

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5591 - L2 Version 4
Chandra X-Ray Center

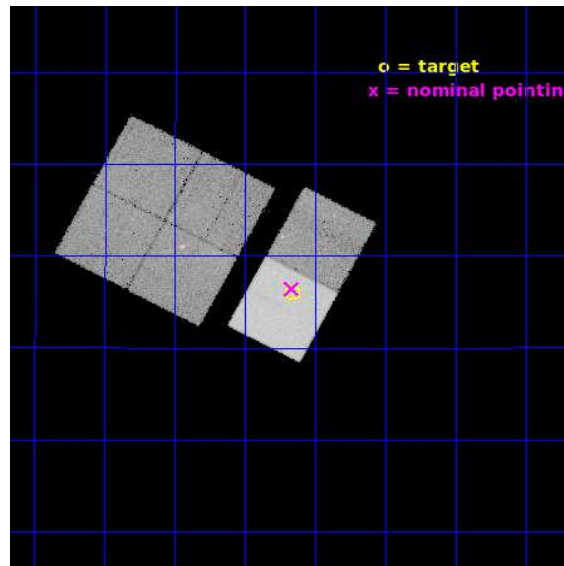
L2 Processing Date : Oct 7 2020

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1 Front

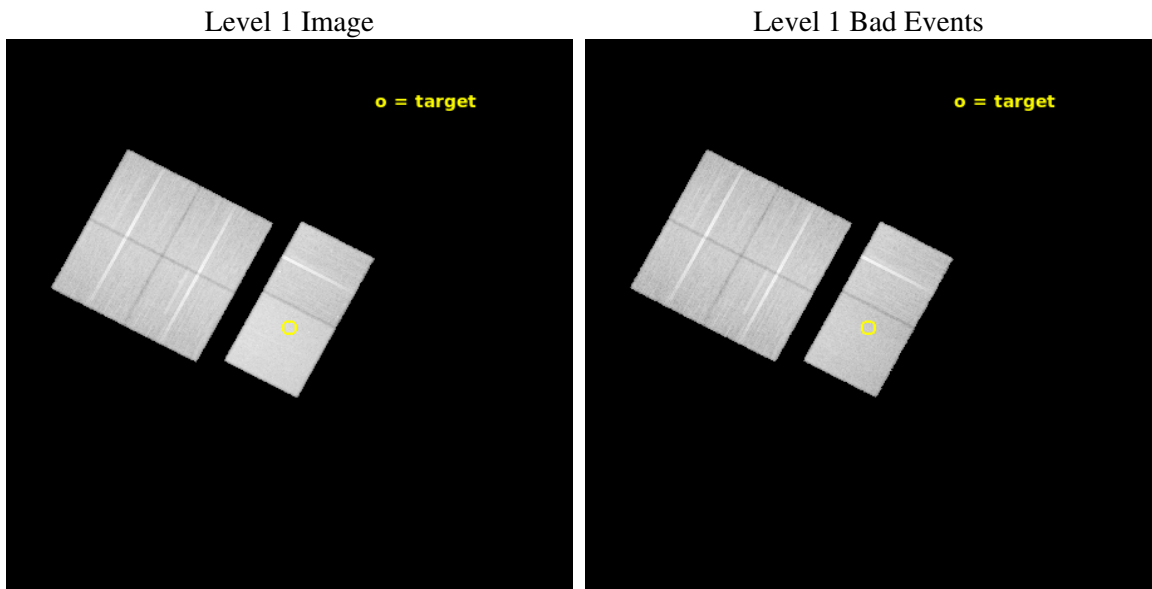
seq_num	500580	Sequence number
obs_id	5591	Observation id
title	Double Neutron Star Binary with PSR J1537+1155	Proposal title
observer	Gordon Garmire	Principal investigator
object	PSR J1537+1155	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	234.2915	Observer's specified target RA [deg]
dec_targ	11.932097	Observer's specified target Dec [deg]
ra_nom	234.29192660517	Nominal RA [deg]
dec_nom	11.940689349703	Nominal Dec [deg]
roll_nom	117.97989019663	Nominal Roll [deg]
revision	4	Processing version of data
ontime	36082.514949441	Sum of GTIs [s]
livetime	35625.616418869	Livetime [s]
ontime0	36082.555989444	Sum of GTIs [s]
ontime1	36072.627868384	Sum of GTIs [s]
ontime2	36082.391829431	Sum of GTIs [s]
ontime3	36079.191879153	Sum of GTIs [s]
ontime6	36079.232909262	Sum of GTIs [s]
ontime7	36082.514949441	Sum of GTIs [s]
l2events	293694	Number of level 2 events



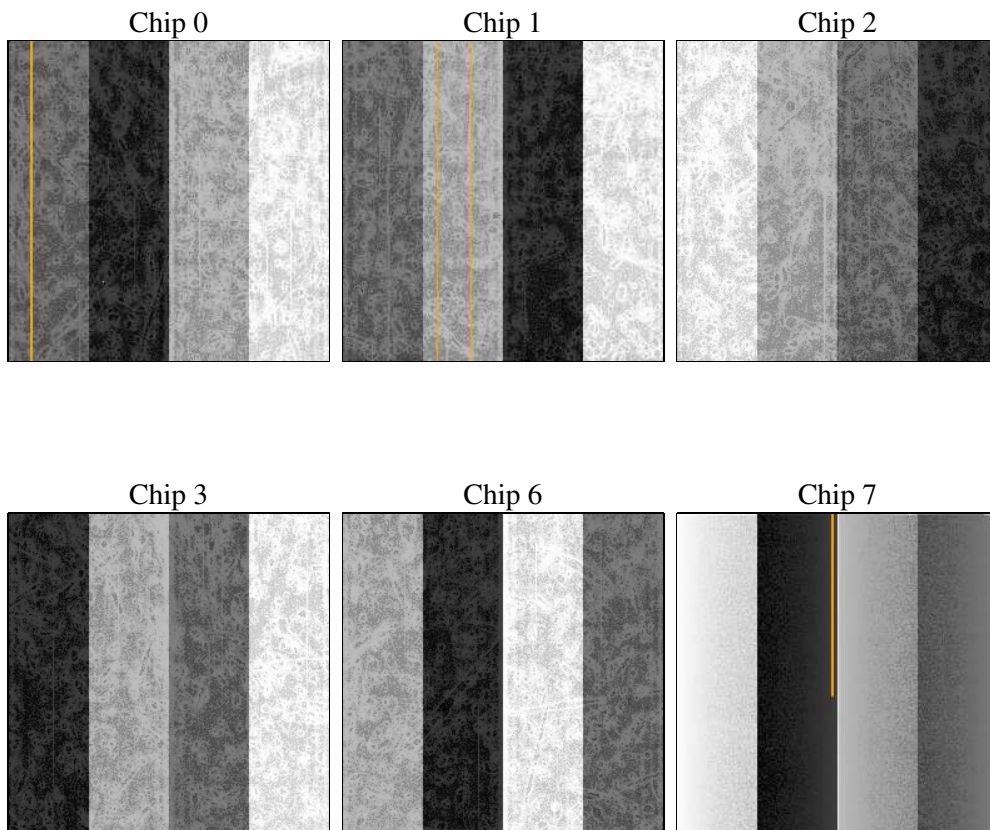
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	36000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	36082.514949441	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	36082.555989444	Sum of GTIs [s]
date	2020-10-07T18:11:48	Date and time of file creation	ontime1	36072.627868384	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	36082.391829431	Sum of GTIs [s]
			ontime3	36079.191879153	Sum of GTIs [s]
			ontime6	36079.232909262	Sum of GTIs [s]
			ontime7	36082.514949441	Sum of GTIs [s]
			l1events	1705802	Number of level 1 events

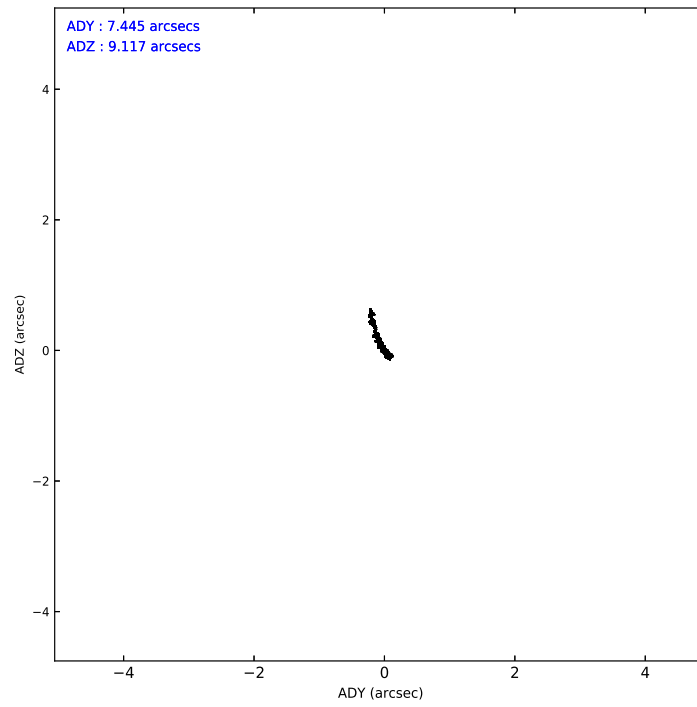
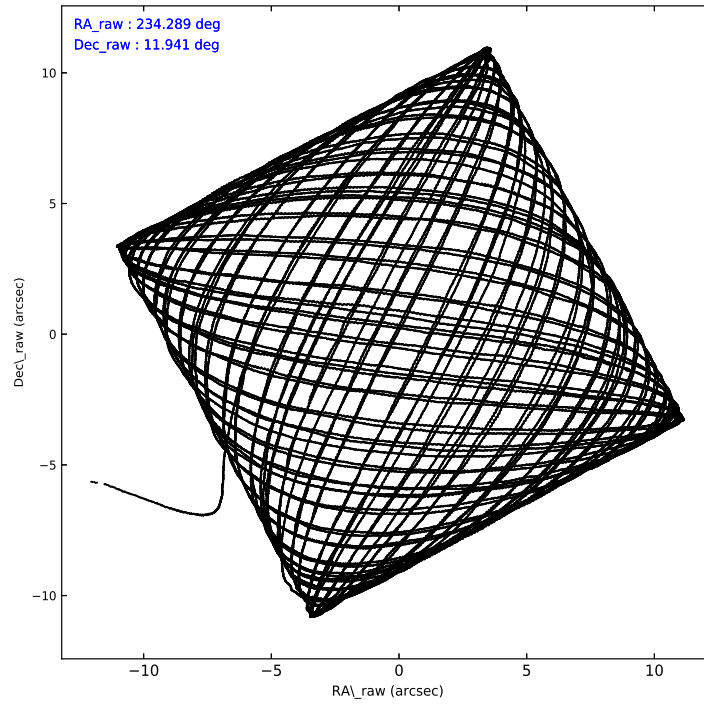
2.1.4 Events

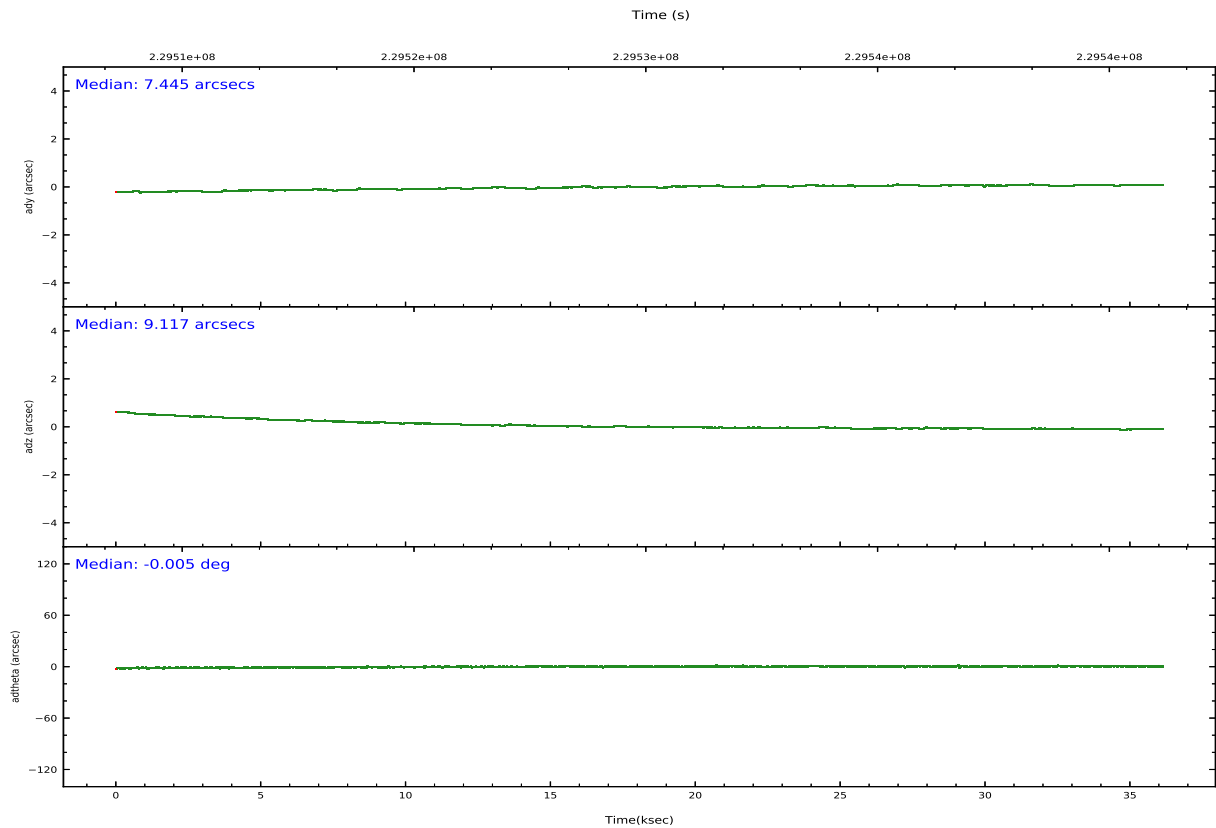
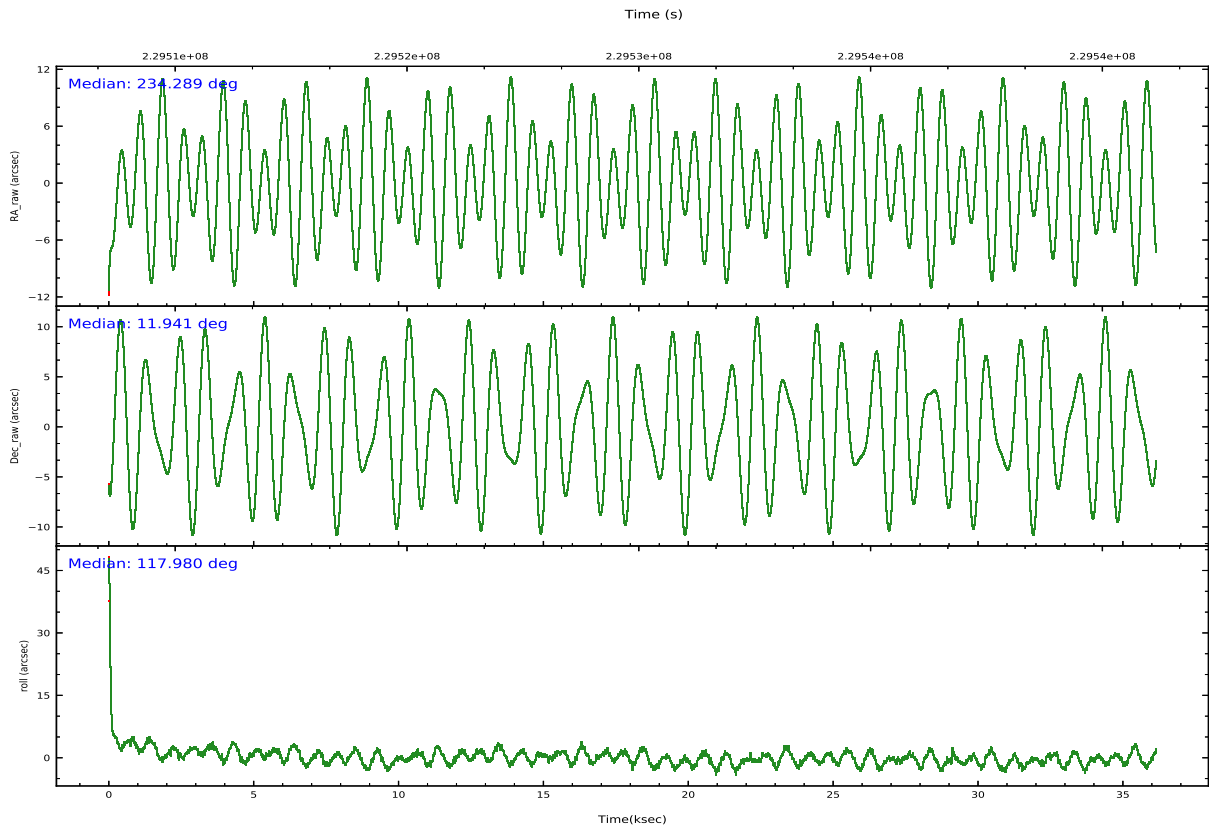
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	265185	250448	270700	265730	281862	371877	grade 0 events	14331	13426	14655	14973	13968	14116
rejected events	231349	216332	238447	232671	247858	217801		5%	5%	5%	5%	4%	3%
rejected %	87%	86%	88%	87%	87%	58%	grade 1 events	165	117	151	175	151	388
								0%	0%	0%	0%	0%	0%
							grade 2 events	7376	7456	6454	6303	6993	30726
								2%	2%	2%	2%	2%	8%
							grade 3 events	3222	3346	2928	3063	3197	13620
								1%	1%	1%	1%	1%	3%
							grade 4 events	3082	3368	2981	3120	3144	13450
								1%	1%	1%	1%	1%	3%
							grade 5 events	11546	11581	10415	12488	12851	34909
								4%	4%	3%	4%	4%	9%
							grade 6 events	5830	6528	5238	5607	6707	82188
								2%	2%	1%	2%	2%	22%
							grade 7 events	219633	204626	227878	220001	234851	182480
								82%	81%	84%	82%	83%	49%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-012367	ACIS-012367	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	234.312264	234.29192660517	Subarray requested	NONE	NONE
[deg] Pointing Dec	11.927172	11.940689349703	Alternating exposures requested	N	N
[deg] Pointing Roll	117.822023	117.97989019663	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.145094680475			
[mm] SIM translation stage offset	0	0.01257209746719923			
[s] Observation start time (MET)	229509855.184000	229508831.60049			
Observation start date	2005-04-10T08:43:11	2005-04-10T08:27:11			
[s] Observation end time (MET)	229545855.184000	229546376.3272			
Observation end date	2005-04-10T18:43:11	2005-04-10T18:52:56			
Read mode	TIMED	TIMED			

2.3 Aspect



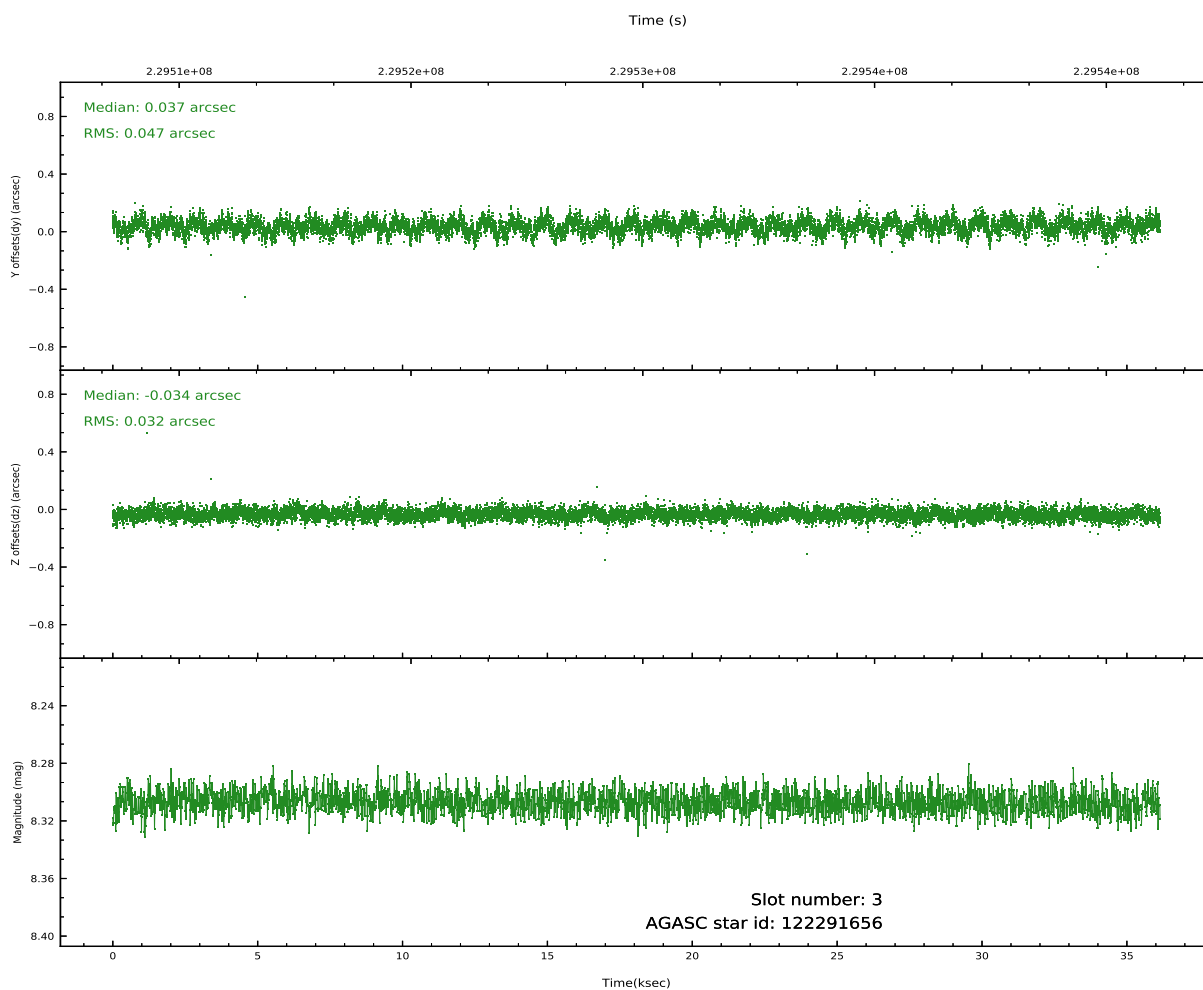
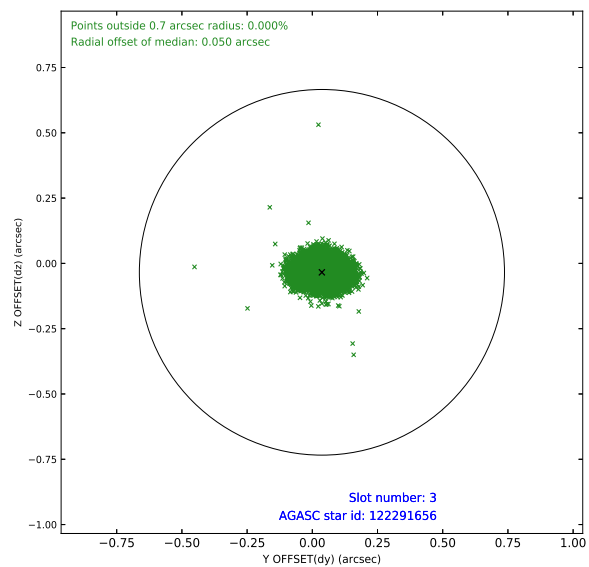
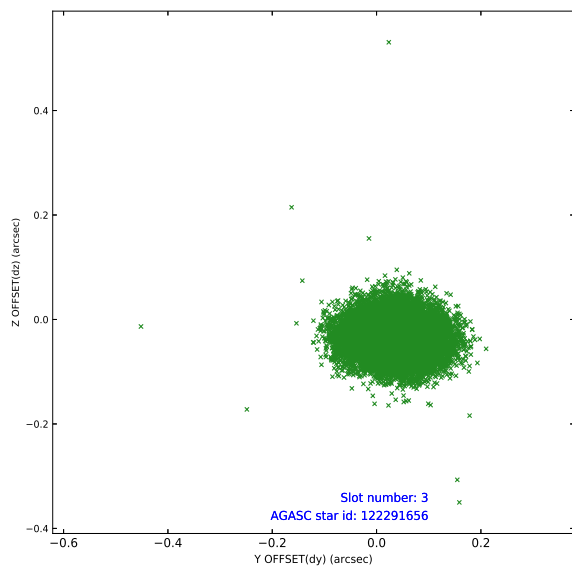


Slot Statistics

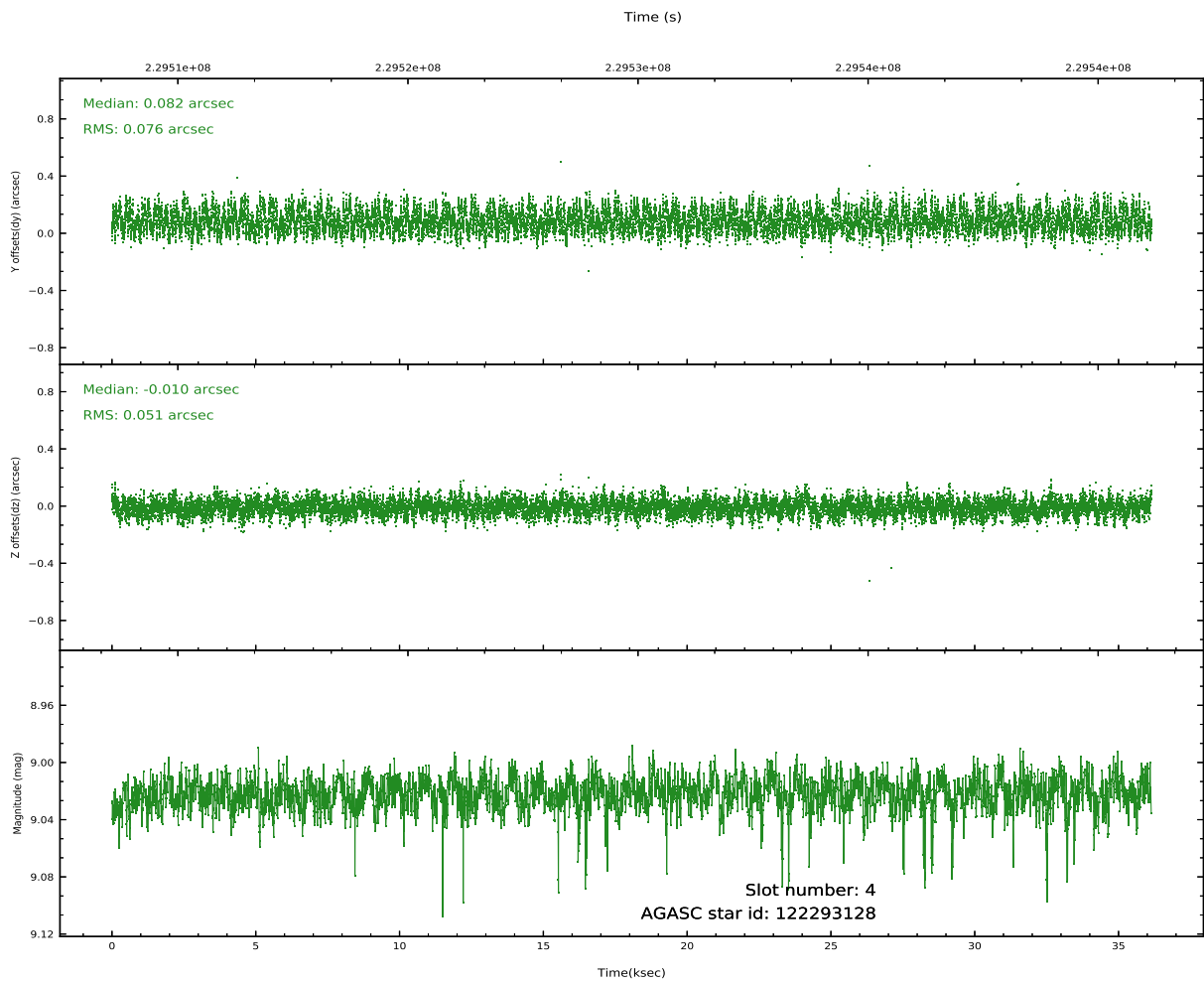
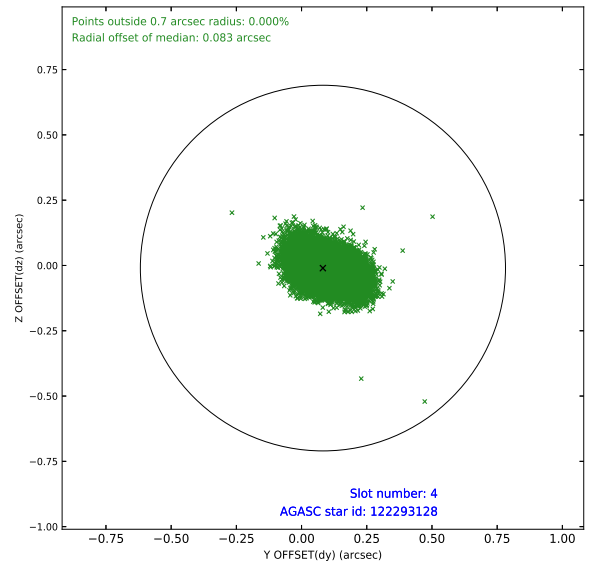
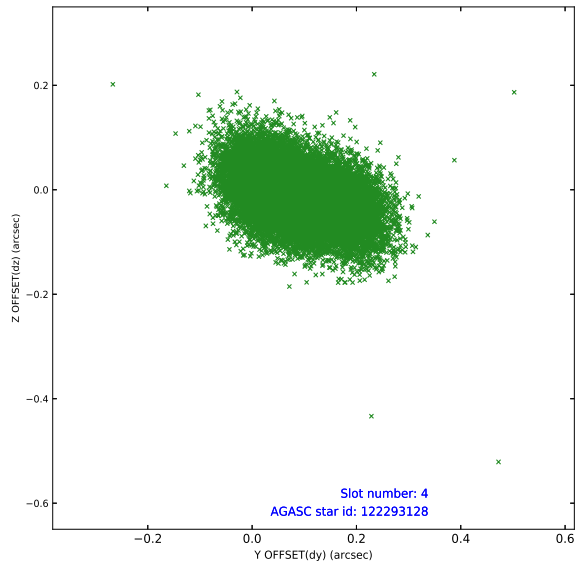
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.10	8817	1.000	-0.059	-0.079	0.009	0.015	0.000000	0.000000	-760.19	-1730
1	FID		ACIS-S-4	7.21	8816	1.000	0.147	0.050	0.007	0.012	0.000000	0.000000	2153.22	178
2	FID		ACIS-S-5	7.23	8817	1.000	-0.119	0.038	0.008	0.014	0.000000	0.000000	-1813.10	171
3	GUIDE	used	122291656	8.31	17628	1.000	0.037	-0.034	0.060	0.101	234.191931	11.180080	-2180.43	1631
4	GUIDE	used	122293128	9.02	17625	1.000	0.082	-0.010	0.097	0.157	234.009057	11.238754	-1691.85	2104
5	GUIDE	used	122821072	7.92	17631	1.000	-0.025	0.027	0.061	0.096	234.683443	12.253214	429.60	-1702
6	GUIDE	used	122821656	7.42	17632	1.000	-0.089	-0.046	0.059	0.091	234.186532	11.600903	-832.18	940
7	GUIDE	used	122814752	7.35	17630	1.000	-0.014	0.062	0.055	0.088	234.348228	12.301633	1133.66	-740

2.4 Star Slots

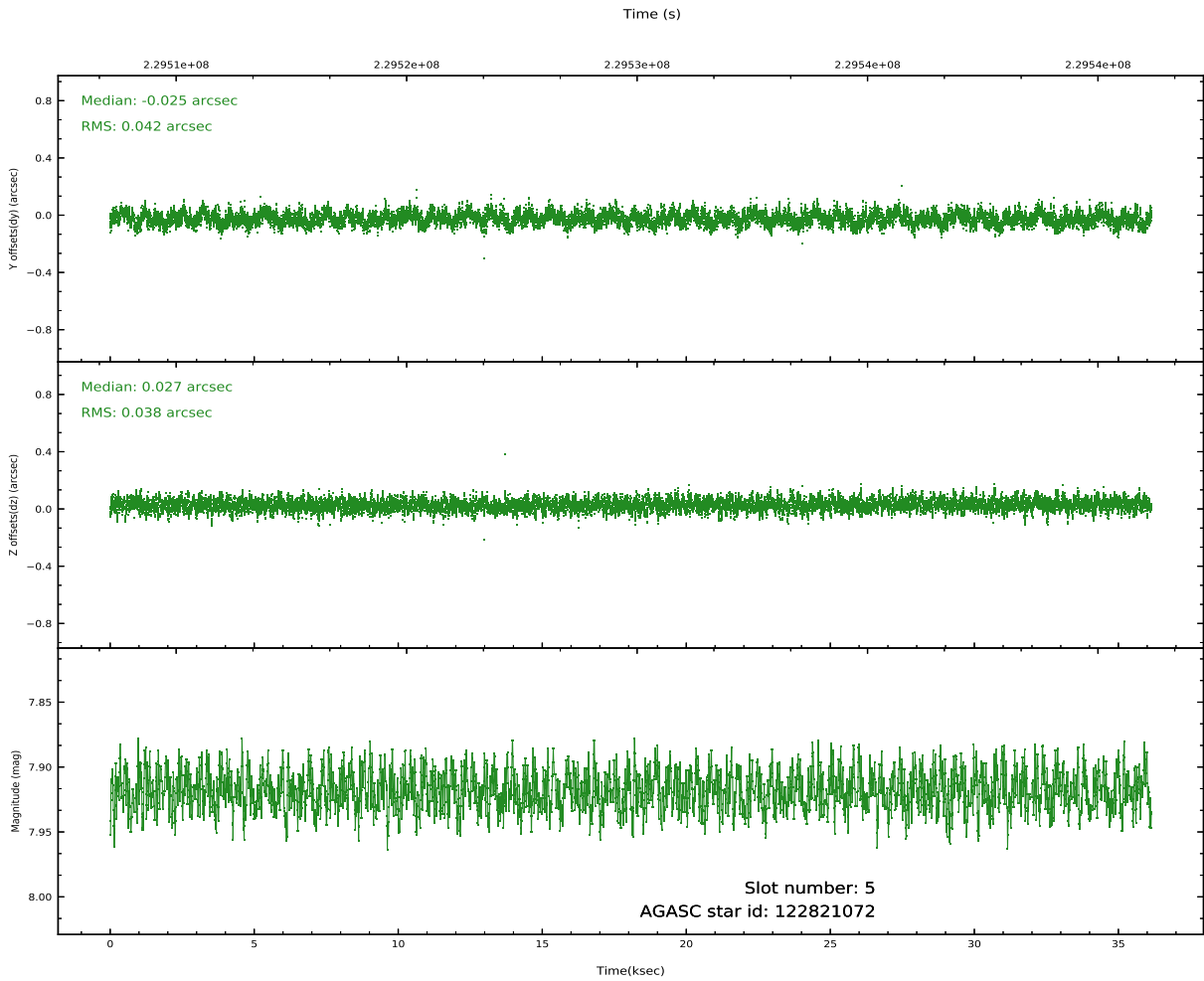
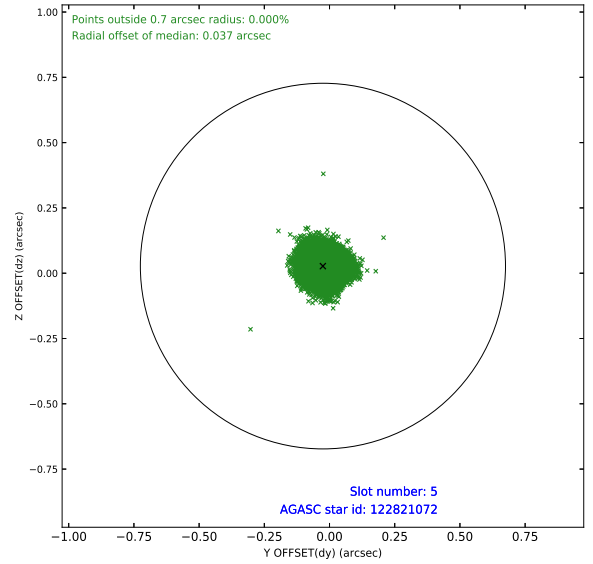
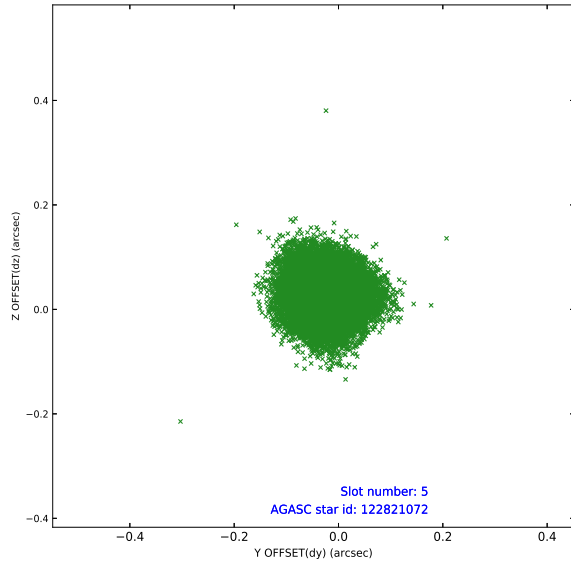
2.4.1 Slot 3



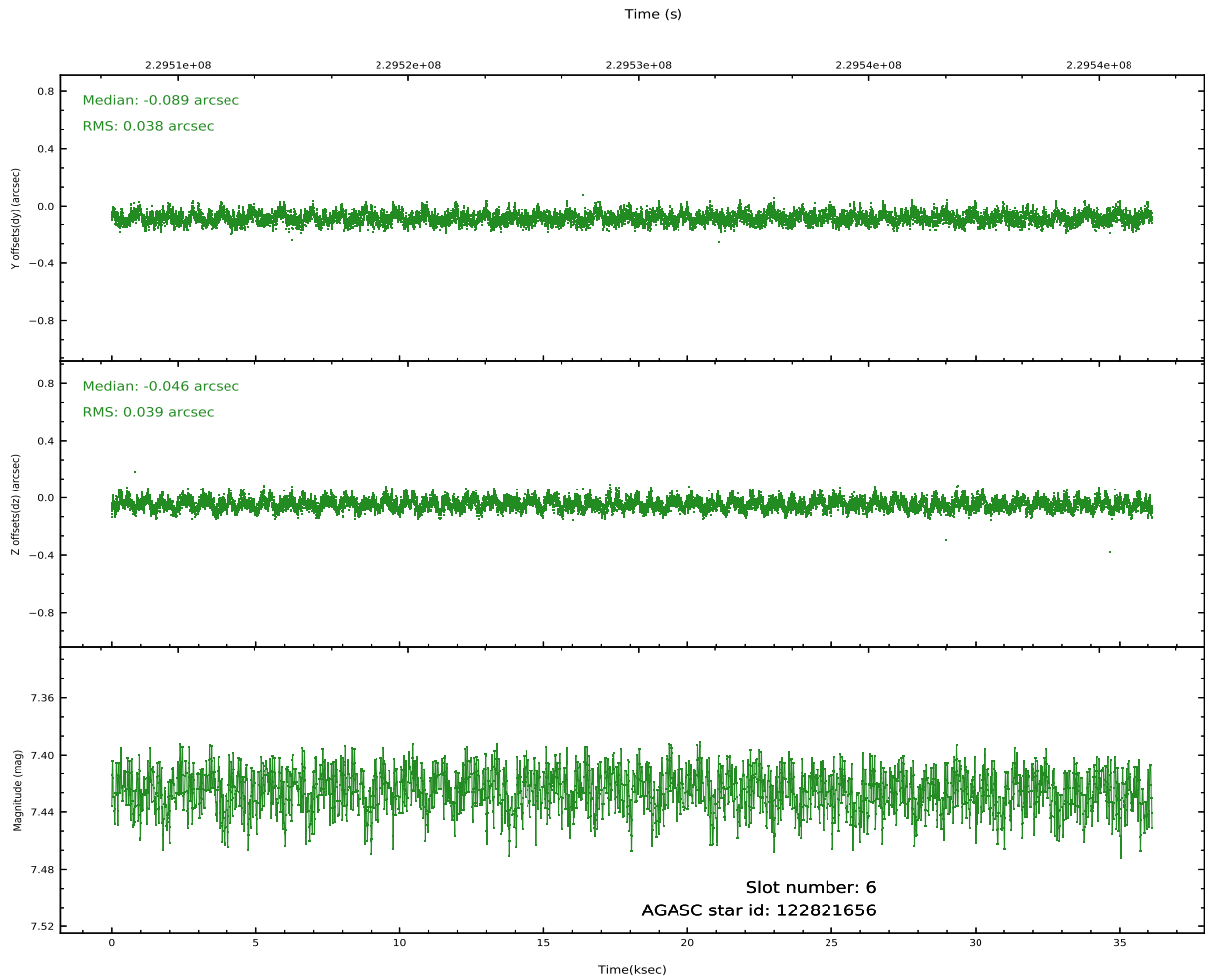
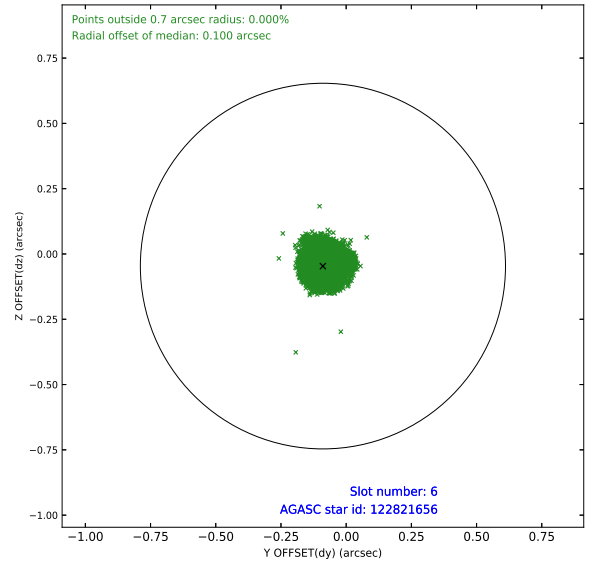
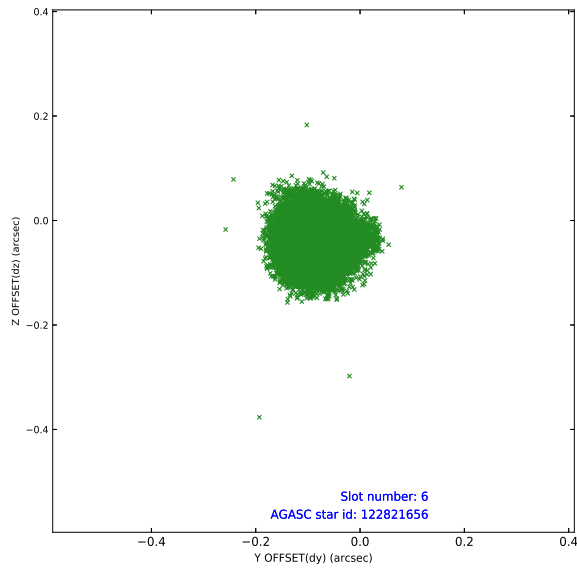
2.4.2 Slot 4



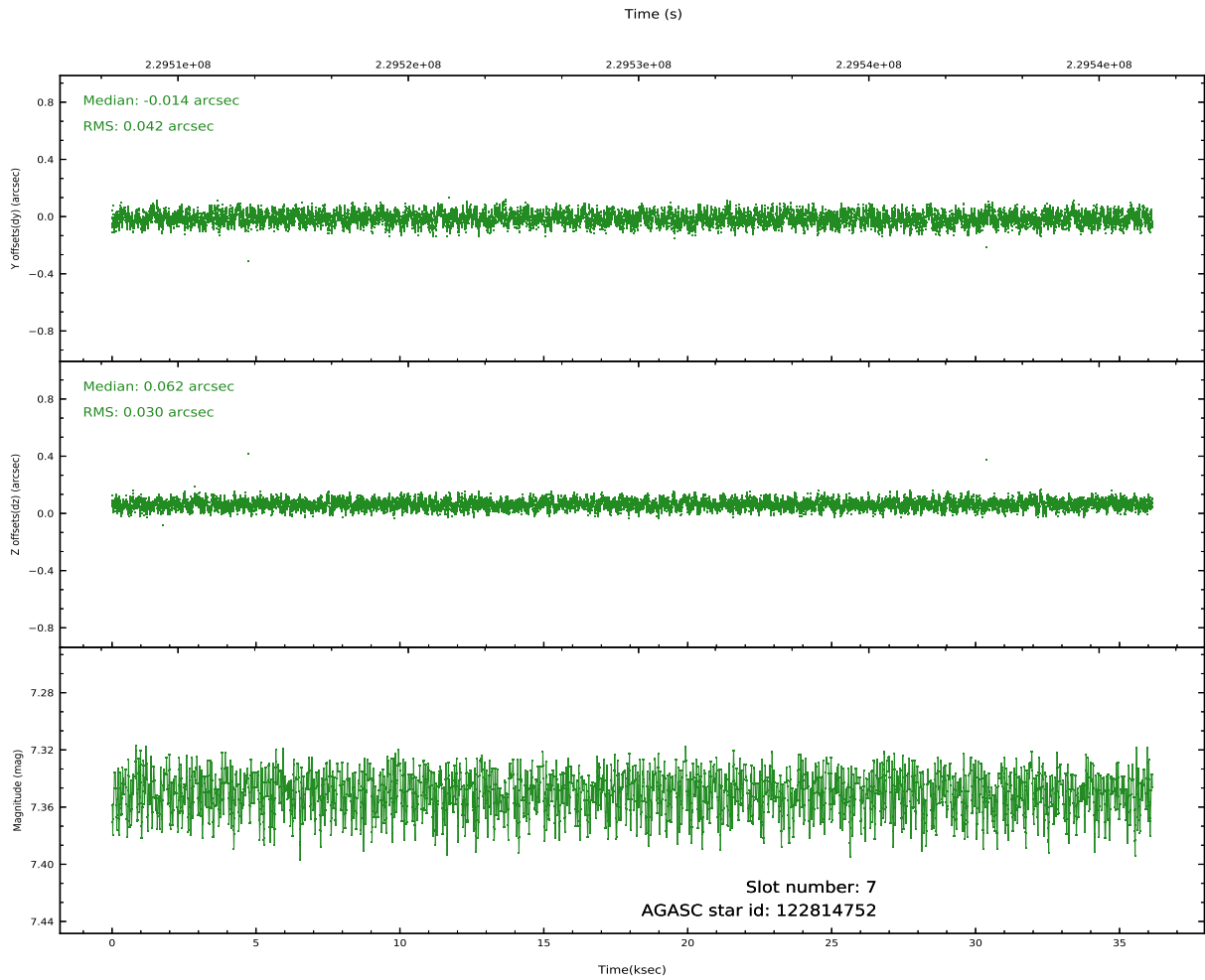
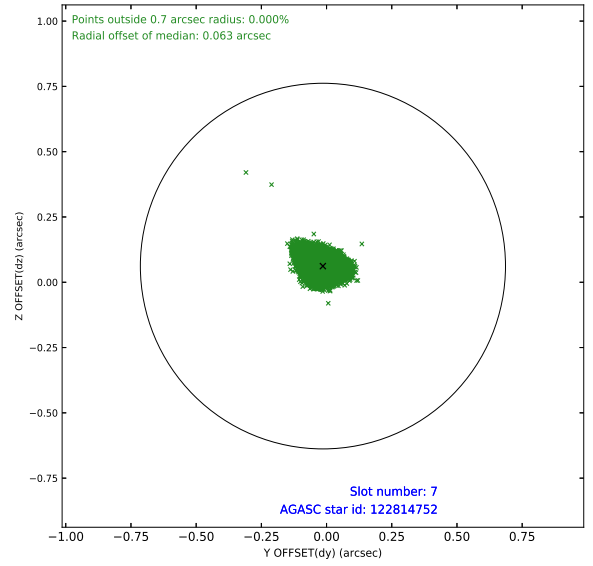
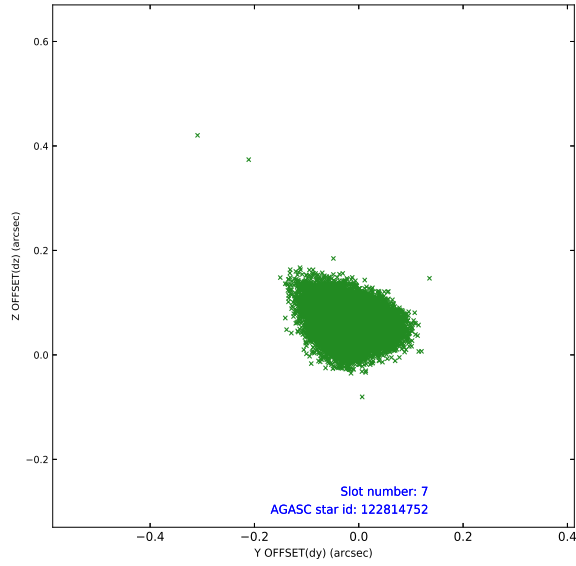
2.4.3 Slot 5



2.4.4 Slot 6

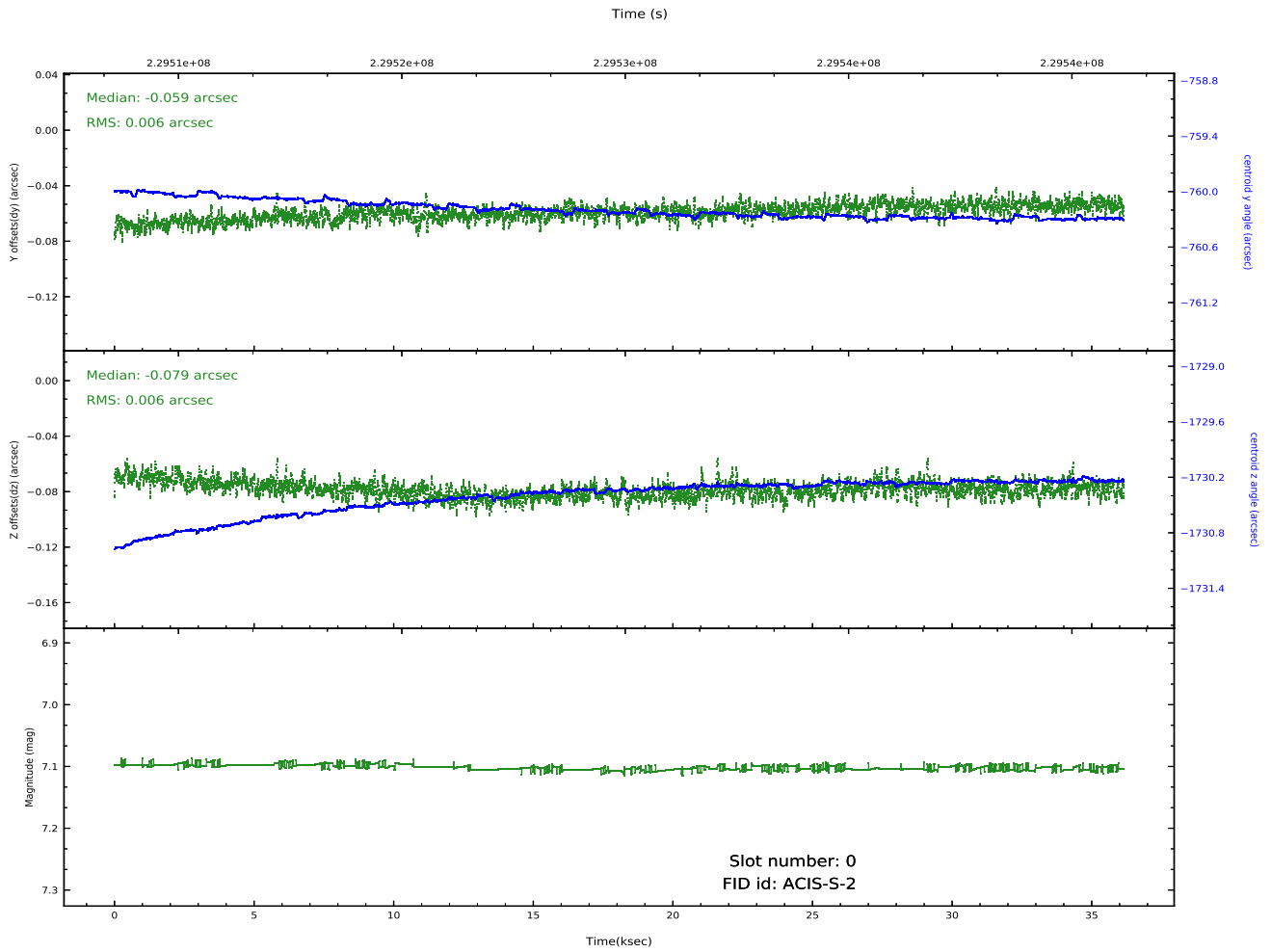
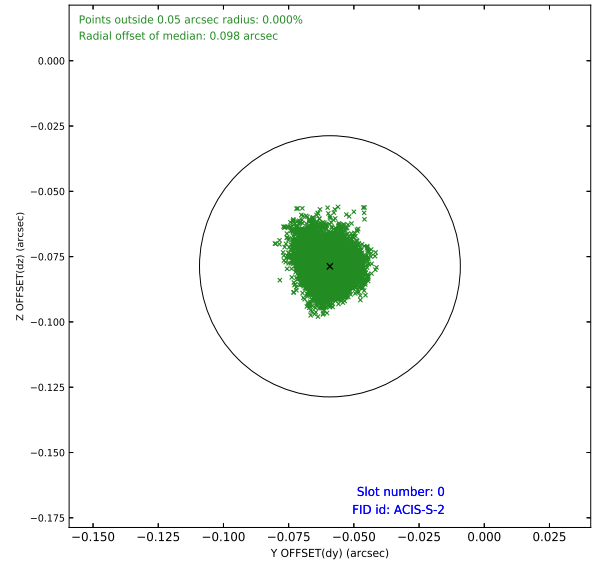
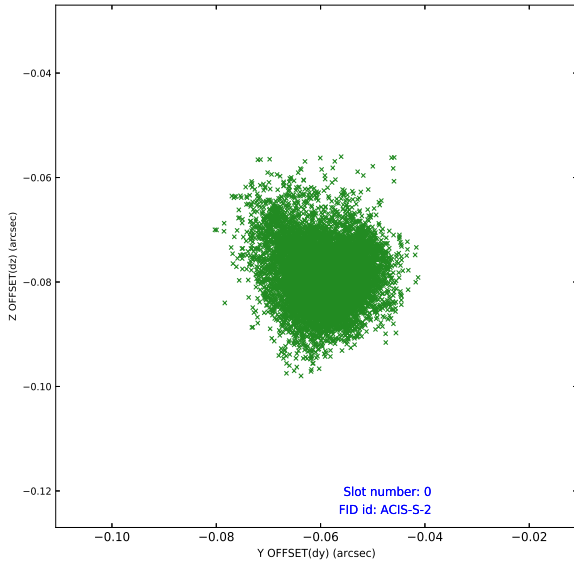


2.4.5 Slot 7

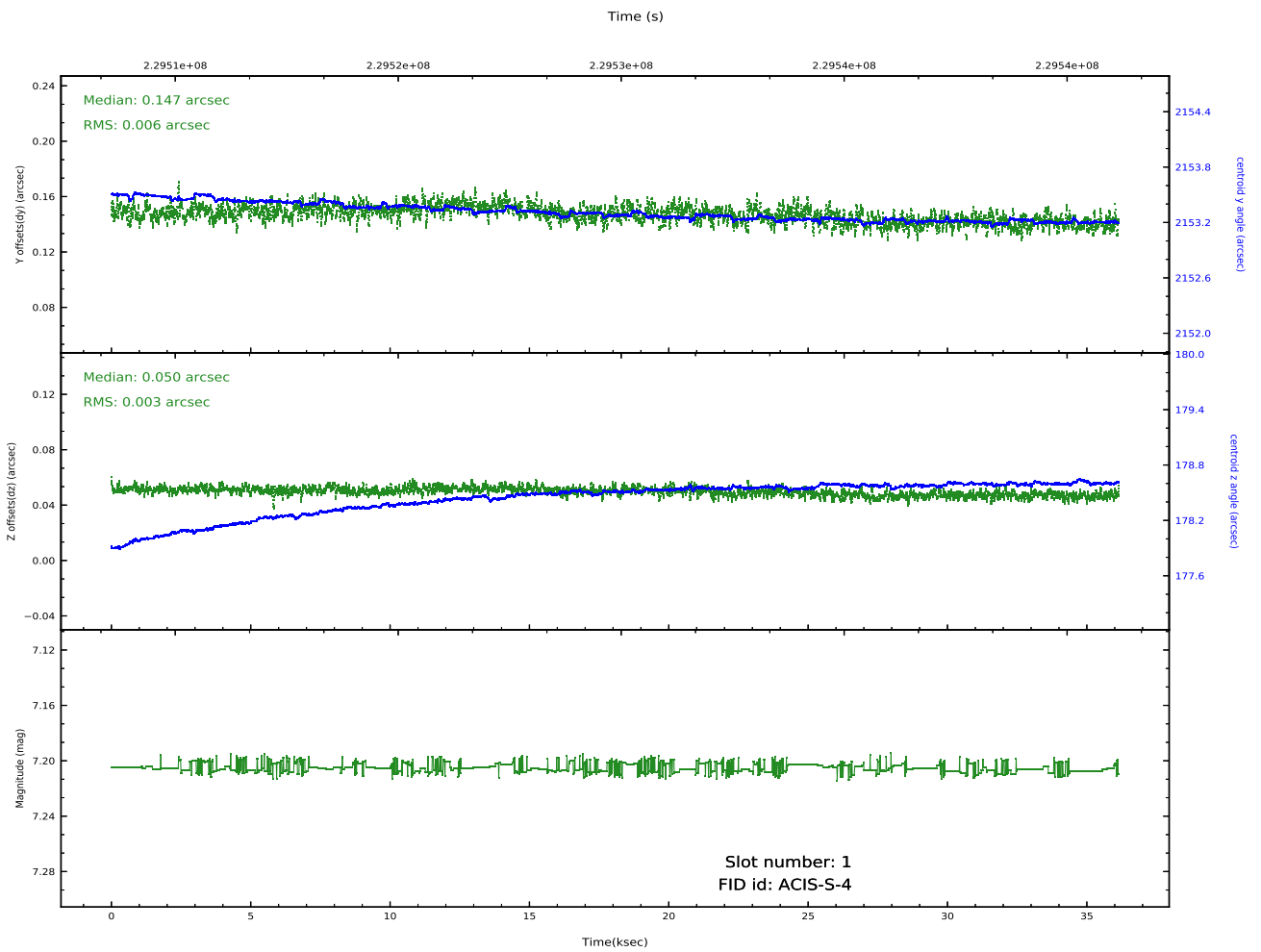
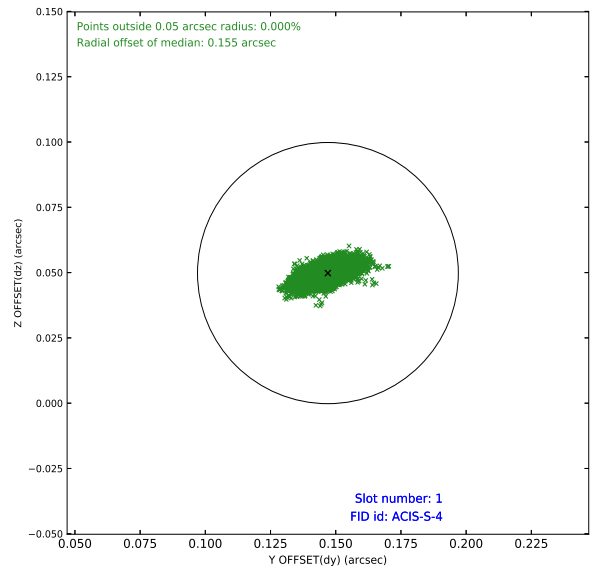
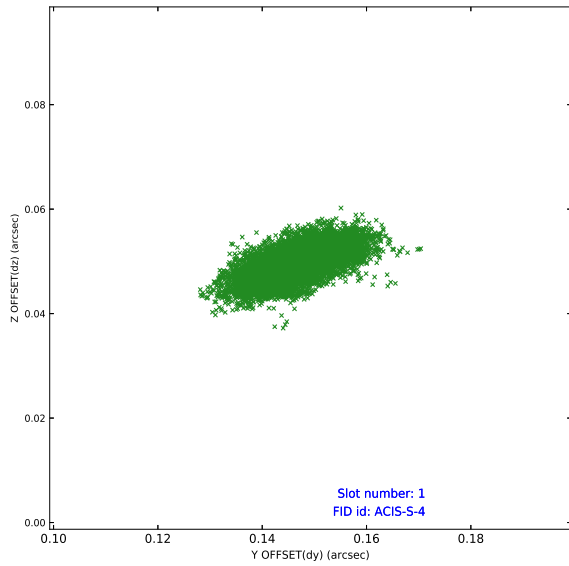


2.5 FID Slots

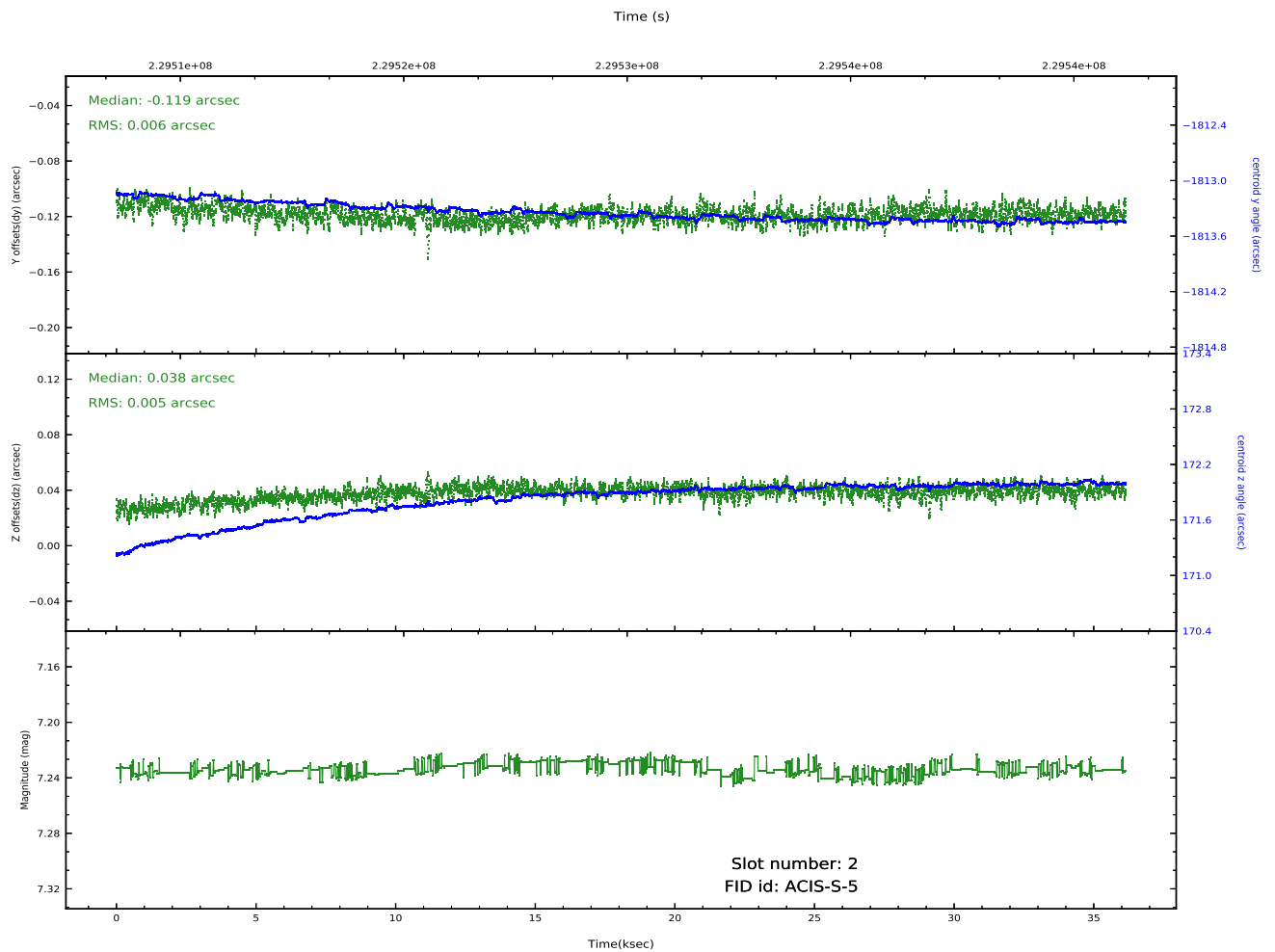
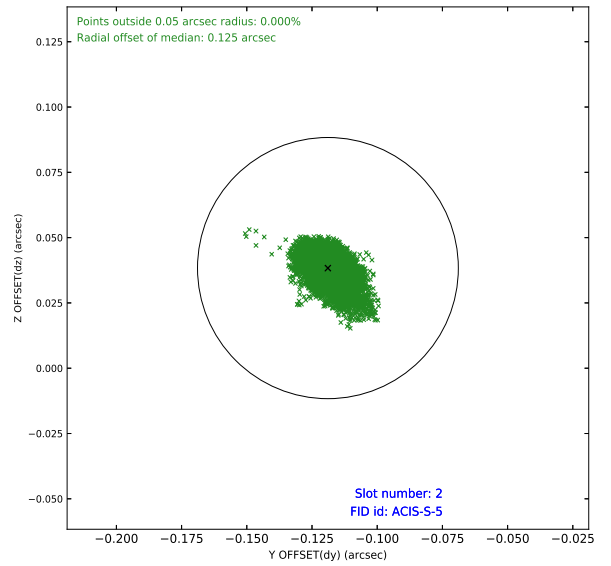
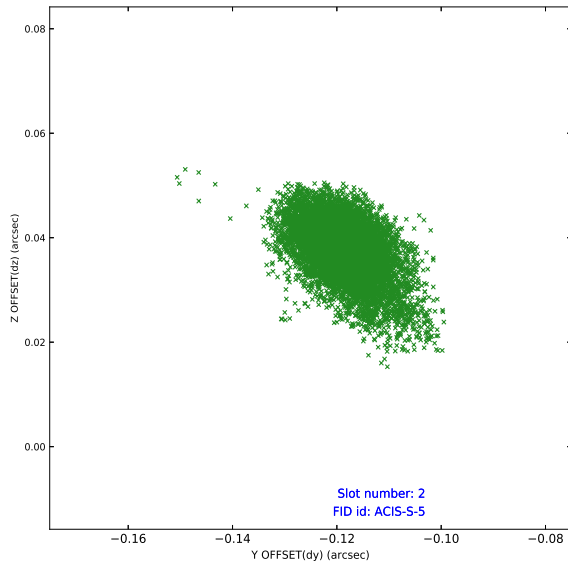
2.5.1 Slot 0



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)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	36.08319

A.2 Comments