

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5776 - L2 Version 4  
Chandra X-Ray Center

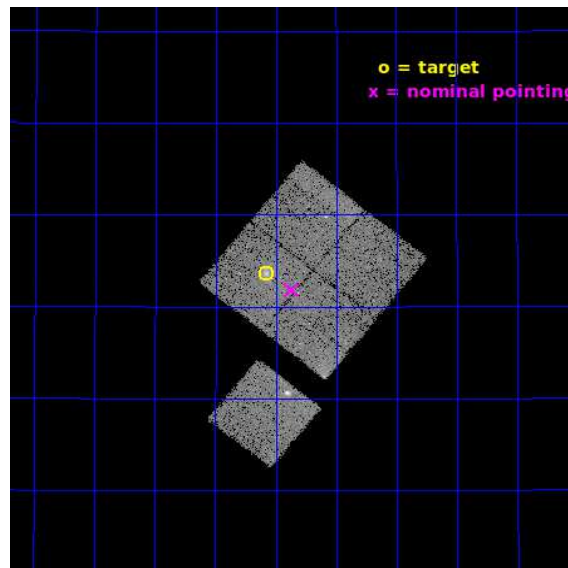
L2 Processing Date : Oct 7 2020

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# 1 Front

seq_num	800489	Sequence number
obs_id	5776	Observation id
title	Chandra observations of high-redshift clusters of galaxies from the 400 Square Degrees ROSAT PSPC survey	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	CIG J1003+3253	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	150.76875	Observer's specified target RA [deg]
dec_targ	32.893333	Observer's specified target Dec [deg]
ra_nom	150.71653938594	Nominal RA [deg]
dec_nom	32.864242924878	Nominal Dec [deg]
roll_nom	218.87209378892	Nominal Roll [deg]
revision	4	Processing version of data
ontime	20121.977100044	Sum of GTIs [s]
livetime	19859.068655648	Livetime [s]
ontime0	20128.258961111	Sum of GTIs [s]
ontime1	20131.399961263	Sum of GTIs [s]
ontime2	20118.836040229	Sum of GTIs [s]
ontime3	20121.977100044	Sum of GTIs [s]
ontime6	20131.399961263	Sum of GTIs [s]
l2events	59243	Number of level 2 events

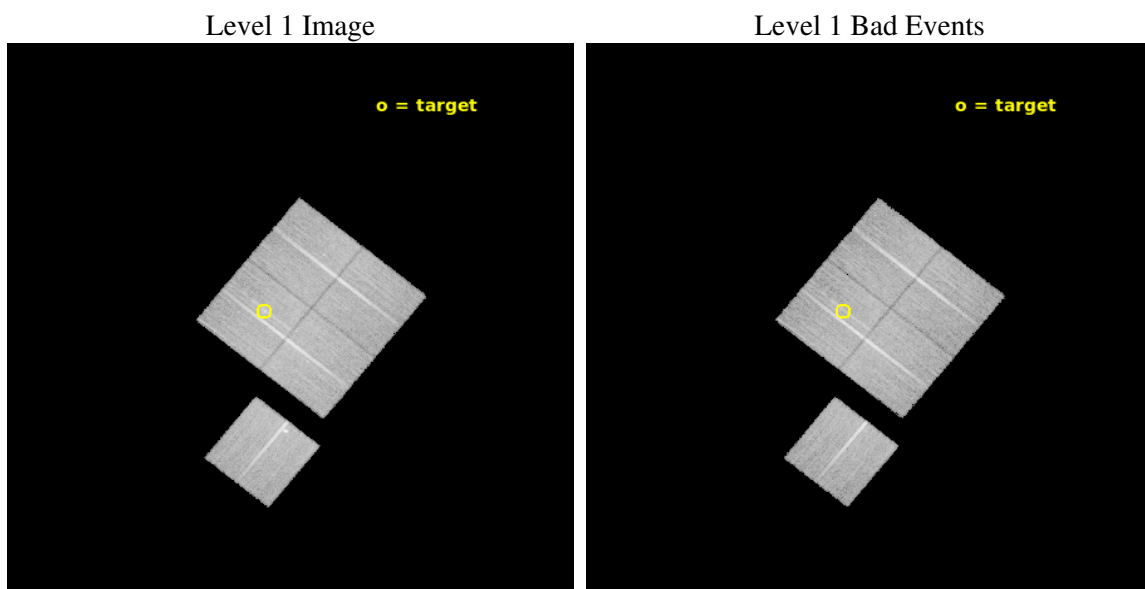




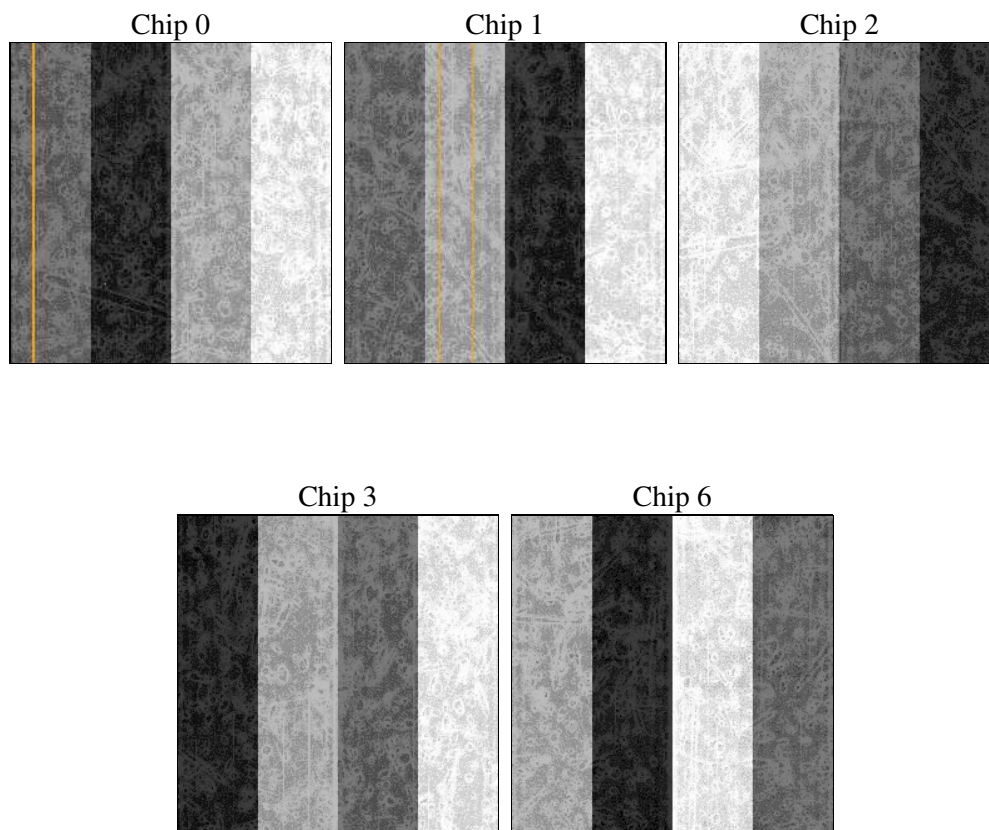
## 2 OBI

### 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	20121.977100044	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime0	20128.258961111	Sum of GTIs [s]
date	2020-10-07T05:01:19	Date and time of file creation	ontime1	20131.399961263	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	20118.836040229	Sum of GTIs [s]
			ontime3	20121.977100044	Sum of GTIs [s]
			ontime6	20131.399961263	Sum of GTIs [s]
			l1events	623409	Number of level 1 events

### 2.1.4 Events

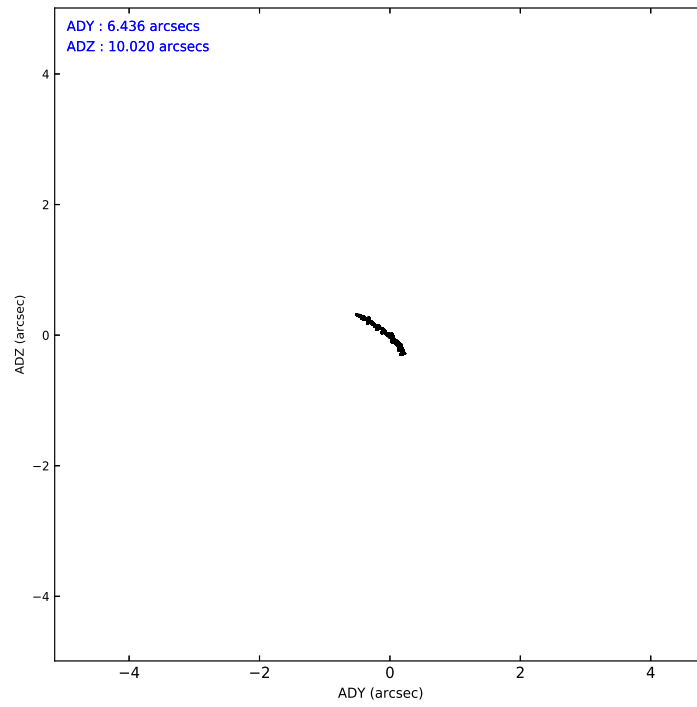
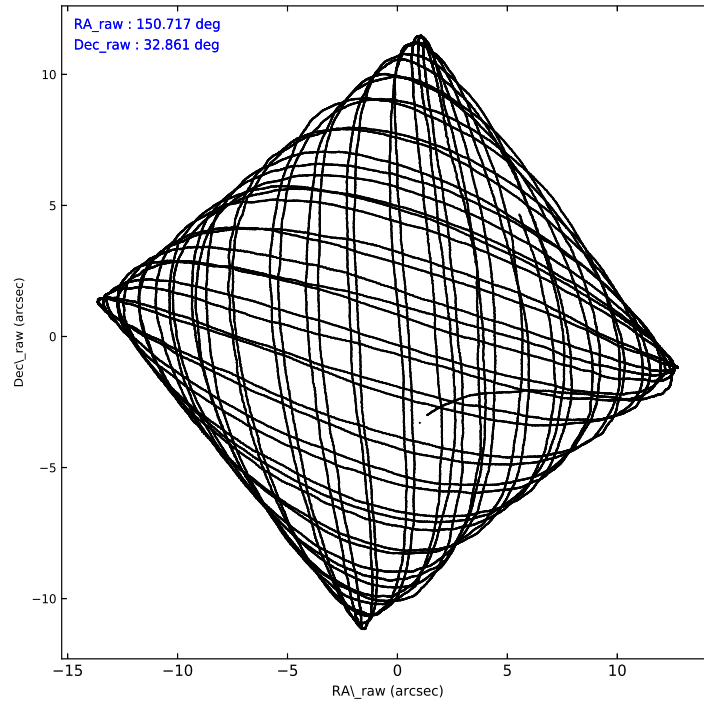
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	113790	120806	133627	129260	125926
rejected events	101346	106236	118801	115615	110476
rejected %	89%	87%	88%	89%	87%

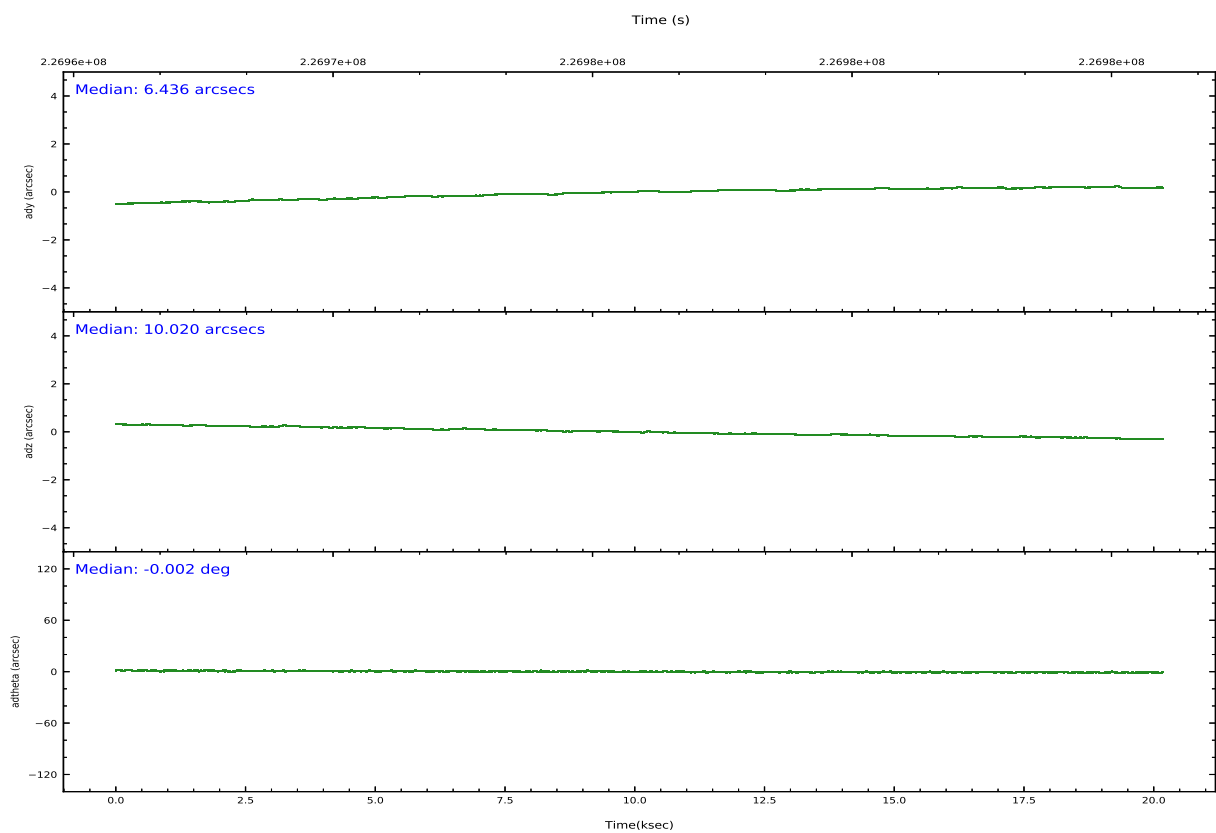
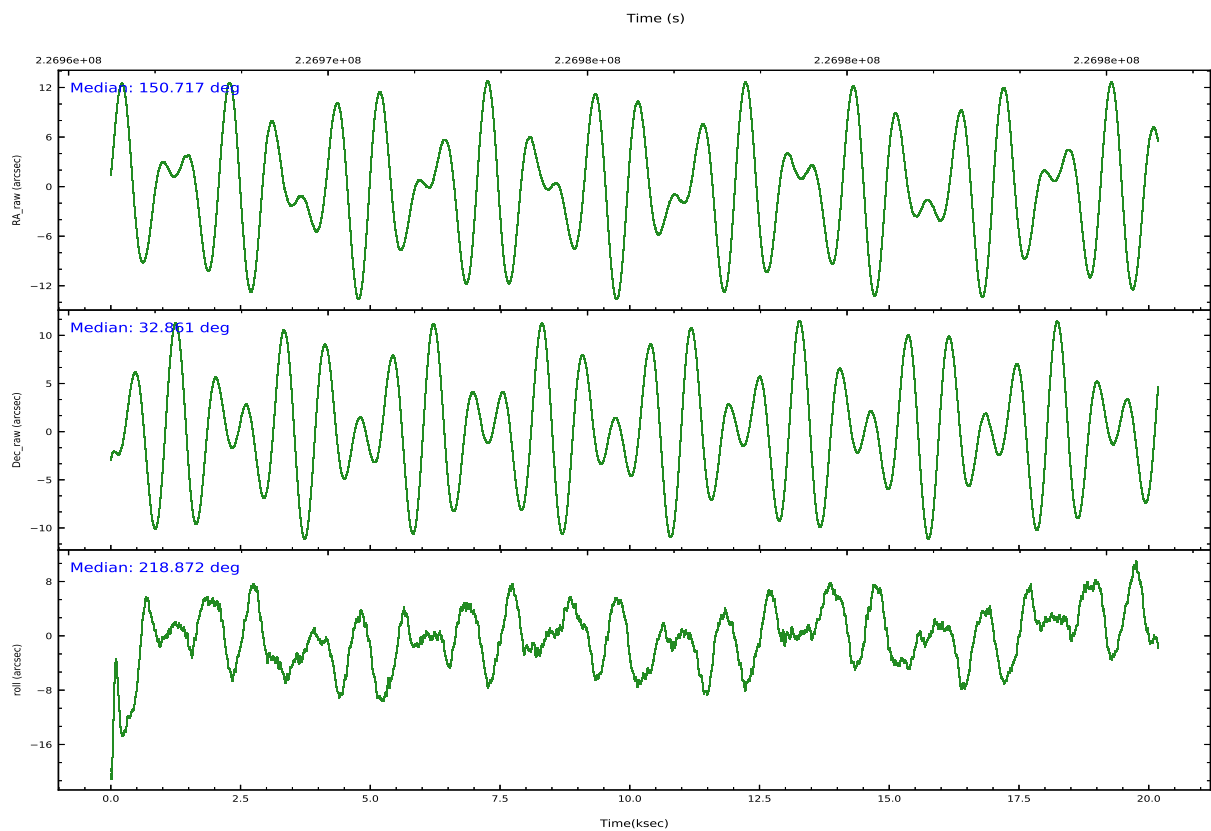
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4345	5355	6550	5678	6682
	3%	4%	4%	4%	5%
grade 1 events	53	66	85	94	65
	0%	0%	0%	0%	0%
grade 2 events	2926	3192	3096	2722	2979
	2%	2%	2%	2%	2%
grade 3 events	1472	1549	1410	1388	1514
	1%	1%	1%	1%	1%
grade 4 events	1378	1531	1441	1430	1507
	1%	1%	1%	1%	1%
grade 5 events	4355	4779	4276	4939	4914
	3%	3%	3%	3%	3%
grade 6 events	2327	2943	2333	2429	2774
	2%	2%	1%	1%	2%
grade 7 events	96934	101391	114436	110580	105491
	85%	83%	85%	85%	83%

## 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	150.728578	150.71653938594	Subarray requested	NONE	NONE
[deg] Pointing Dec	32.886417	32.864242924878	Alternating exposures requested	N	N
[deg] Pointing Roll	218.658890	218.87209378892	[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)	226965994.184000	226965025.94752			
Observation start date	2005-03-11T22:05:30	2005-03-11T21:50:25			
[s] Observation end time (MET)	226985994.184000	226986731.3485			
Observation end date	2005-03-12T03:38:50	2005-03-12T03:52:11			
Read mode	TIMED	TIMED			

## 2.3 Aspect



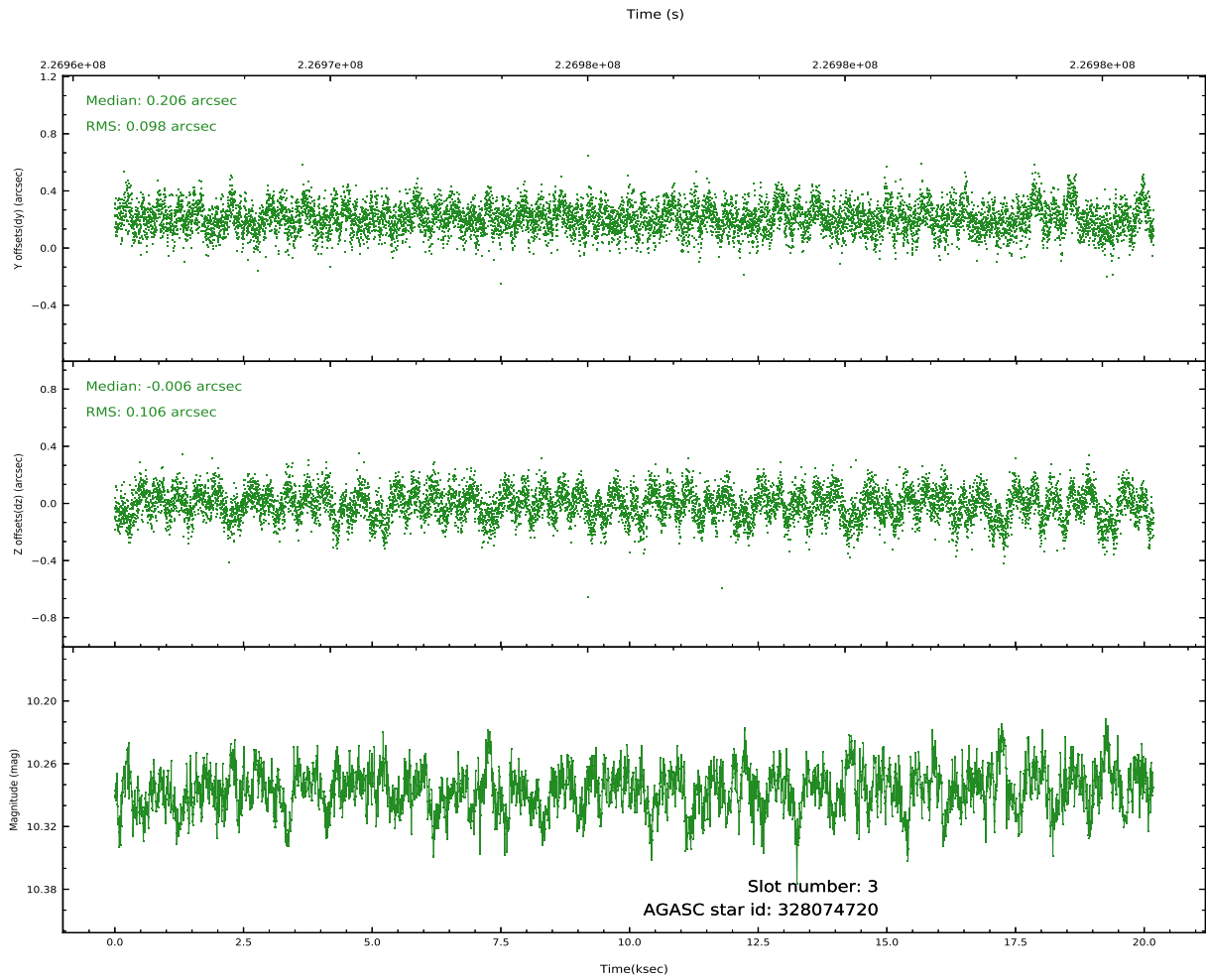
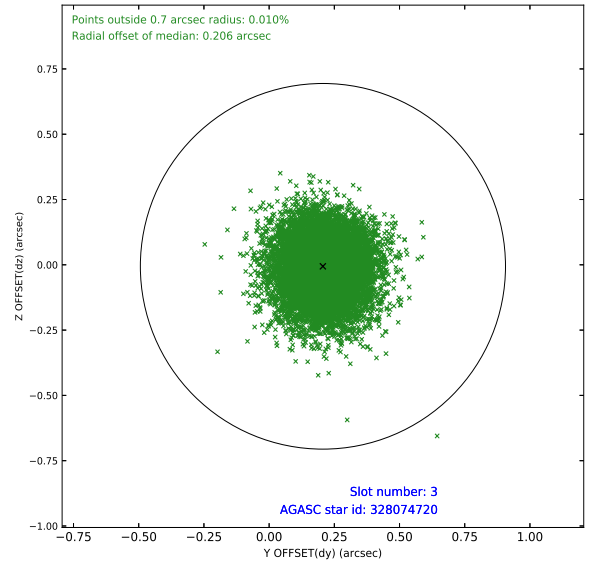
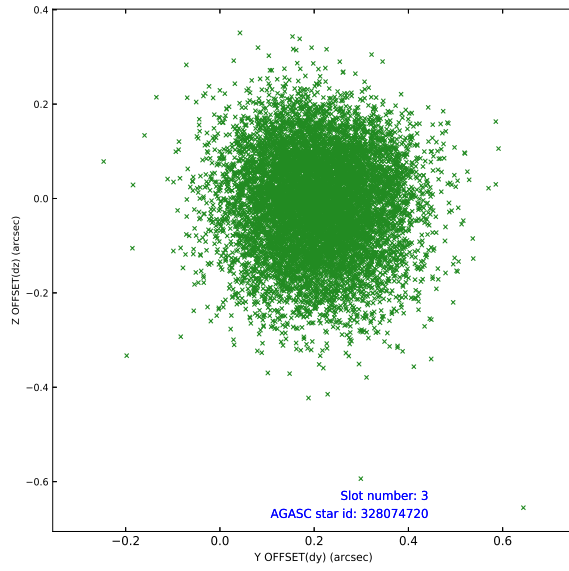


Slot Statistics

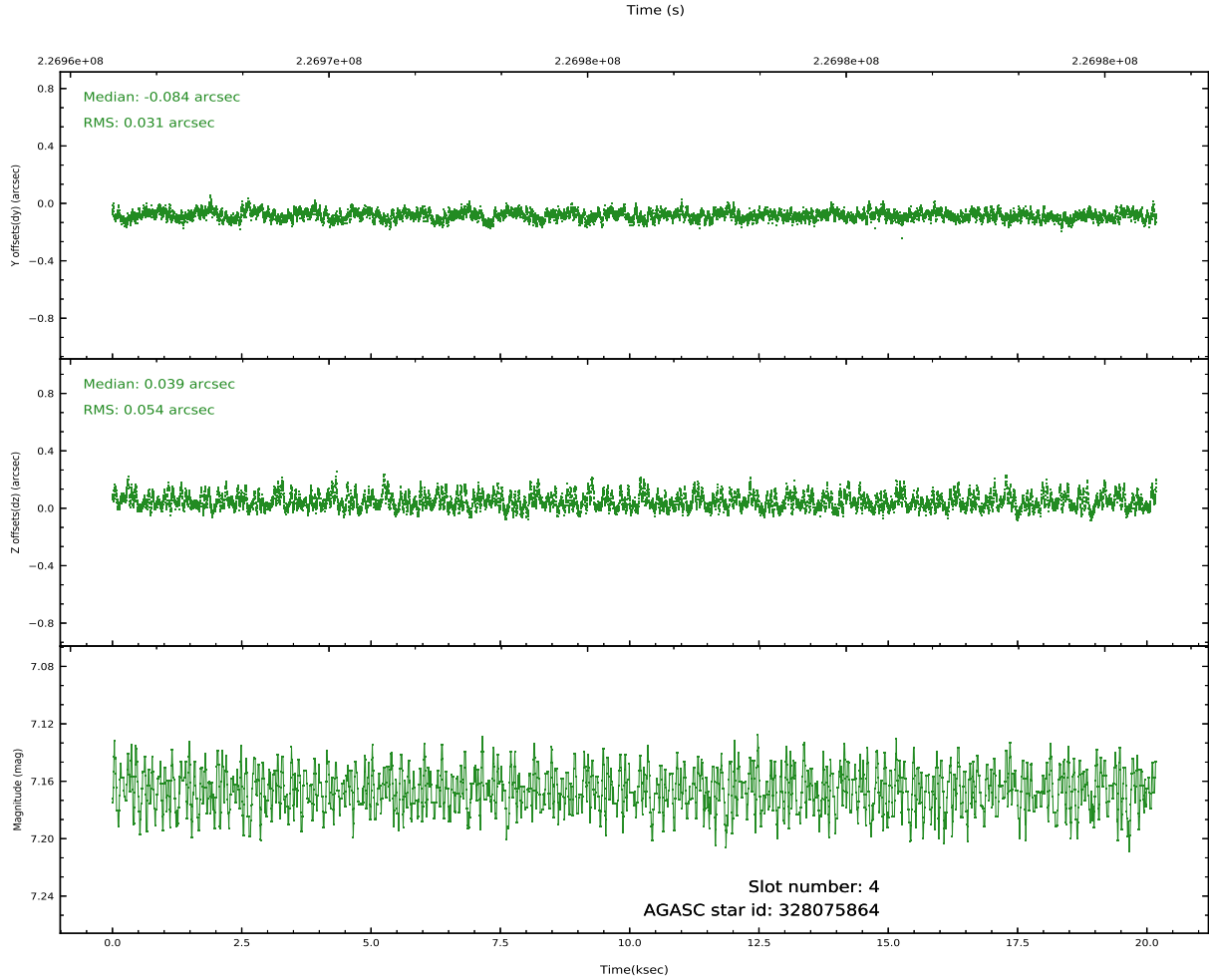
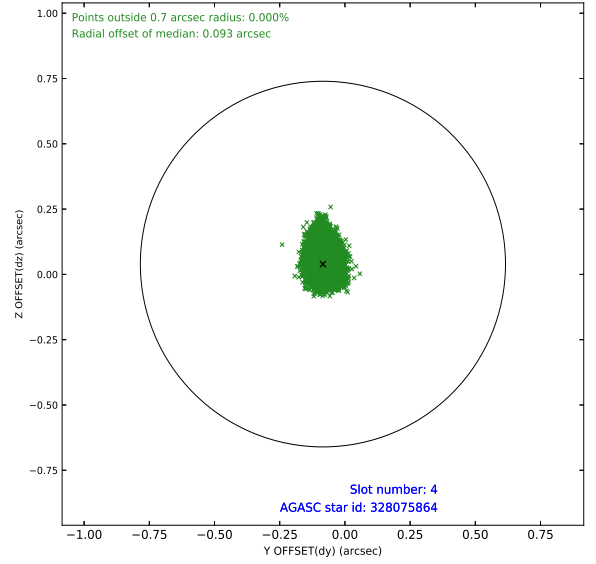
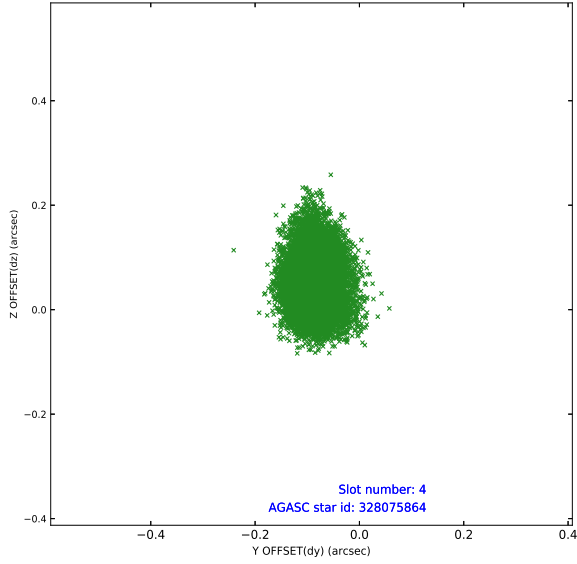
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.23	4923	1.000	0.105	-0.113	0.011	0.018	0.000000	0.000000	933.29	-992
1	FID		ACIS-I-5	7.22	4923	1.000	-0.264	0.079	0.012	0.022	0.000000	0.000000	-1815.10	904
2	FID		ACIS-I-6	7.25	4922	1.000	0.068	0.105	0.007	0.012	0.000000	0.000000	398.58	1549
3	GUIDE	used	328074720	10.29	9802	1.000	0.206	-0.006	0.155	0.246	150.340678	32.315122	2205.49	867
4	GUIDE	used	328075864	7.17	9845	1.000	-0.084	0.039	0.065	0.111	151.066991	32.452445	172.60	1861
5	GUIDE	used	328467856	10.17	9765	1.000	0.011	-0.014	0.121	0.197	150.189196	32.850934	1351.37	-922
6	GUIDE	used	328468552	8.83	9840	1.000	0.010	-0.016	0.081	0.129	150.523277	33.036656	146.18	-809
7	GUIDE	used	328470232	8.38	9841	1.000	-0.144	-0.008	0.056	0.091	151.315325	33.229085	-2153.34	136

## 2.4 Star Slots

### 2.4.1 Slot 3

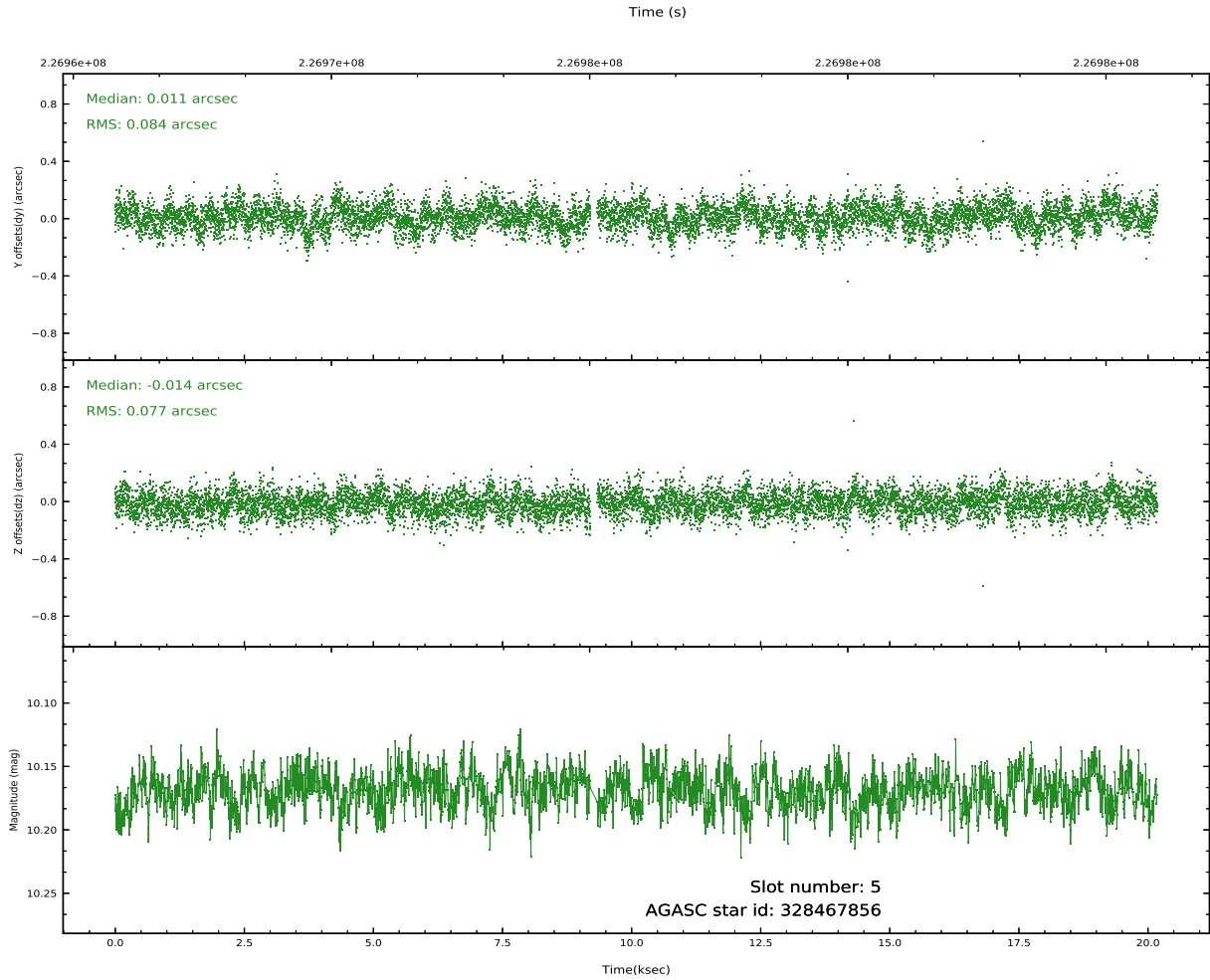
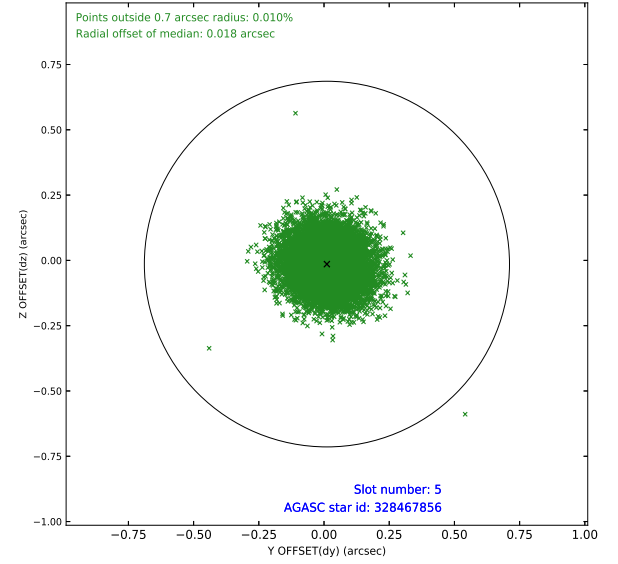
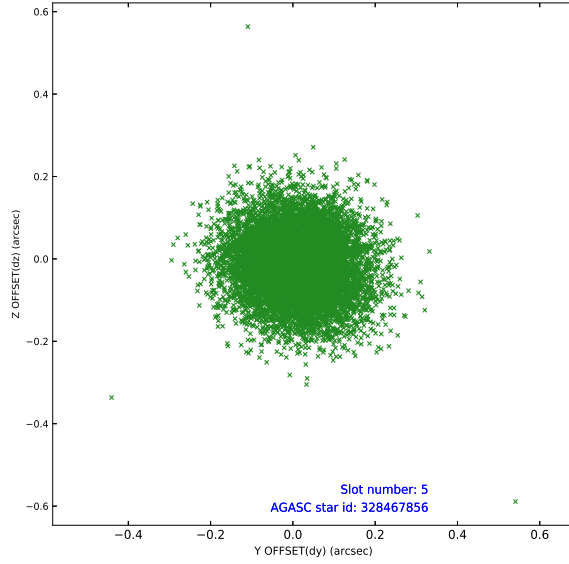


## 2.4.2 Slot 4

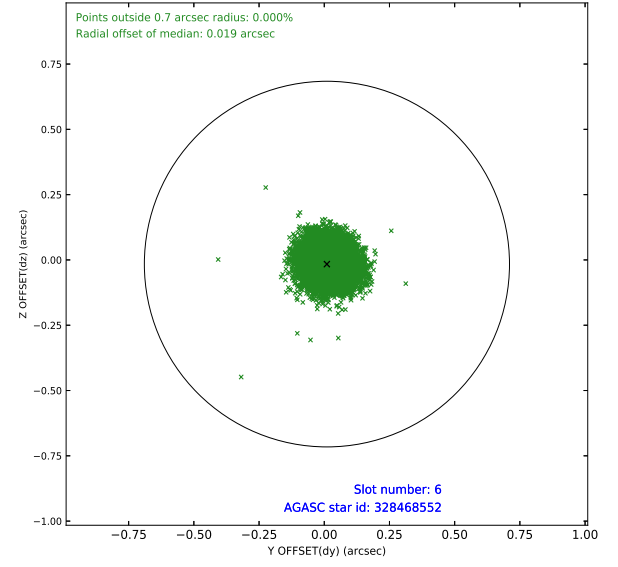
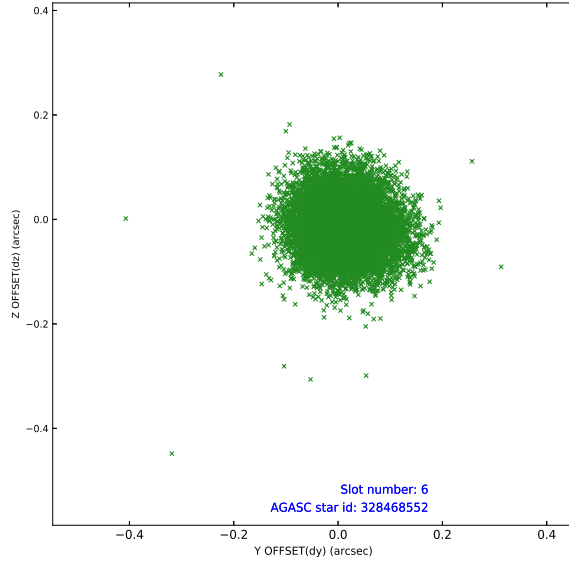




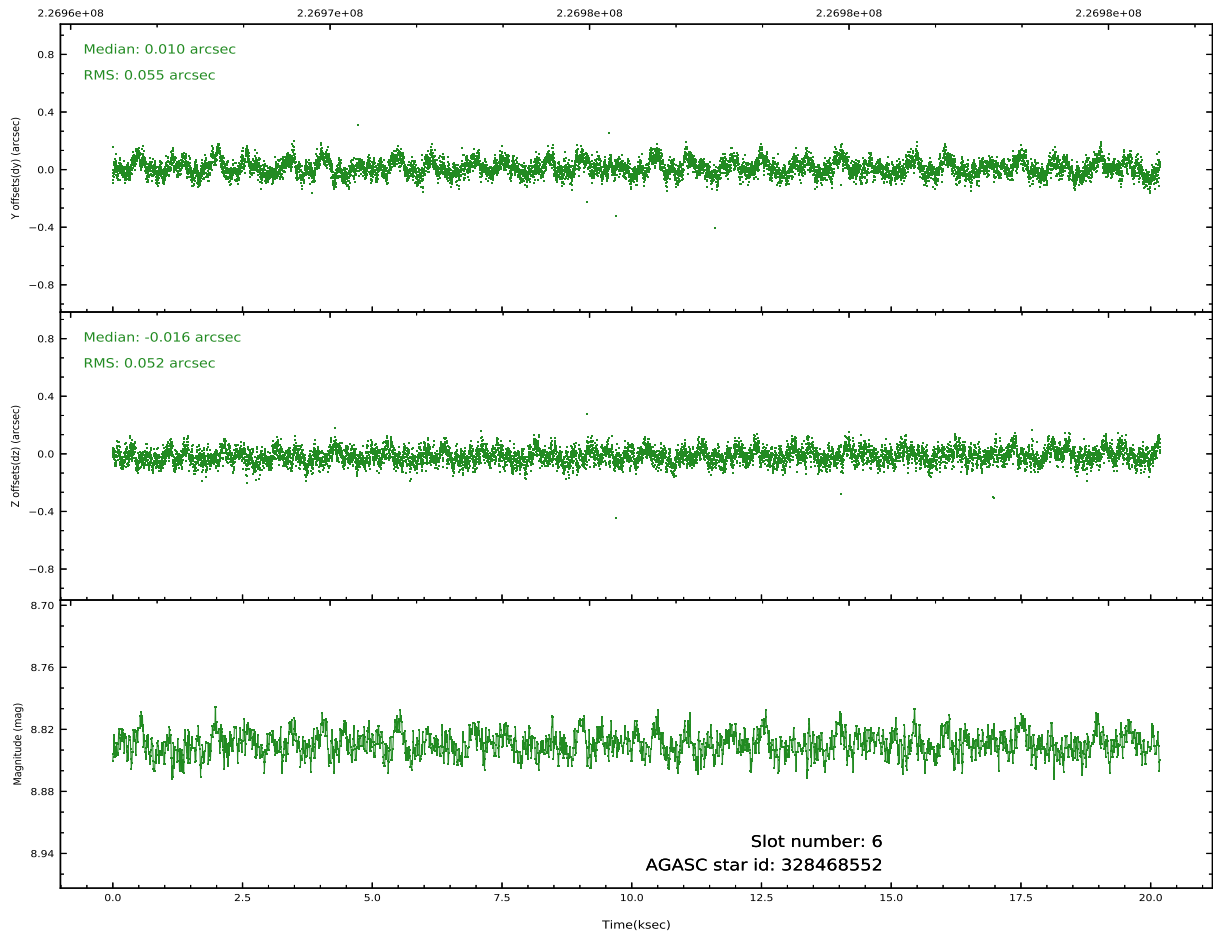
### 2.4.3 Slot 5



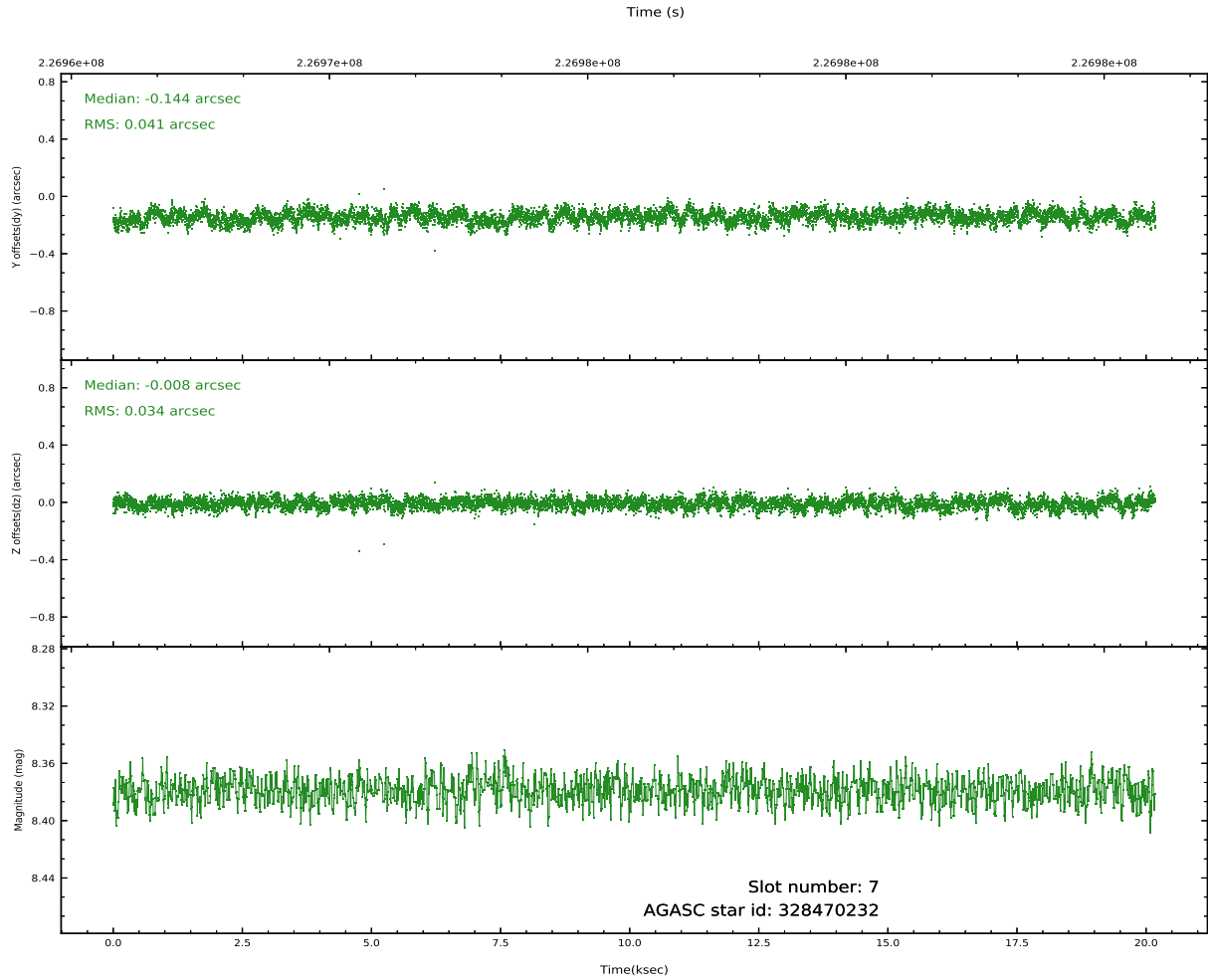
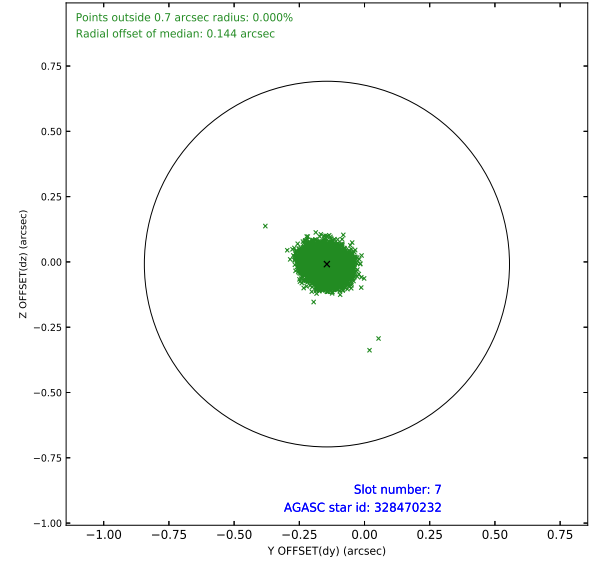
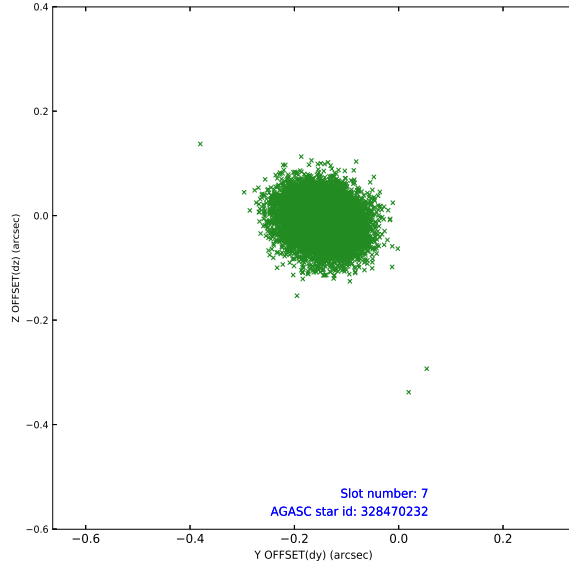
## 2.4.4 Slot 6



Time (s)

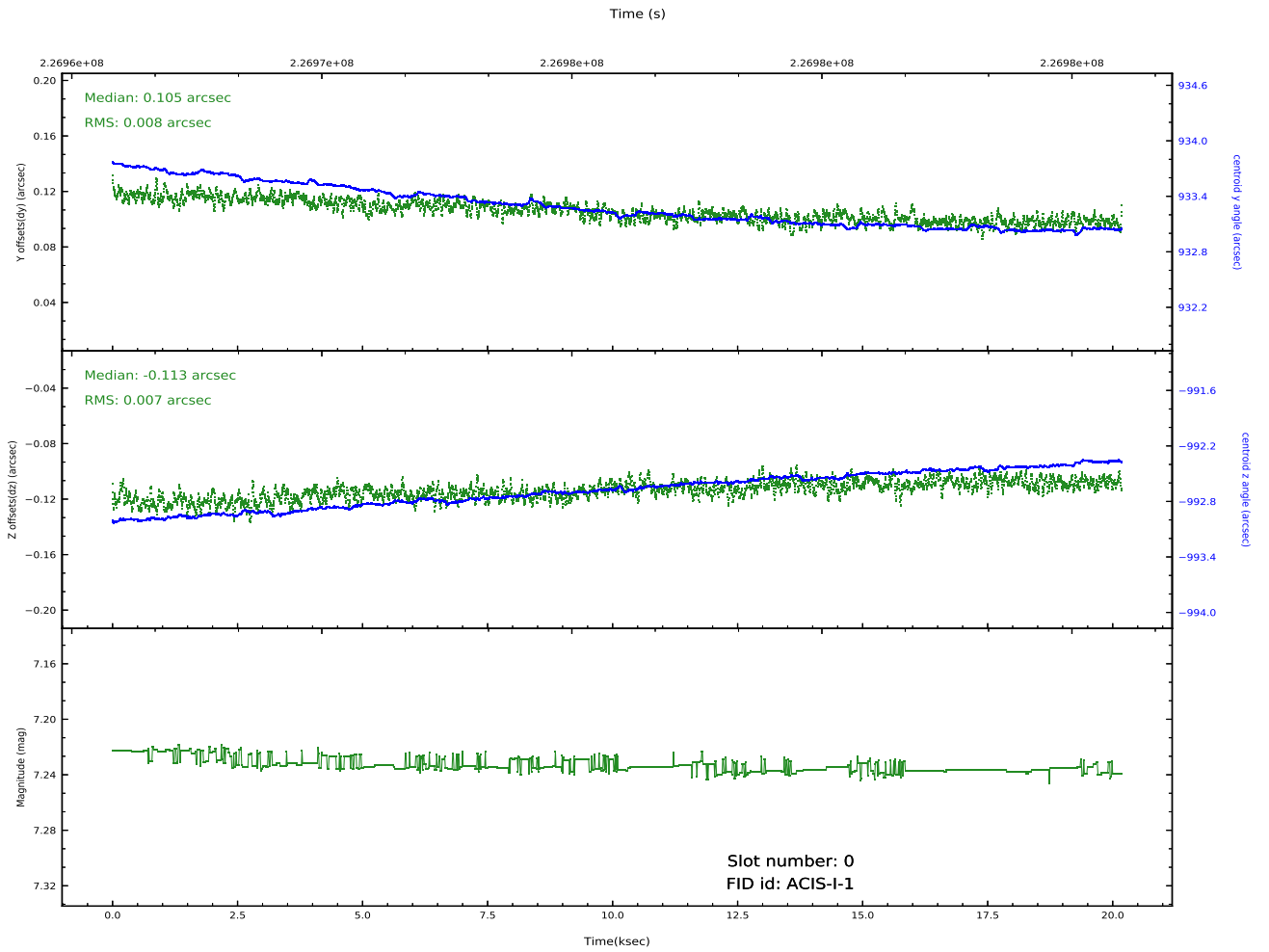
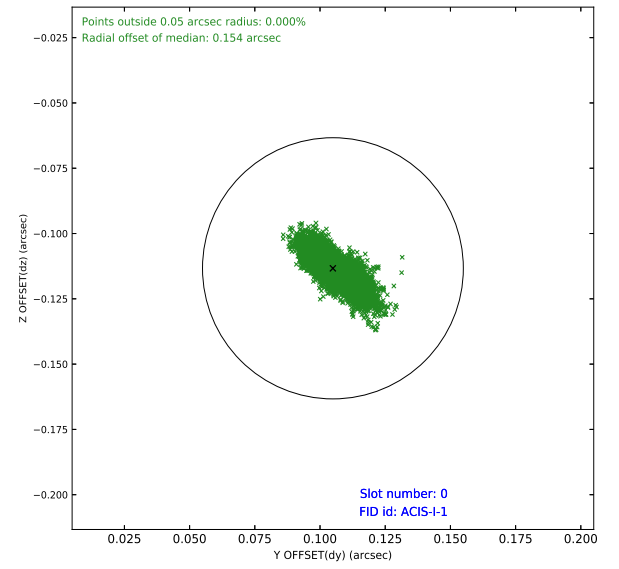
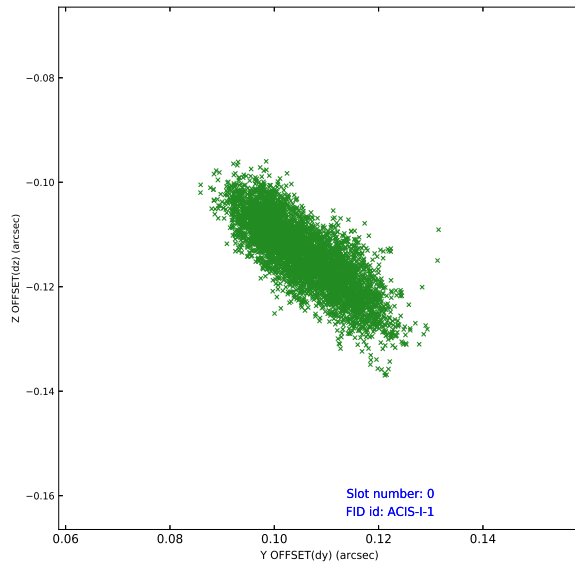


## 2.4.5 Slot 7

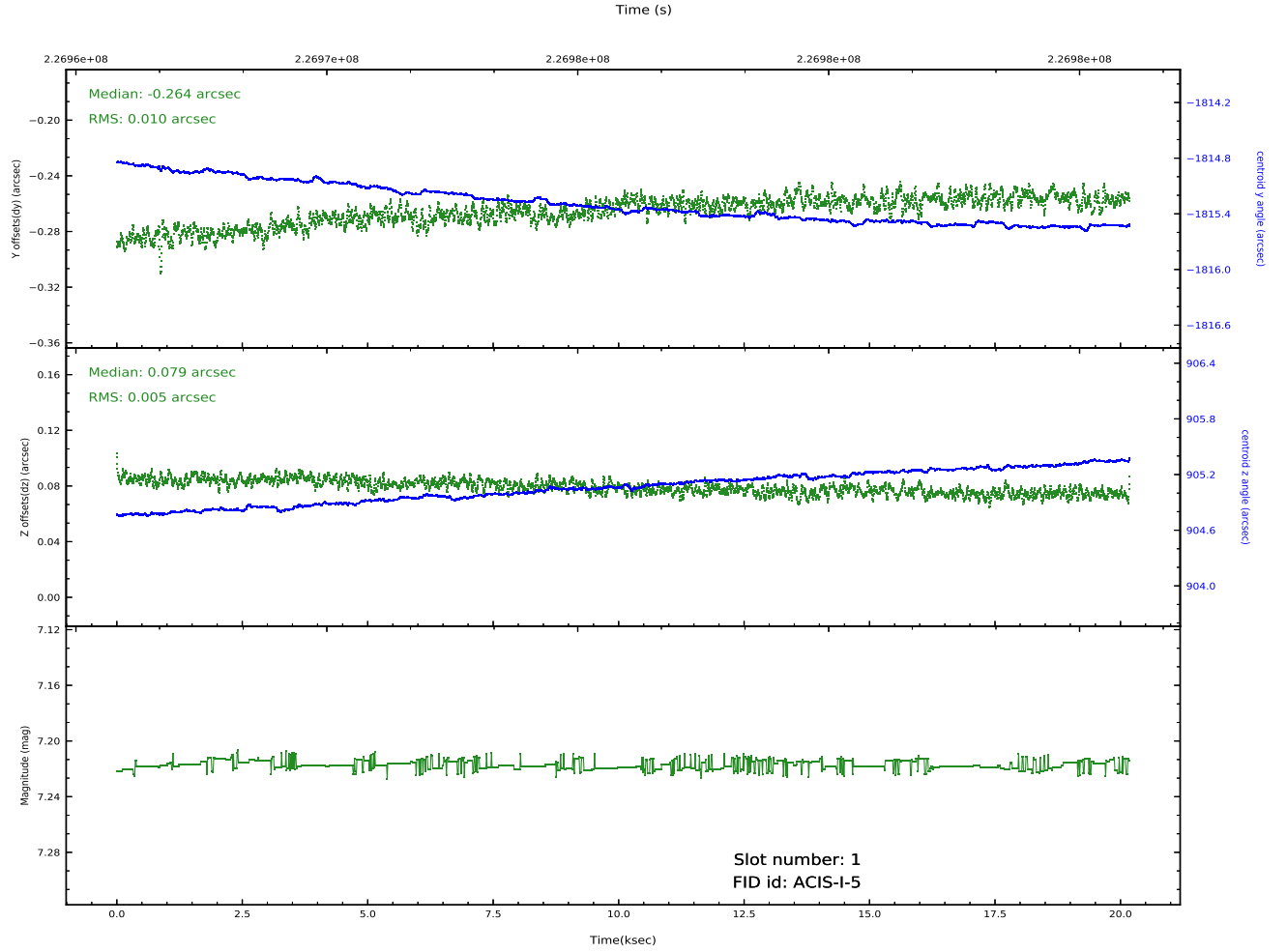
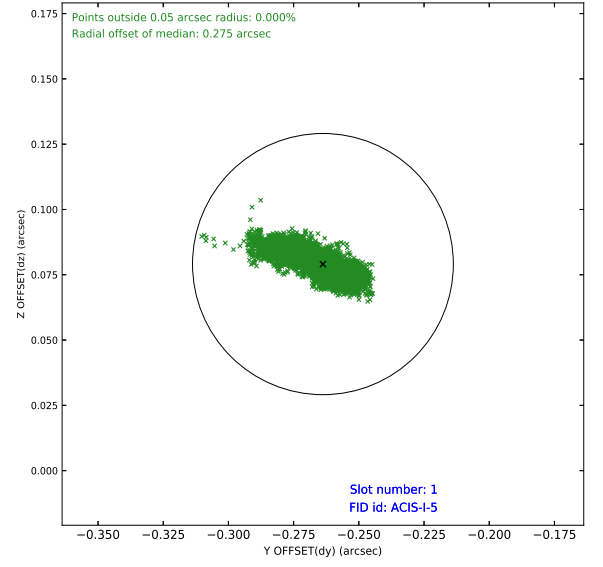
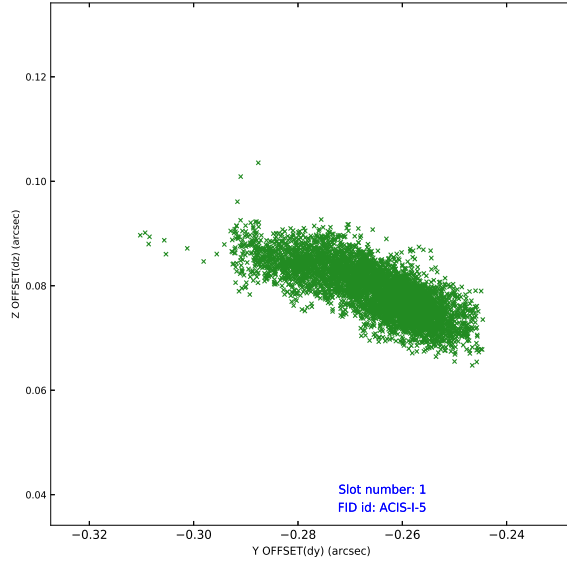


## 2.5 FID Slots

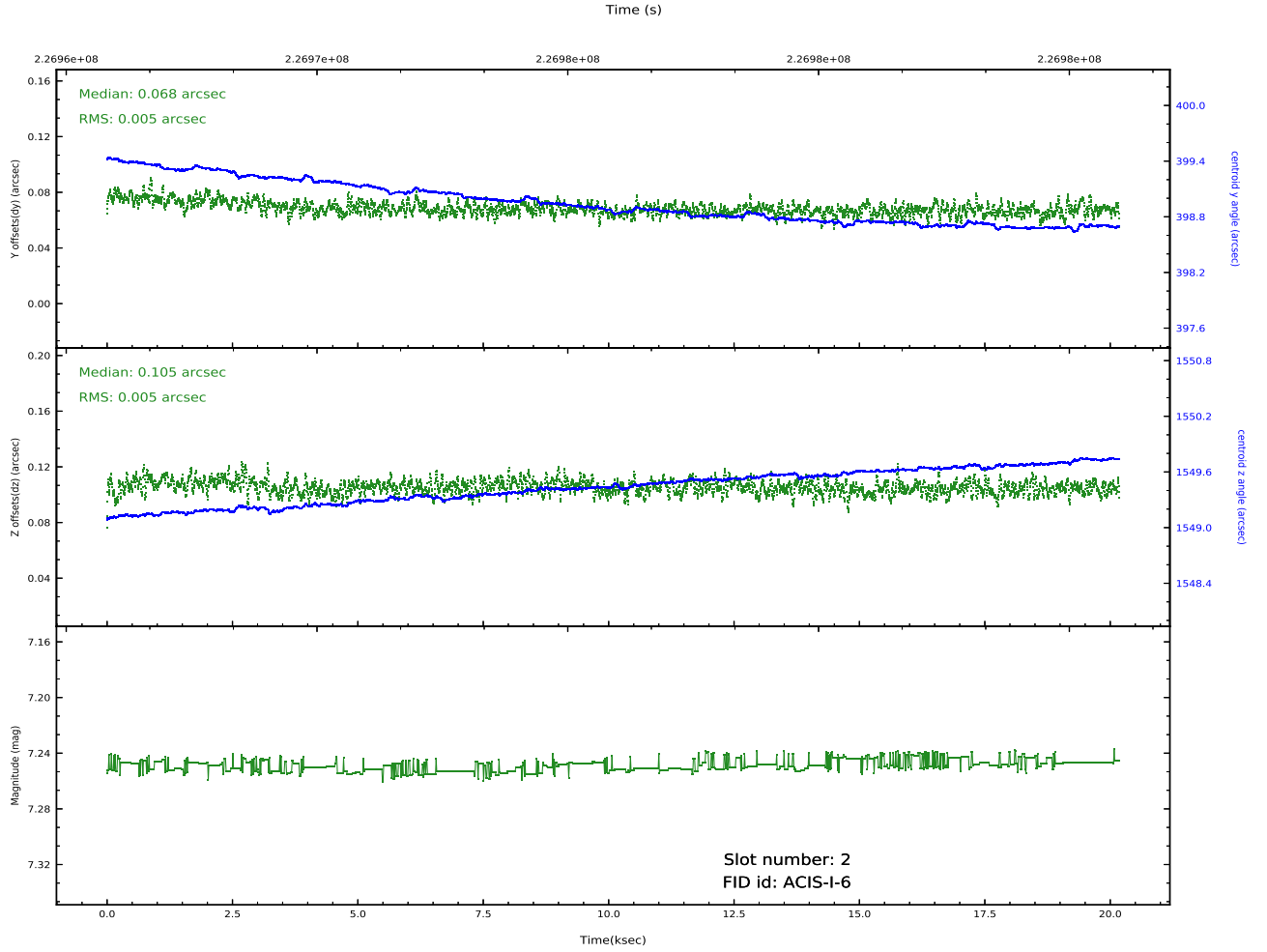
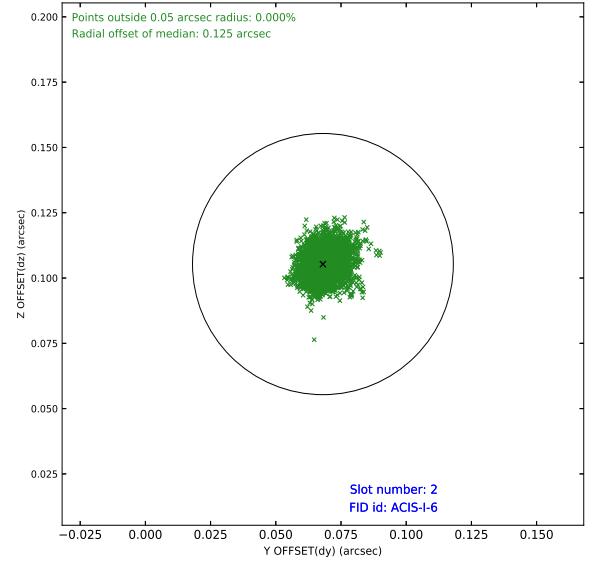
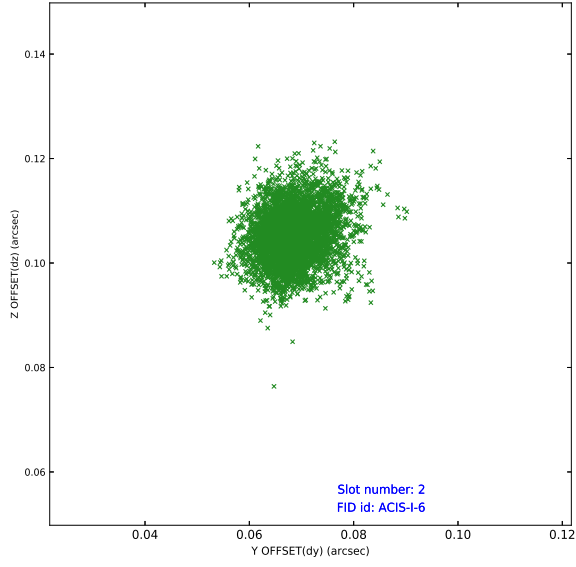
### 2.5.1 Slot 0



## 2.5.2 Slot 1



## 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.12197

### A.2 Comments