

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19671 - L2 Version 2
Chandra X-Ray Center

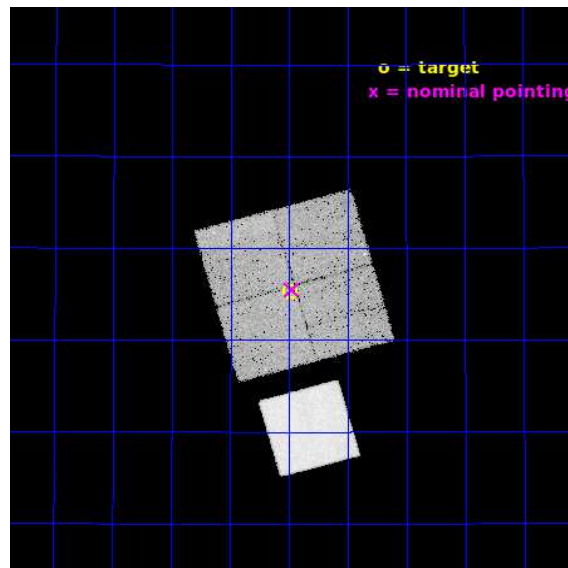
L2 Processing Date : Oct 25 2020

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1 Front

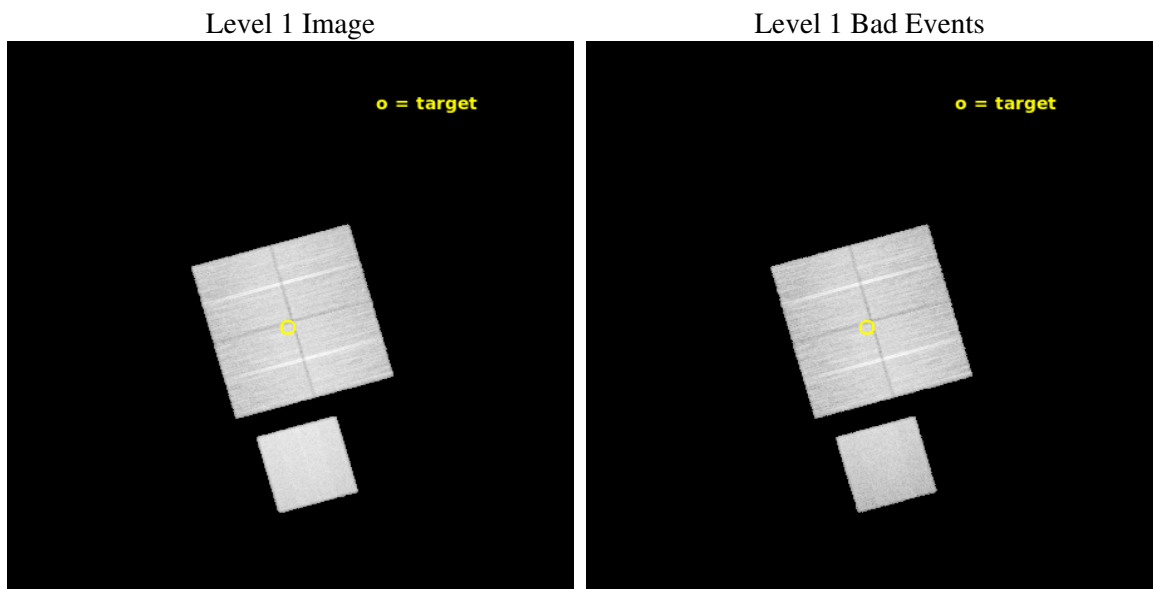
seq_num	901378	Sequence number
obs_id	19671	Observation id
title	The Chandra Deep Wide-Field Survey: Completing the new generation of Chandra extragalactic surveys	Proposal title
observer	Ryan Hickox	Principal investigator
object	Xbootes (CDWFS)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.87235	Observer's specified target RA [deg]
dec_targ	35.255718	Observer's specified target Dec [deg]
ra_nom	216.86894455361	Nominal RA [deg]
dec_nom	35.258093131459	Nominal Dec [deg]
roll_nom	164.26114583373	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25013.900192499	Sum of GTIs [s]
livetime	24687.075171519	Livetime [s]
ontime0	25007.618181944	Sum of GTIs [s]
ontime1	25010.759132743	Sum of GTIs [s]
ontime2	25010.759192228	Sum of GTIs [s]
ontime3	25013.900192499	Sum of GTIs [s]
ontime7	25013.900192499	Sum of GTIs [s]
l2events	172736	Number of level 2 events



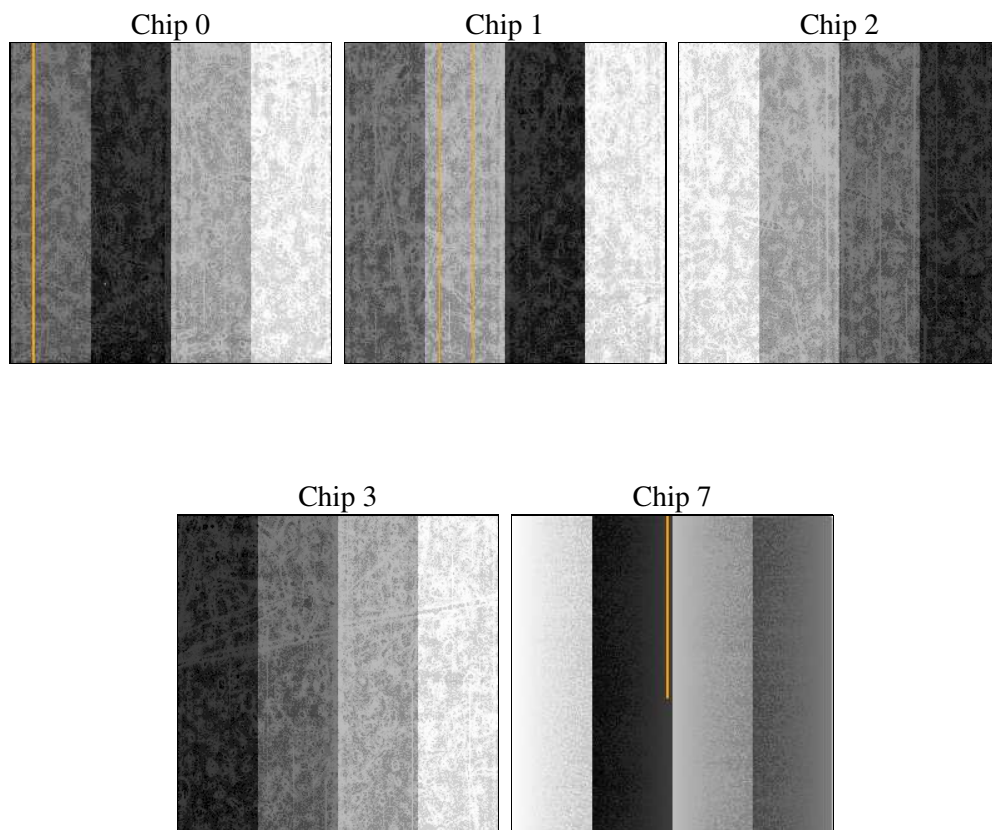
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24963.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	25013.900192499	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	25007.618181944	Sum of GTIs [s]
date	2020-10-25T12:58:49	Date and time of file creation	ontime1	25010.759132743	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	25010.759192228	Sum of GTIs [s]
			ontime3	25013.900192499	Sum of GTIs [s]
			ontime7	25013.900192499	Sum of GTIs [s]
			l1events	980794	Number of level 1 events

2.1.4 Events

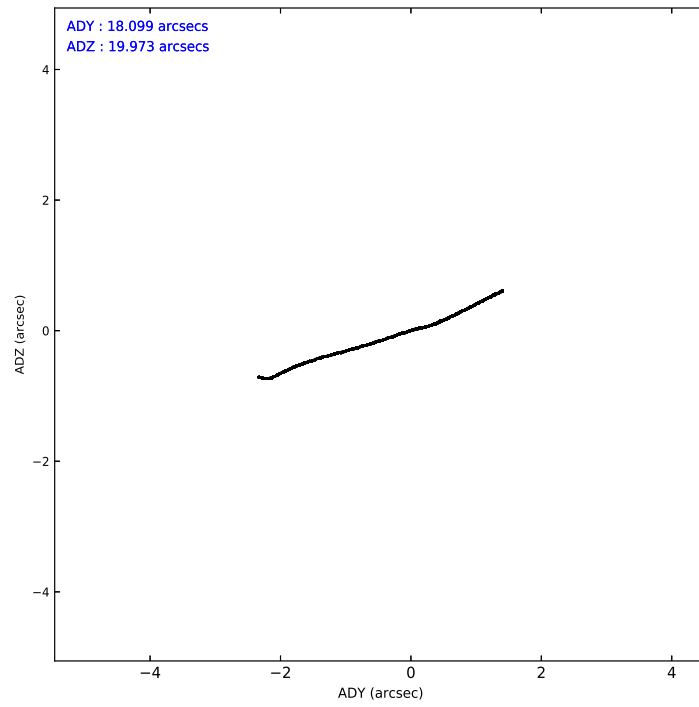
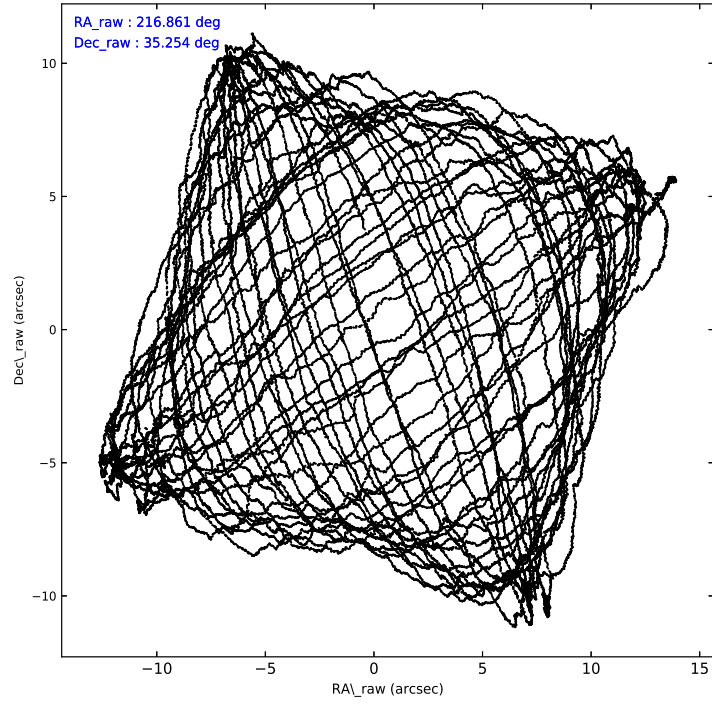
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	175775	180066	196735	183787	244431
rejected events	154893	156947	176456	163949	138031
rejected %	88%	87%	89%	89%	56%

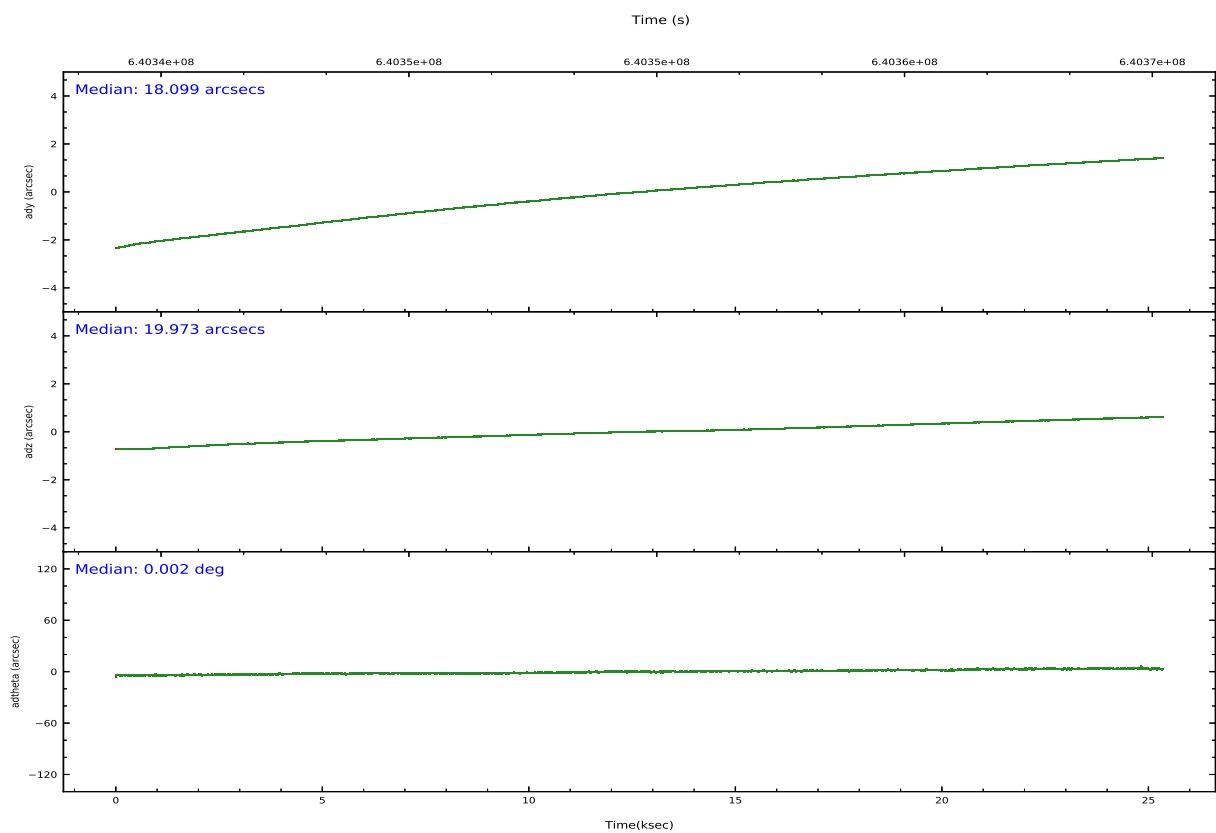
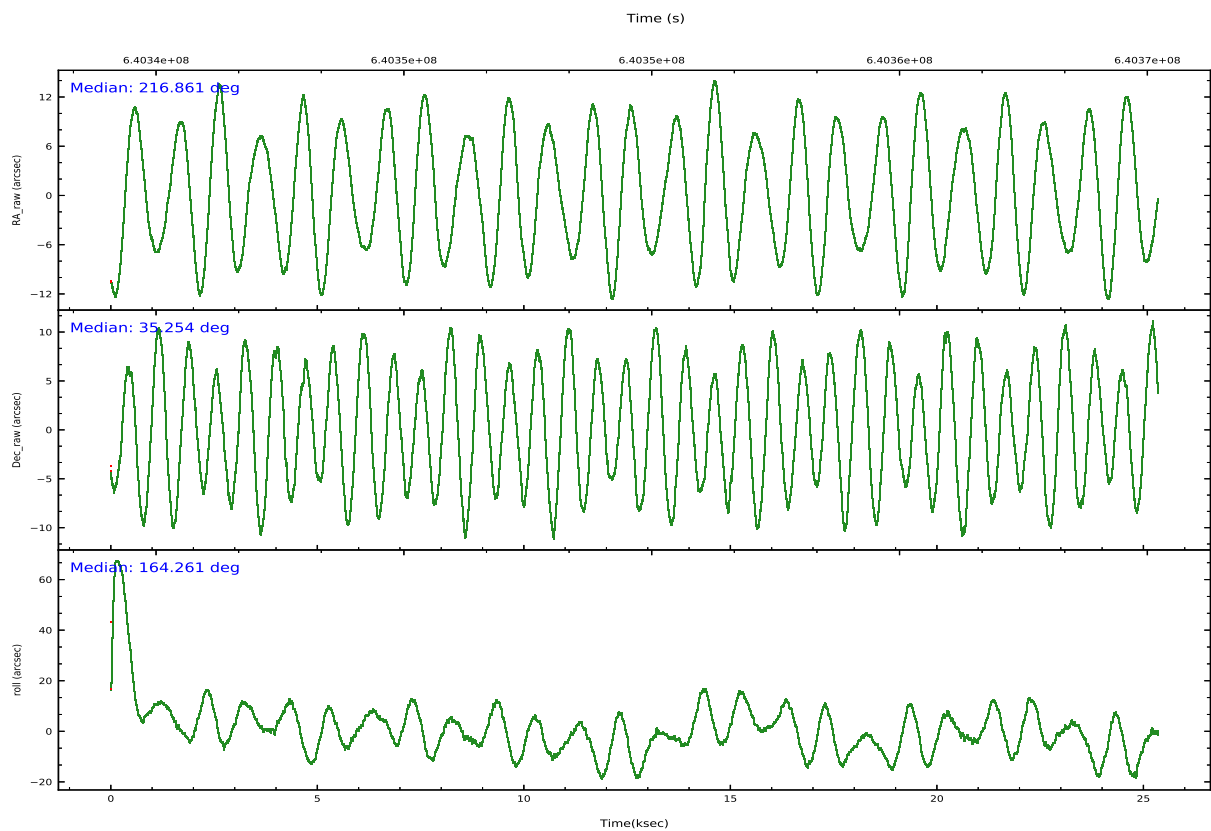
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	6948	7580	7050	6985	9119
	3%	4%	3%	3%	3%
grade 1 events	89	105	94	103	331
	0%	0%	0%	0%	0%
grade 2 events	5359	6055	5101	4399	22384
	3%	3%	2%	2%	9%
grade 3 events	2129	2148	2048	2055	8650
	1%	1%	1%	1%	3%
grade 4 events	2031	2134	2087	2175	8626
	1%	1%	1%	1%	3%
grade 5 events	7866	8313	7468	8933	24529
	4%	4%	3%	4%	10%
grade 6 events	4420	5209	3999	4231	57646
	2%	2%	2%	2%	23%
grade 7 events	146933	148522	168888	154906	113146
	83%	82%	85%	84%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01237	ACIS-01237	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	216.893687	216.86894455361	CCD I2 on	Y	Y
[deg] Pointing Dec	35.260743	35.258093131459	CCD I3 on	Y	Y
[deg] Pointing Roll	164.044043	164.26114583373	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	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	640341299.184000	640340254.63097	CCD S5 on	N	N
Observation start date	2018-04-17T08:33:50	2018-04-17T08:17:34	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	640366262.184000	640367361.27007	On-chip summing requested	N	N
Observation end date	2018-04-17T15:29:53	2018-04-17T15:49:21	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



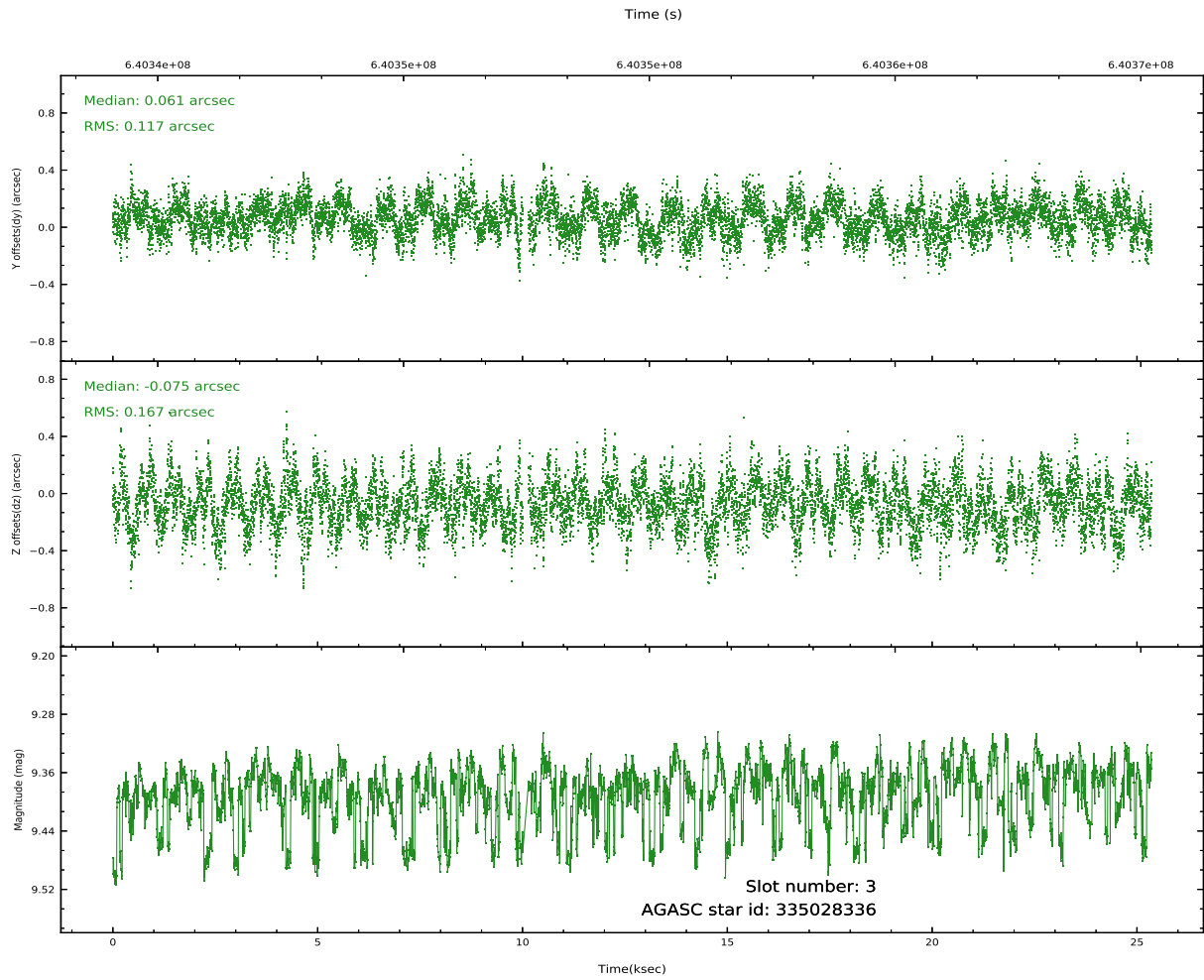
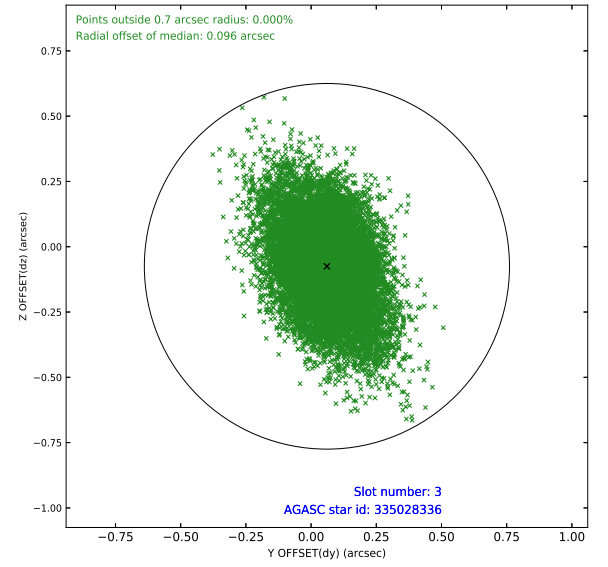
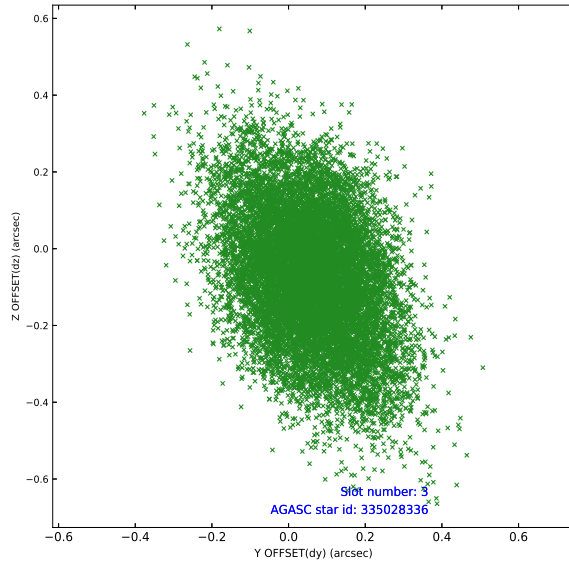


Slot Statistics

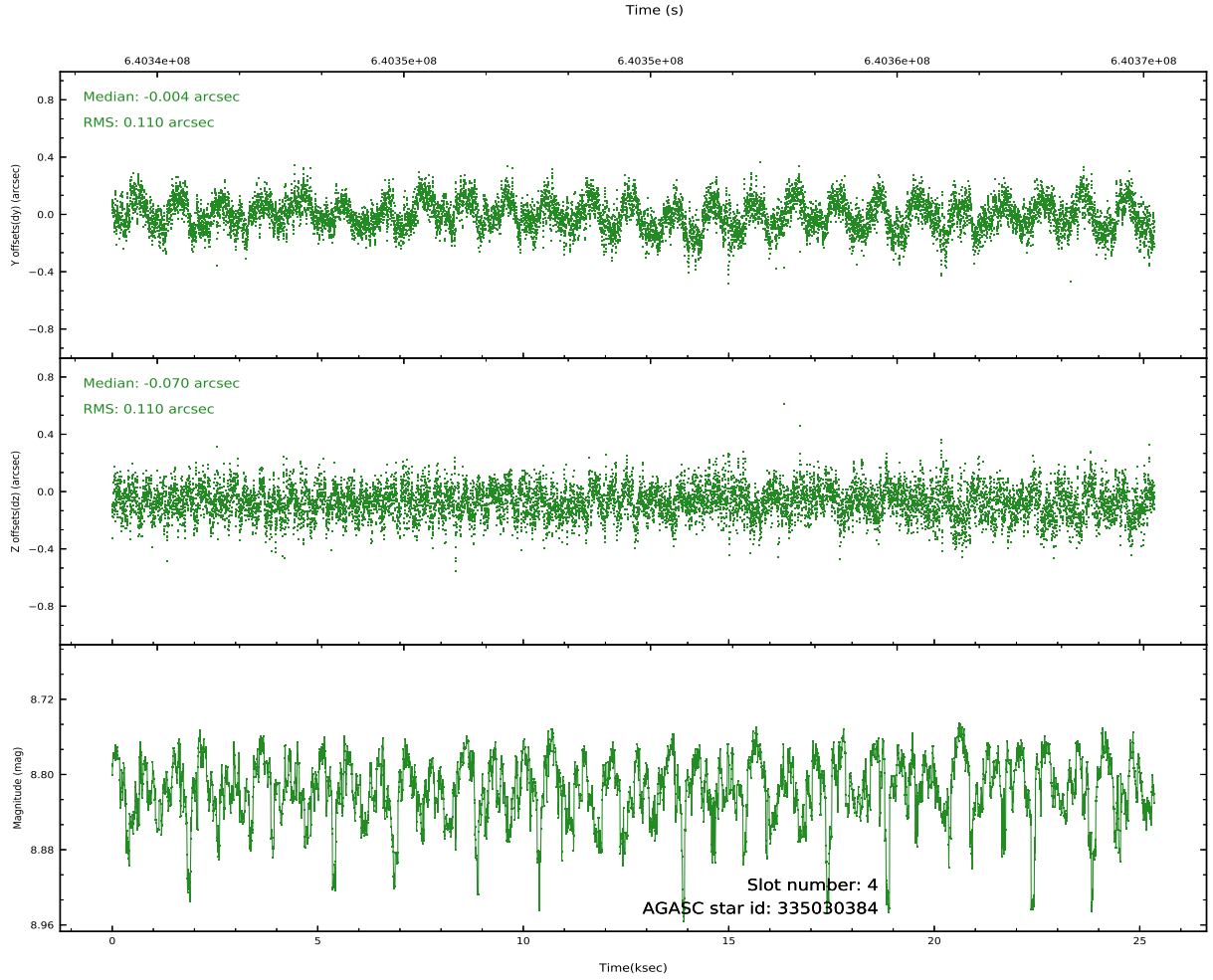
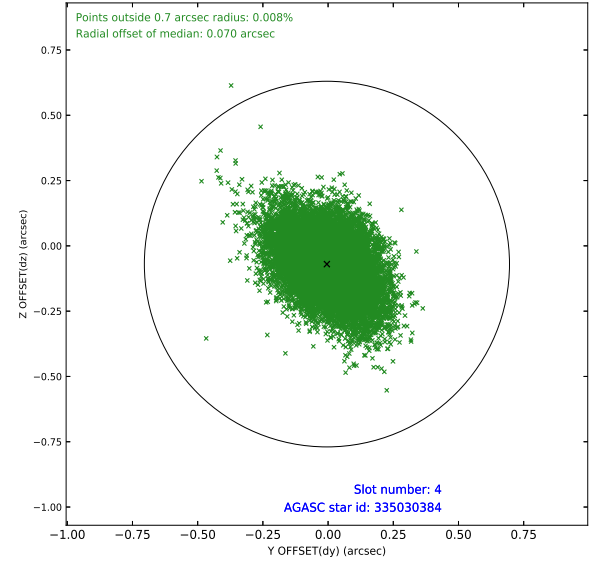
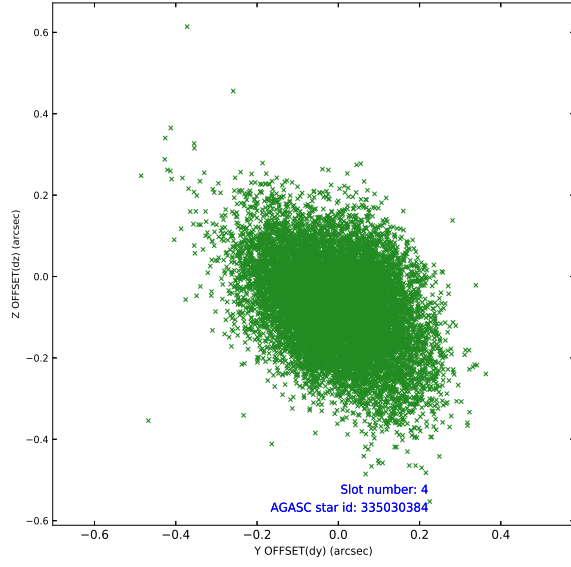
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.18	6185	1.000	0.180	-0.120	0.030	0.044	0.000000	0.000000	921.56	-843
1	FID		ACIS-I-5	7.18	6182	1.000	-0.298	0.154	0.012	0.019	0.000000	0.000000	-1826.84	1054
2	FID		ACIS-I-6	7.19	6183	1.000	0.025	0.036	0.021	0.033	0.000000	0.000000	386.98	1698
3	GUIDE	used	335028336	9.38	12274	1.000	0.061	-0.075	0.213	0.360	217.189840	34.665629	-1432.10	1817
4	GUIDE	used	335030384	8.81	12360	1.000	-0.004	-0.070	0.162	0.271	216.806407	34.722197	-284.97	1935
5	GUIDE	used	335414448	7.35	12364	1.000	-0.064	0.095	0.193	0.314	216.992261	35.577204	34.30	-1172
6	GUIDE	used	335417968	9.35	12352	1.000	-0.056	0.071	0.217	0.368	217.358149	35.055285	-1518.08	332
7	GUIDE	used	335419120	9.54	12353	1.000	0.081	0.001	0.223	0.385	216.521861	35.833546	1611.74	-1685

2.4 Star Slots

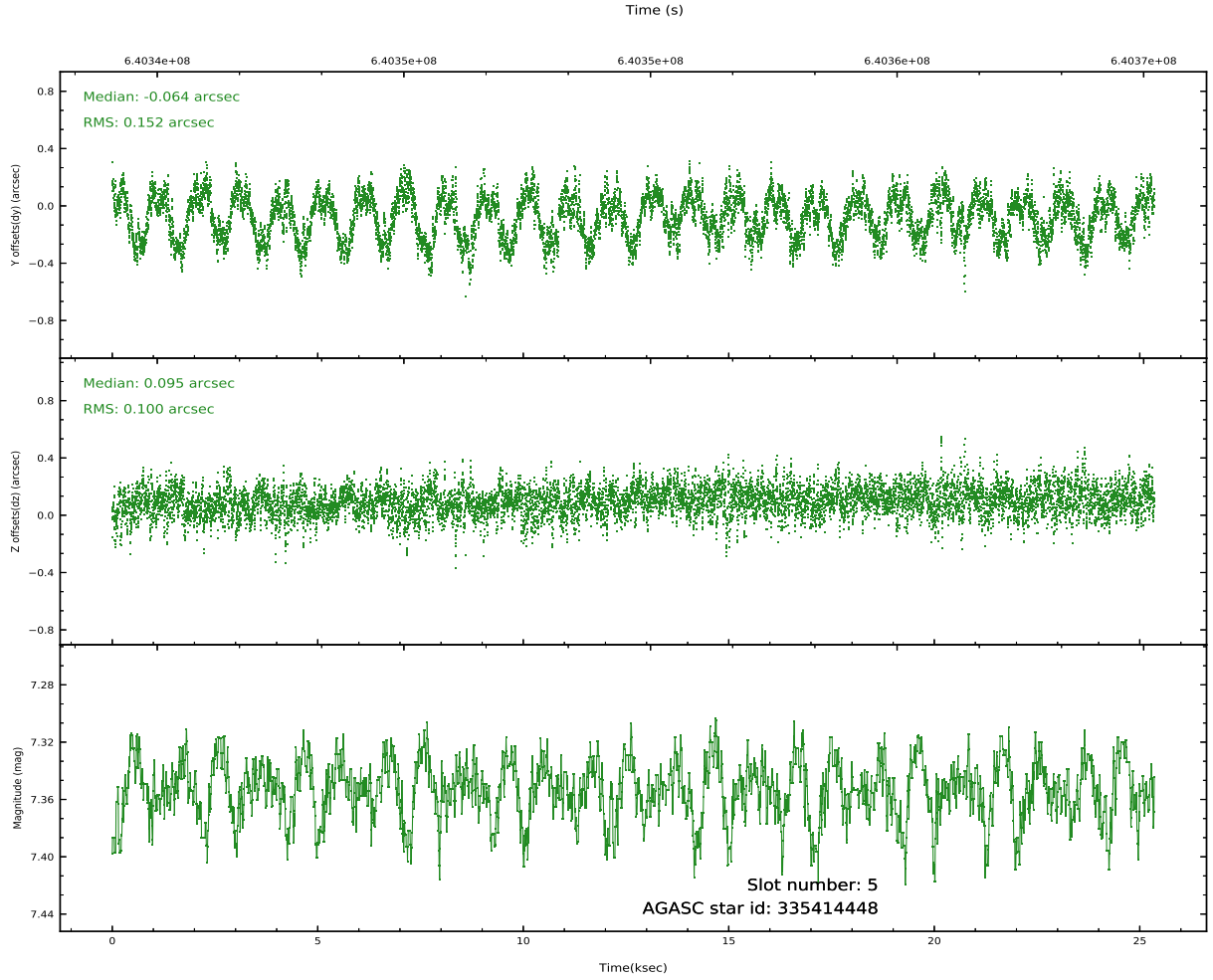
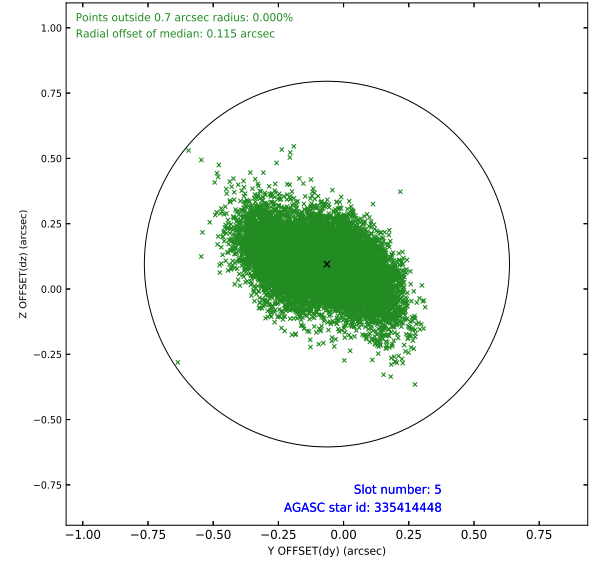
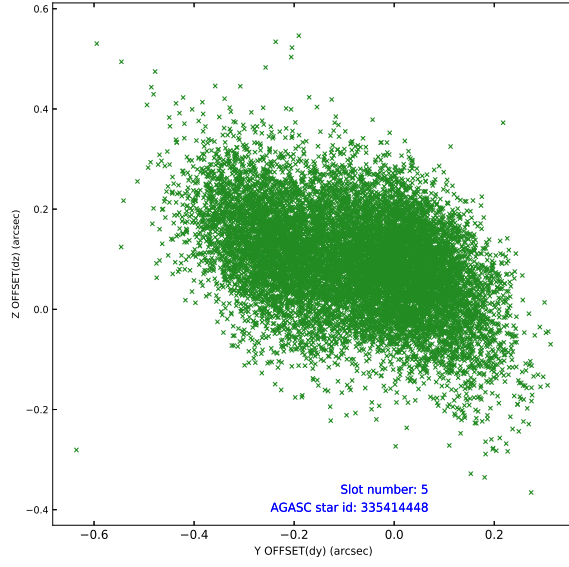
2.4.1 Slot 3



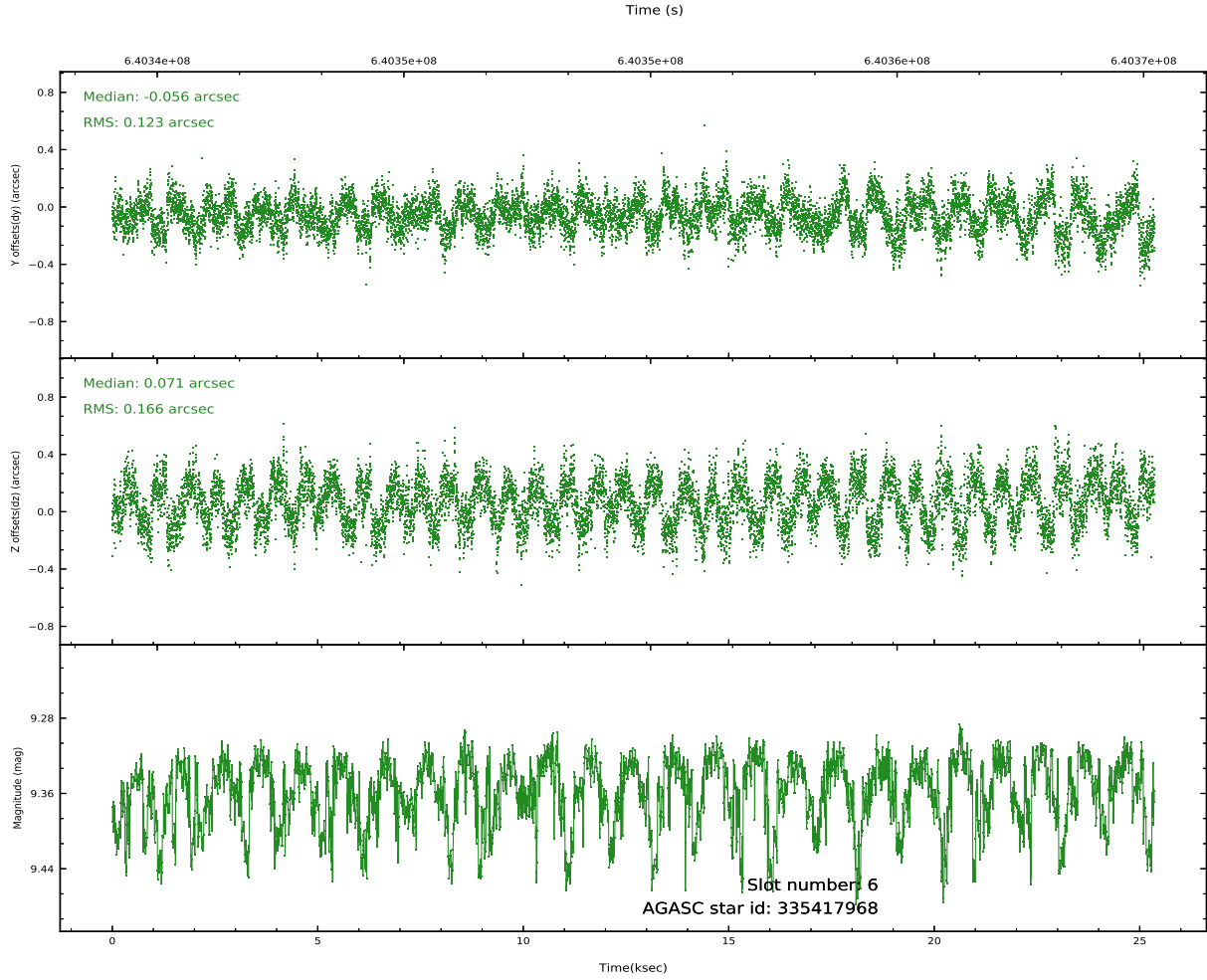
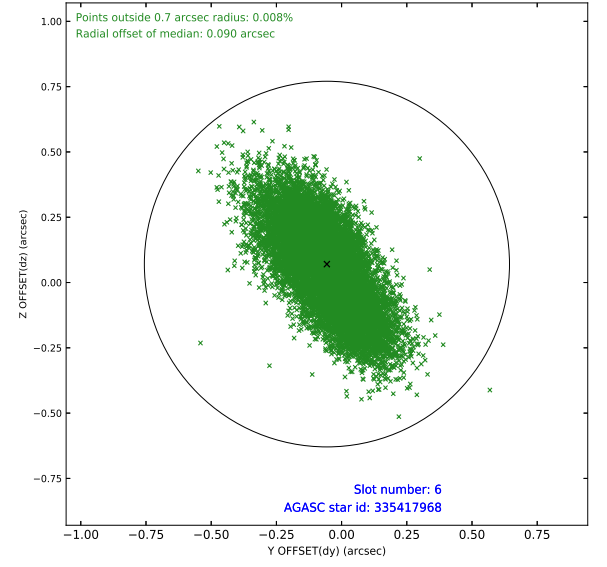
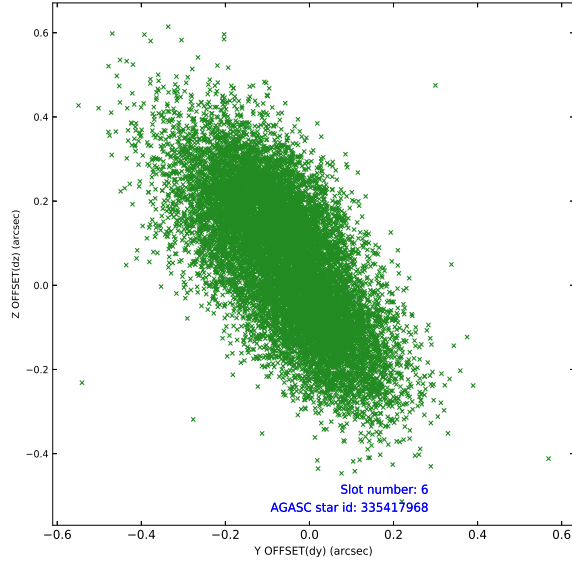
2.4.2 Slot 4



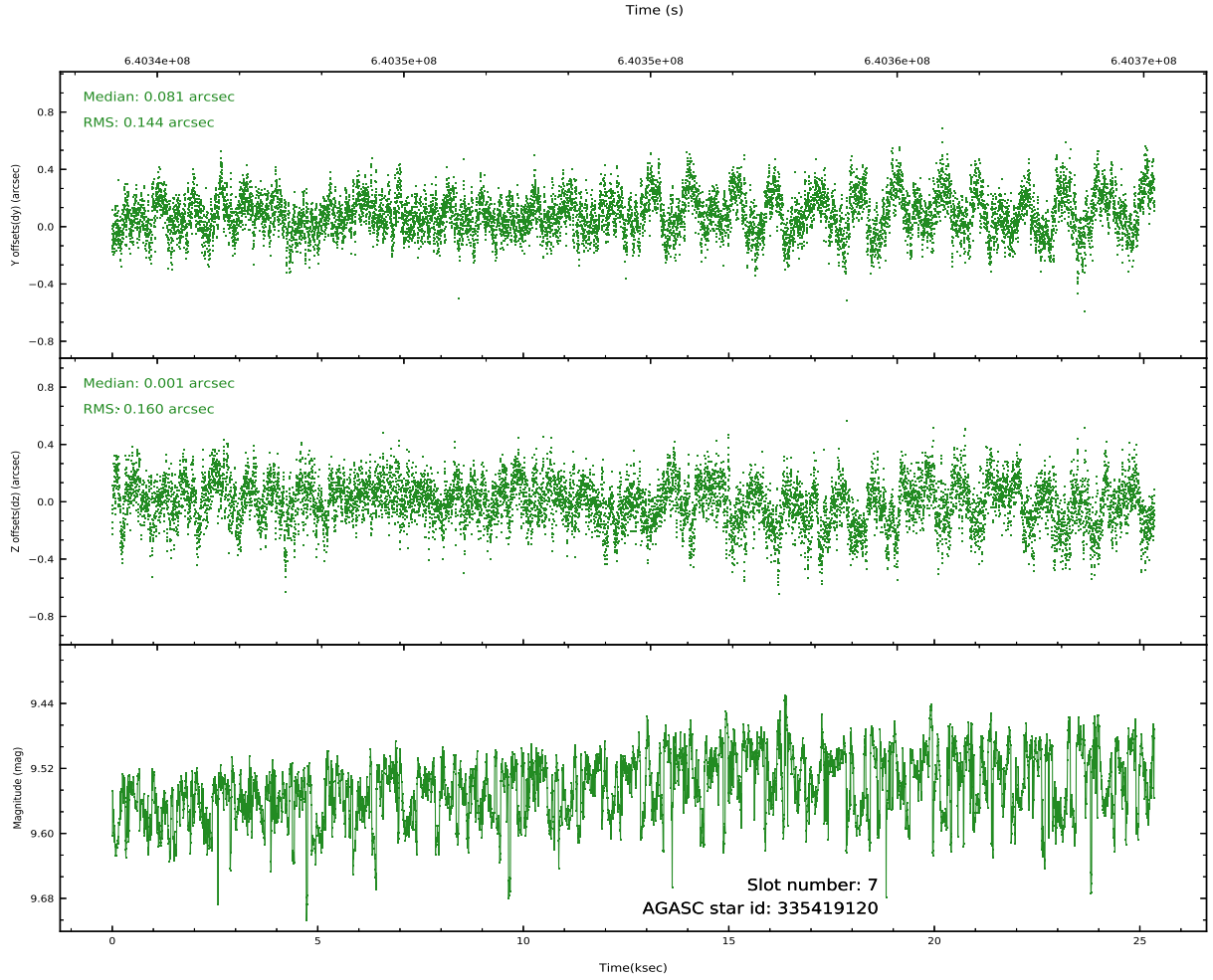
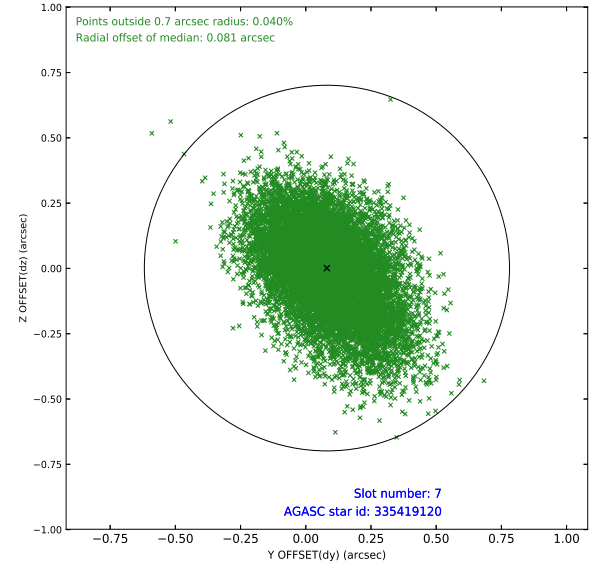
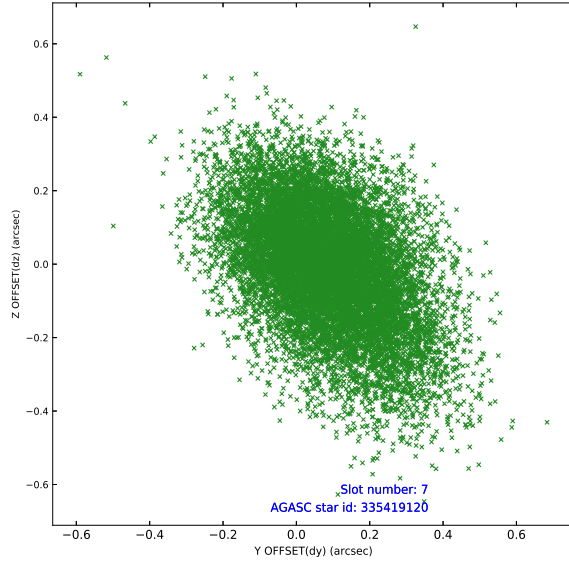
2.4.3 Slot 5



2.4.4 Slot 6

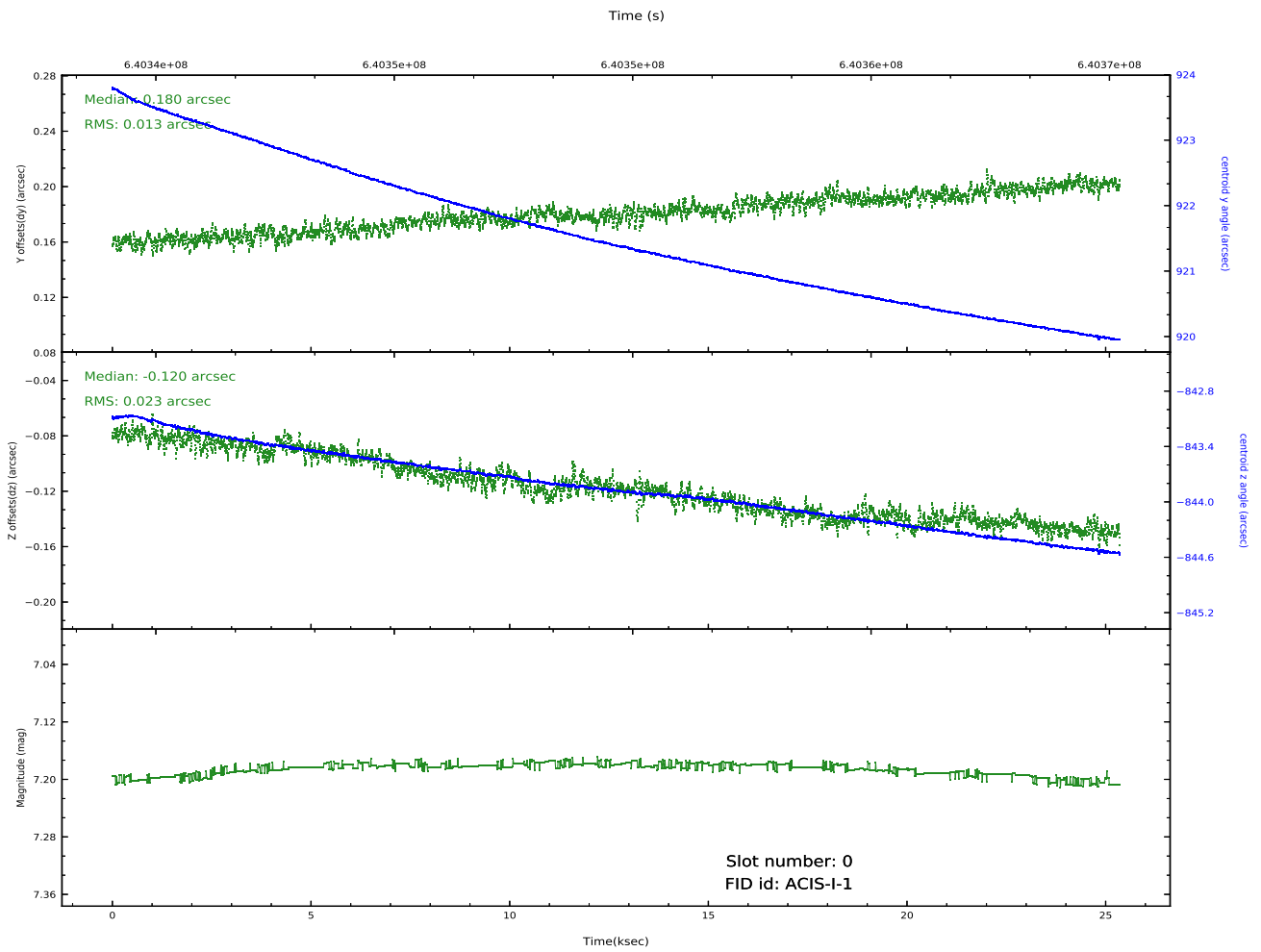
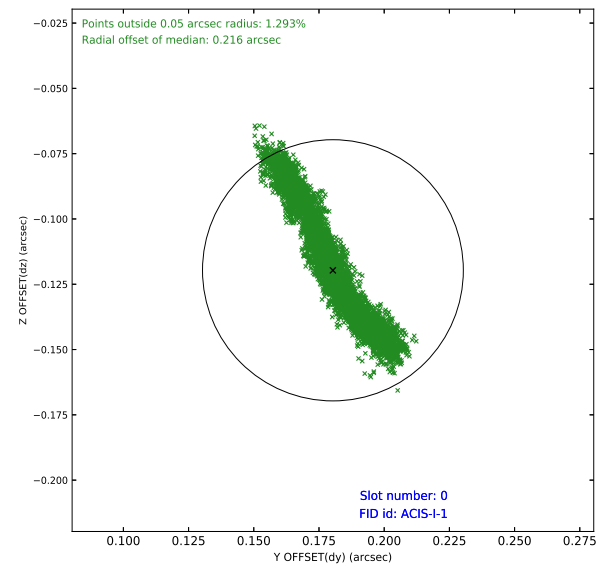
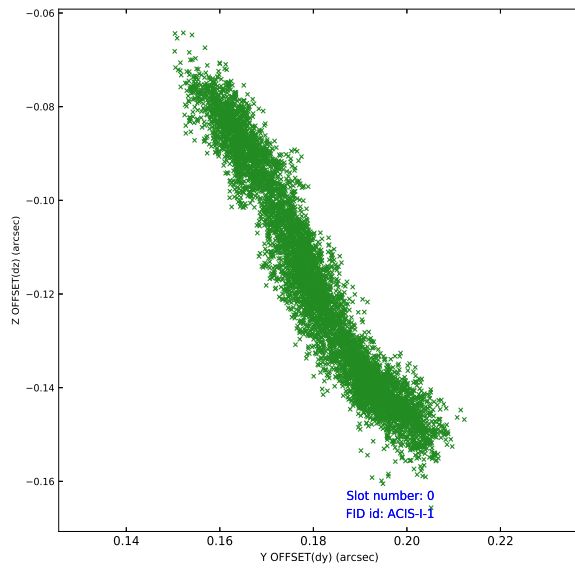


2.4.5 Slot 7

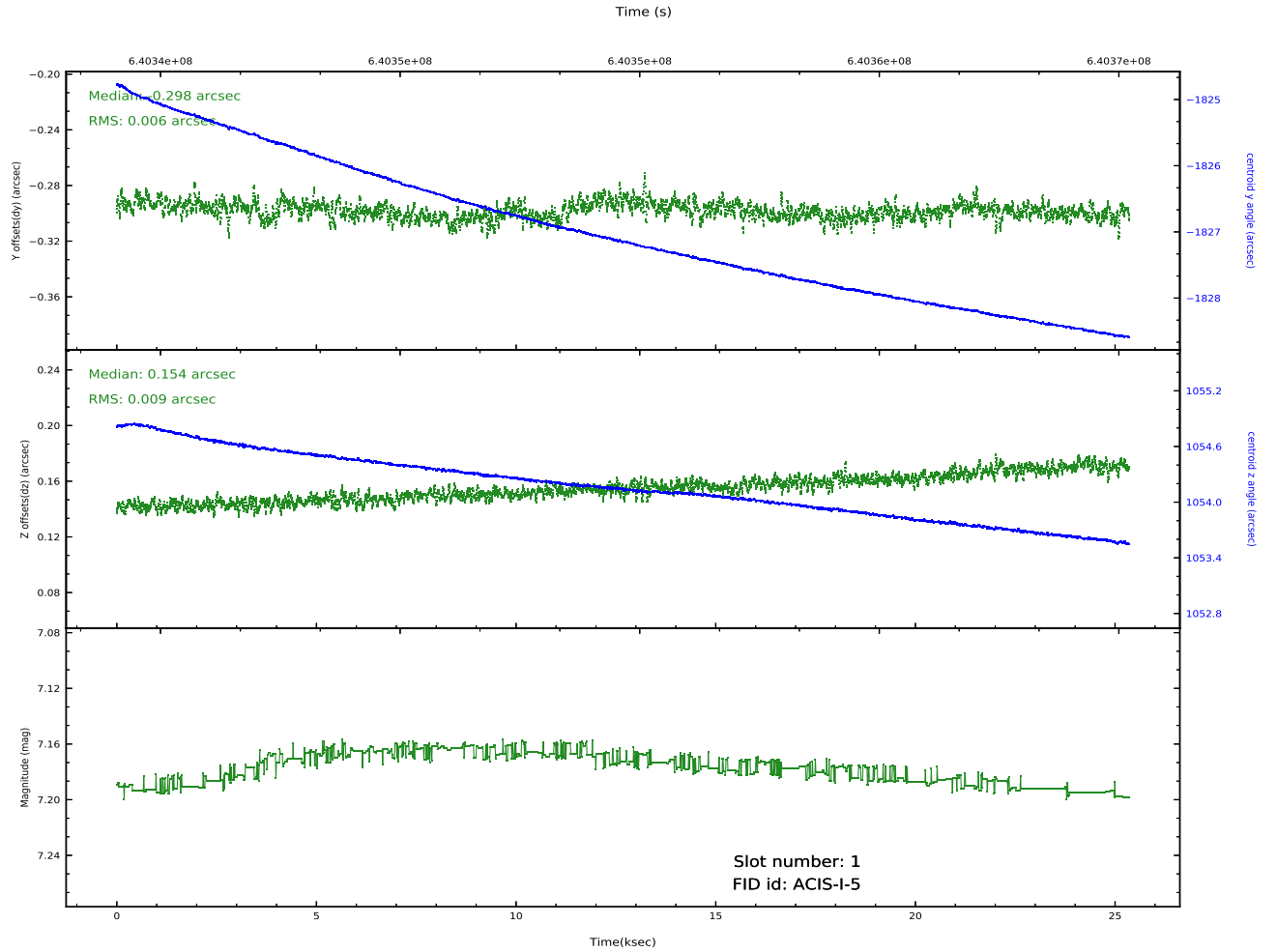
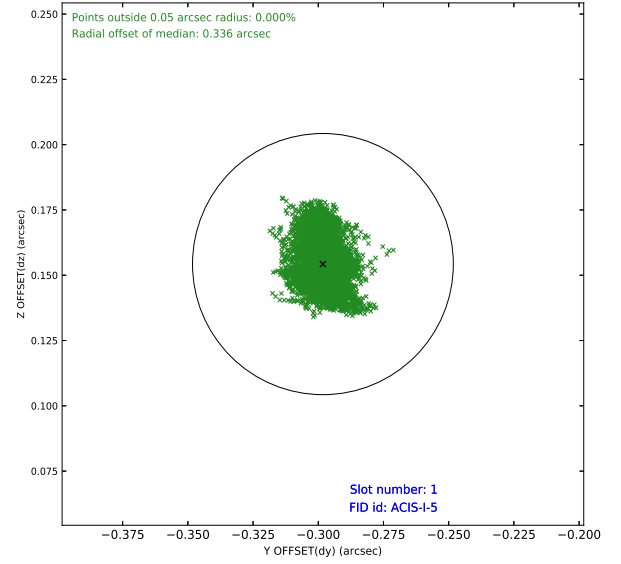
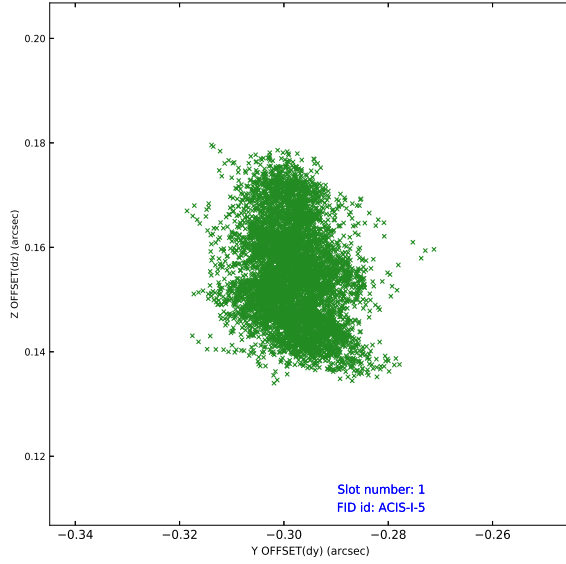


2.5 FID Slots

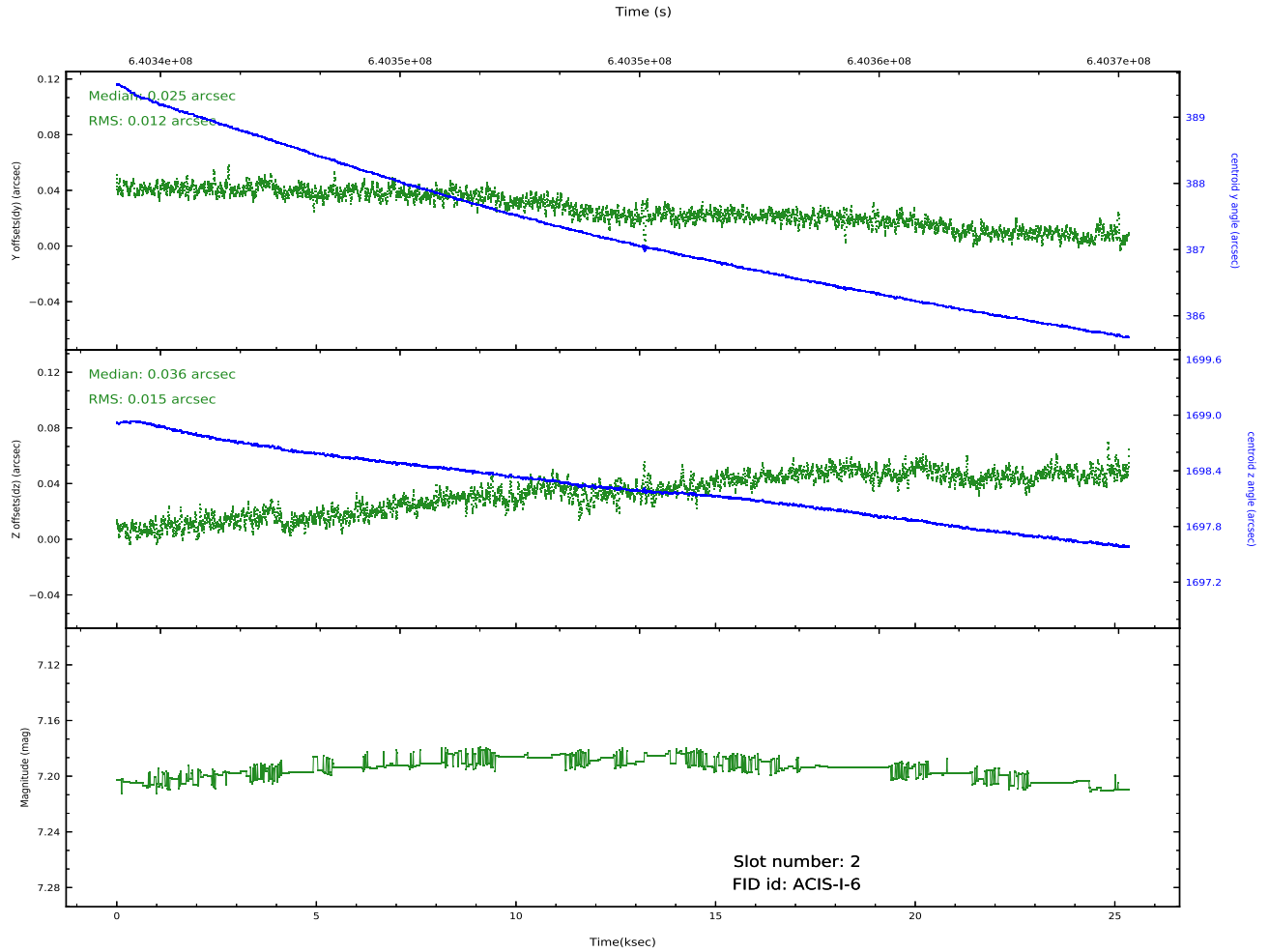
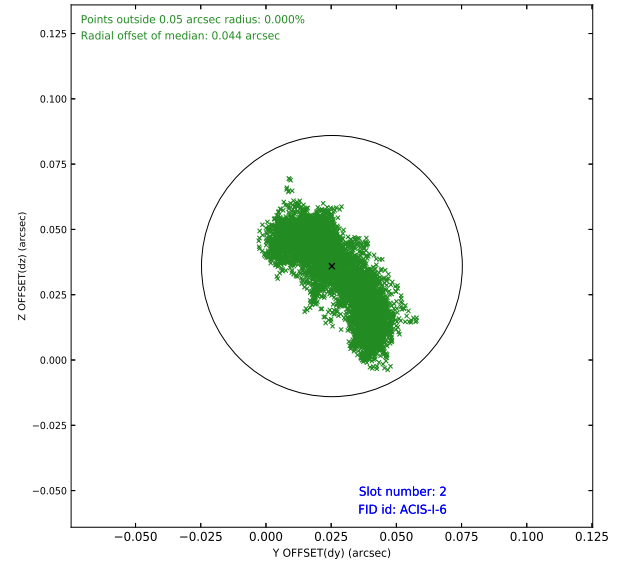
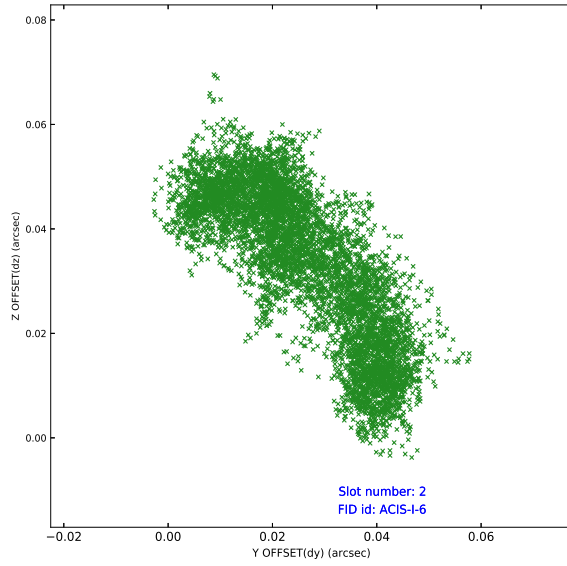
2.5.1 Slot 0



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	25.013900192499

A.2 Comments