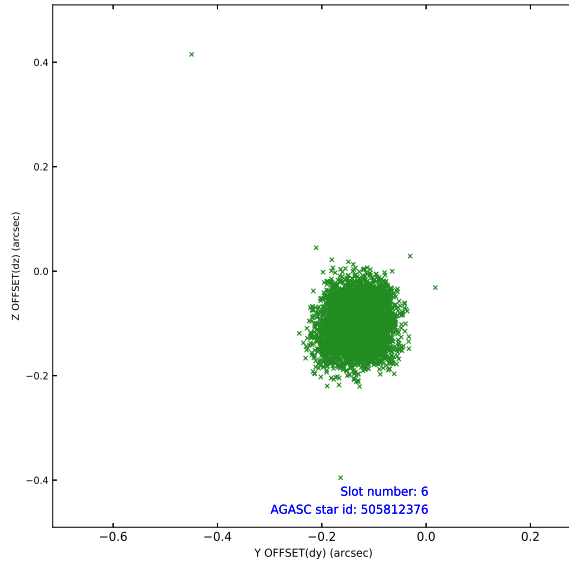
2.4.2 Slot 4



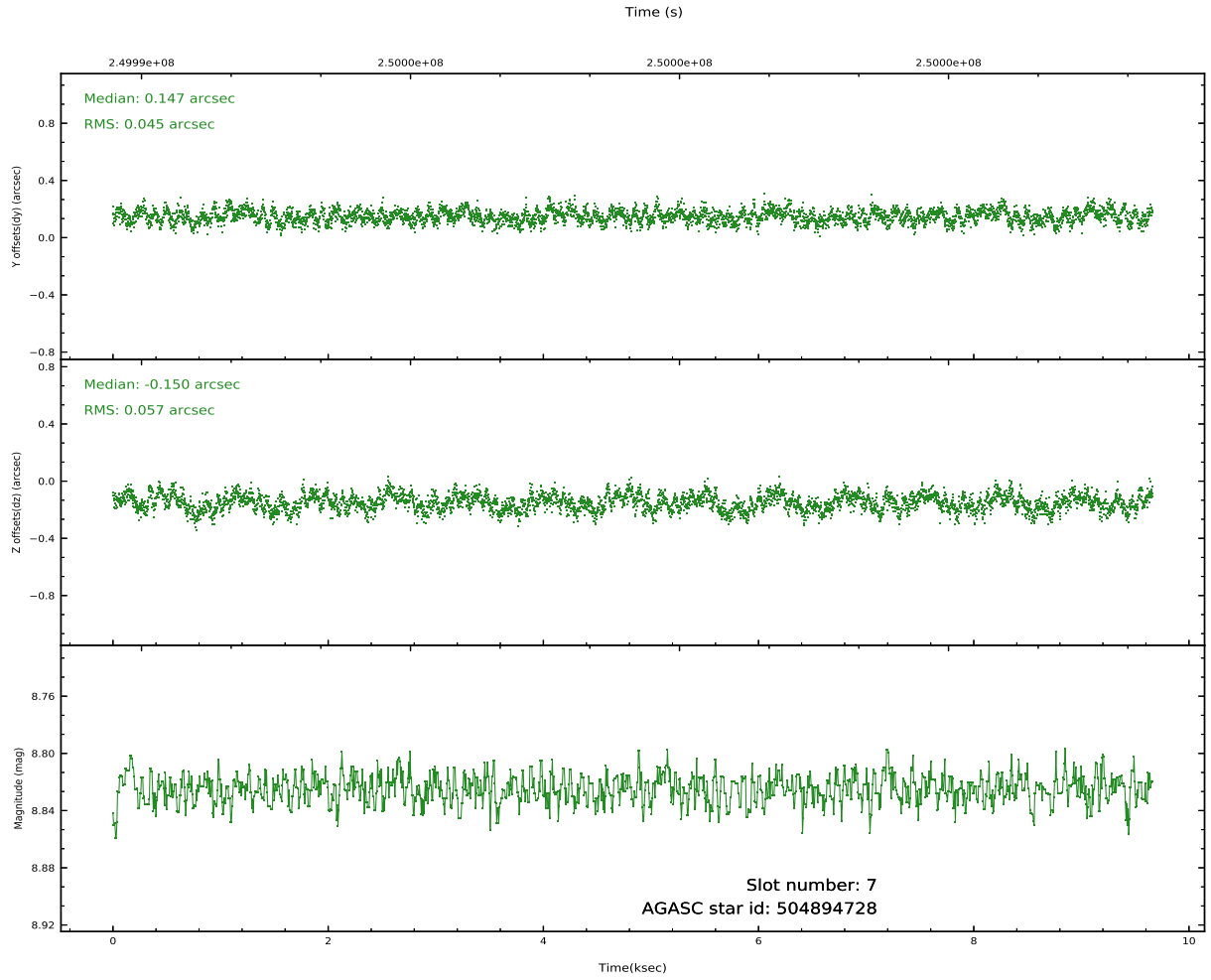
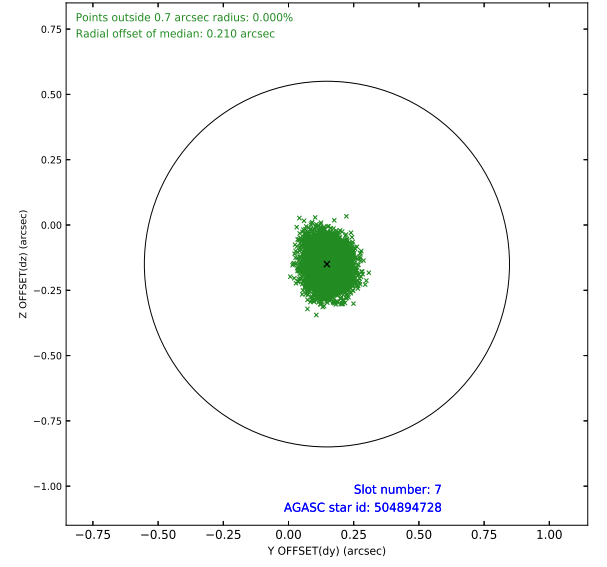
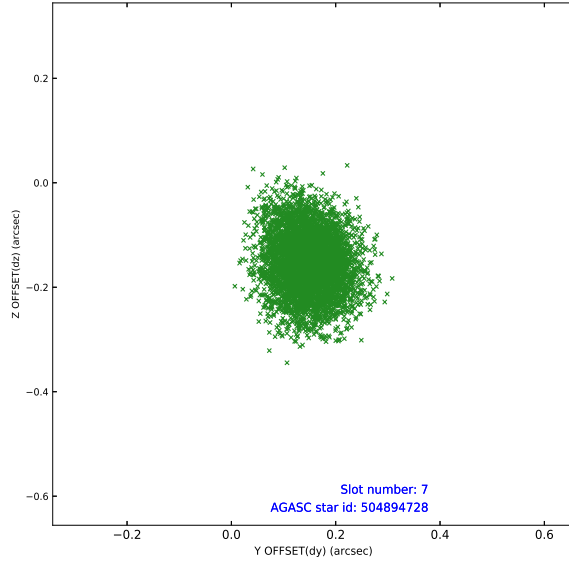
2.4.3 Slot 5



2.4.4 Slot 6

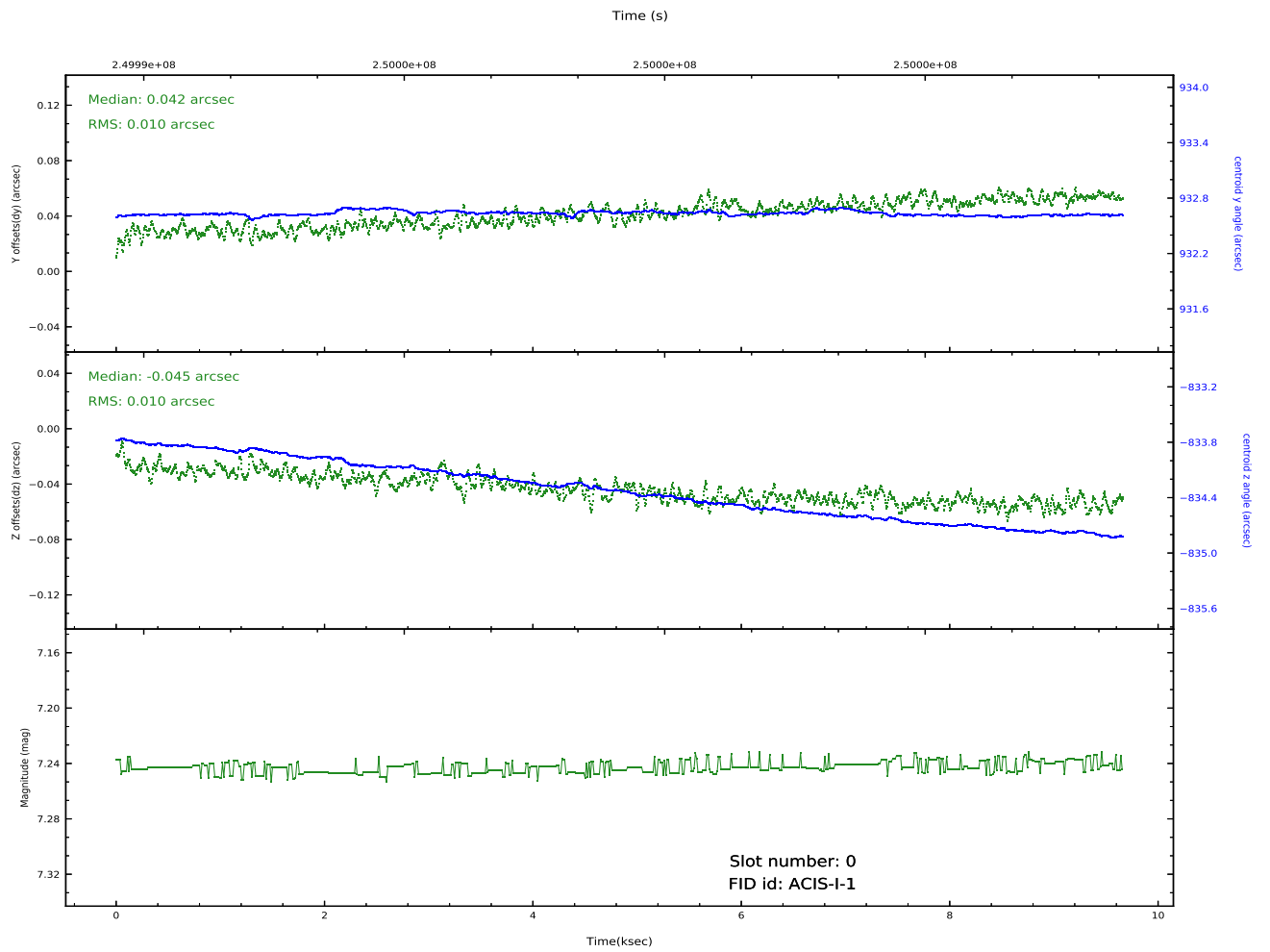
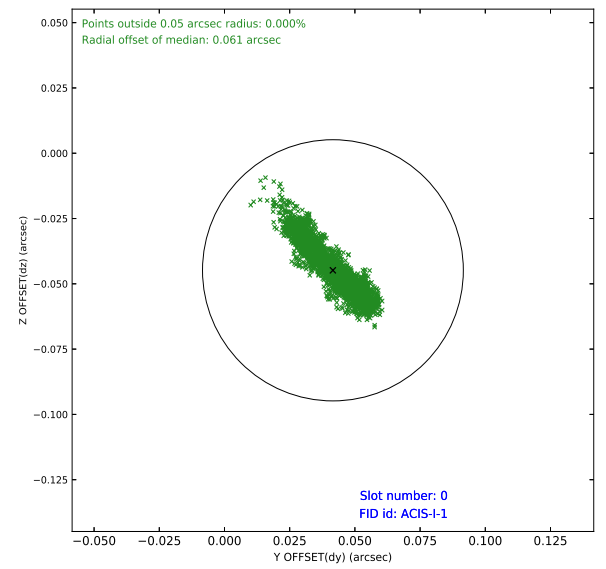
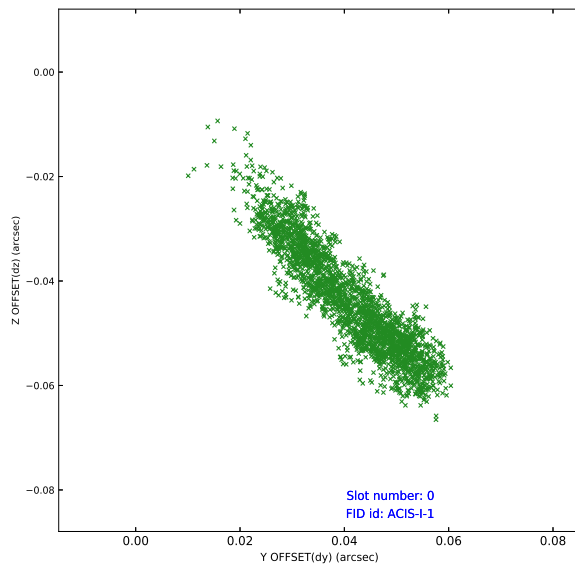


2.4.5 Slot 7

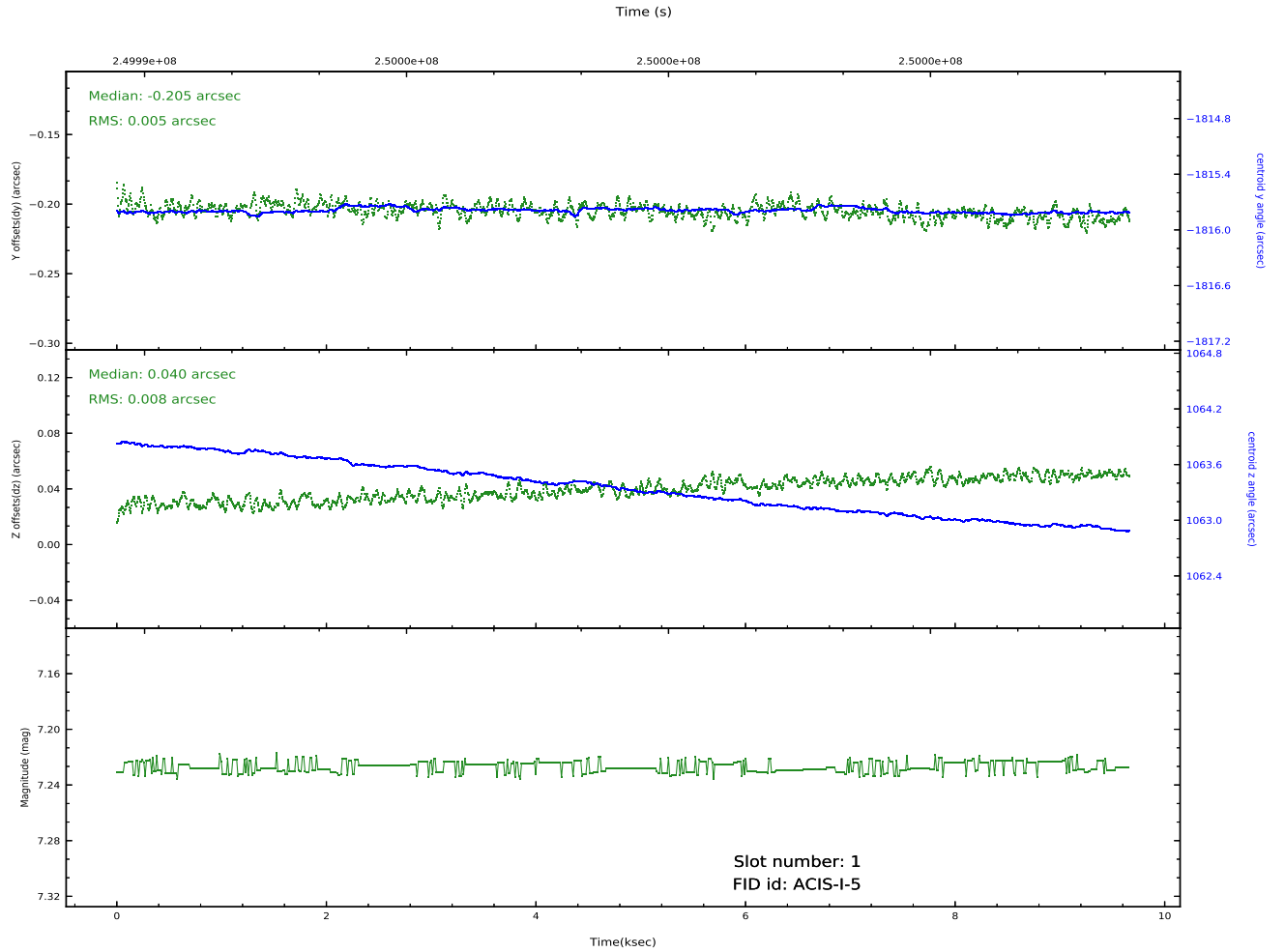
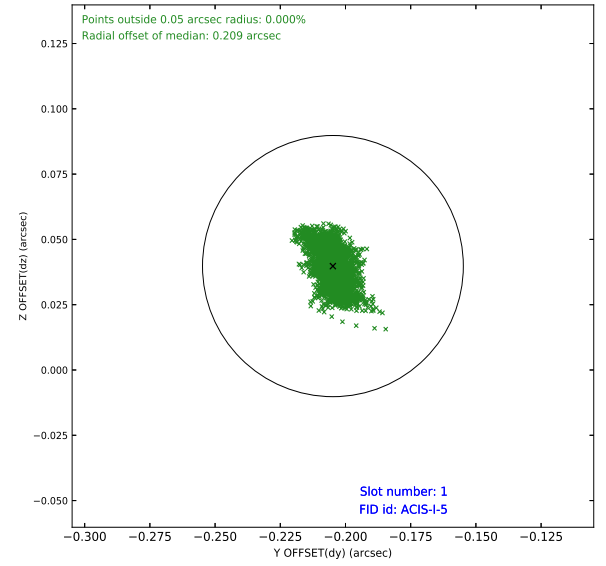
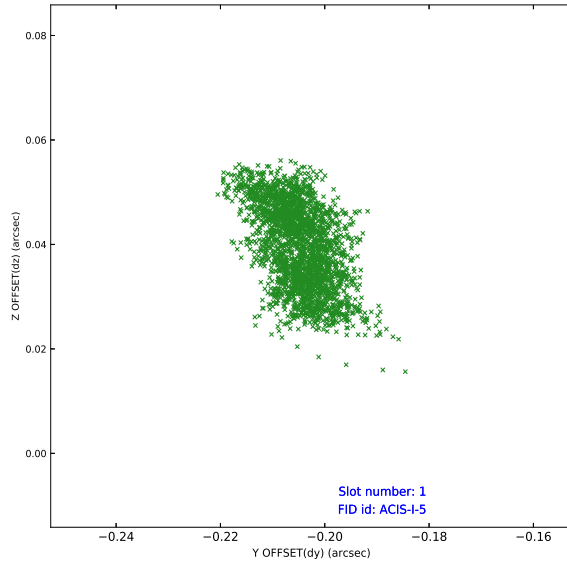


2.5 FID Slots

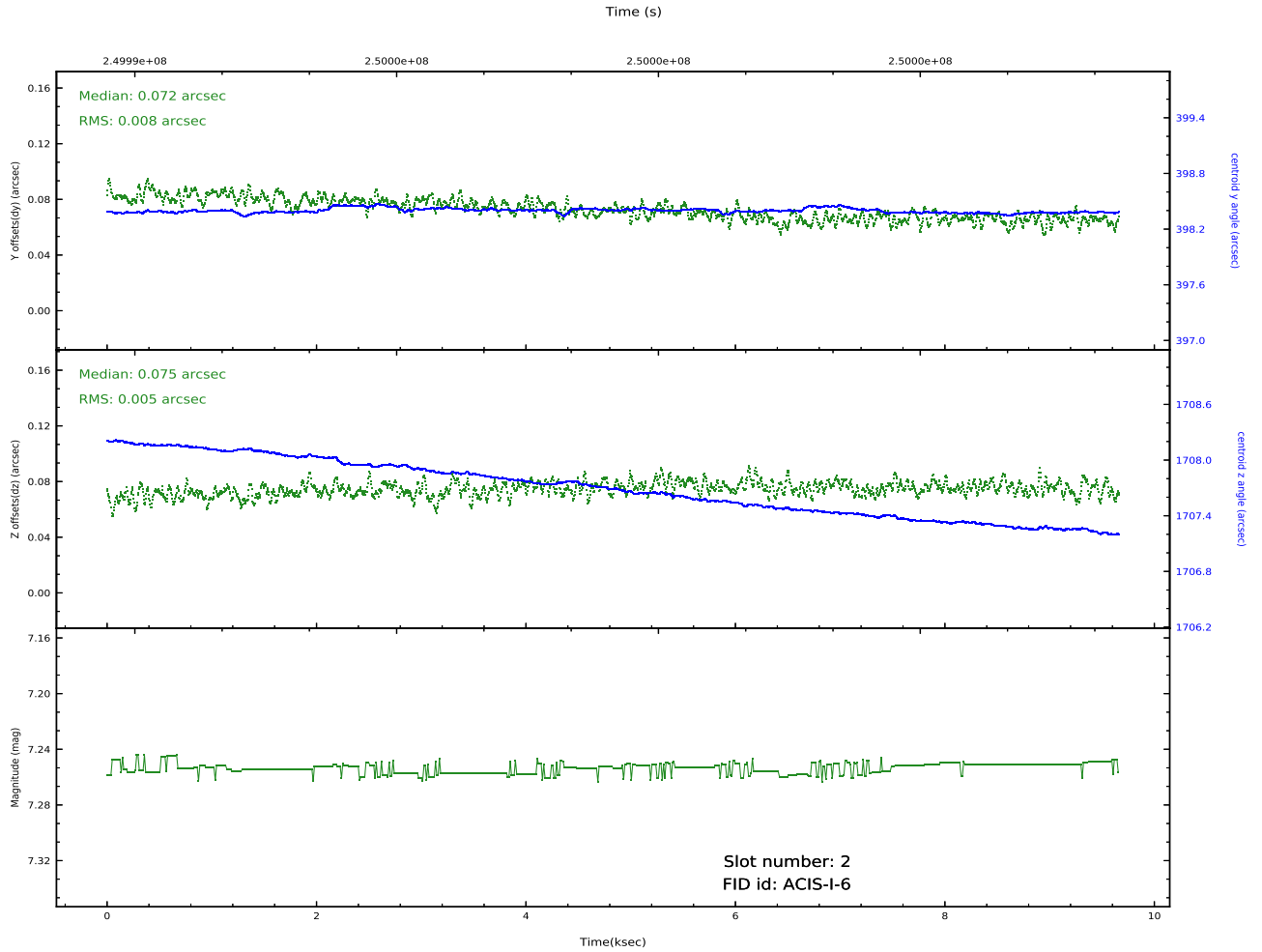
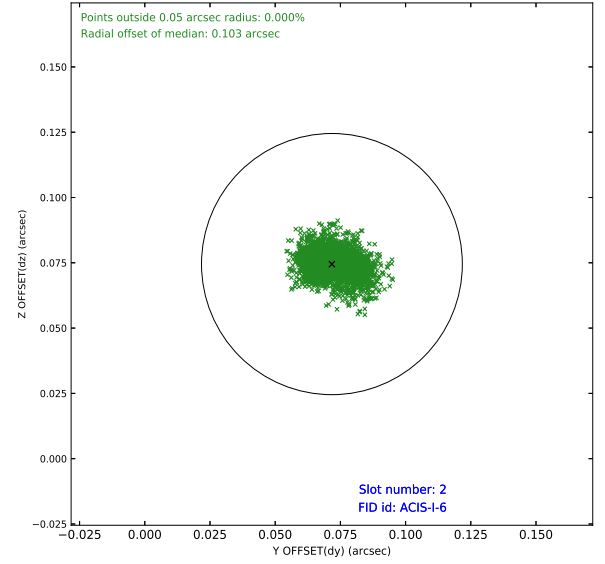
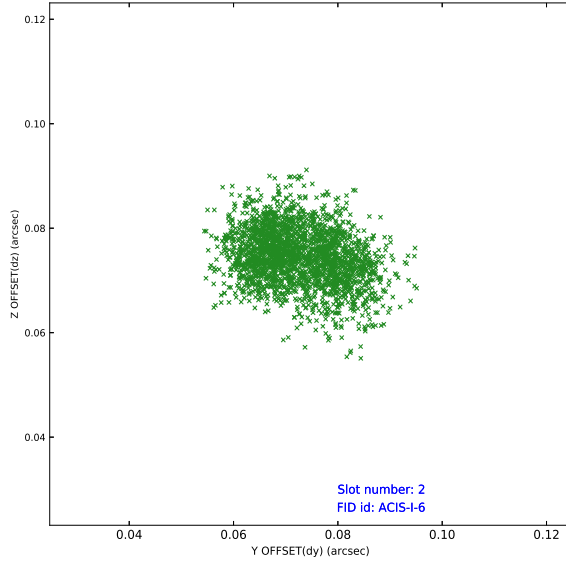
2.5.1 Slot 0



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)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.653359

A.2 Comments

Roll constraint met.