

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19654 - L2 Version 2
Chandra X-Ray Center

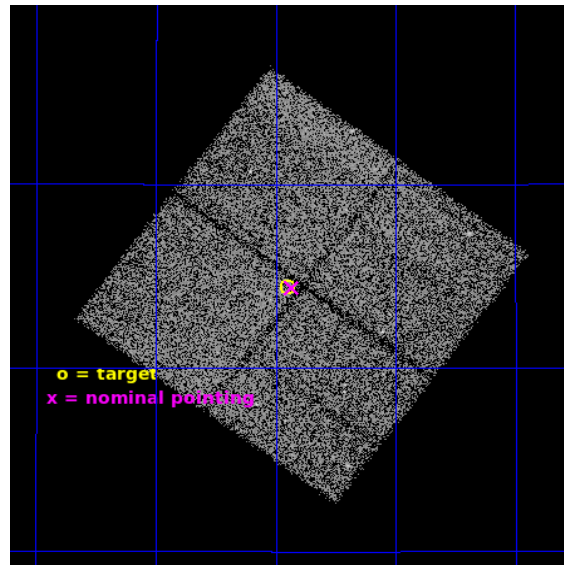
L2 Processing Date : Oct 25 2020

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1 Front

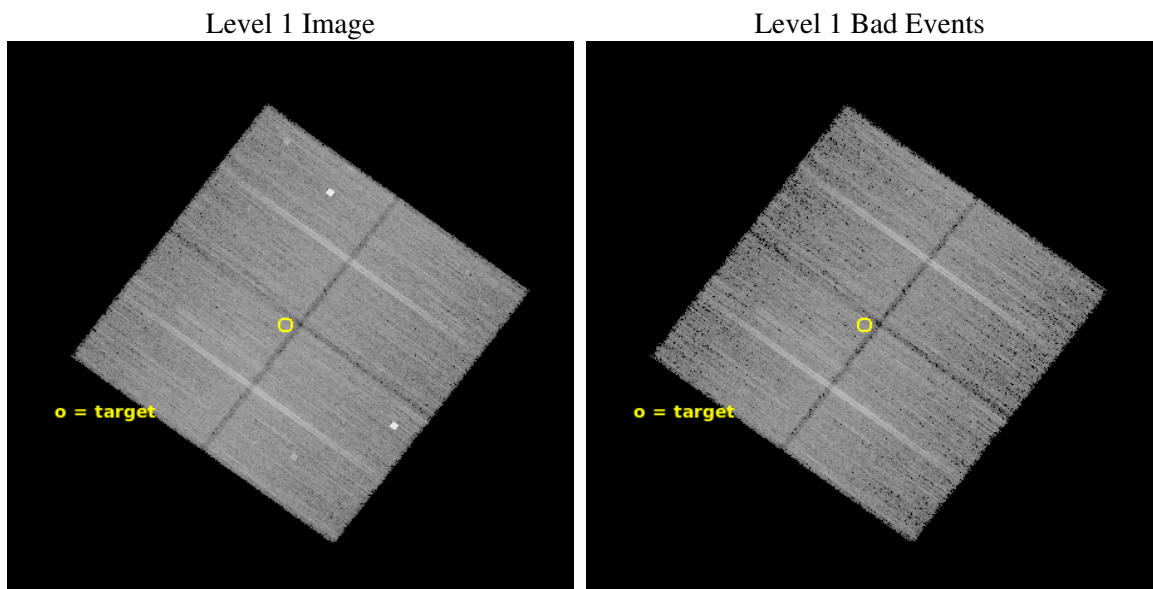
seq_num	901361	Sequence number
obs_id	19654	Observation id
title	The Chandra Deep Wide-Field Survey: Completing the new generation of Chandra extragalactic surveys	Proposal title
observer	Ryan Hickox	Principal investigator
object	Xbootes (CDWFS)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.61213	Observer's specified target RA [deg]
dec_targ	33.40665	Observer's specified target Dec [deg]
ra_nom	217.60811062575	Nominal RA [deg]
dec_nom	33.406111086958	Nominal Dec [deg]
roll_nom	216.70460629921	Nominal Roll [deg]
revision	2	Processing version of data
ontime	24907.513845325	Sum of GTIs [s]
livetime	24582.07884029	Livetime [s]
ontime0	24910.531815648	Sum of GTIs [s]
ontime1	24910.572855592	Sum of GTIs [s]
ontime2	24910.613895655	Sum of GTIs [s]
ontime3	24907.513845325	Sum of GTIs [s]
l2events	67454	Number of level 2 events



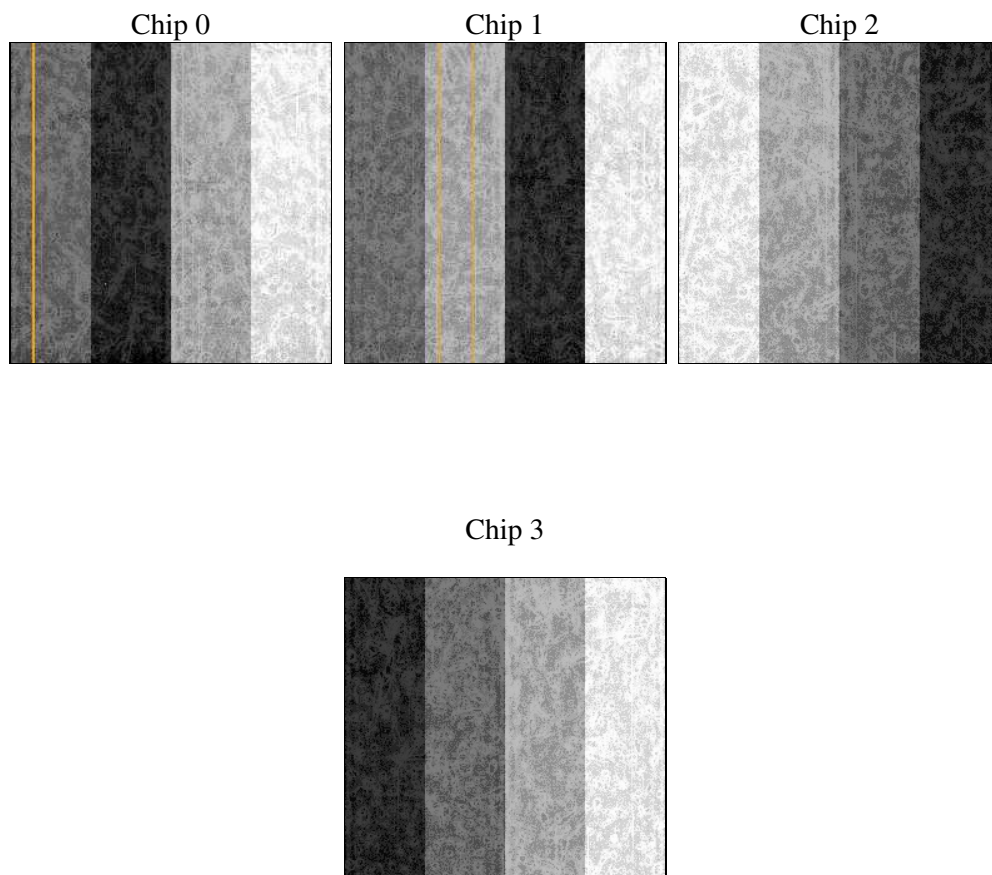
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	24907.513845325	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	24910.531815648	Sum of GTIs [s]
date	2020-10-25T23:06:57	Date and time of file creation	ontime1	24910.572855592	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	24910.613895655	Sum of GTIs [s]
			ontime3	24907.513845325	Sum of GTIs [s]
			l1events	742954	Number of level 1 events

2.1.4 Events

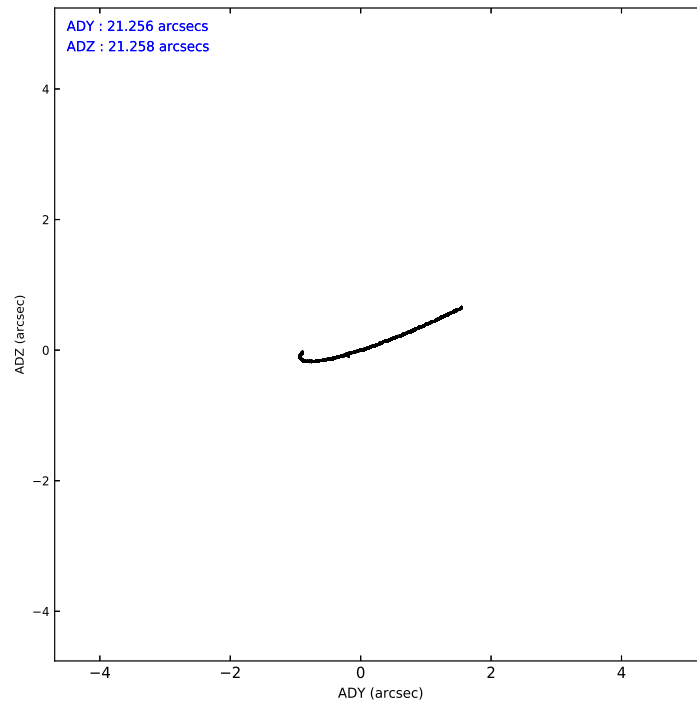
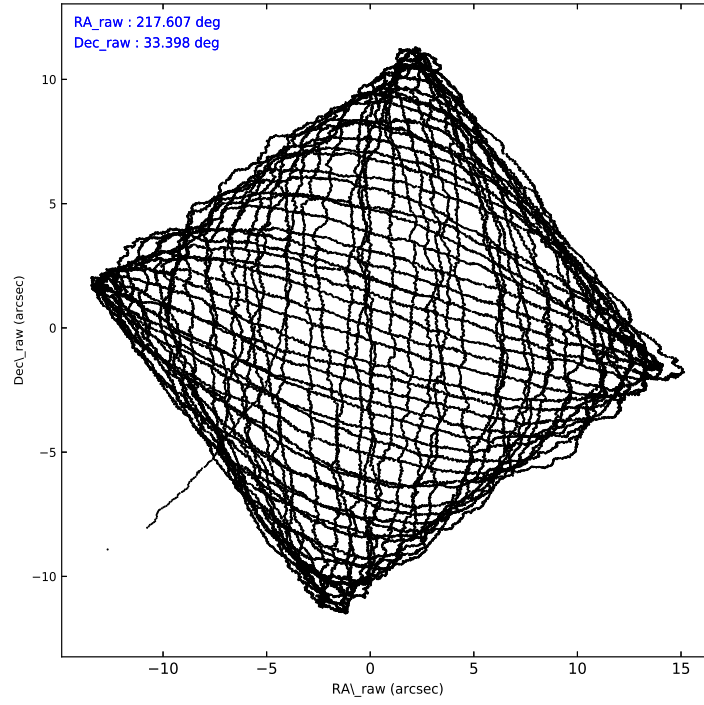
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	171245	186067	198595	187047
rejected events	151345	156578	171828	167986
rejected %	88%	84%	86%	89%

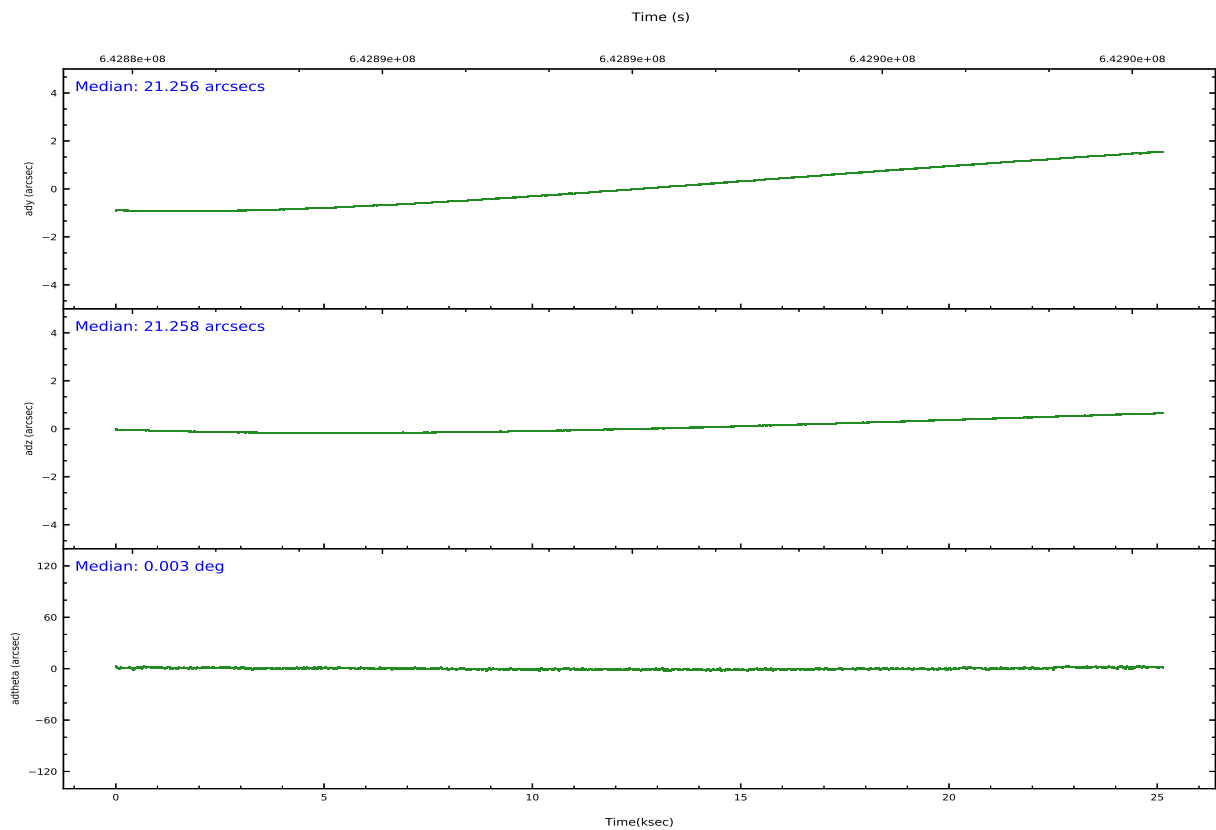
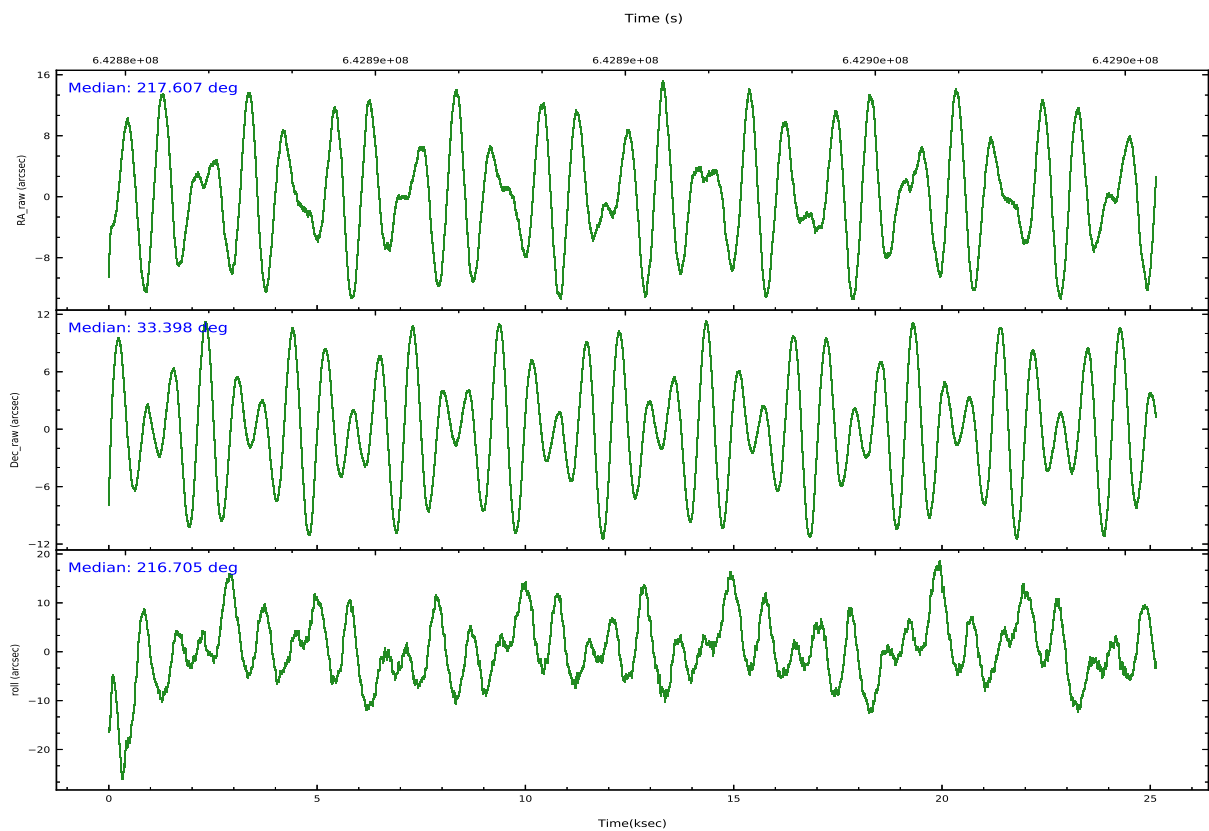
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	6566	14204	14112	6595
	3%	7%	7%	3%
grade 1 events	99	132	168	107
	0%	0%	0%	0%
grade 2 events	4895	6073	4742	4225
	2%	3%	2%	2%
grade 3 events	2072	1954	1964	2004
	1%	1%	0%	1%
grade 4 events	1880	1894	2079	2056
	1%	1%	1%	1%
grade 5 events	7493	7617	7125	8527
	4%	4%	3%	4%
grade 6 events	4492	5369	3877	4182
	2%	2%	1%	2%
grade 7 events	143748	148824	164528	159351
	83%	79%	82%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	217.619626	217.60811062575	CCD I2 on	Y	Y
[deg] Pointing Dec	33.422801	33.406111086958	CCD I3 on	Y	Y
[deg] Pointing Roll	216.495876	216.70460629921	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	642879741.184000	642878004.10587	CCD S5 on	N	N
Observation start date	2018-05-16T17:41:12	2018-05-16T17:13:24	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	642904741.184000	642905426.95749	On-chip summing requested	N	N
Observation end date	2018-05-17T00:37:52	2018-05-17T00:50:26	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



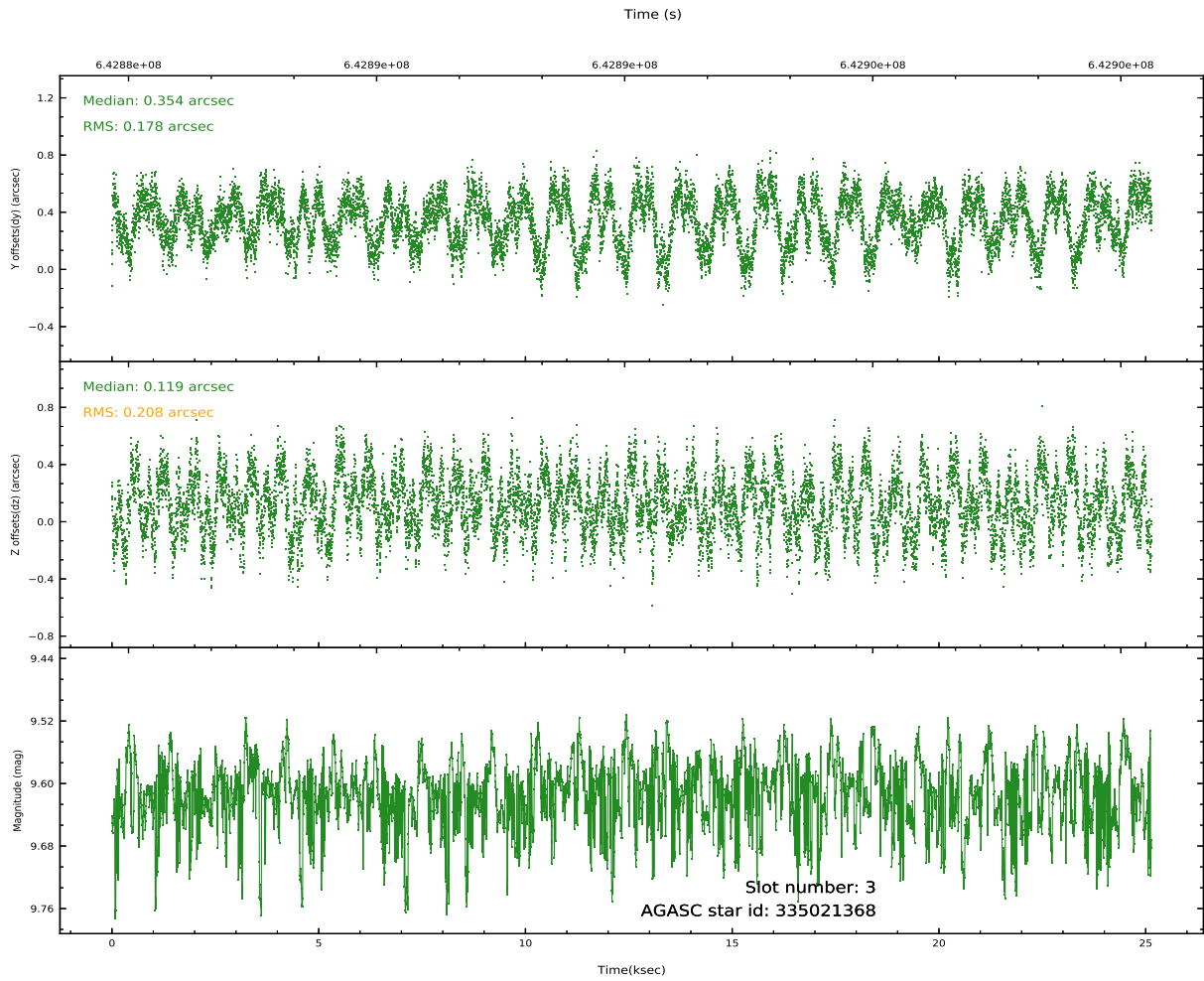
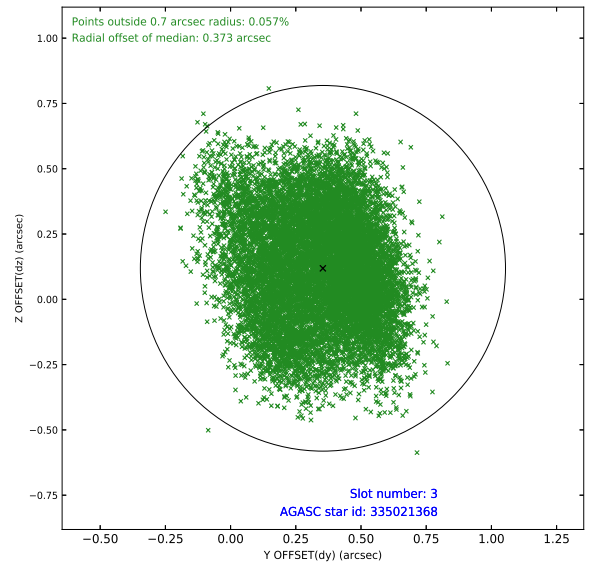
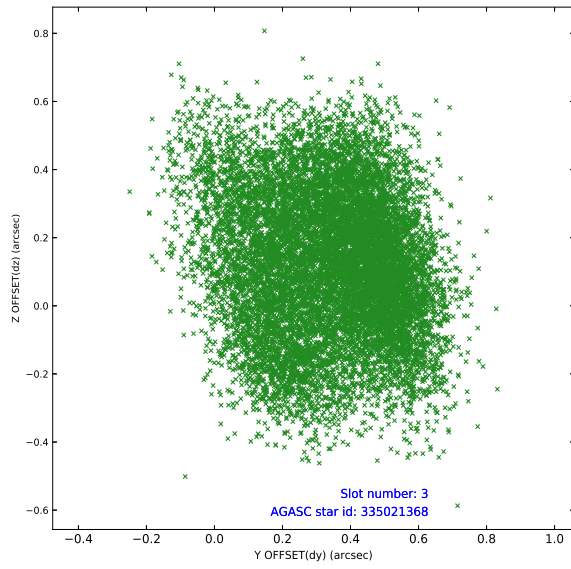


Slot Statistics

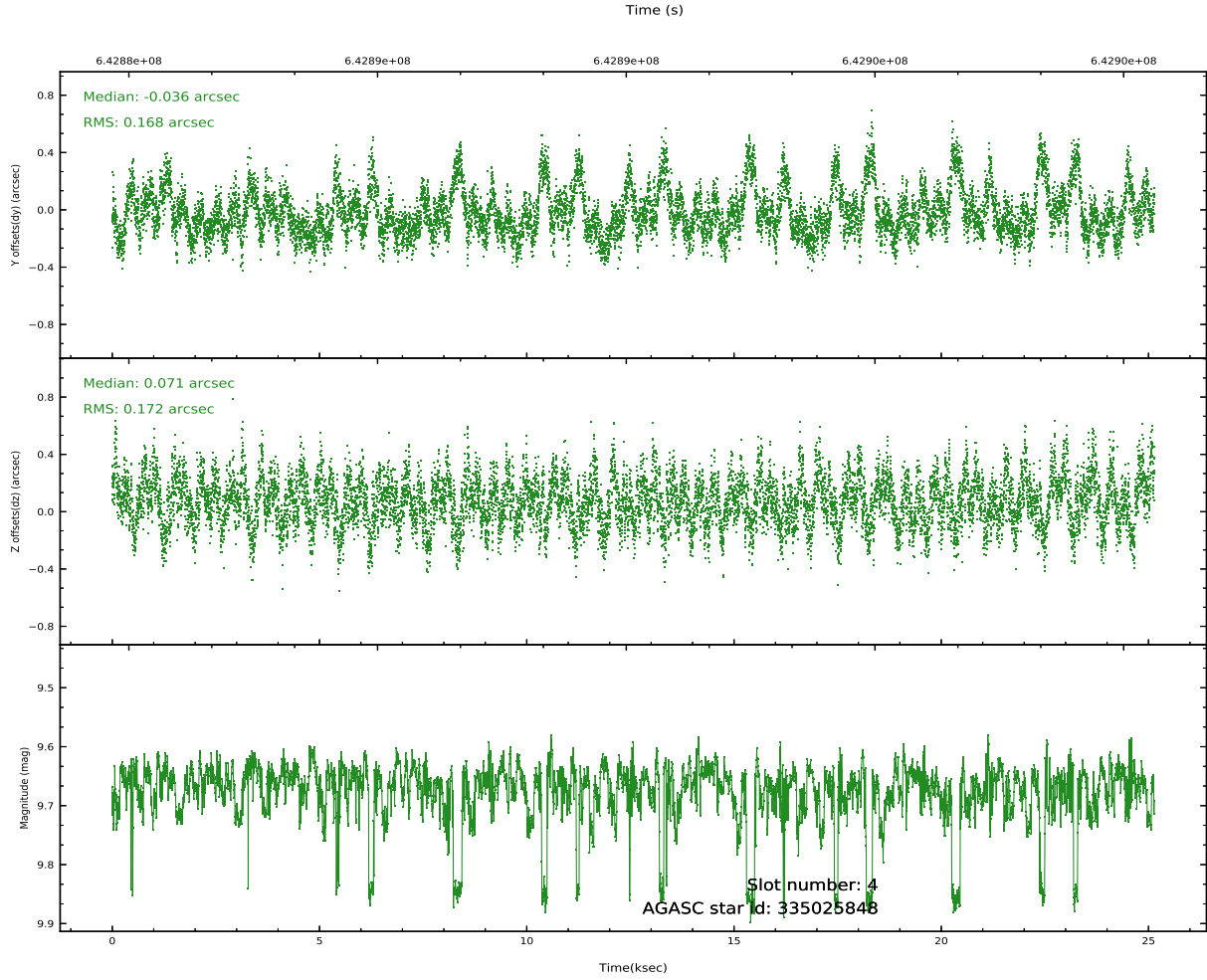
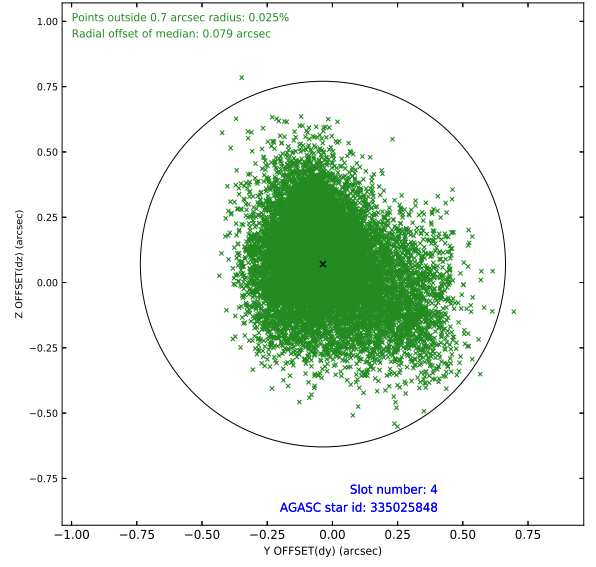
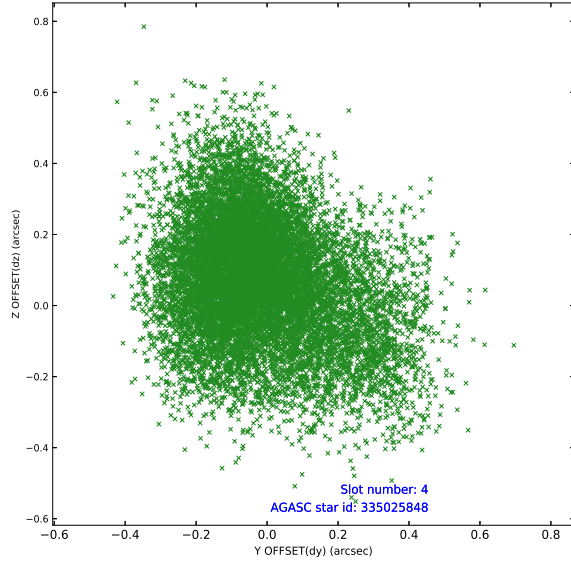
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.27	6132	1.000	0.190	-0.151	0.014	0.022	0.000000	0.000000	918.04	-845
1	FID		ACIS-I-4	7.20	6131	1.000	0.088	0.038	0.016	0.023	0.000000	0.000000	2138.23	1054
2	FID		ACIS-I-5	7.24	6132	1.000	-0.379	0.184	0.020	0.029	0.000000	0.000000	-1830.20	1052
3	GUIDE	used	335021368	9.61	12231	1.000	0.354	0.119	0.298	0.454	217.529643	33.934817	-878.87	-1641
4	GUIDE	used	335025848	9.67	12237	1.000	-0.036	0.071	0.250	0.432	217.530531	33.778292	-546.16	-1187
5	GUIDE	used	335028240	9.10	12251	1.000	-0.157	-0.381	0.206	0.337	216.746851	33.385009	2184.21	-1460
6	GUIDE	used	335028696	9.21	12244	1.000	0.124	0.048	0.189	0.313	217.260519	33.844112	-38.13	-1859
7	GUIDE	used	335029384	8.45	12259	1.000	-0.294	0.147	0.137	0.235	217.848061	33.088477	161.48	1378

2.4 Star Slots

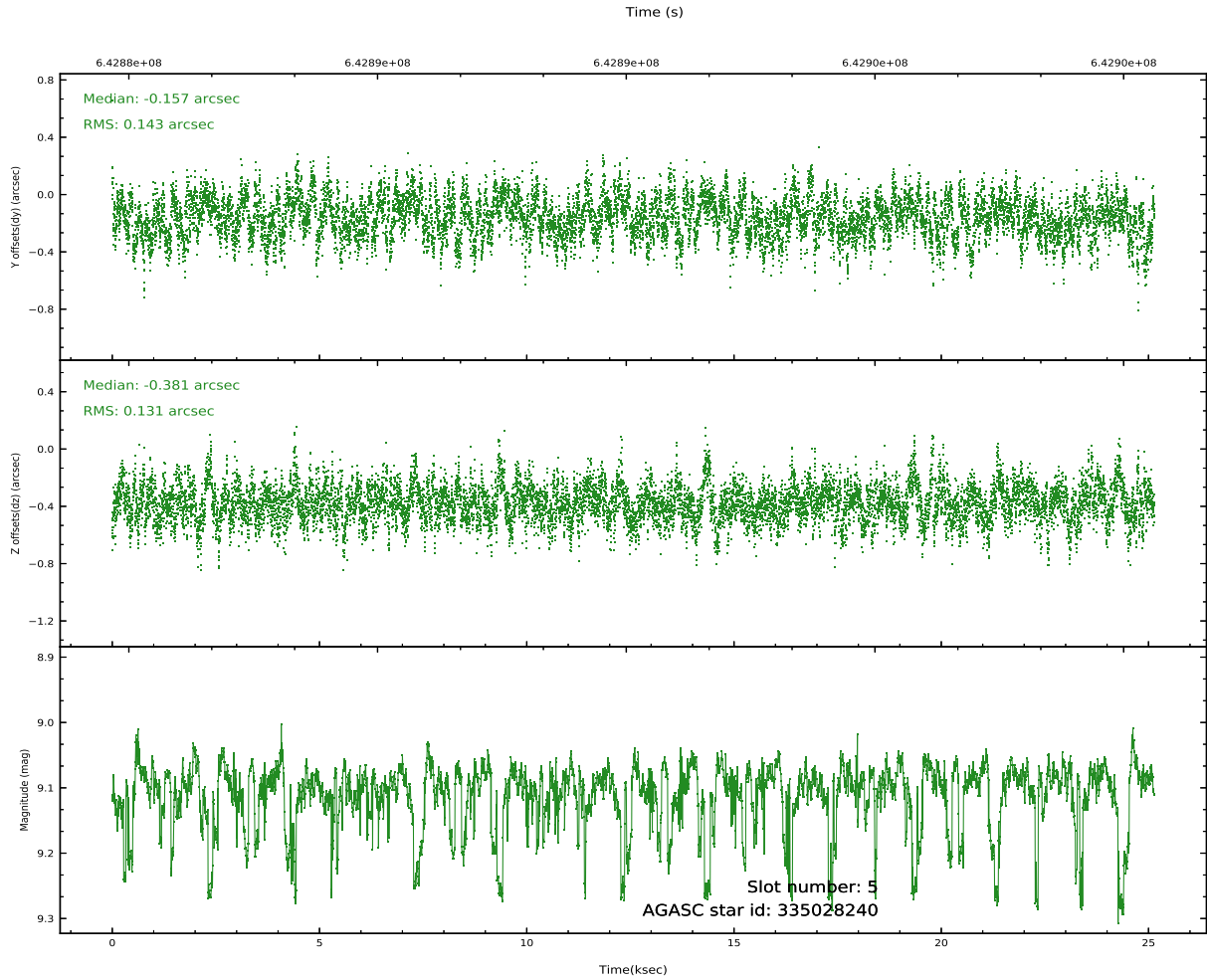
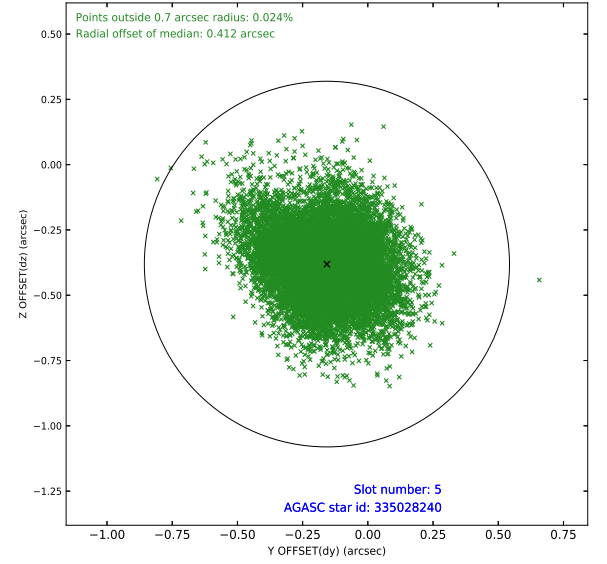
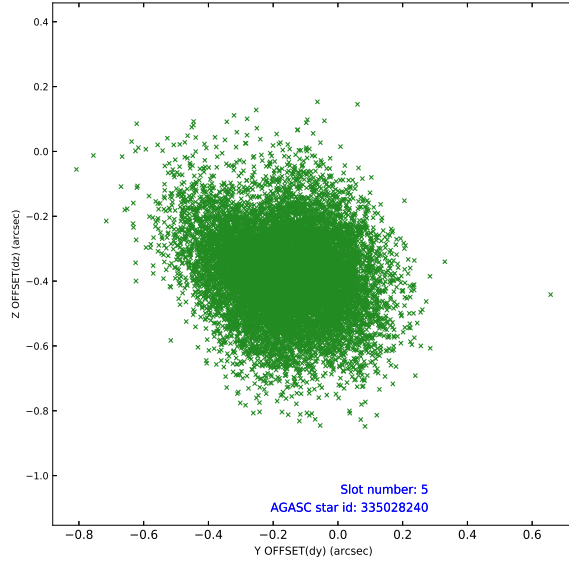
2.4.1 Slot 3



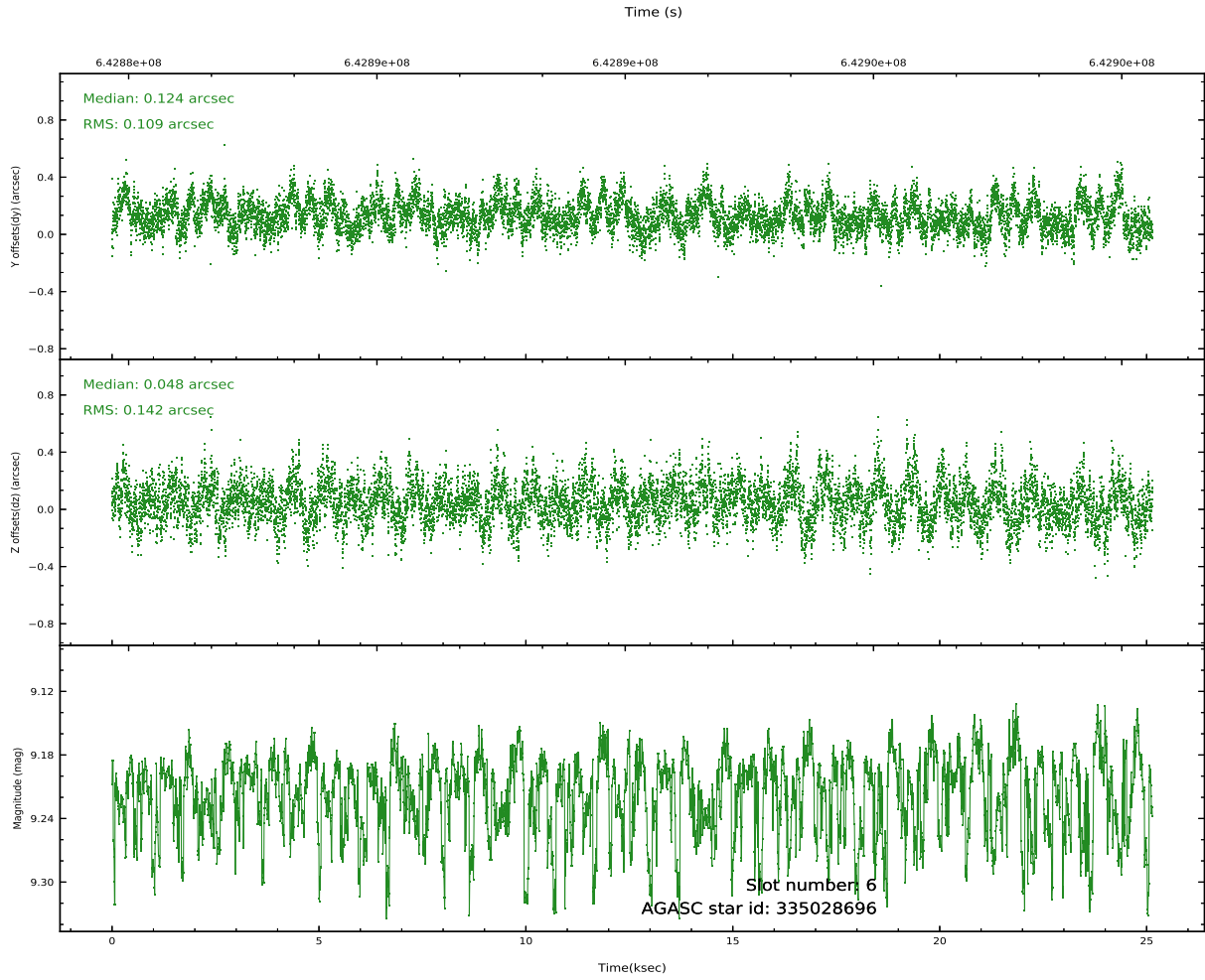
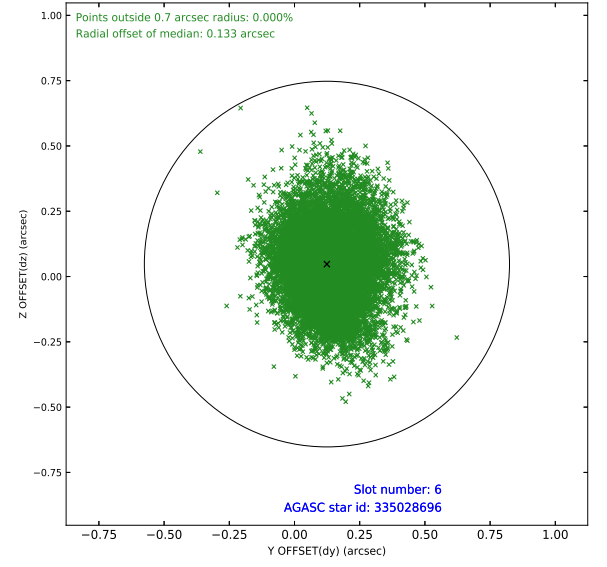
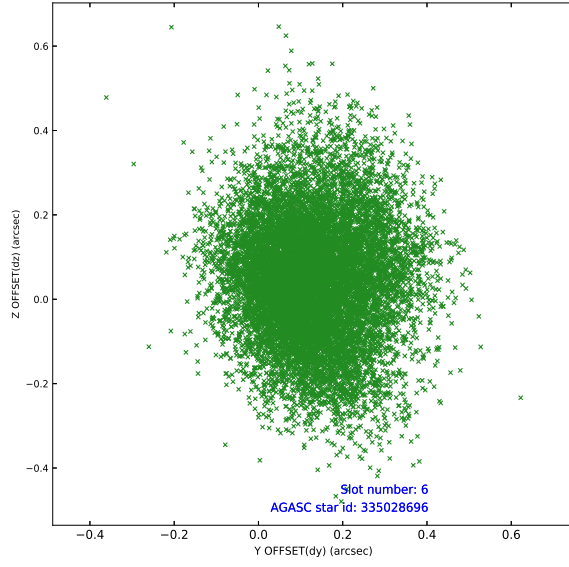
2.4.2 Slot 4



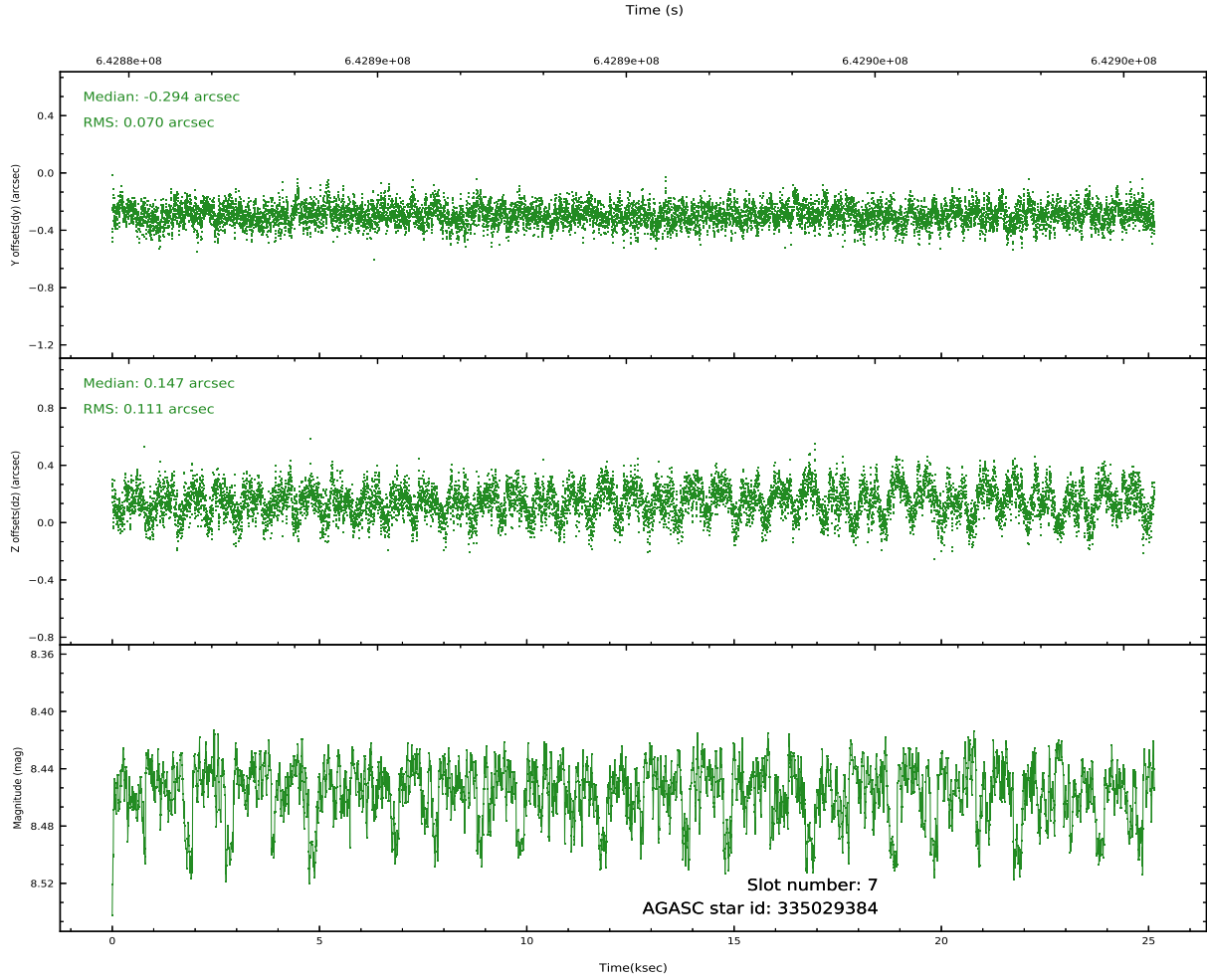
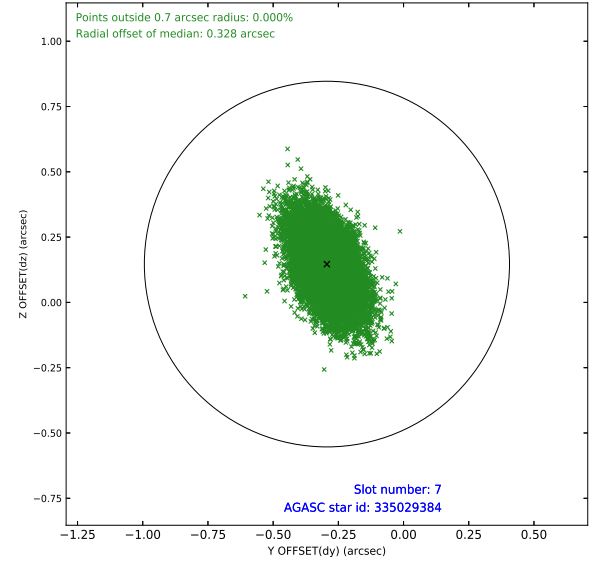
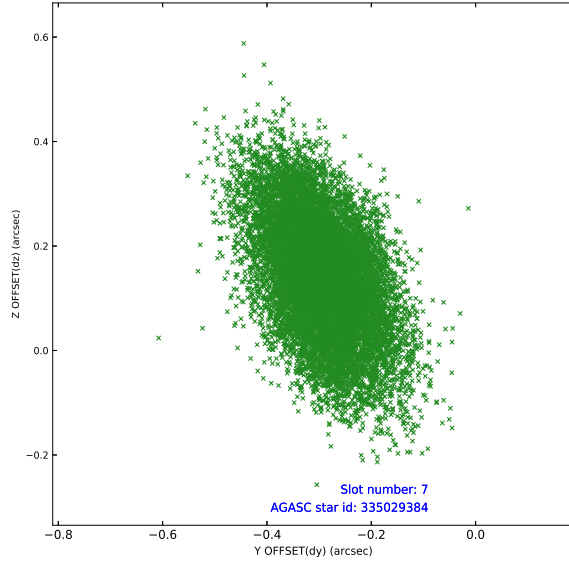
2.4.3 Slot 5



2.4.4 Slot 6

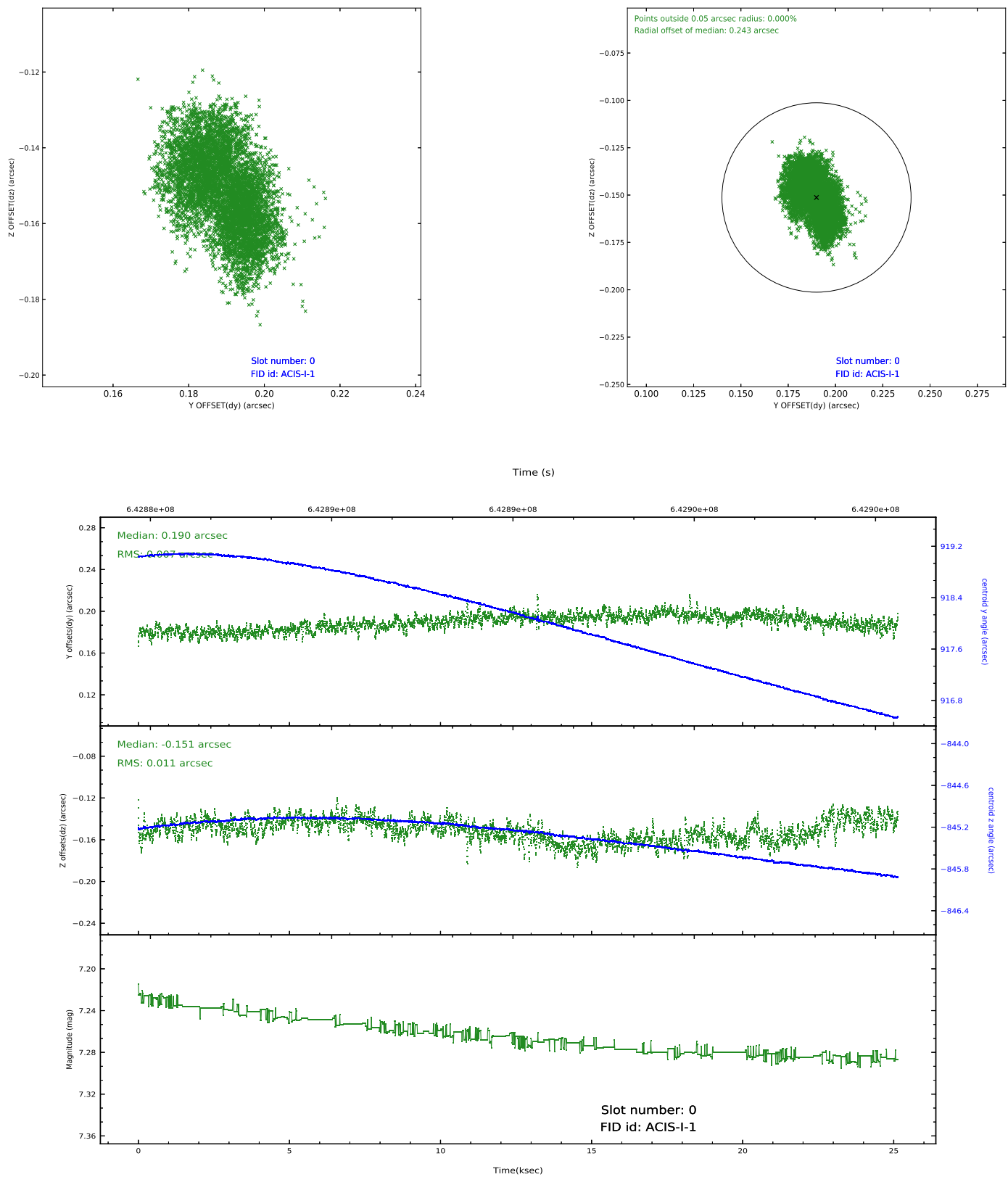


2.4.5 Slot 7

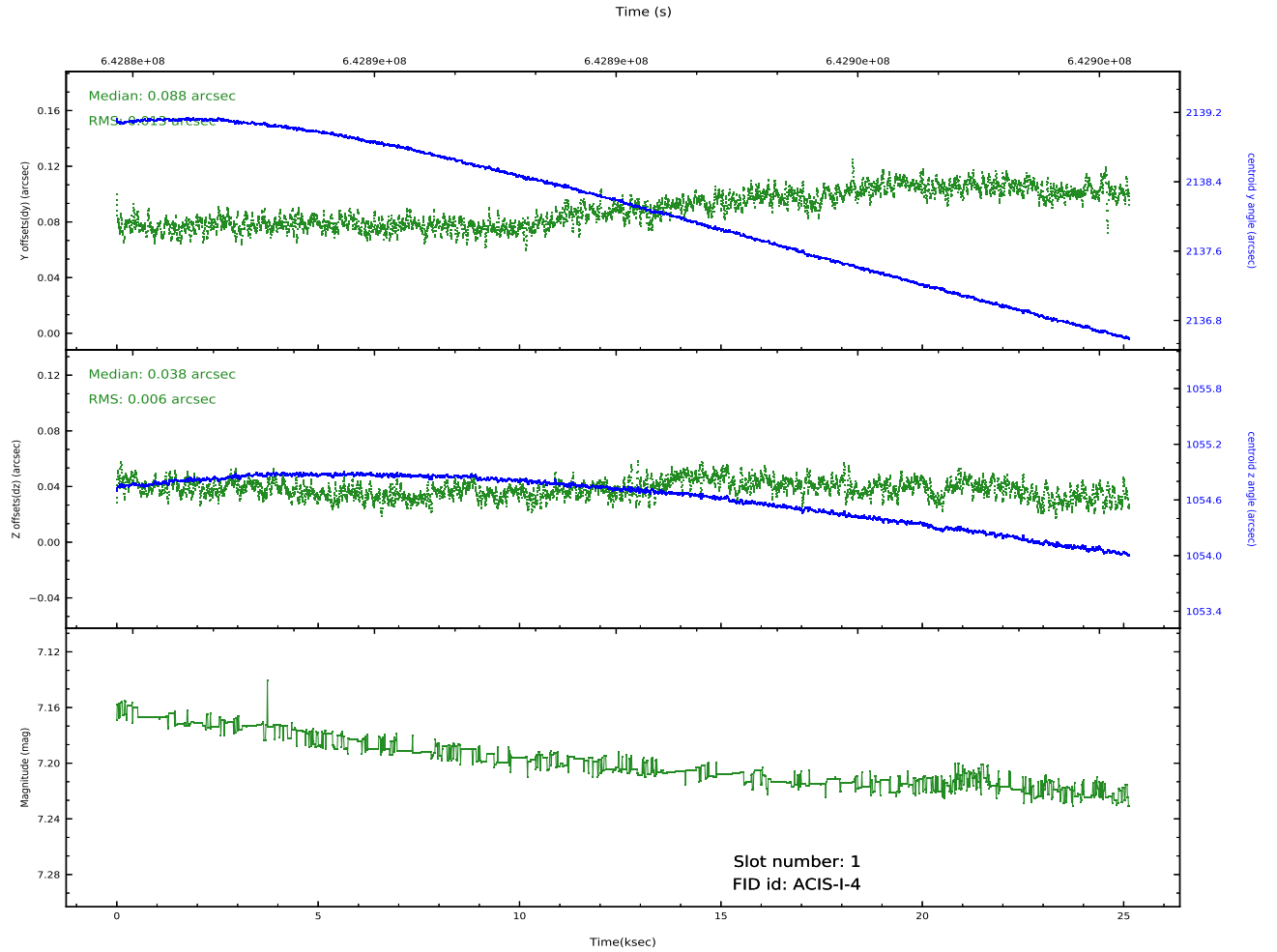
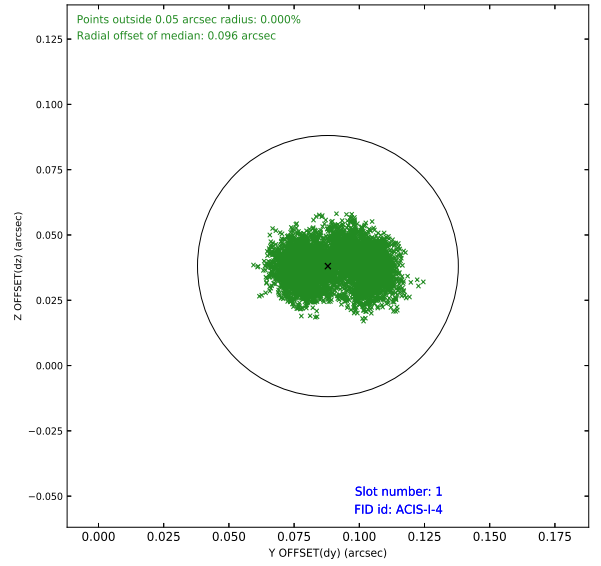
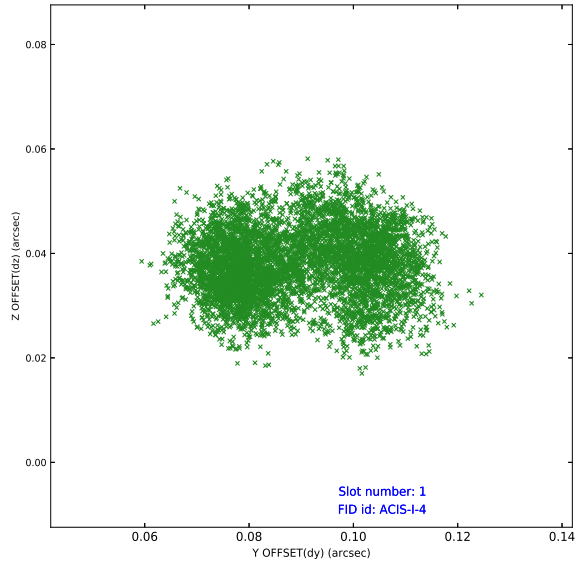


2.5 FID Slots

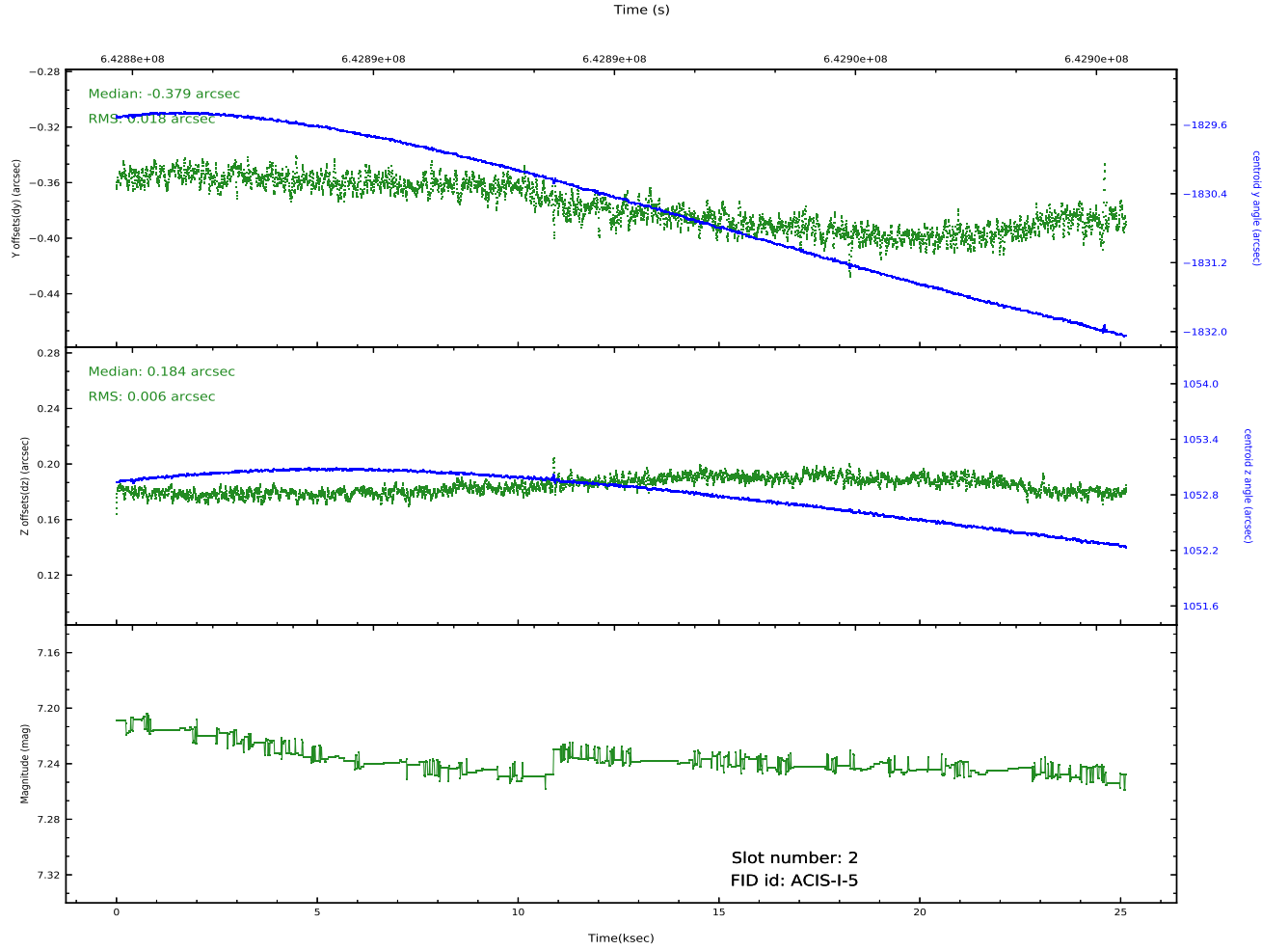
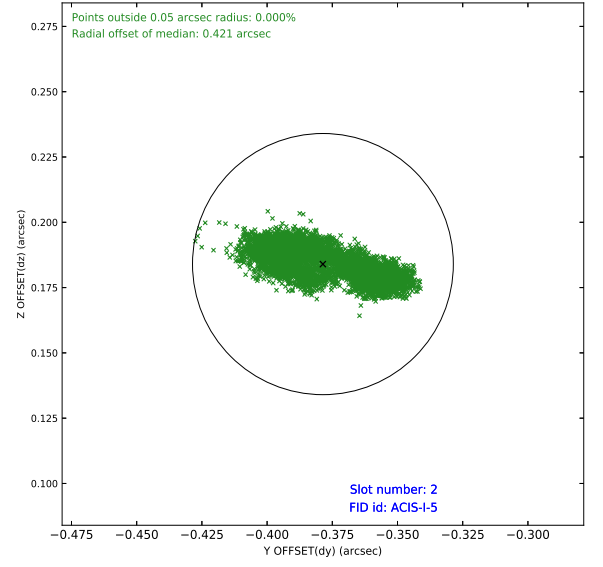
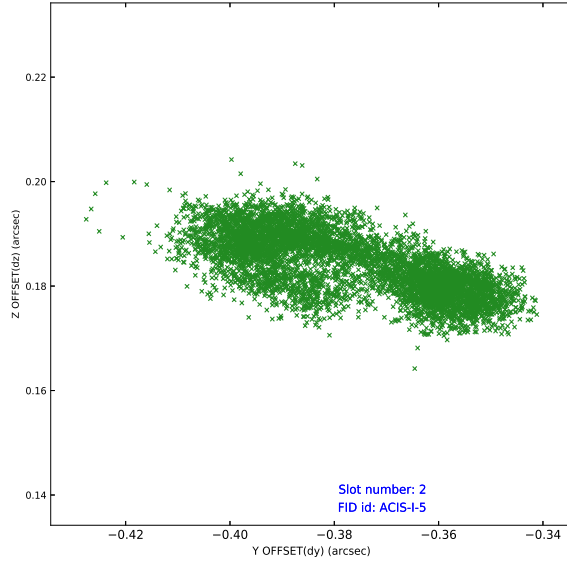
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.907513849616

A.2 Comments

One optional chip was dropped.