

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5004 - L2 Version 4
Chandra X-Ray Center

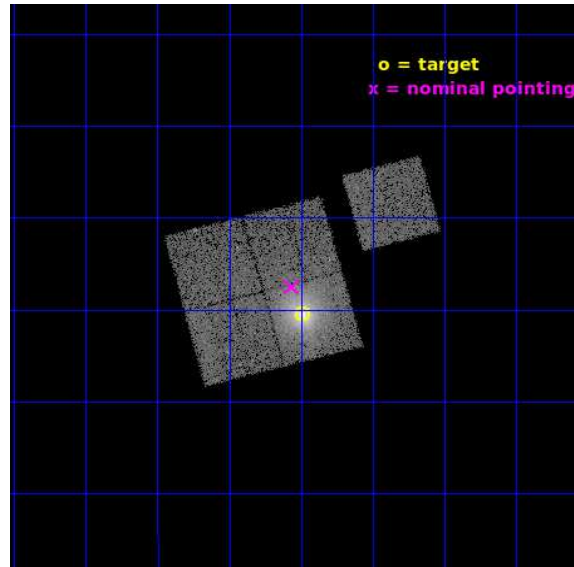
L2 Processing Date : Sep 24 2020

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1 Front

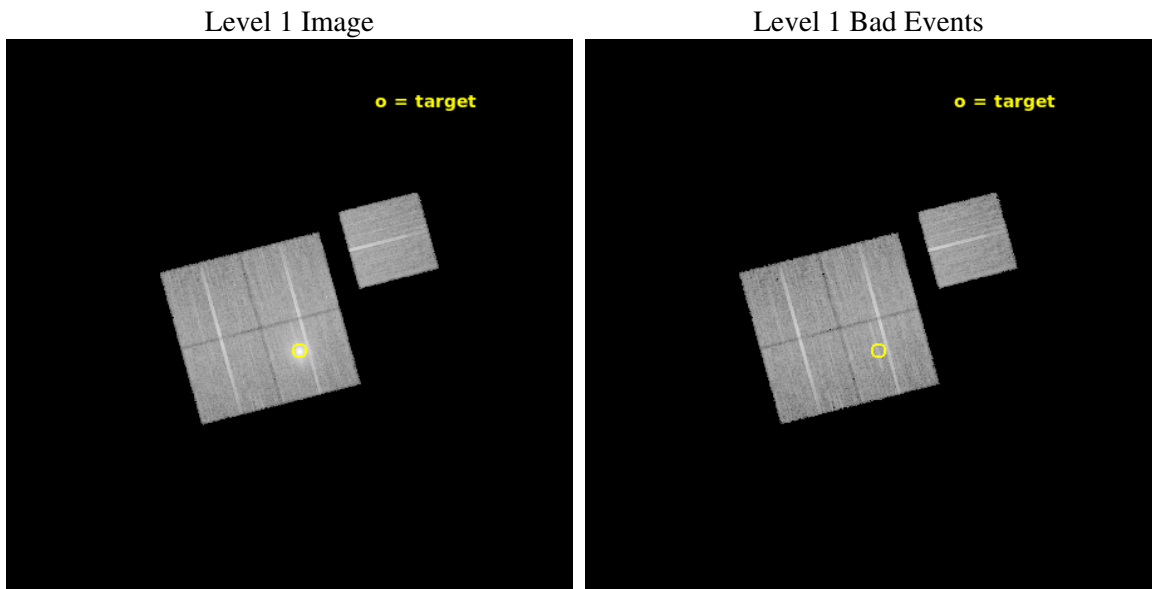
seq_num	800447	Sequence number
obs_id	5004	Observation id
title	Cluster studies: Determination of H0/q0	Proposal title
observer	DR. LEON VANSPEYBROECK	Principal investigator
object	A1689	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	197.872917	Observer's specified target RA [deg]
dec_targ	-1.341111	Observer's specified target Dec [deg]
ra_nom	197.89091390824	Nominal RA [deg]
dec_nom	-1.2914848517923	Nominal Dec [deg]
roll_nom	75.158862723263	Nominal Roll [deg]
revision	4	Processing version of data
ontime	20118.999961287	Sum of GTIs [s]
livetime	19856.1304154	Livetime [s]
ontime0	20115.858981073	Sum of GTIs [s]
ontime1	20115.85897103	Sum of GTIs [s]
ontime2	20115.85897103	Sum of GTIs [s]
ontime3	20118.999961287	Sum of GTIs [s]
ontime6	20115.85897103	Sum of GTIs [s]
l2events	94019	Number of level 2 events



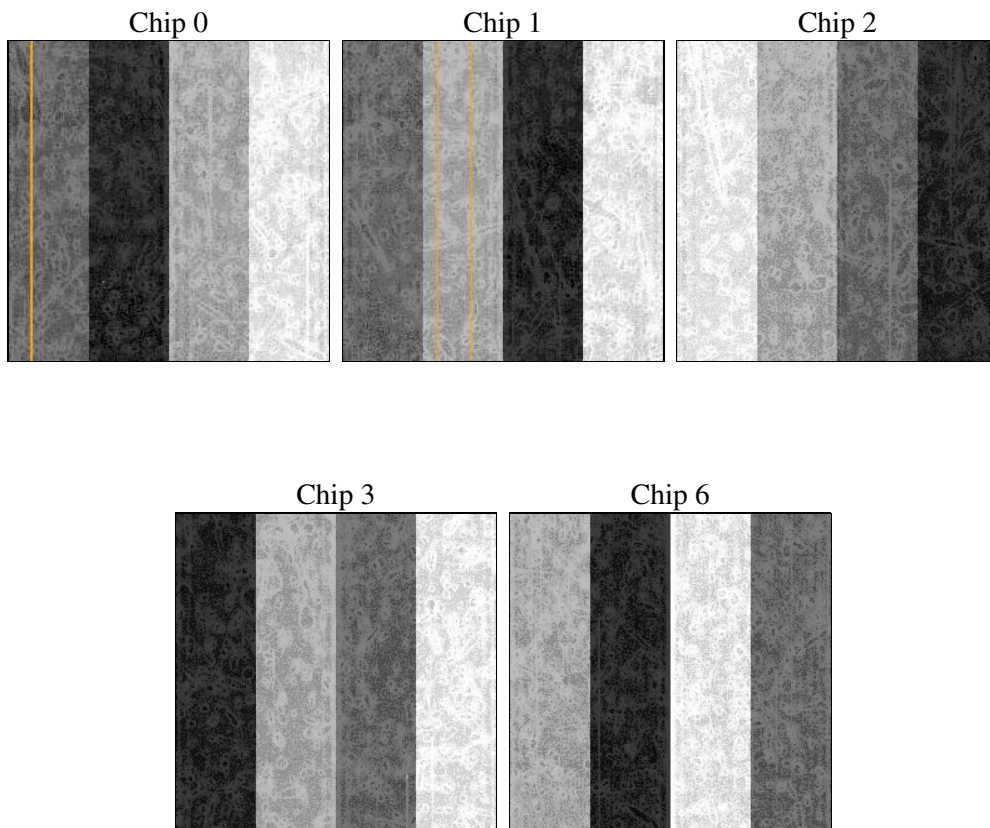
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	20118.999961287	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	20115.858981073	Sum of GTIs [s]
date	2020-09-24T01:39:38	Date and time of file creation	ontime1	20115.85897103	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	20115.85897103	Sum of GTIs [s]
			ontime3	20118.999961287	Sum of GTIs [s]
			ontime6	20115.85897103	Sum of GTIs [s]
			l1events	592316	Number of level 1 events

2.1.4 Events

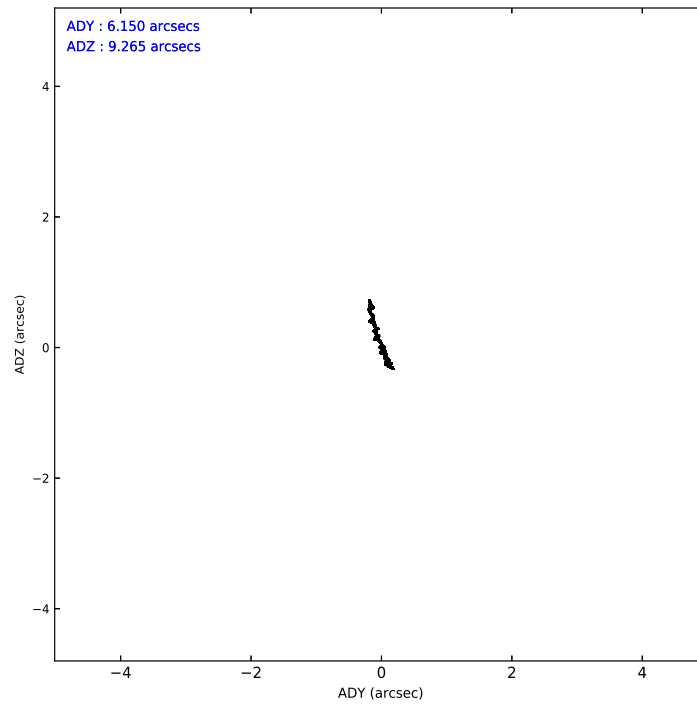
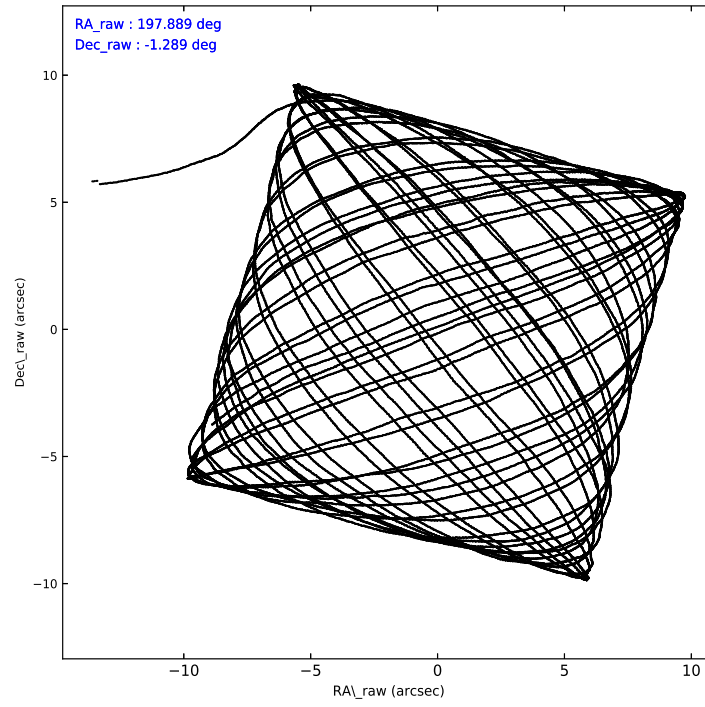
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	101651	103469	115651	159051	112494
rejected events	90089	90508	103360	101404	101136
rejected %	88%	87%	89%	63%	89%

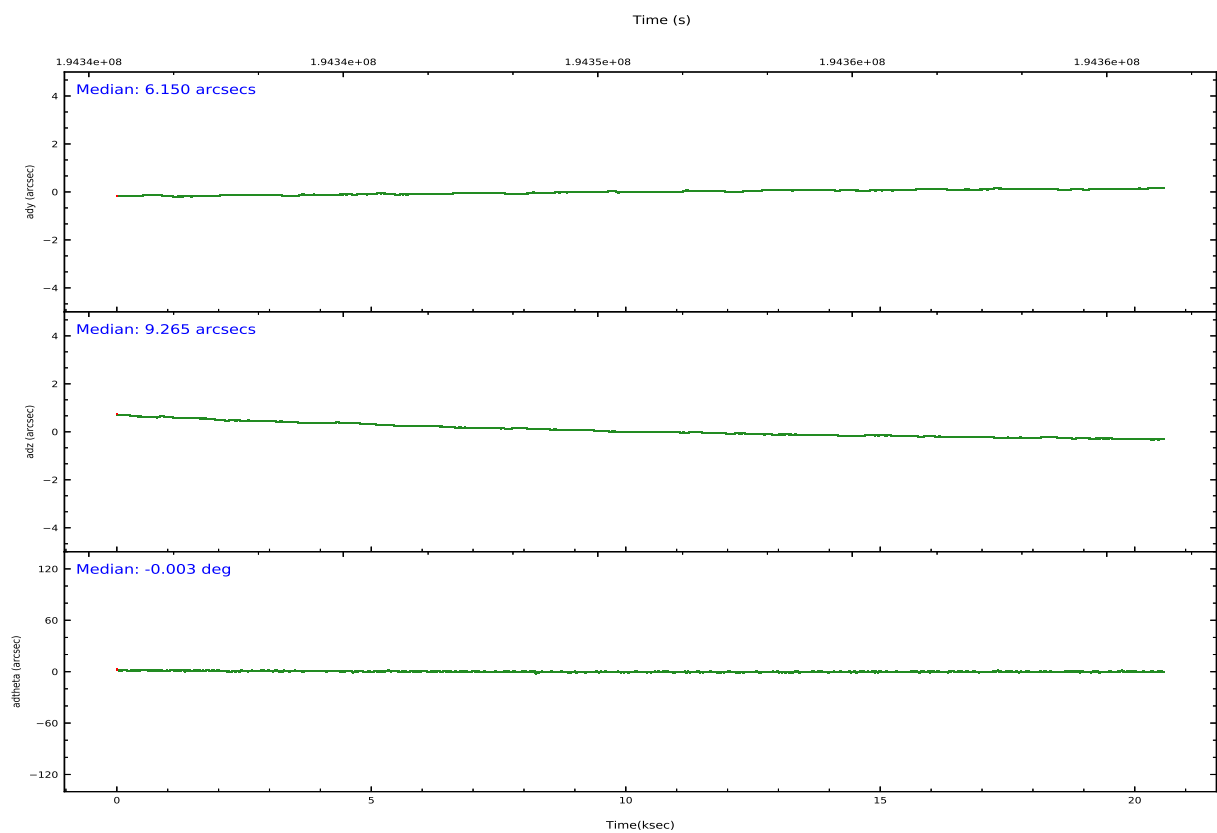
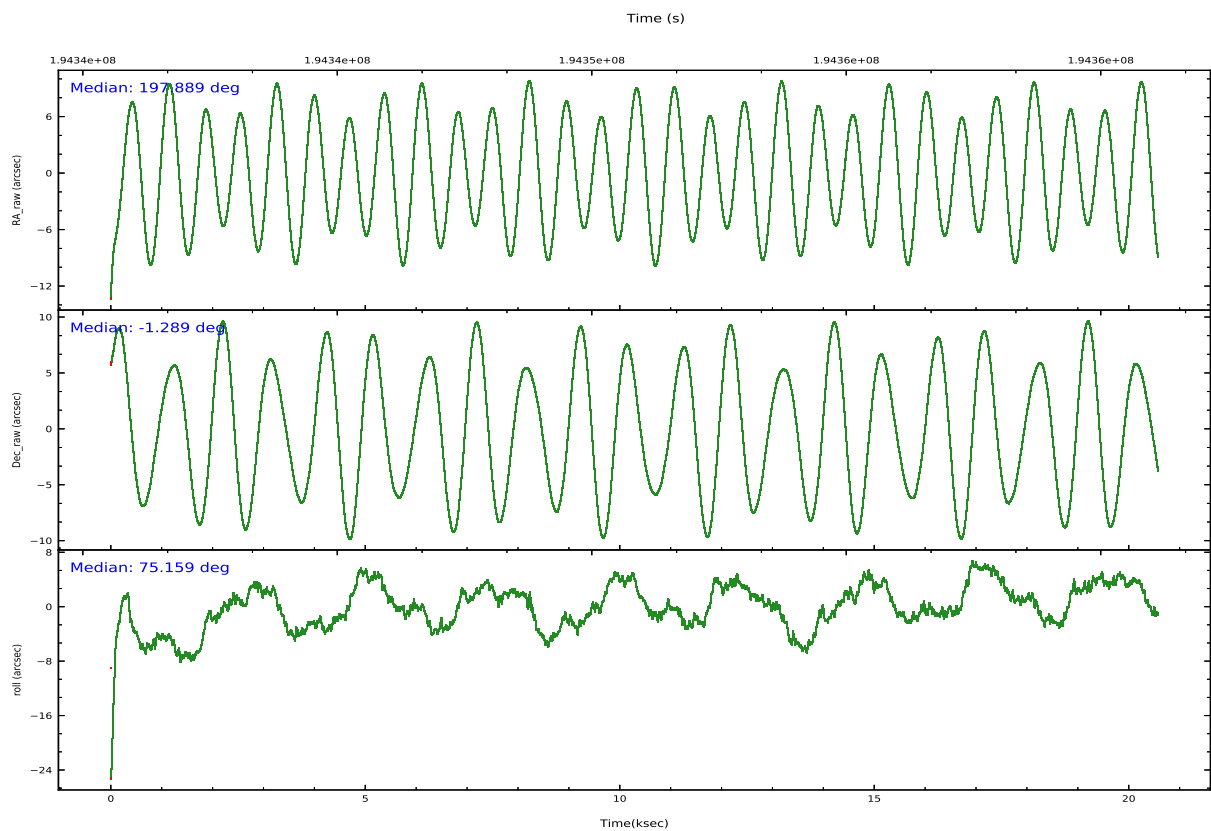
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4236	5132	5015	42365	4042
	4%	4%	4%	26%	3%
grade 1 events	53	49	69	250	43
	0%	0%	0%	0%	0%
grade 2 events	2578	2580	2695	6817	2285
	2%	2%	2%	4%	2%
grade 3 events	1379	1376	1204	2624	1308
	1%	1%	1%	1%	1%
grade 4 events	1205	1410	1349	2719	1267
	1%	1%	1%	1%	1%
grade 5 events	3899	4142	3794	4525	4521
	3%	4%	3%	2%	4%
grade 6 events	2168	2464	2029	3144	2460
	2%	2%	1%	1%	2%
grade 7 events	86133	86316	99496	96607	96568
	84%	83%	86%	60%	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	197.896019	197.89091390824	Subarray requested	NONE	NONE
[deg] Pointing Dec	-1.315569	-1.2914848517923	Alternating exposures requested	N	N
[deg] Pointing Roll	74.945951	75.158862723263	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-225.840463	-225.8433433320239			
[mm] SIM translation stage offset	-7.752	-7.749109670905796			
[s] Observation start time (MET)	194341128.184000	194339973.54291			
Observation start date	2004-02-28T07:37:44	2004-02-28T07:19:33			
[s] Observation end time (MET)	194361128.184000	194361575.93135			
Observation end date	2004-02-28T13:11:04	2004-02-28T13:19:35			
Read mode	TIMED	TIMED			

2.3 Aspect



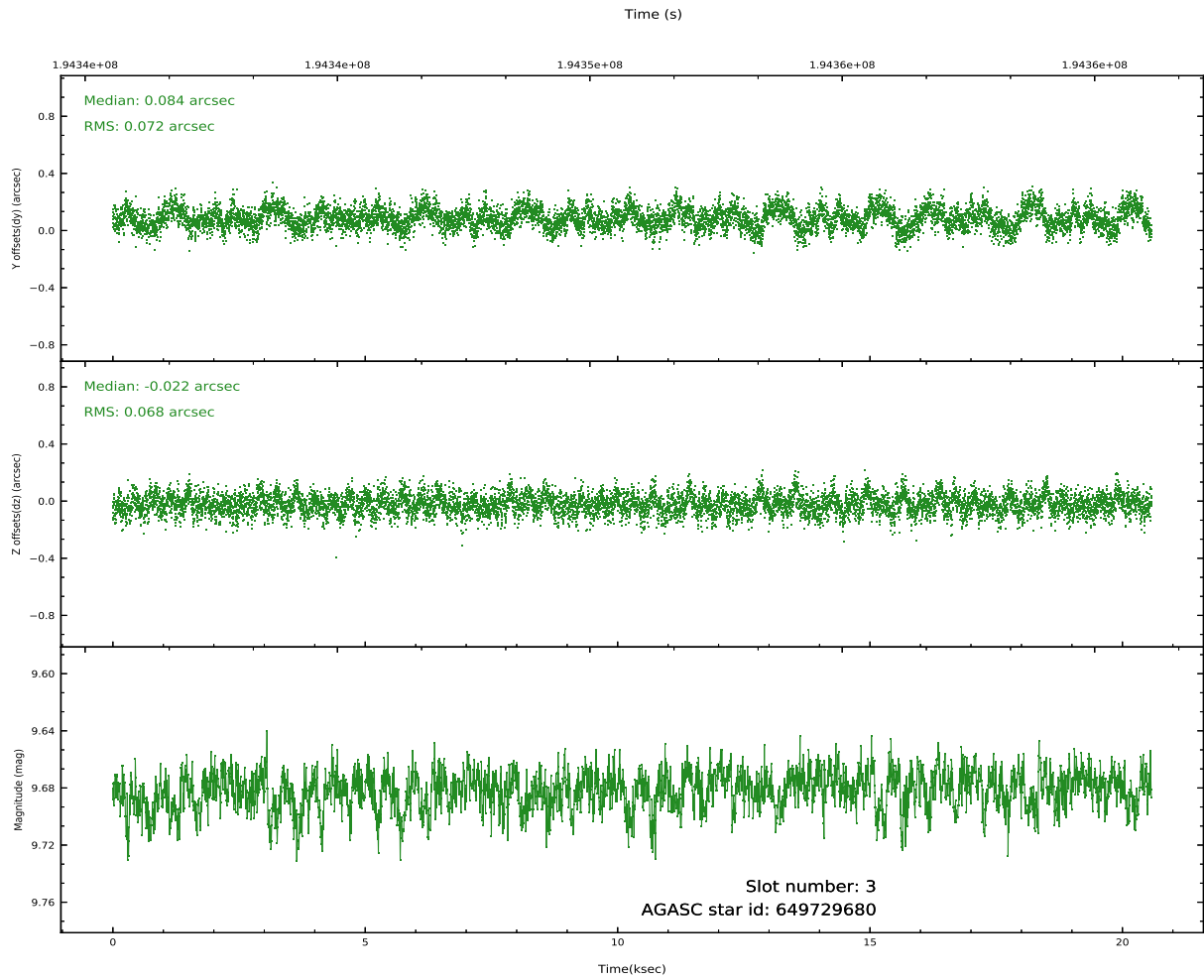
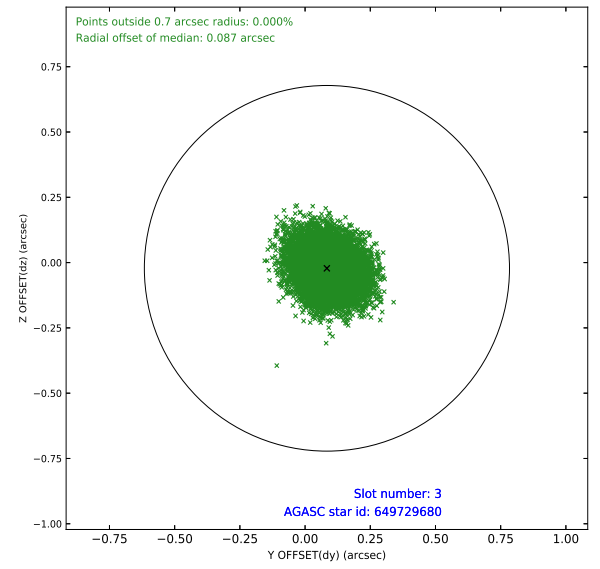
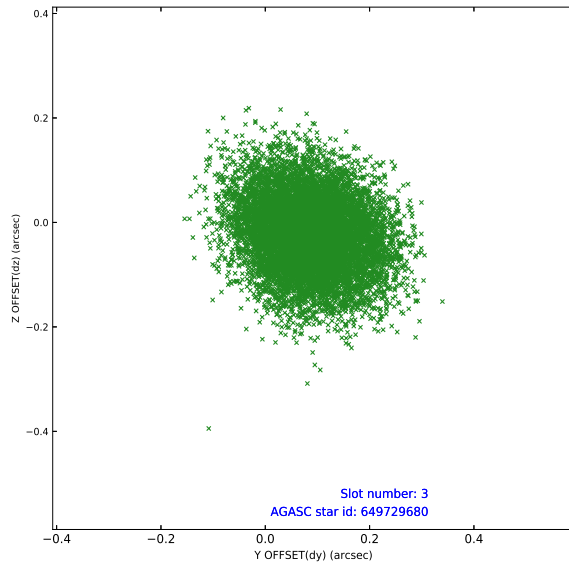


Slot Statistics

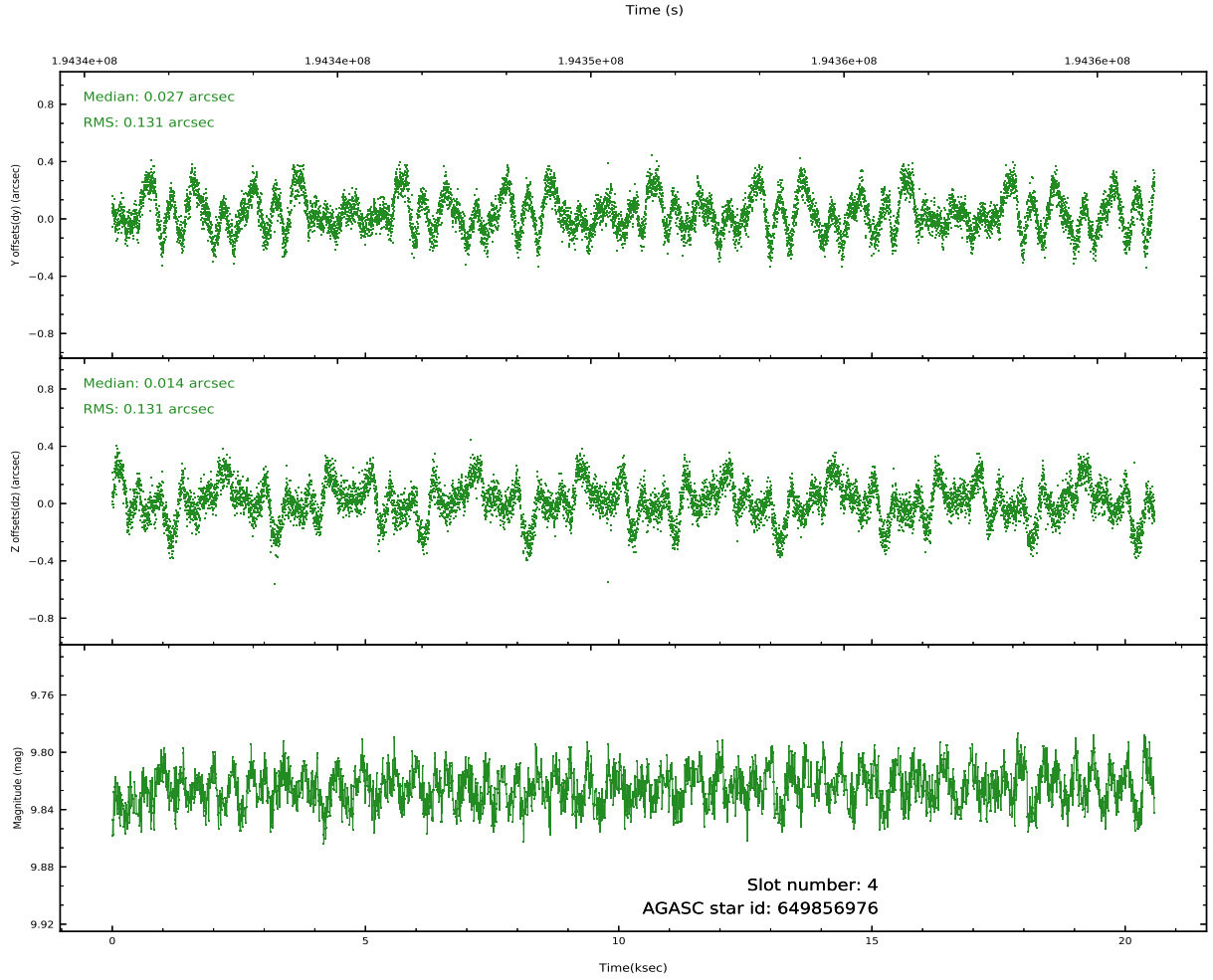
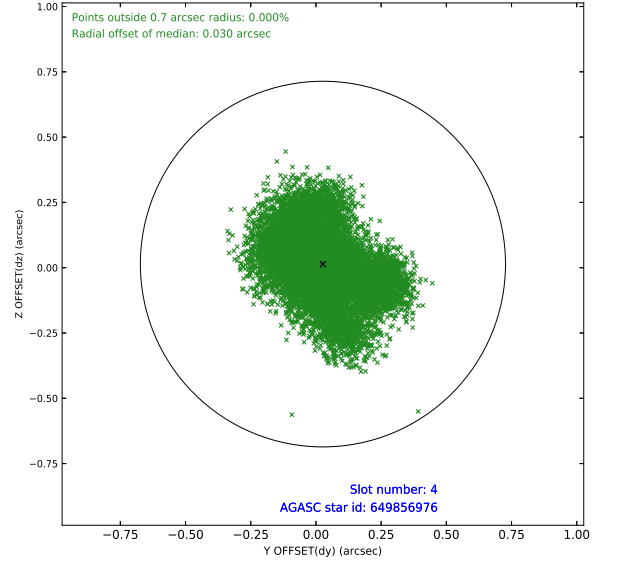
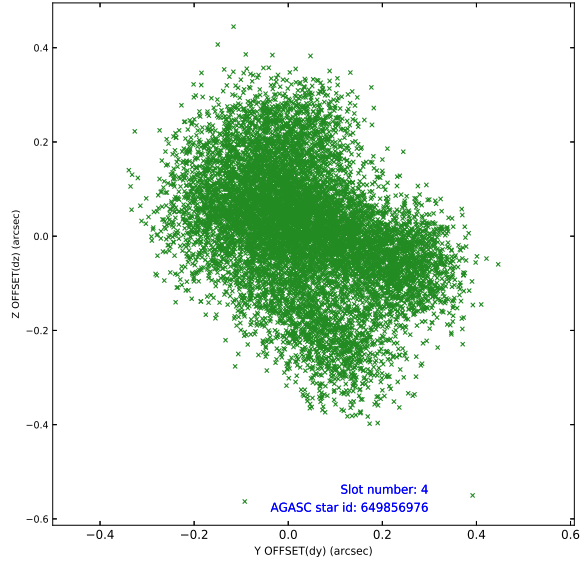
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.23	5020	1.000	0.087	-0.085	0.008	0.016	0.000000	0.000000	933.52	-991
1	FID		ACIS-I-5	7.22	5020	1.000	-0.254	0.068	0.007	0.012	0.000000	0.000000	-1814.85	905
2	FID		ACIS-I-6	7.25	5020	1.000	0.075	0.088	0.008	0.013	0.000000	0.000000	398.83	1550
3	GUIDE	used	649729680	9.68	10029	1.000	0.084	-0.022	0.106	0.171	197.477731	-1.403690	-697.55	1371
4	GUIDE	used	649856976	9.83	10031	1.000	0.027	0.014	0.207	0.307	197.988518	-1.476151	-472.11	-471
5	GUIDE	used	649858864	9.64	10032	1.000	-0.150	-0.044	0.117	0.197	197.684428	-0.695156	1958.65	1316
6	GUIDE	used	649860032	8.93	10036	1.000	-0.096	0.033	0.083	0.130	197.517008	-0.616758	2074.89	1971
7	GUIDE	used	649726472	10.53	10023	1.000	0.128	0.033	0.199	0.336	197.403429	-1.852261	-2326.15	1210

2.4 Star Slots

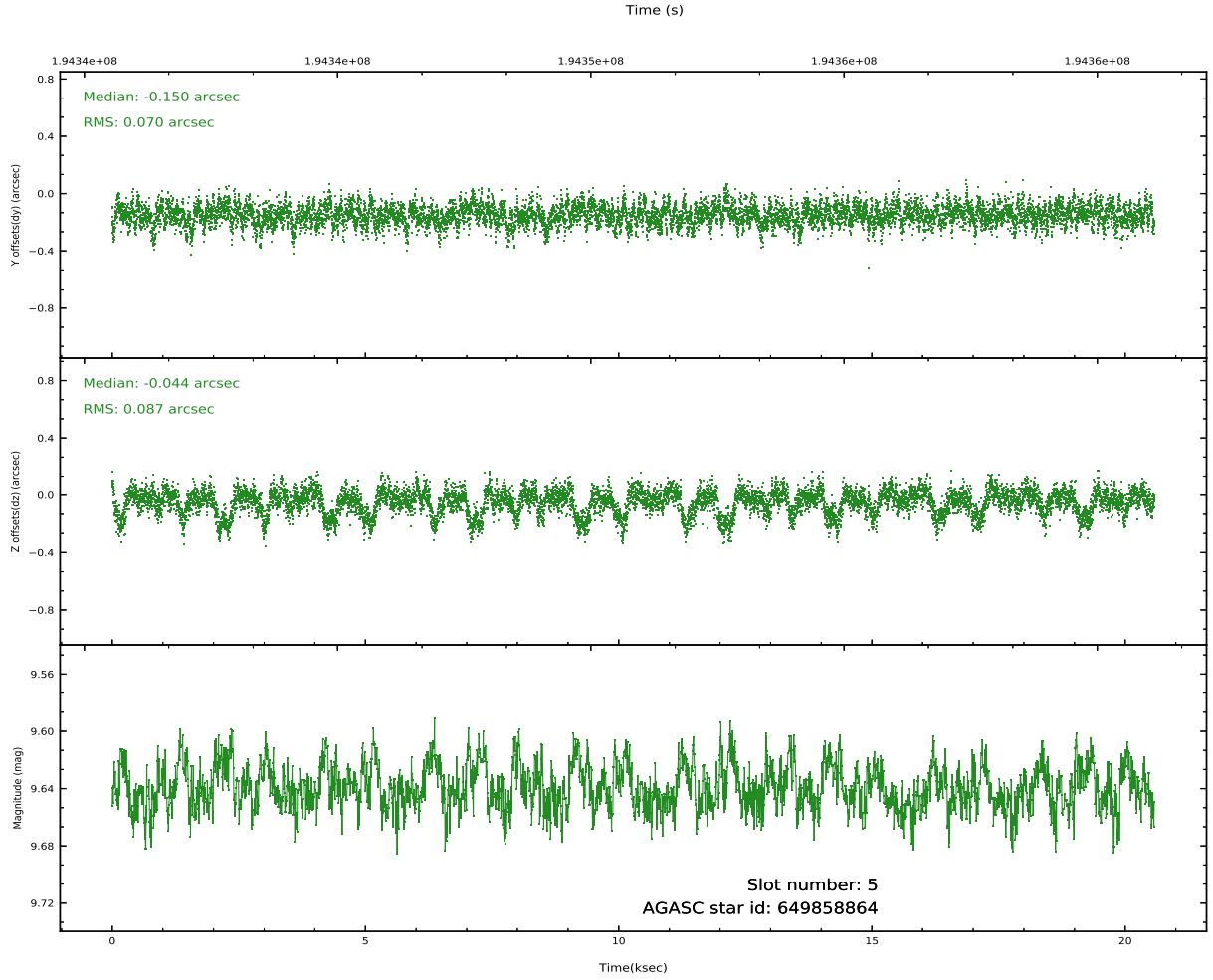
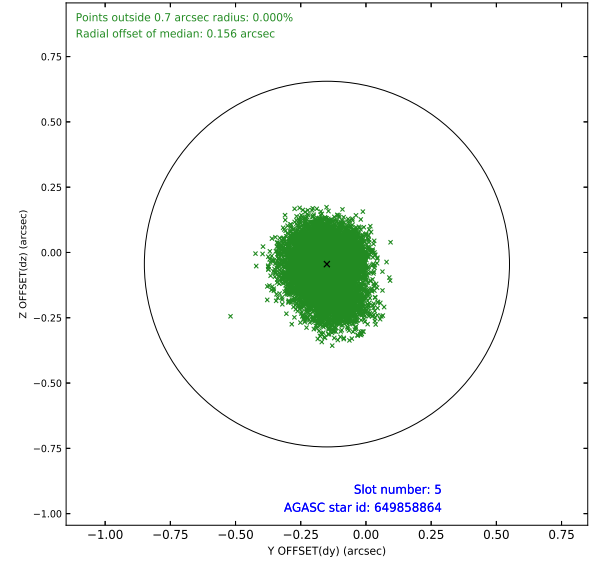
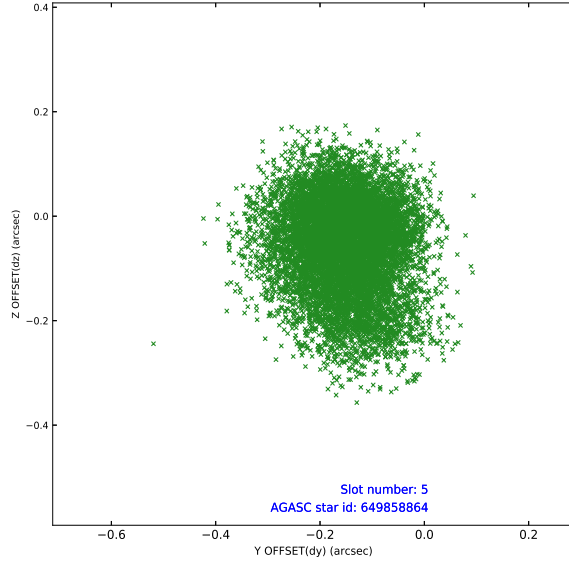
2.4.1 Slot 3



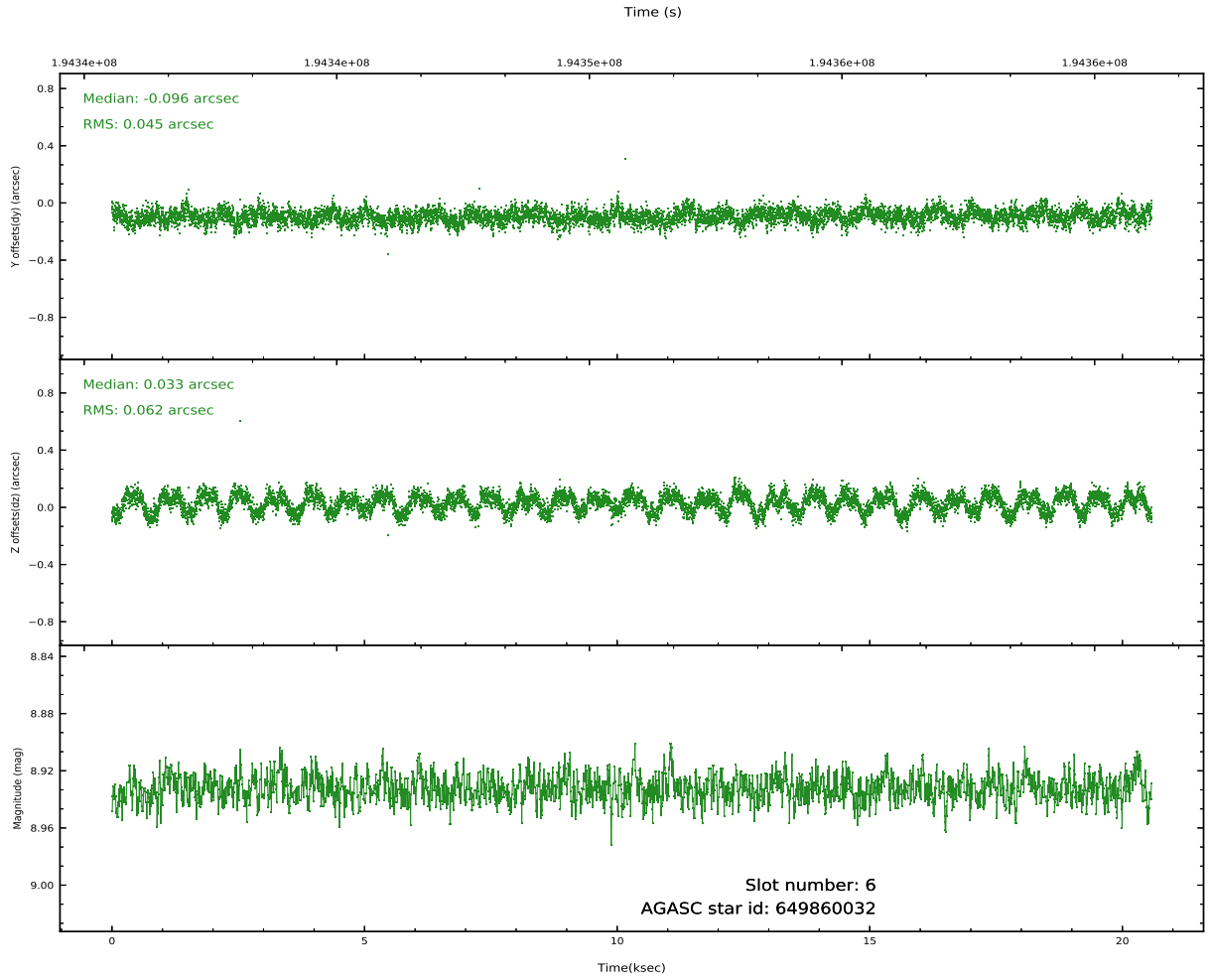
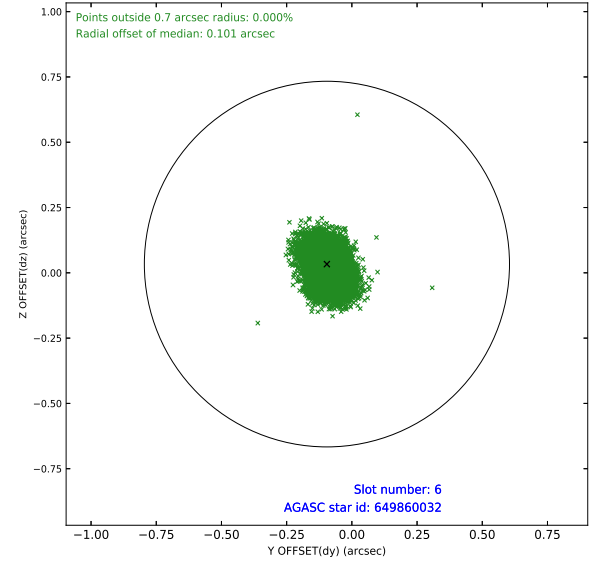
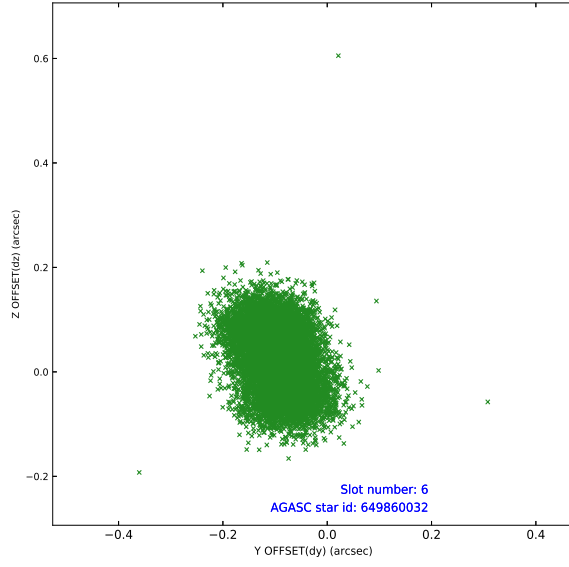
2.4.2 Slot 4



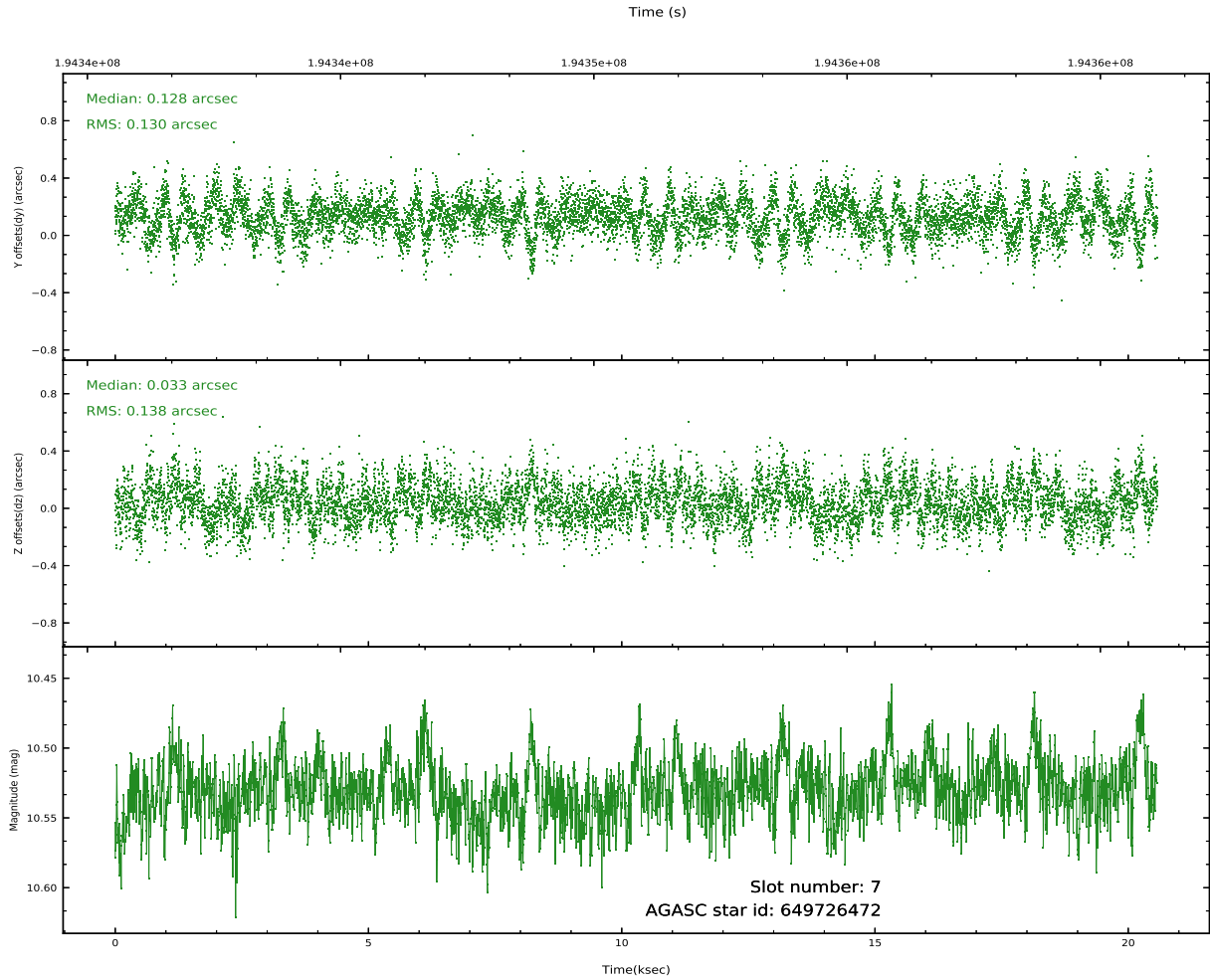
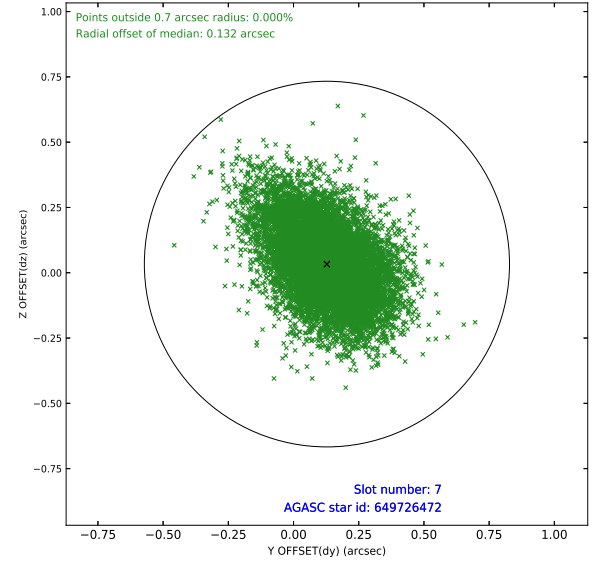
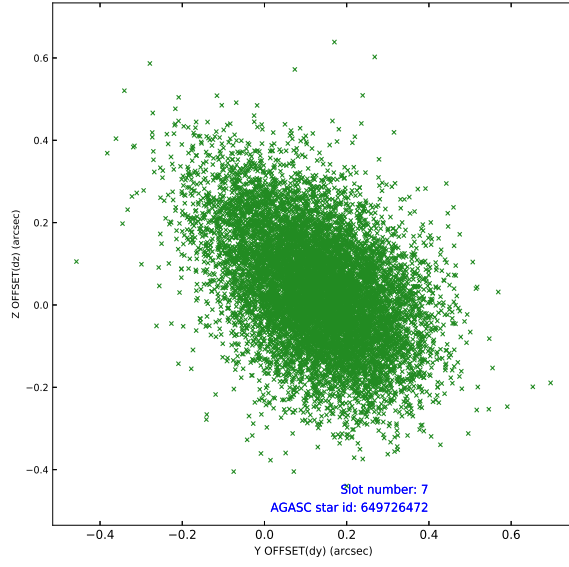
2.4.3 Slot 5



2.4.4 Slot 6

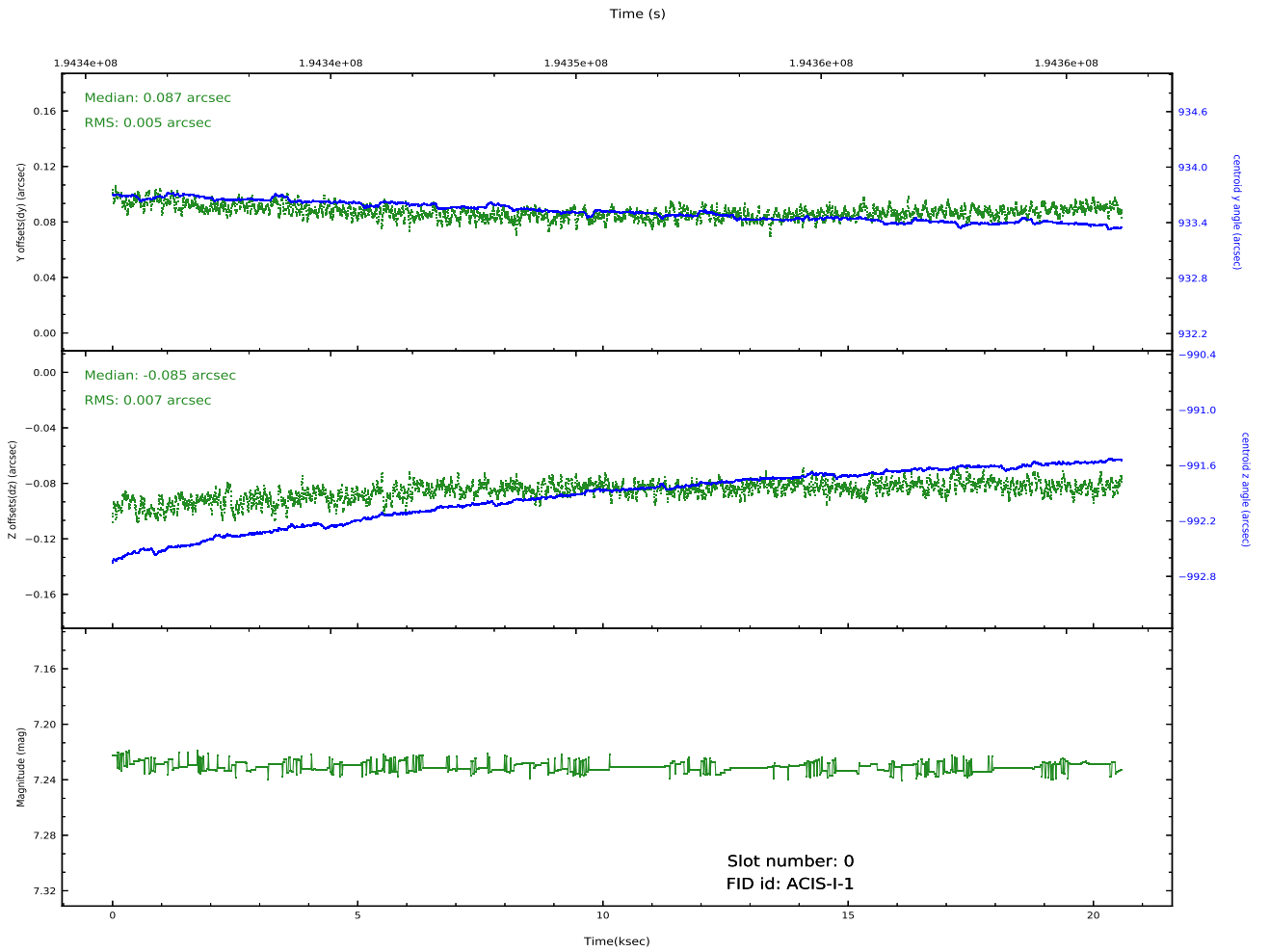
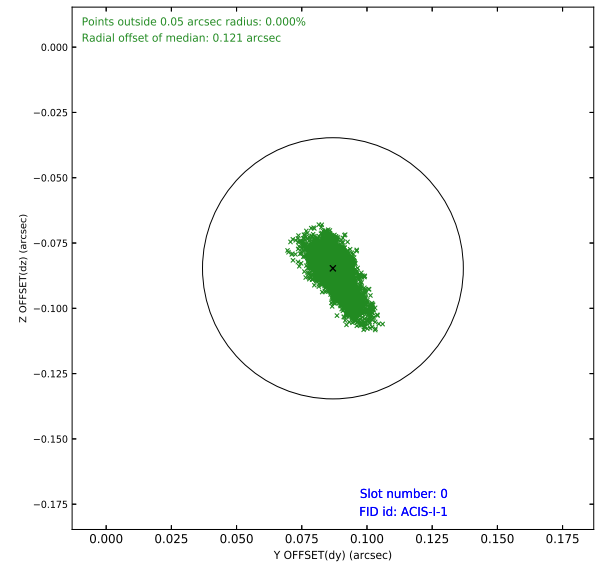
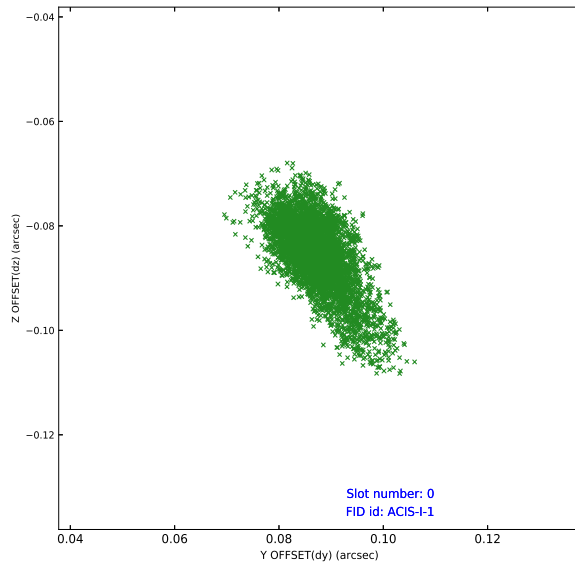


2.4.5 Slot 7

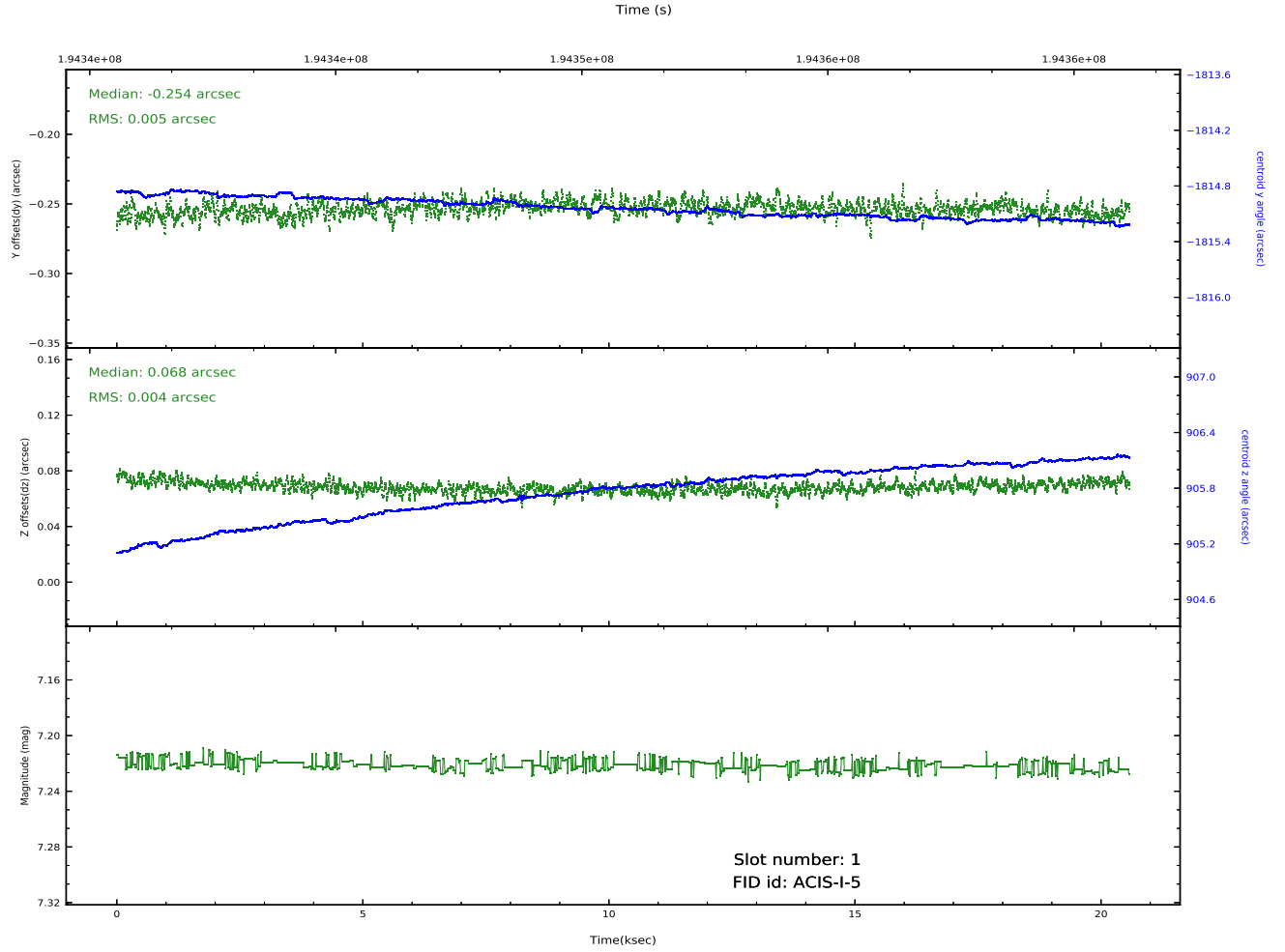
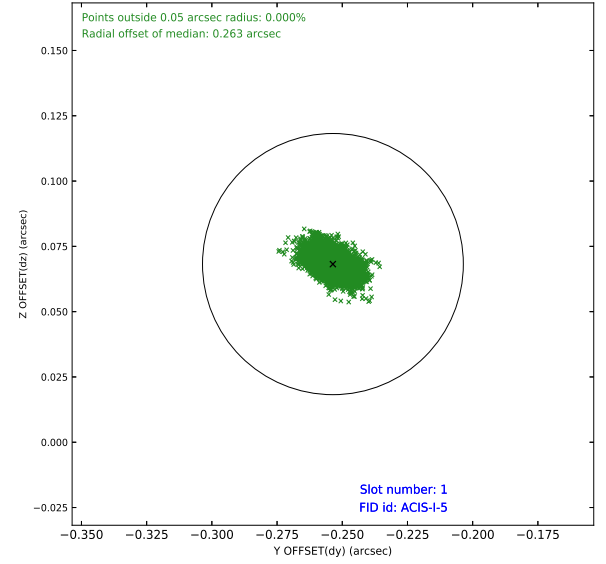
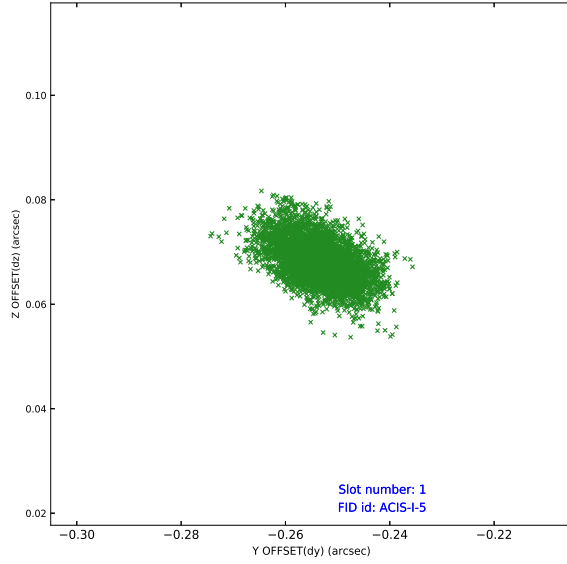


2.5 FID Slots

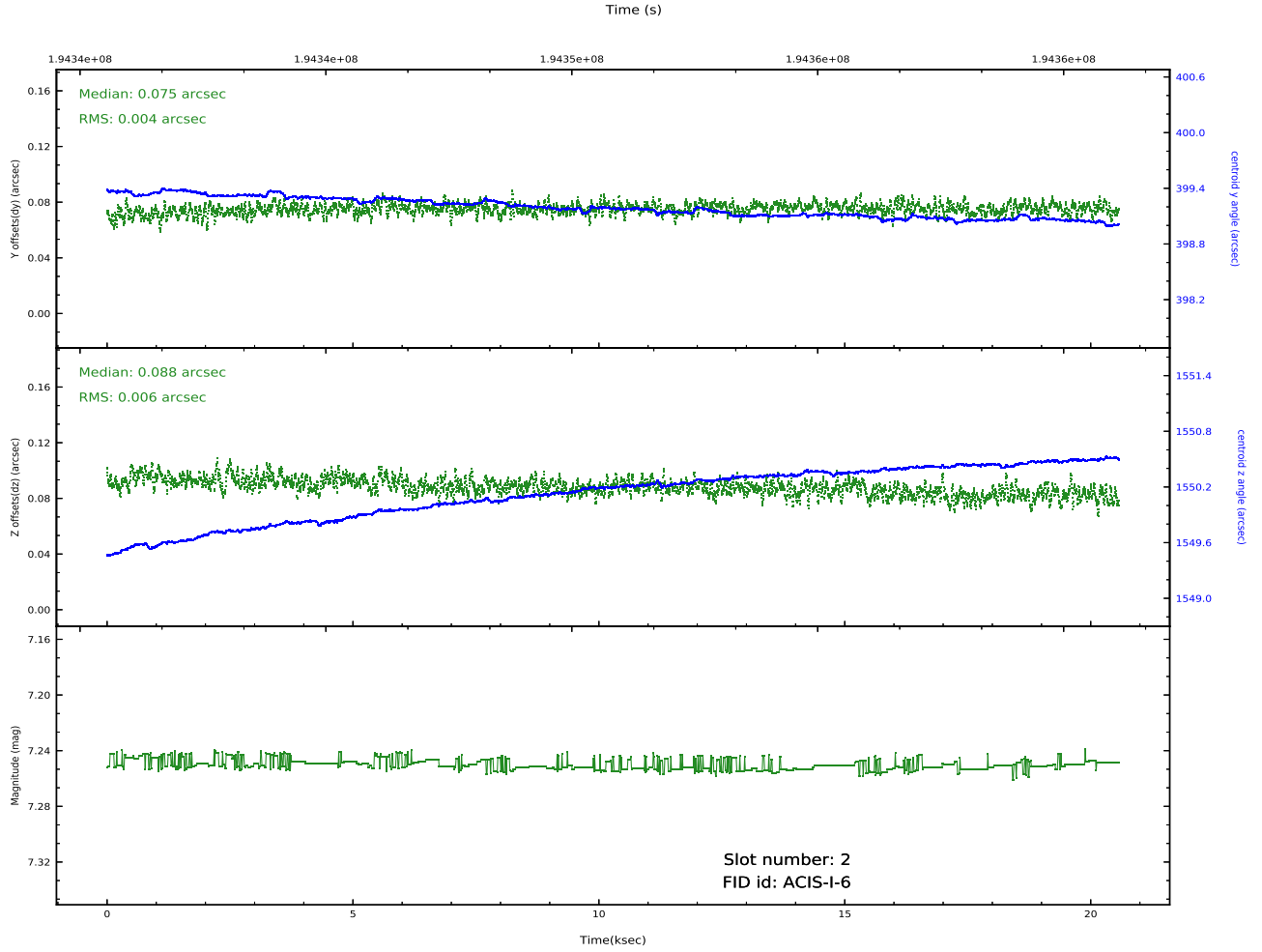
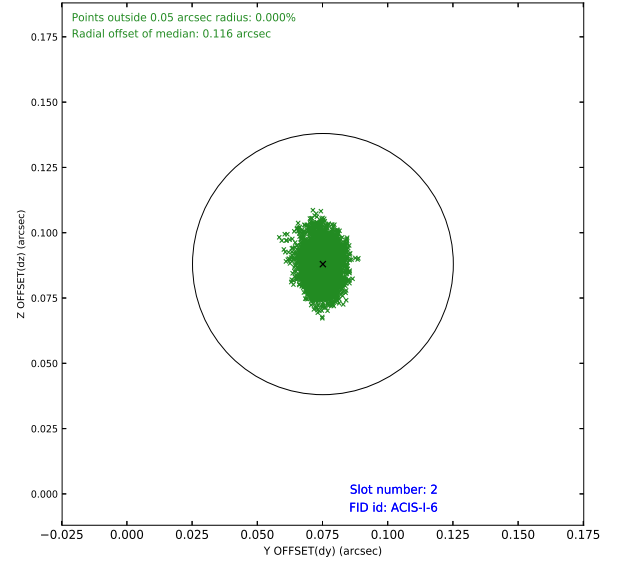
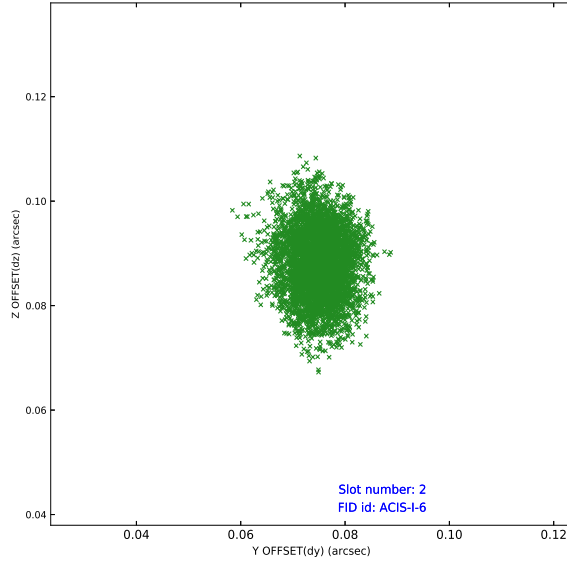
2.5.1 Slot 0



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)	2020.09.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.122

A.2 Comments