

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 6994 - L2 Version 4  
Chandra X-Ray Center

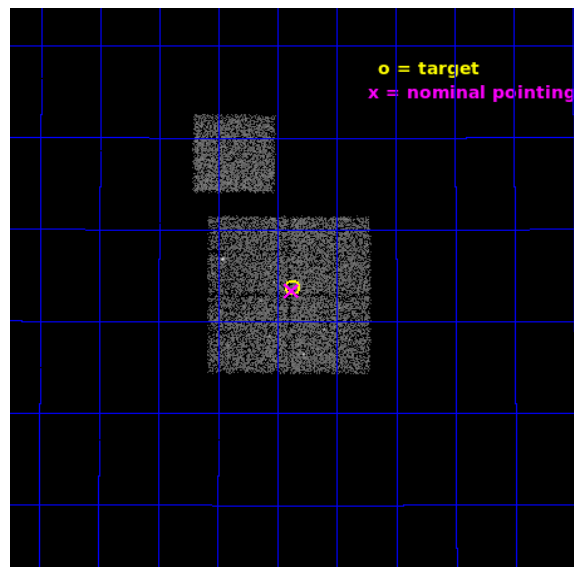
L2 Processing Date : Oct 11 2020

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# 1 Front

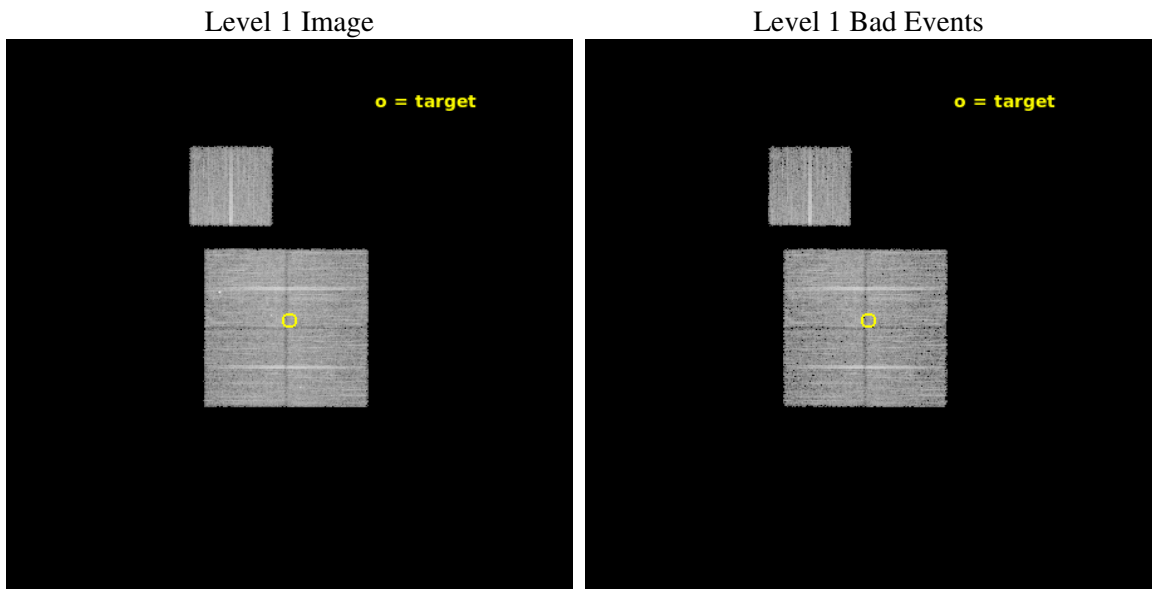
seq_num	900410	Sequence number
obs_id	6994	Observation id
title	Chandra Large Scale Survey of the NOAO Bootes Deep Field (A)	Propo
observer	Dr. Stephen Murray	Principal investigator
object	XBootes	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.841792	Observer's specified target RA [deg]
dec_targ	34.228083	Observer's specified target Dec [deg]
ra_nom	217.84447368505	Nominal RA [deg]
dec_nom	34.222755161384	Nominal Dec [deg]
roll_nom	0.20256539097169	Nominal Roll [deg]
revision	4	Processing version of data
ontime	10050.199980646	Sum of GTIs [s]
livetime	9918.8867190496	Livetime [s]
ontime0	10043.918020248	Sum of GTIs [s]
ontime1	10050.199980646	Sum of GTIs [s]
ontime2	10050.199980646	Sum of GTIs [s]
ontime3	10050.199980646	Sum of GTIs [s]
ontime6	10050.199980646	Sum of GTIs [s]
l2events	25356	Number of level 2 events



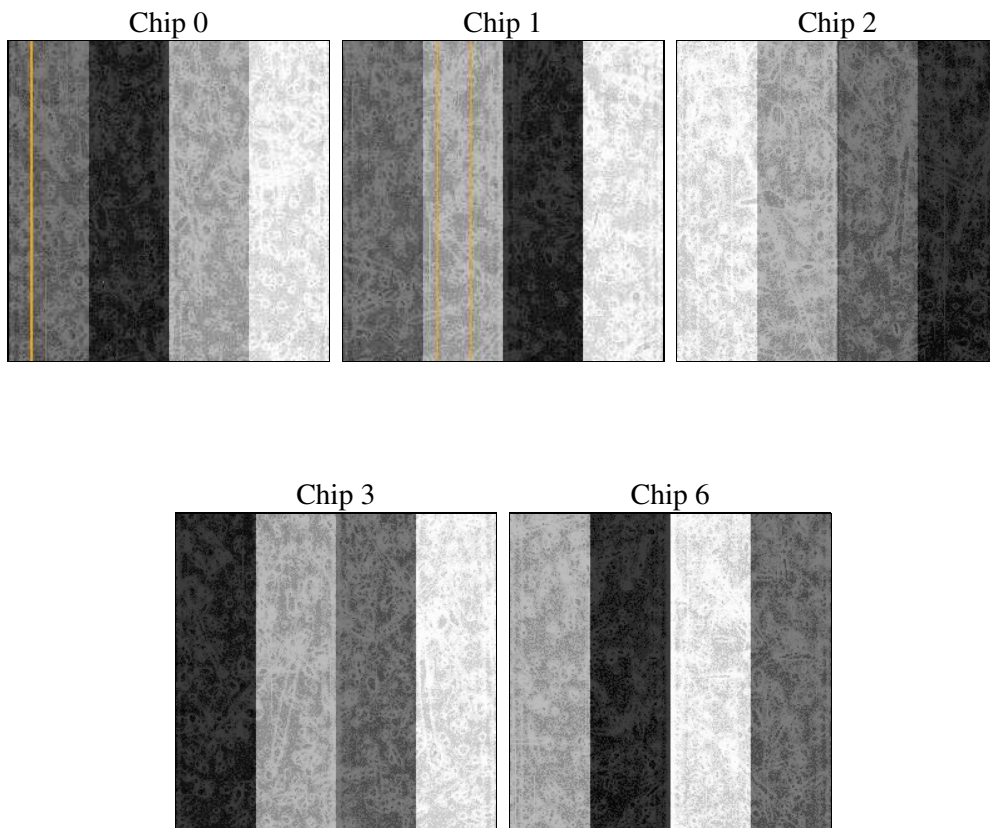
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	10050.199980646	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime0	10043.918020248	Sum of GTIs [s]
date	2020-10-11T13:34:37	Date and time of file creation	ontime1	10050.199980646	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	10050.199980646	Sum of GTIs [s]
			ontime3	10050.199980646	Sum of GTIs [s]
			ontime6	10050.199980646	Sum of GTIs [s]
			l1events	314040	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	57598	59373	71324	62489	63256
rejected events	51527	52842	64851	56902	56822
rejected %	89%	89%	90%	91%	89%

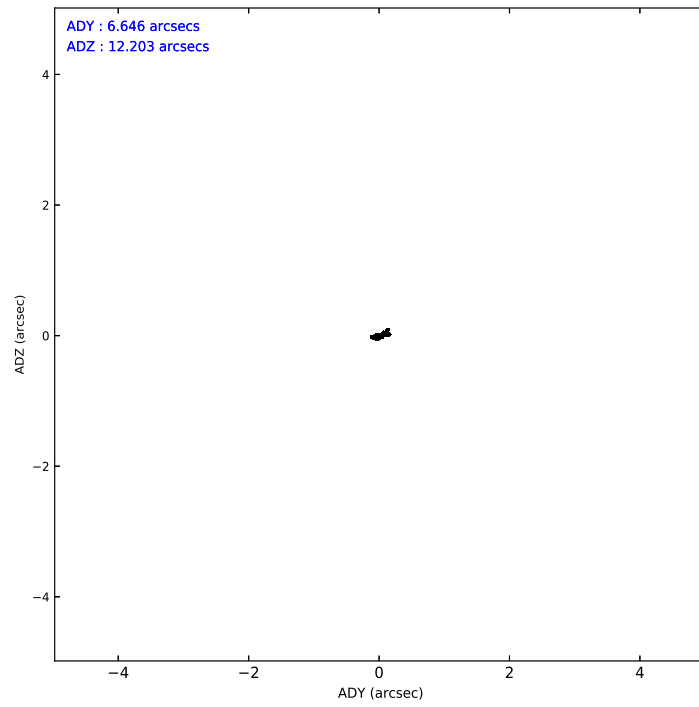
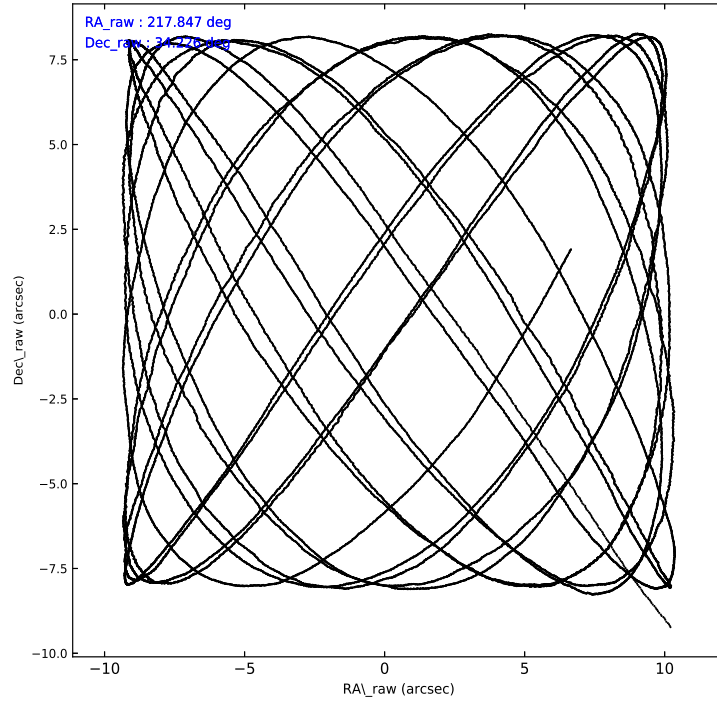
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2175	2304	2703	2027	2365
	3%	3%	3%	3%	3%
grade 1 events	28	25	34	41	26
	0%	0%	0%	0%	0%
grade 2 events	1430	1415	1456	1207	1345
	2%	2%	2%	1%	2%
grade 3 events	685	807	643	640	682
	1%	1%	0%	1%	1%
grade 4 events	690	756	668	645	727
	1%	1%	0%	1%	1%
grade 5 events	1728	2016	1679	2199	2054
	3%	3%	2%	3%	3%
grade 6 events	1091	1252	1004	1071	1315
	1%	2%	1%	1%	2%
grade 7 events	49771	50798	63137	54659	54742
	86%	85%	88%	87%	86%

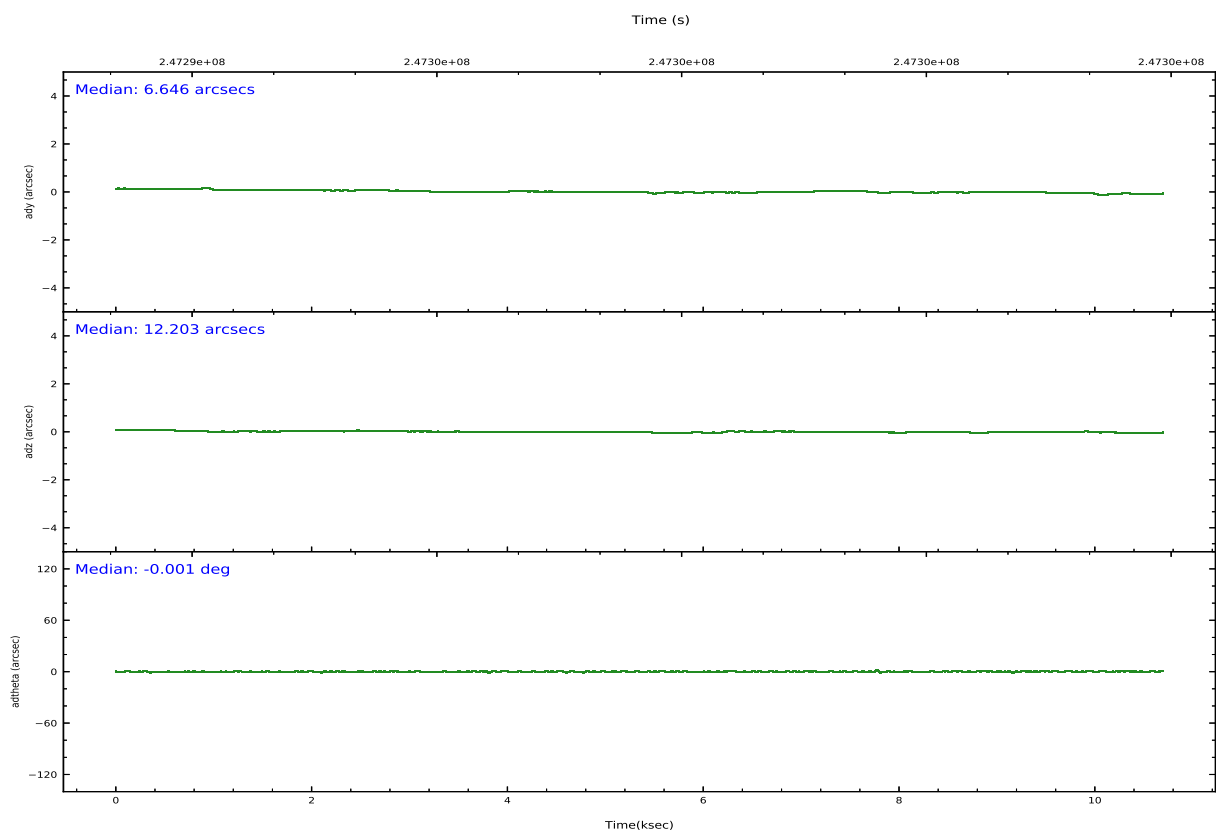
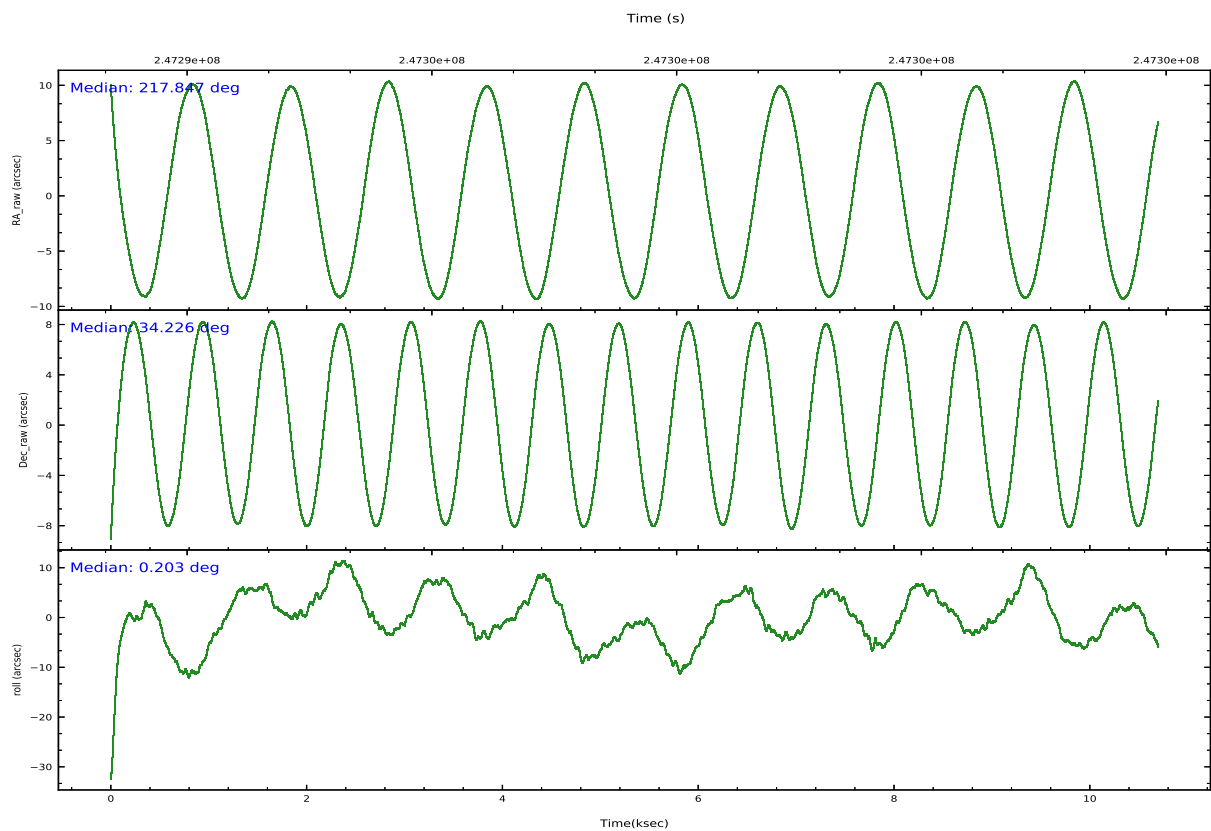


## 2.2 Compared Parameters

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	217.818426	217.84447368505	Subarray requested	NONE	NONE
[deg] Pointing Dec	34.212421	34.222755161384	Alternating exposures requested	N	N
[deg] Pointing Roll	0.013144	0.20256539097169	[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	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	247292418.184000	247291233.5145			
Observation start date	2005-11-02T04:19:14	2005-11-02T04:00:33			
[s] Observation end time (MET)	247302418.184000	247303487.39007			
Observation end date	2005-11-02T07:05:54	2005-11-02T07:24:47			
Read mode	TIMED	TIMED			

## 2.3 Aspect



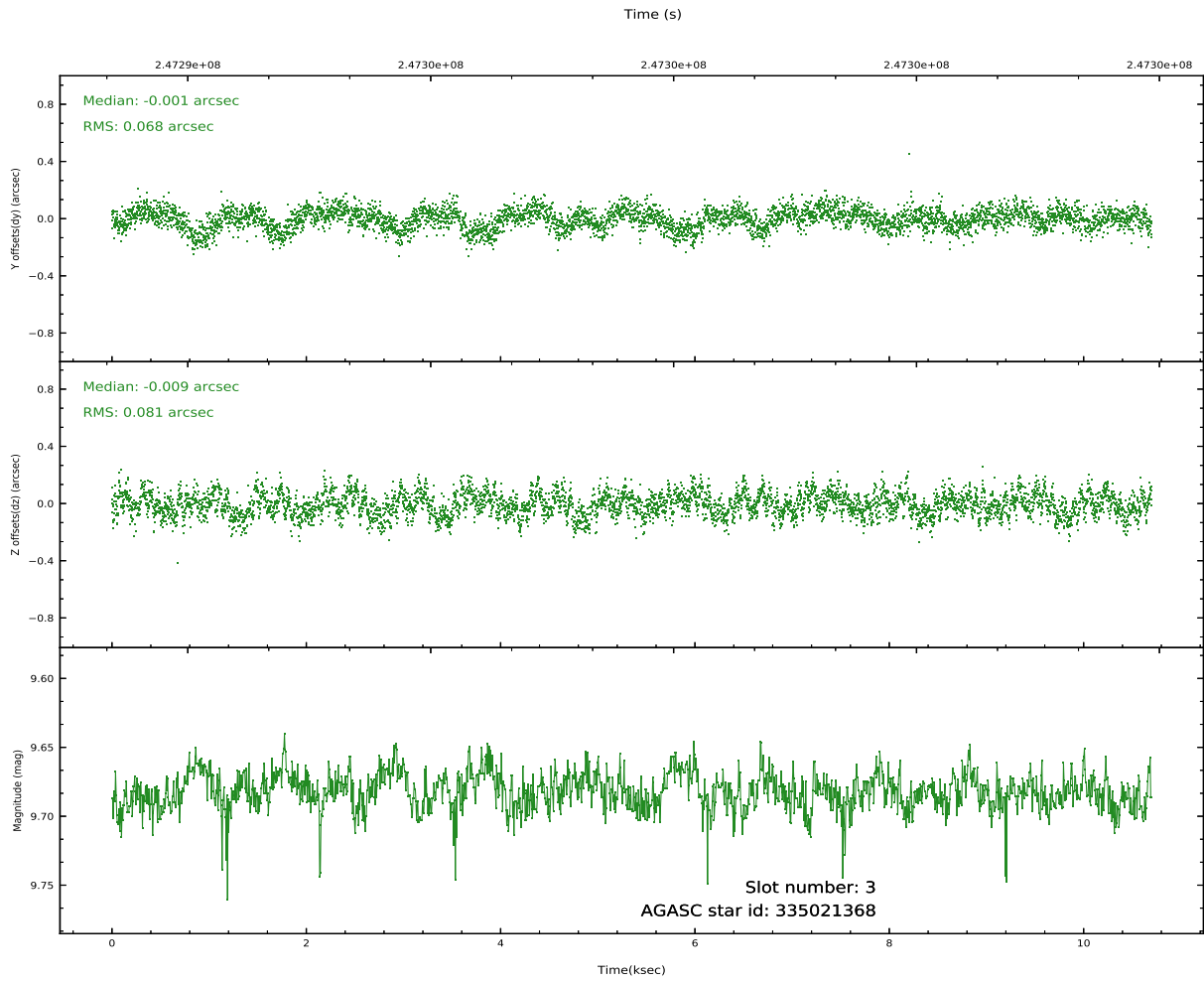
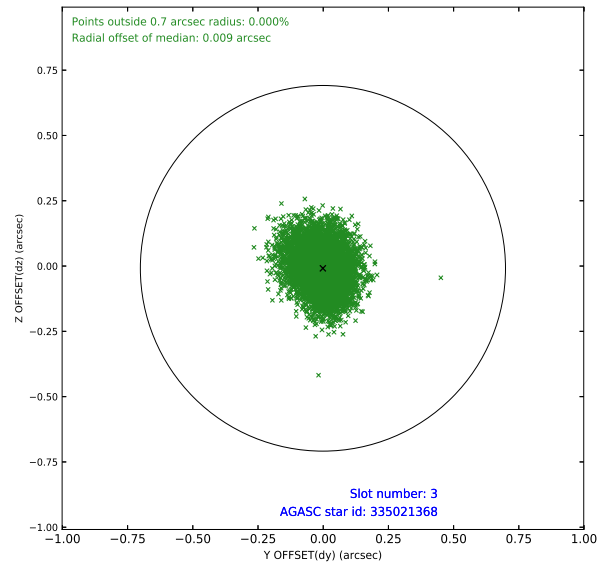
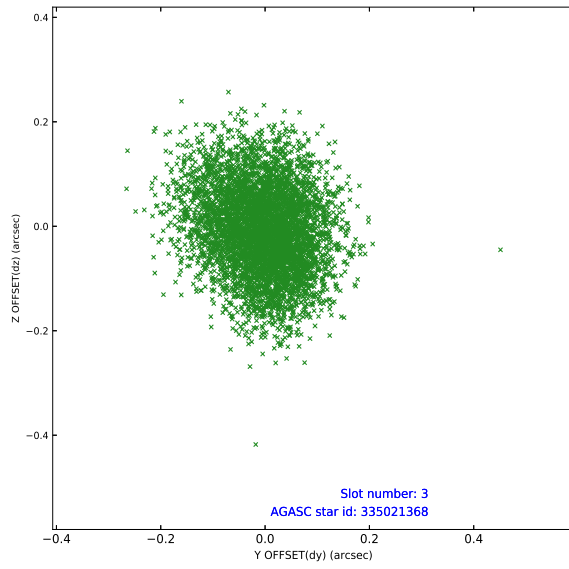


Slot Statistics

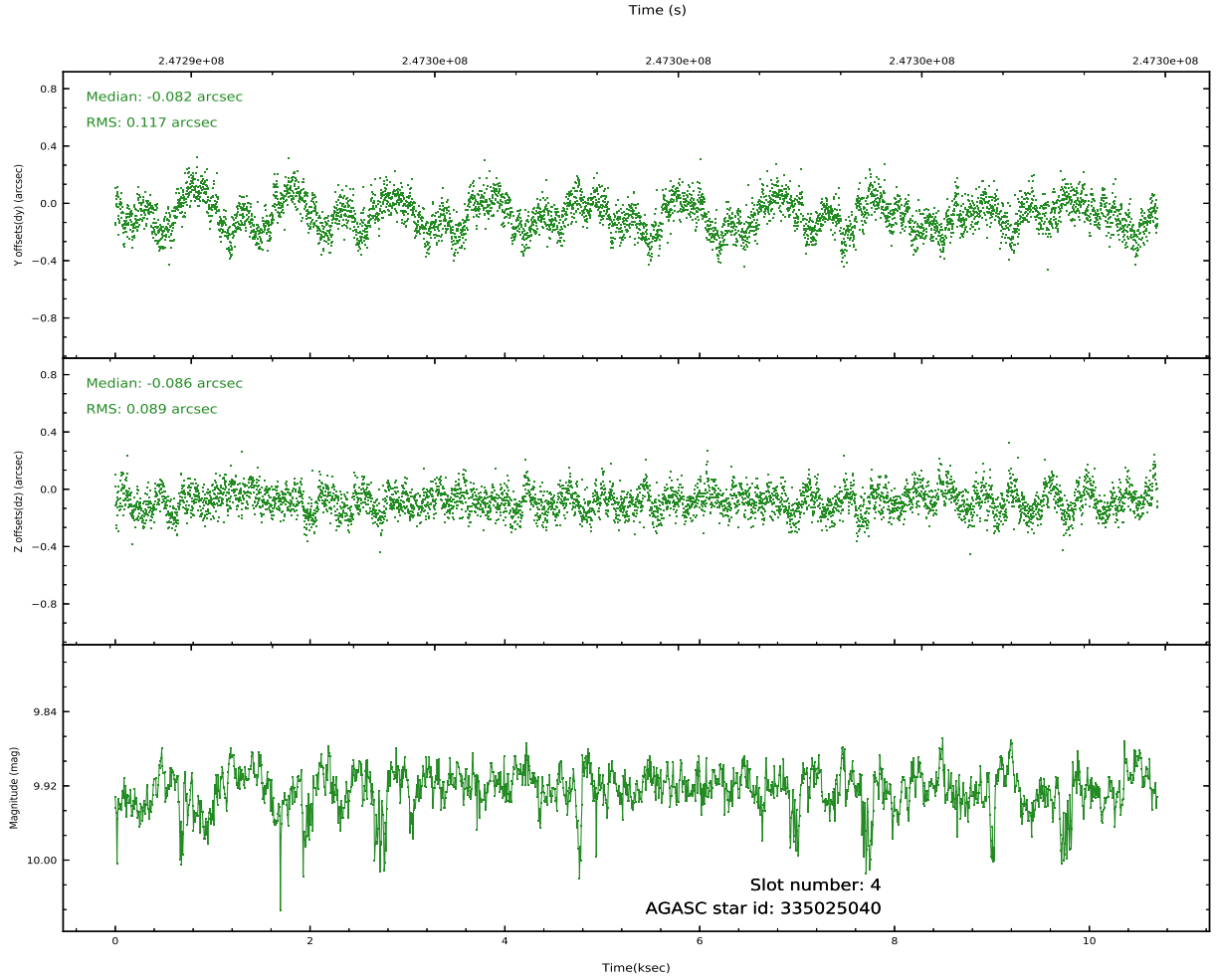
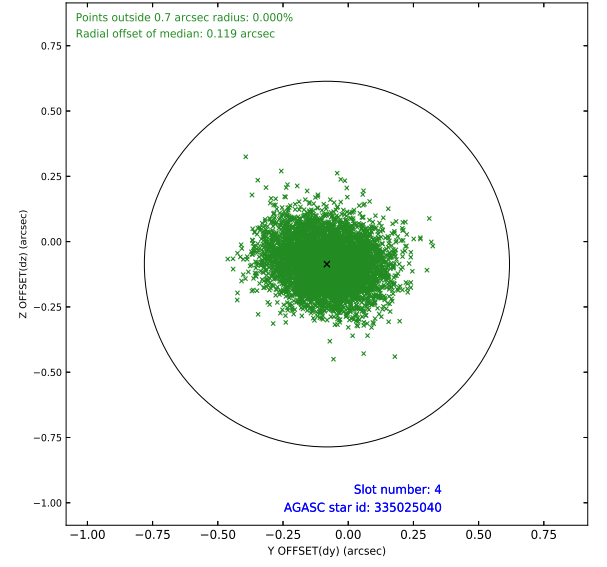
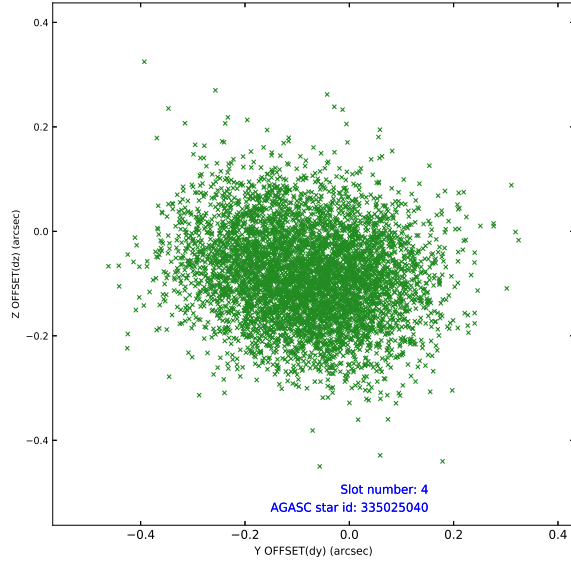
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	2610	1.000	0.055	-0.030	0.007	0.012	0.000000	0.000000	933.07	-835
1	FID		ACIS-I-5	7.22	2610	1.000	-0.197	0.062	0.006	0.010	0.000000	0.000000	-1814.99	1061
2	FID		ACIS-I-6	7.25	2610	1.000	0.051	0.039	0.007	0.012	0.000000	0.000000	398.13	1706
3	GUIDE	used	335021368	9.68	5213	1.000	-0.001	-0.009	0.114	0.183	217.529643	33.934817	-862.25	-997
4	GUIDE	used	335025040	9.92	5215	1.000	-0.082	-0.086	0.157	0.253	218.601670	34.305240	2329.63	342
5	GUIDE	used	335025848	9.73	5209	1.000	0.107	0.133	0.124	0.195	217.530531	33.778292	-860.62	-1561
6	GUIDE	used	335028336	9.46	5183	1.000	-0.026	-0.006	0.108	0.183	217.189840	34.665629	-1860.37	1637
7	GUIDE	used	335028696	9.14	5210	1.000	0.003	-0.034	0.088	0.140	217.260519	33.844112	-1668.44	-1320

## 2.4 Star Slots

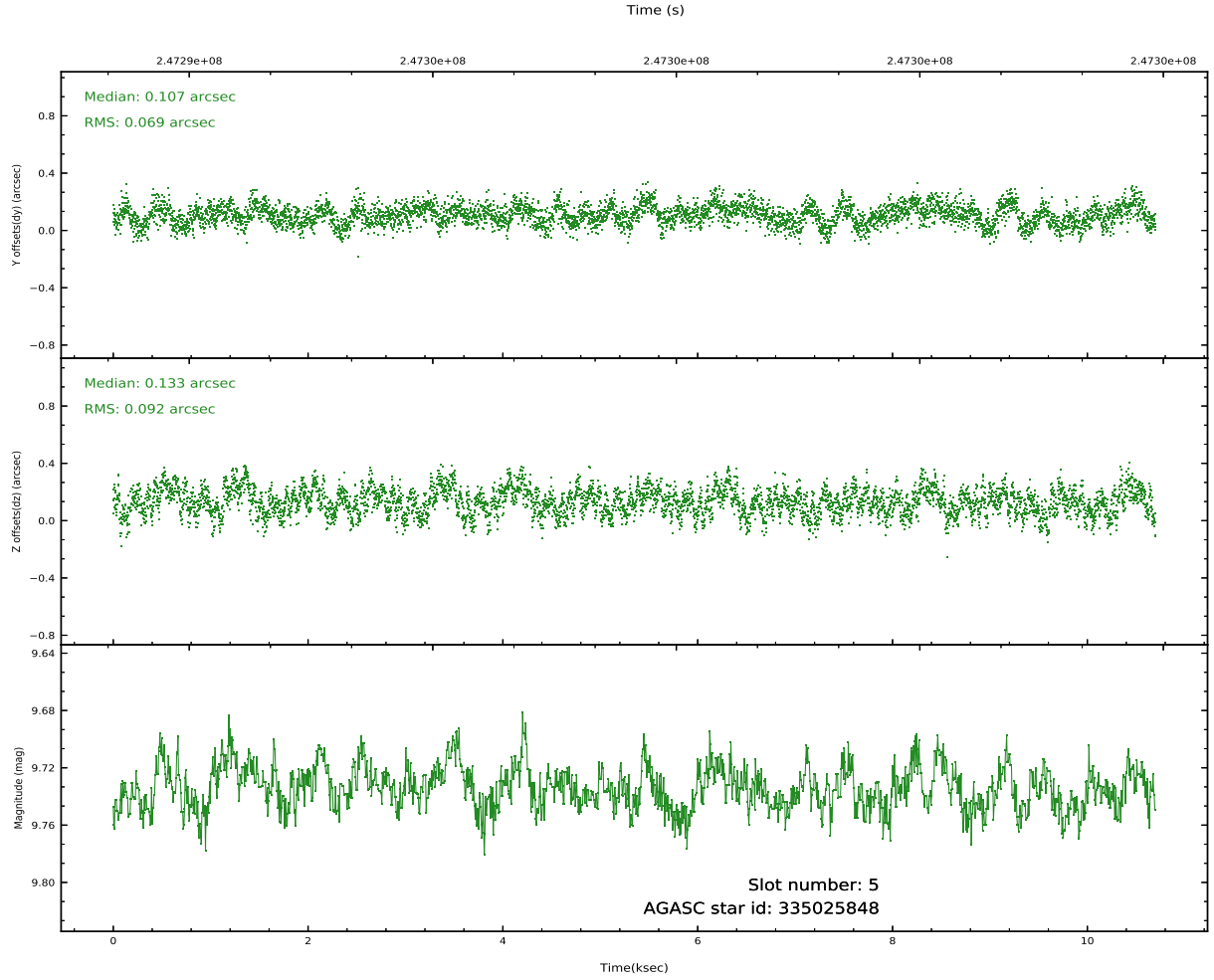
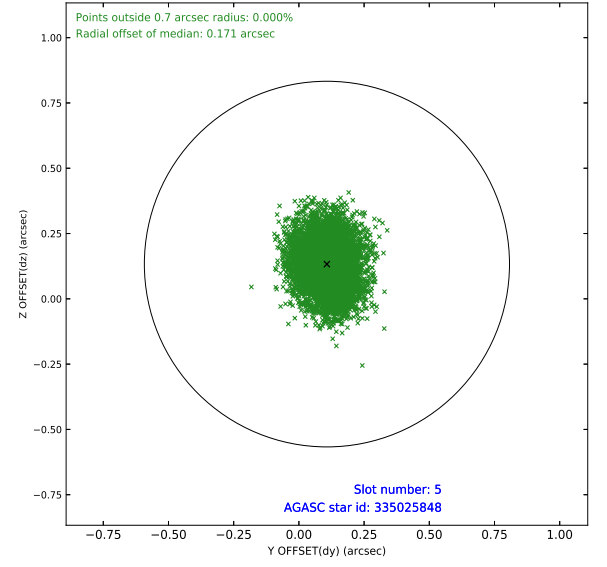
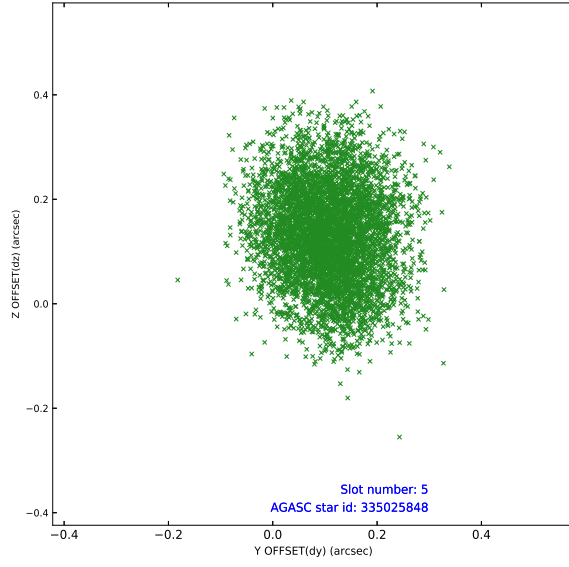
### 2.4.1 Slot 3



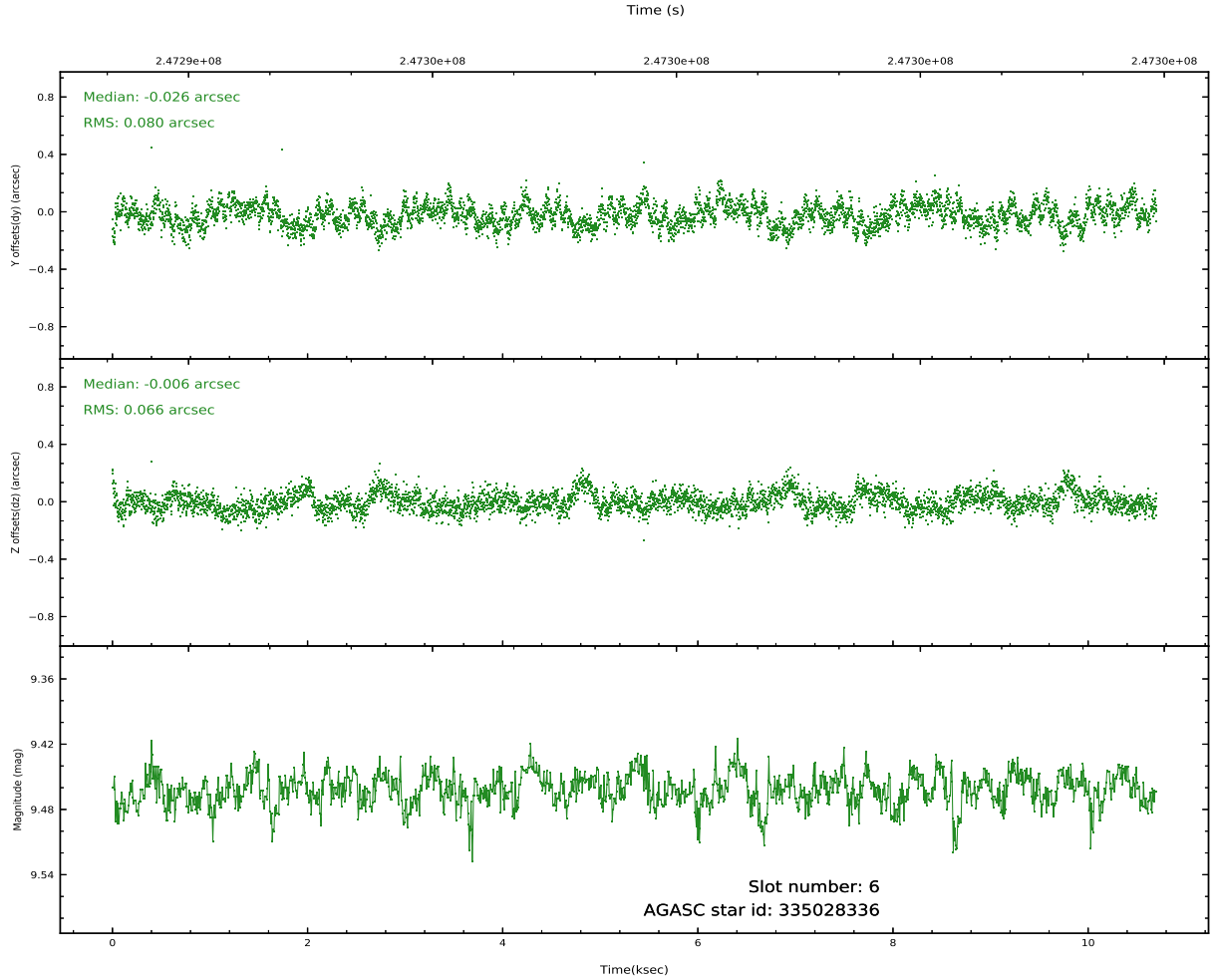
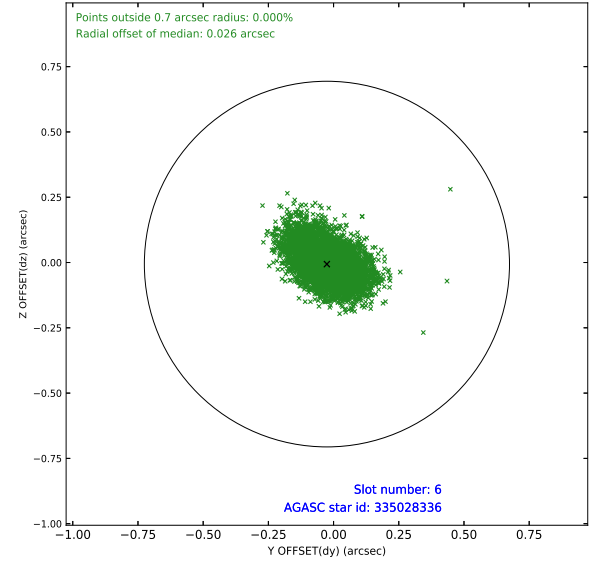
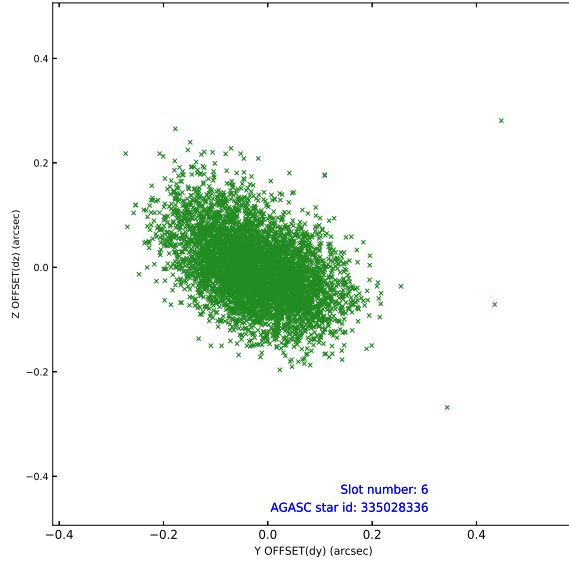
## 2.4.2 Slot 4



### 2.4.3 Slot 5

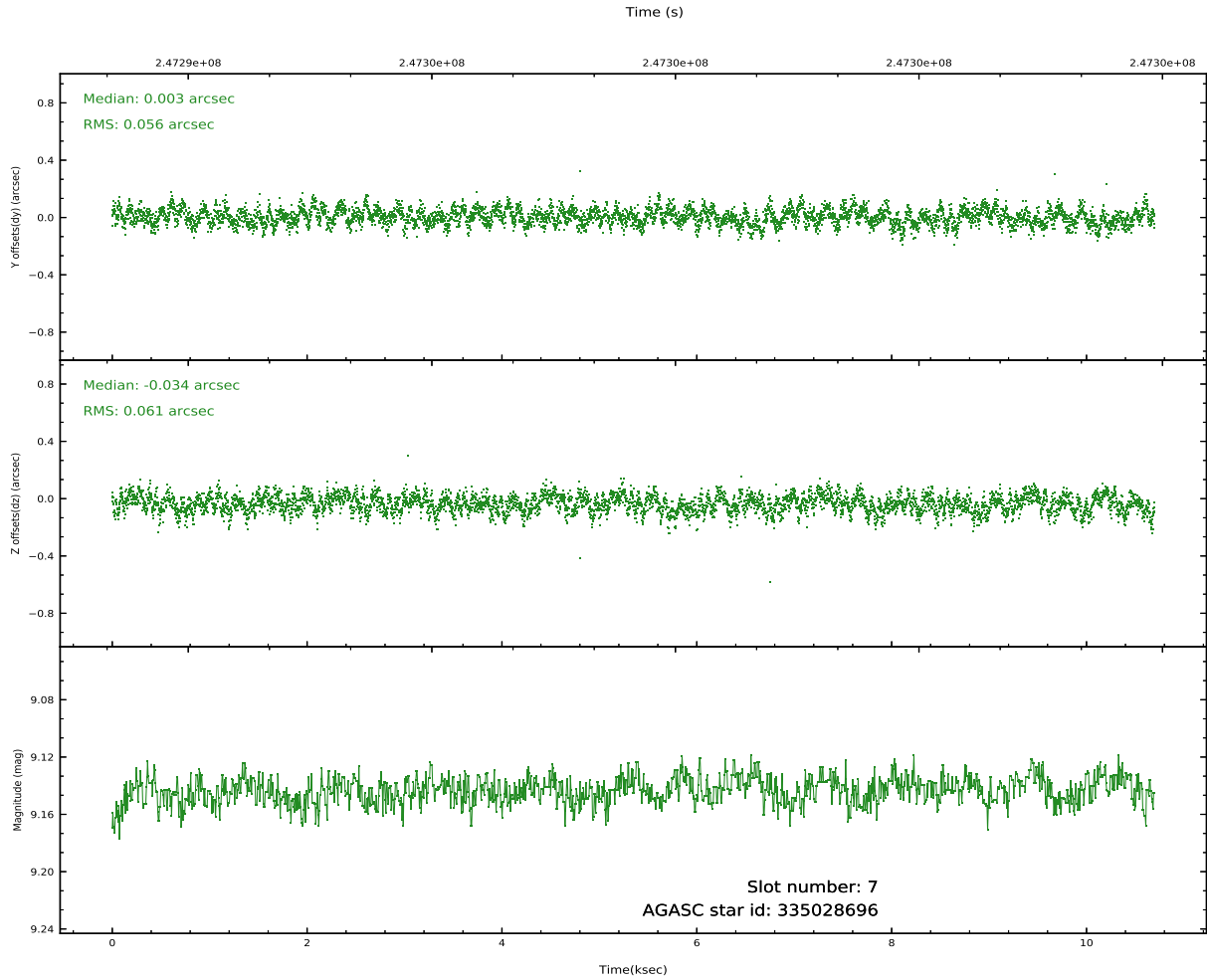
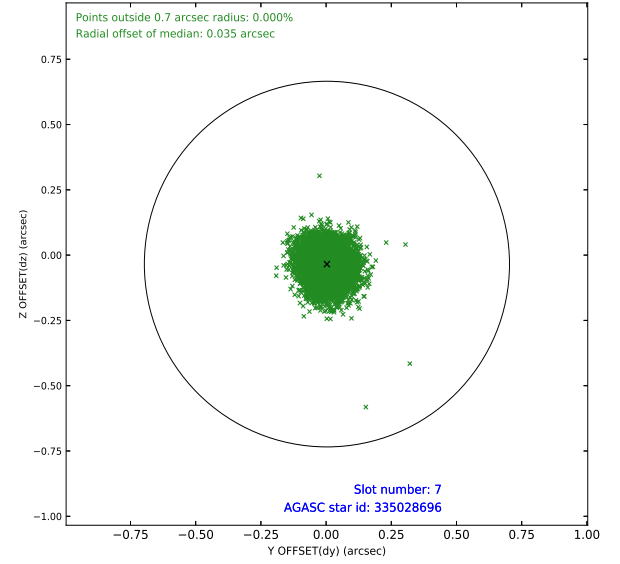
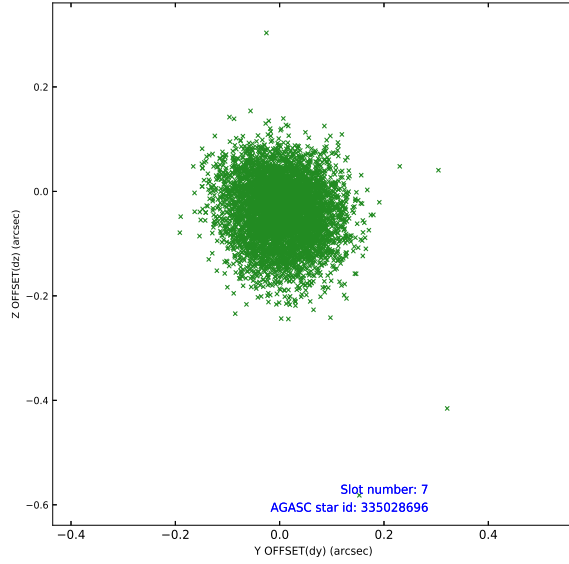


## 2.4.4 Slot 6



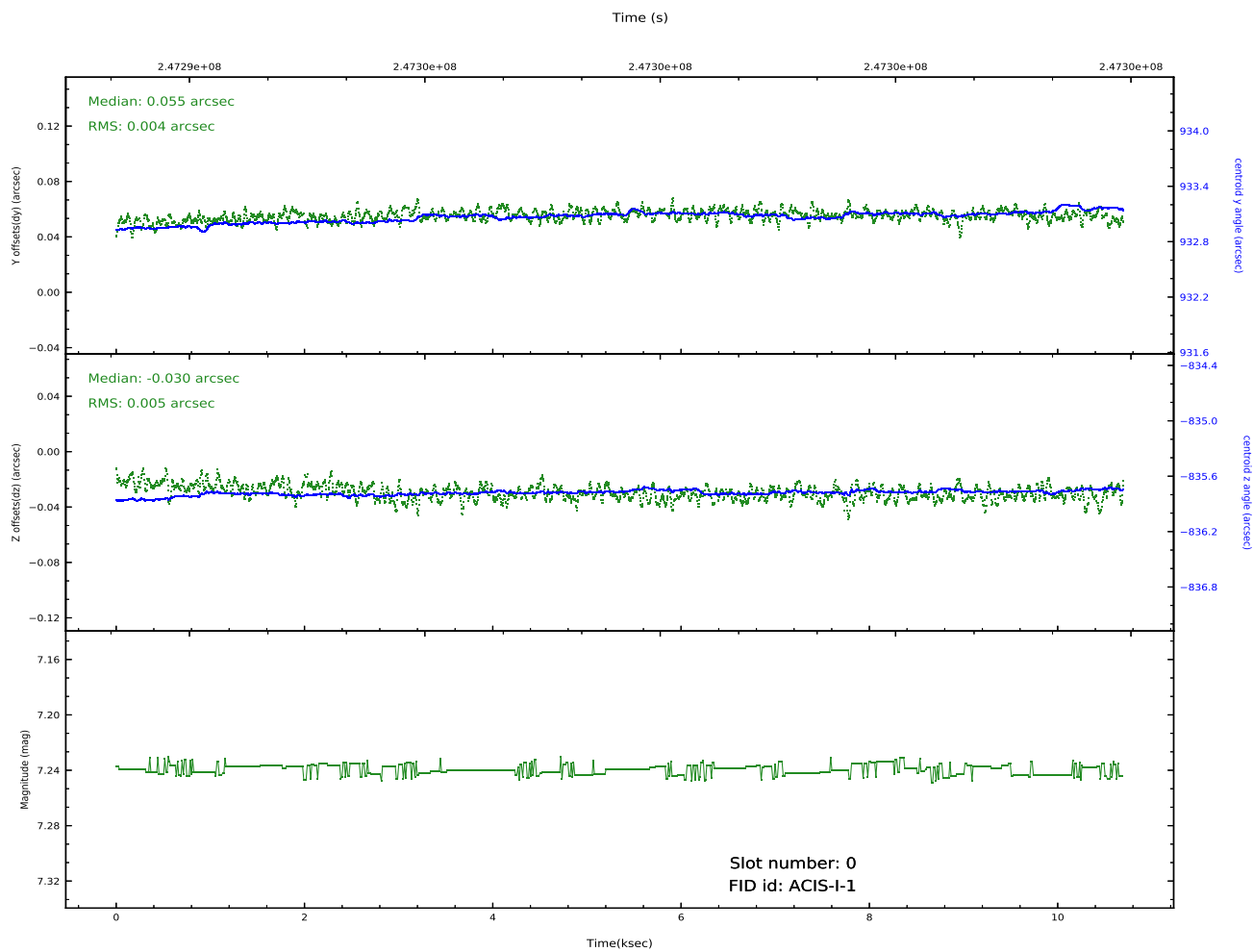
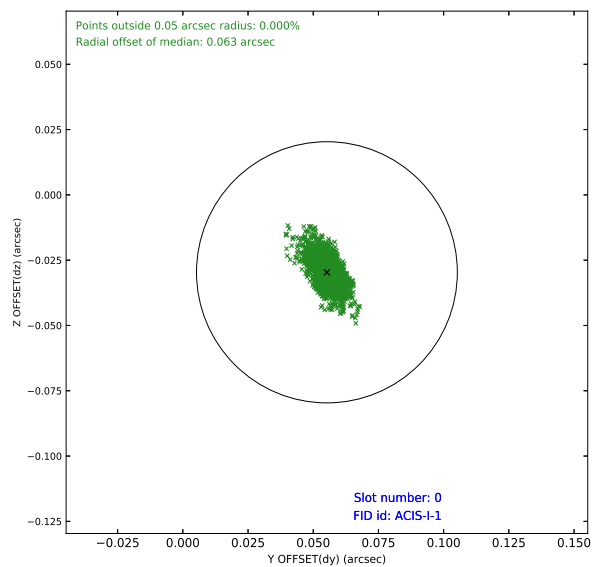
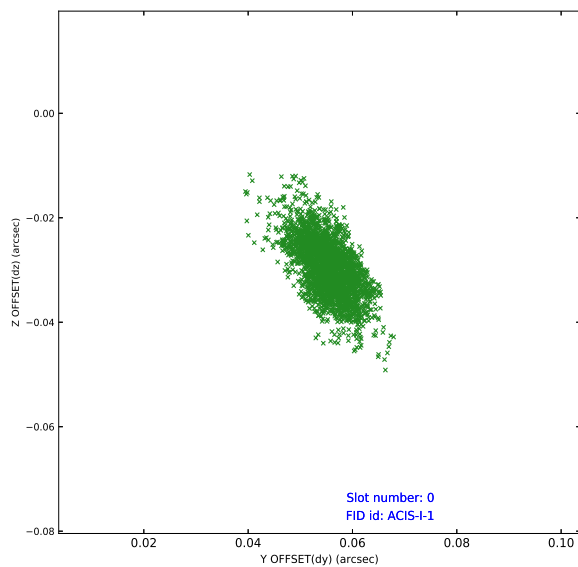


## 2.4.5 Slot 7

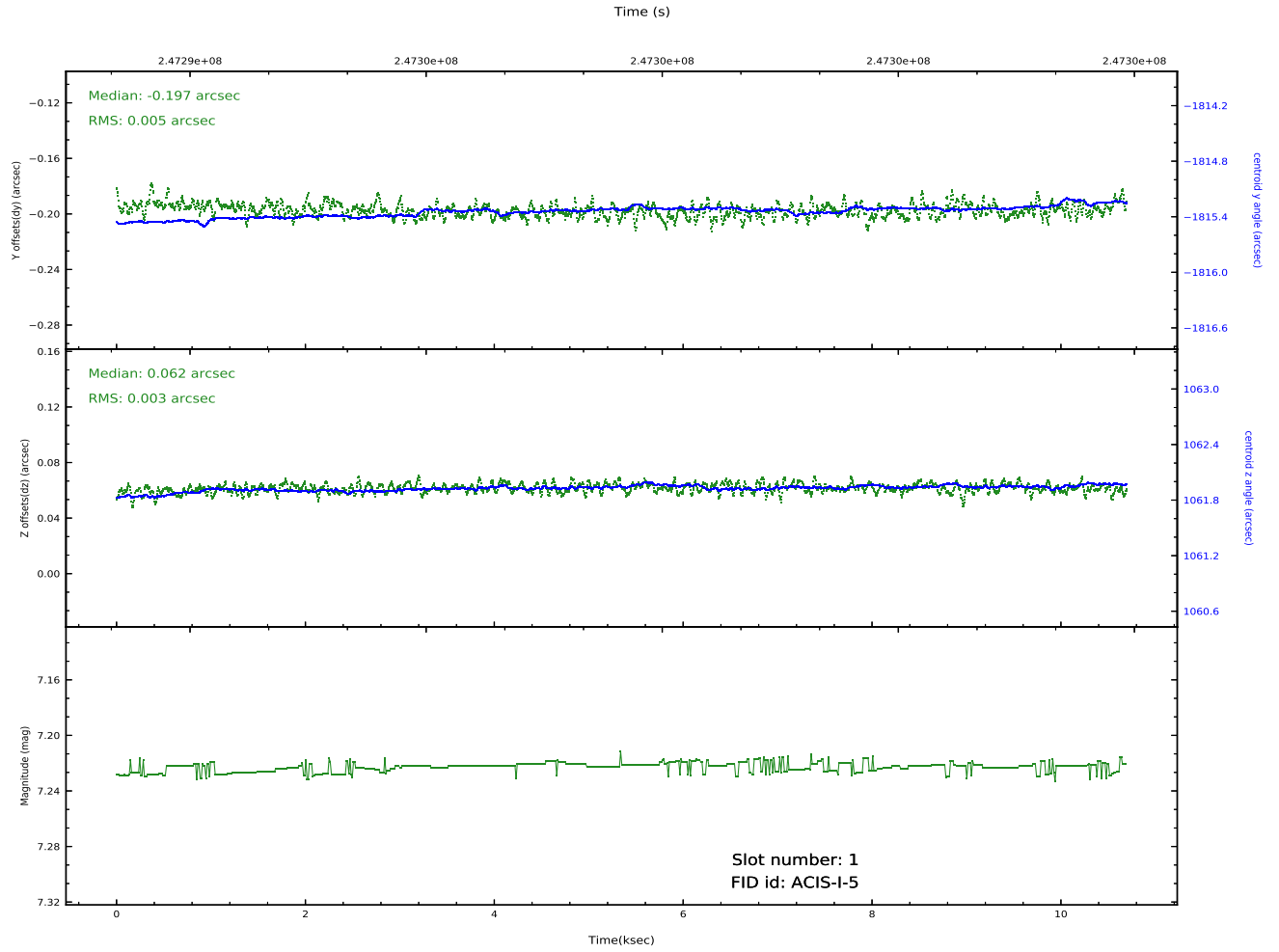
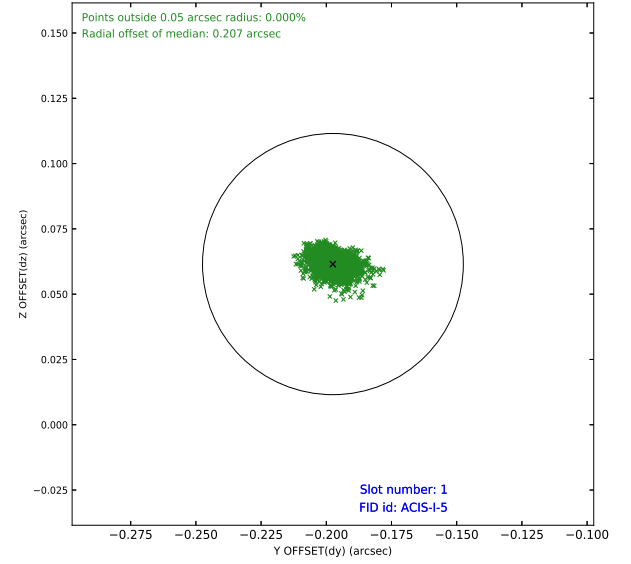
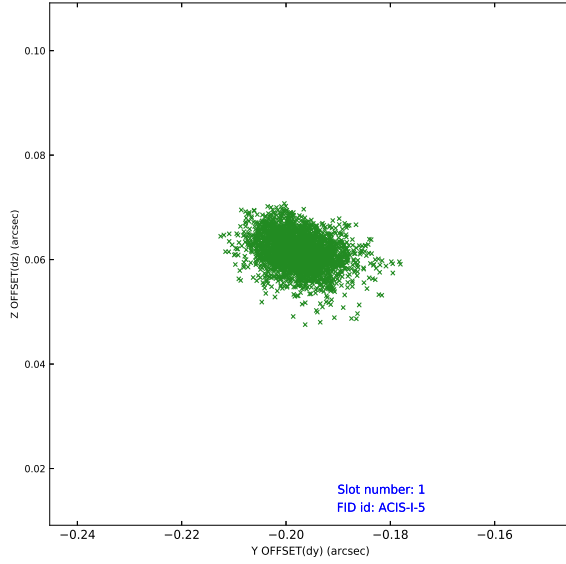


## 2.5 FID Slots

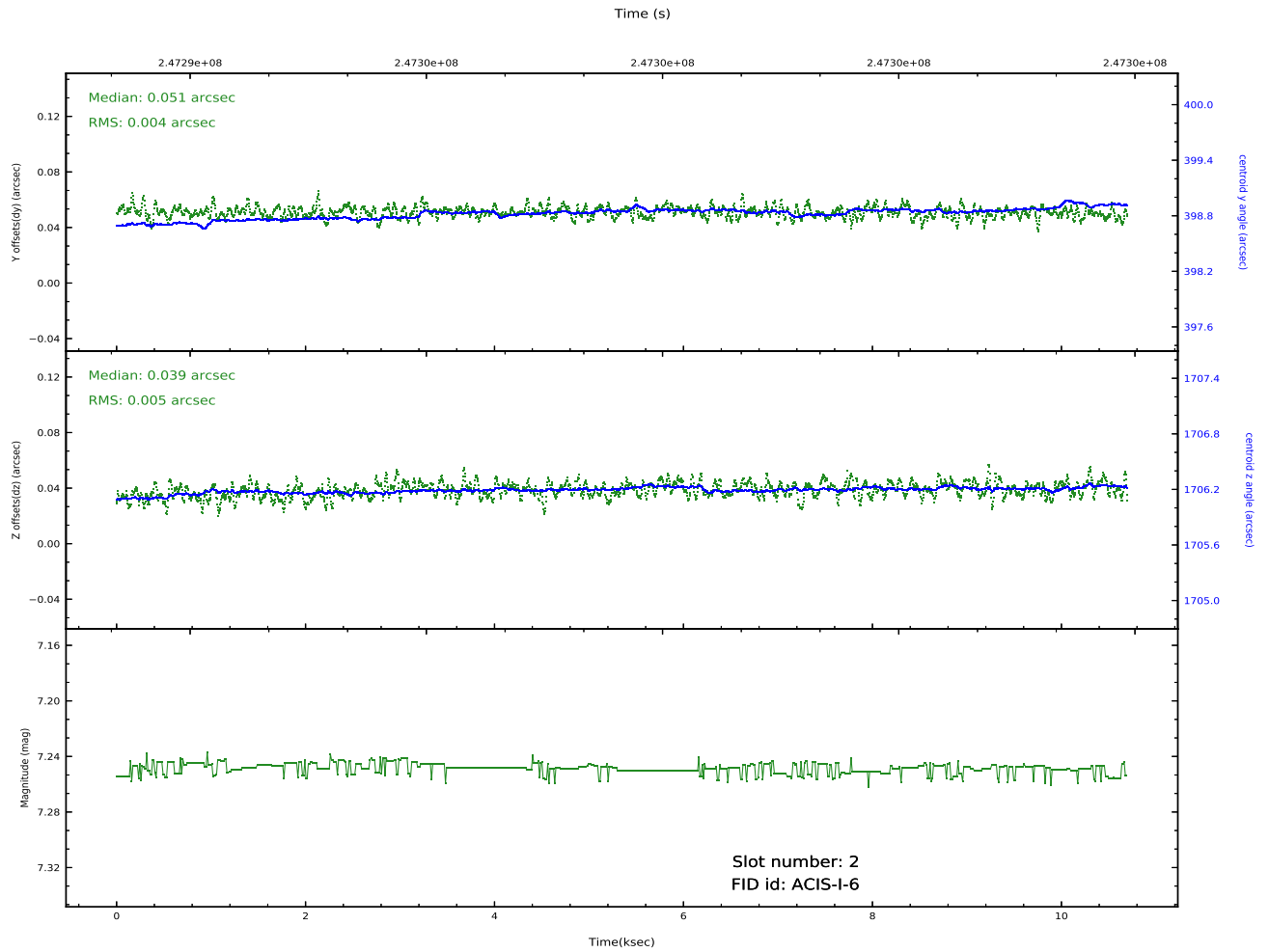
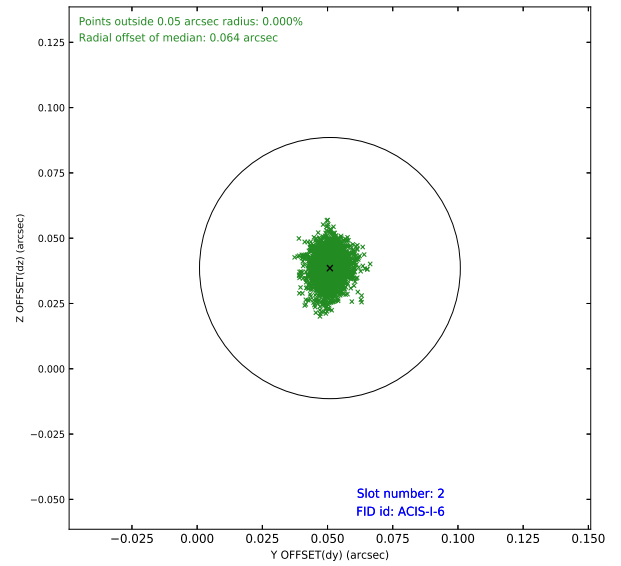
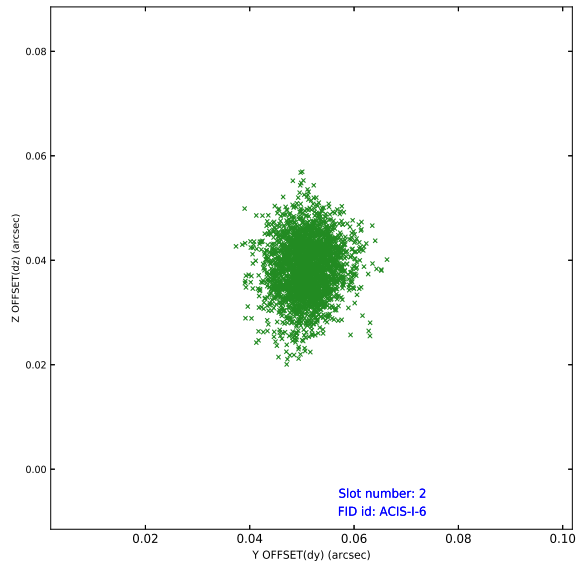
### 2.5.1 Slot 0



## 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	10.05019

### **A.2 Comments**