

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5782 - L2 Version 3  
Chandra X-Ray Center

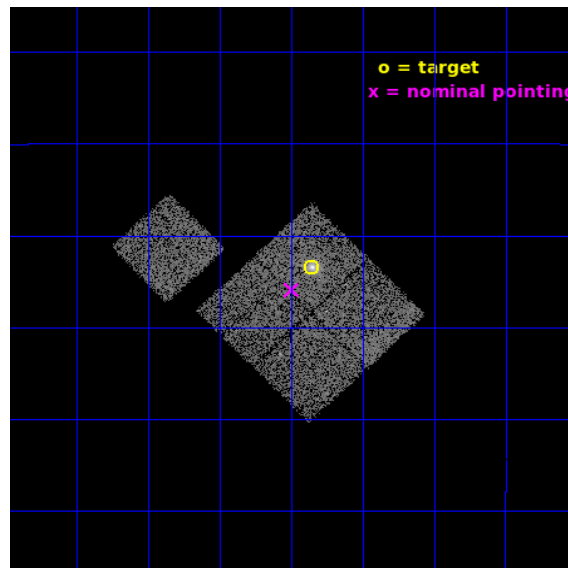
L2 Processing Date : Oct 11 2020

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# 1 Front

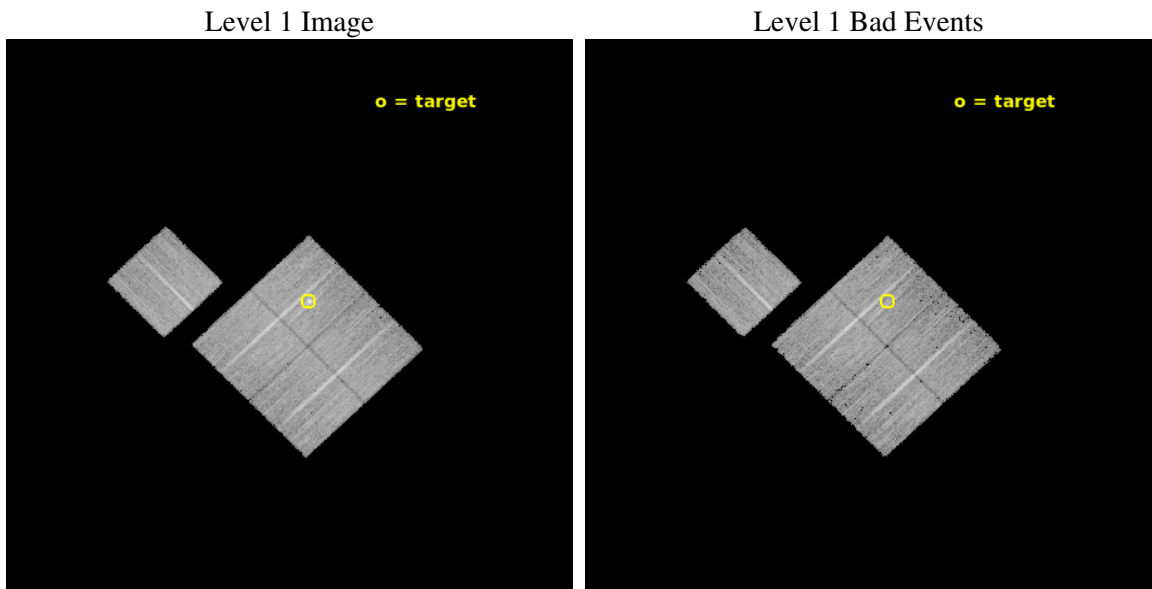
seq_num	800495	Sequence number
obs_id	5782	Observation id
title	Chandra observations of high-redshift clusters of galaxies from the 400 Square Degrees ROSAT PSPC survey	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	CIG J0302-0423	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	45.58875	Observer's specified target RA [deg]
dec_targ	-4.391389	Observer's specified target Dec [deg]
ra_nom	45.623043741097	Nominal RA [deg]
dec_nom	-4.4313939790887	Nominal Dec [deg]
roll_nom	315.9254517551	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10174.15898025	Sum of GTIs [s]
livetime	10041.226103067	Livetime [s]
ontime0	10174.15898025	Sum of GTIs [s]
ontime1	10177.299980402	Sum of GTIs [s]
ontime2	10177.299980402	Sum of GTIs [s]
ontime3	10174.15898025	Sum of GTIs [s]
ontime6	10177.299980402	Sum of GTIs [s]
l2events	31508	Number of level 2 events



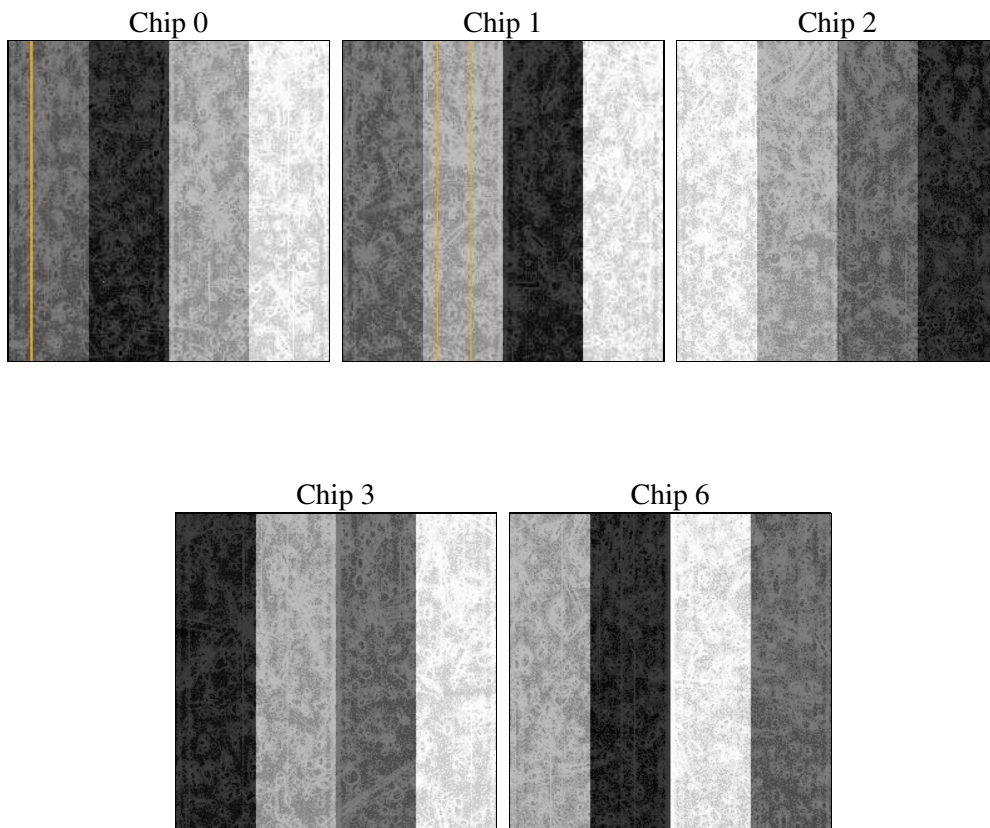
## 2 OBI

### 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	10174.15898025	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime0	10174.15898025	Sum of GTIs [s]
date	2020-10-12T02:37:11	Date and time of file creation	ontime1	10177.299980402	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	10177.299980402	Sum of GTIs [s]
			ontime3	10174.15898025	Sum of GTIs [s]
			ontime6	10177.299980402	Sum of GTIs [s]
			l1events	378983	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	75429	70179	80047	77146	76182
rejected events	68683	62337	73265	67543	69298
rejected %	91%	88%	91%	87%	90%

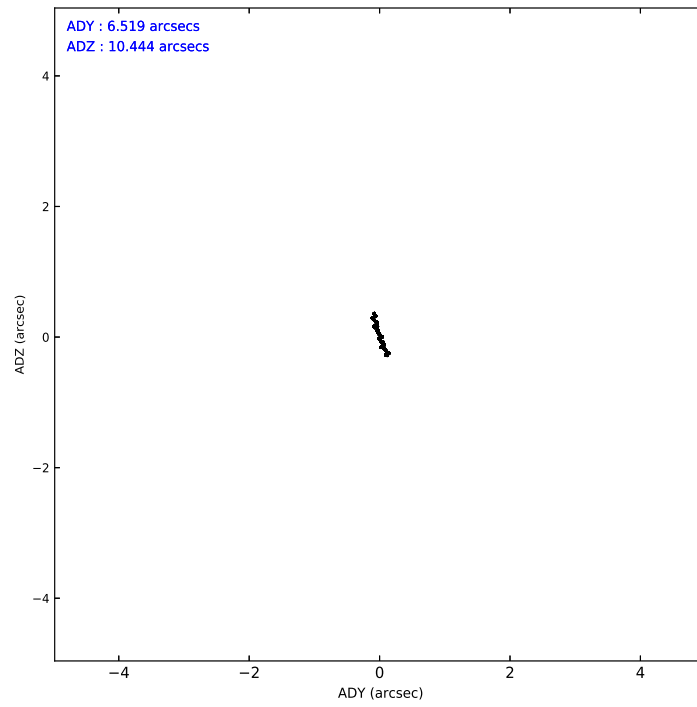
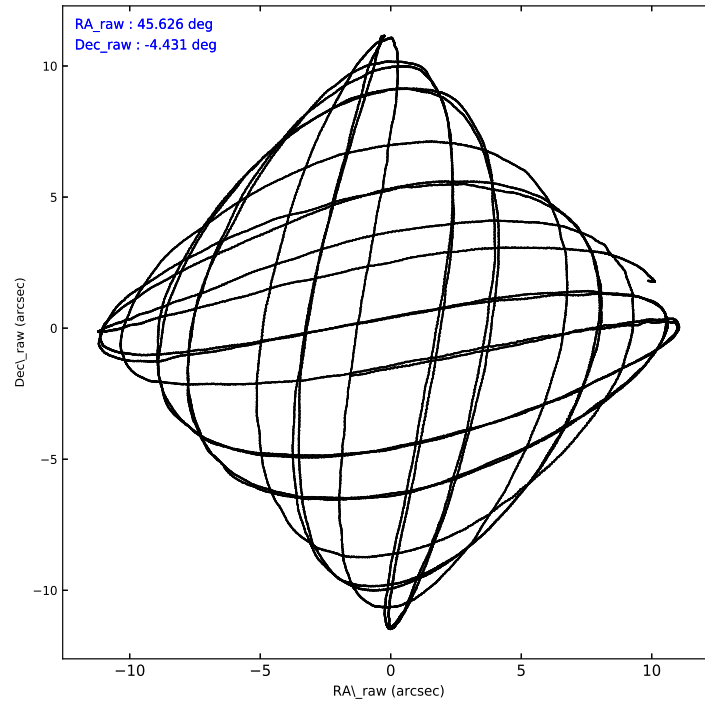
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2514	3138	2593	5089	2587
	3%	4%	3%	6%	3%
grade 1 events	30	31	37	64	36
	0%	0%	0%	0%	0%
grade 2 events	1803	1932	1791	1848	1666
	2%	2%	2%	2%	2%
grade 3 events	846	970	813	903	895
	1%	1%	1%	1%	1%
grade 4 events	826	862	838	893	847
	1%	1%	1%	1%	1%
grade 5 events	2559	2837	2558	3141	3007
	3%	4%	3%	4%	3%
grade 6 events	1423	1666	1416	1556	1631
	1%	2%	1%	2%	2%
grade 7 events	65428	58743	70001	63652	65513
	86%	83%	87%	82%	85%

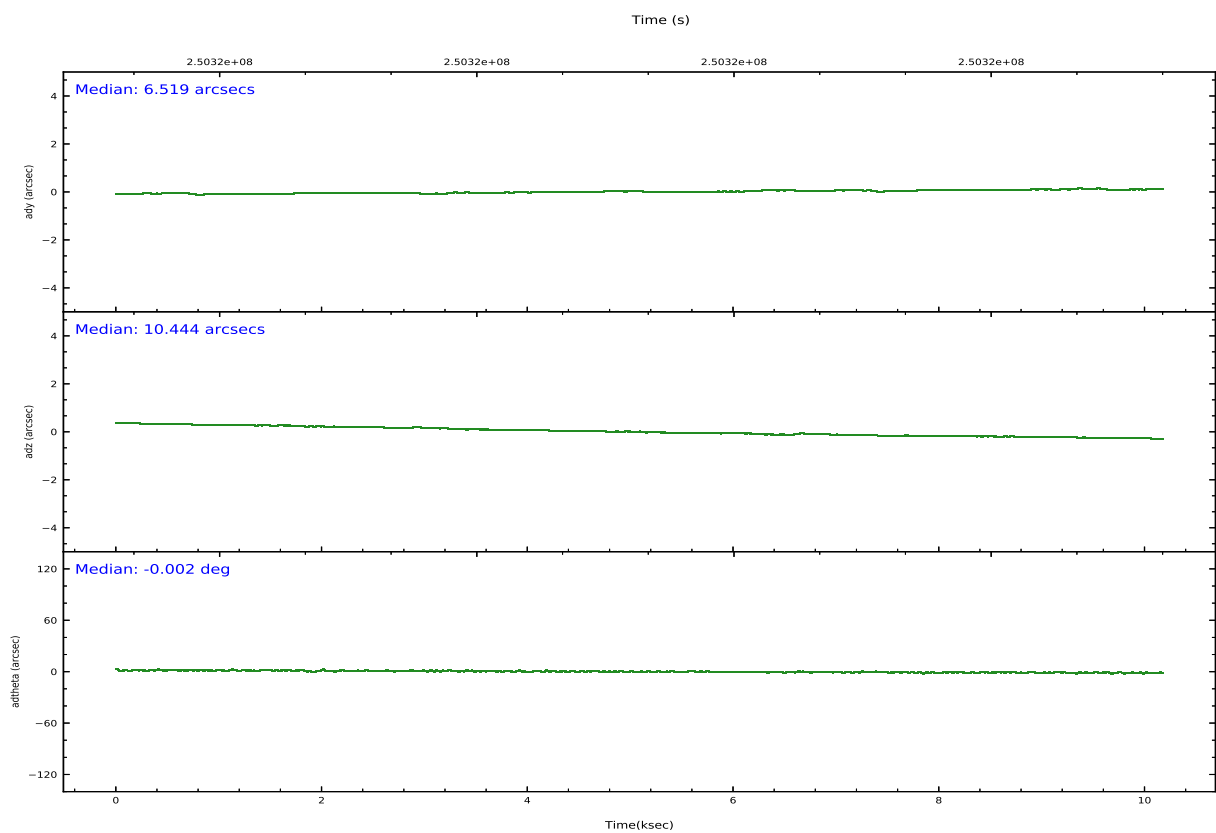
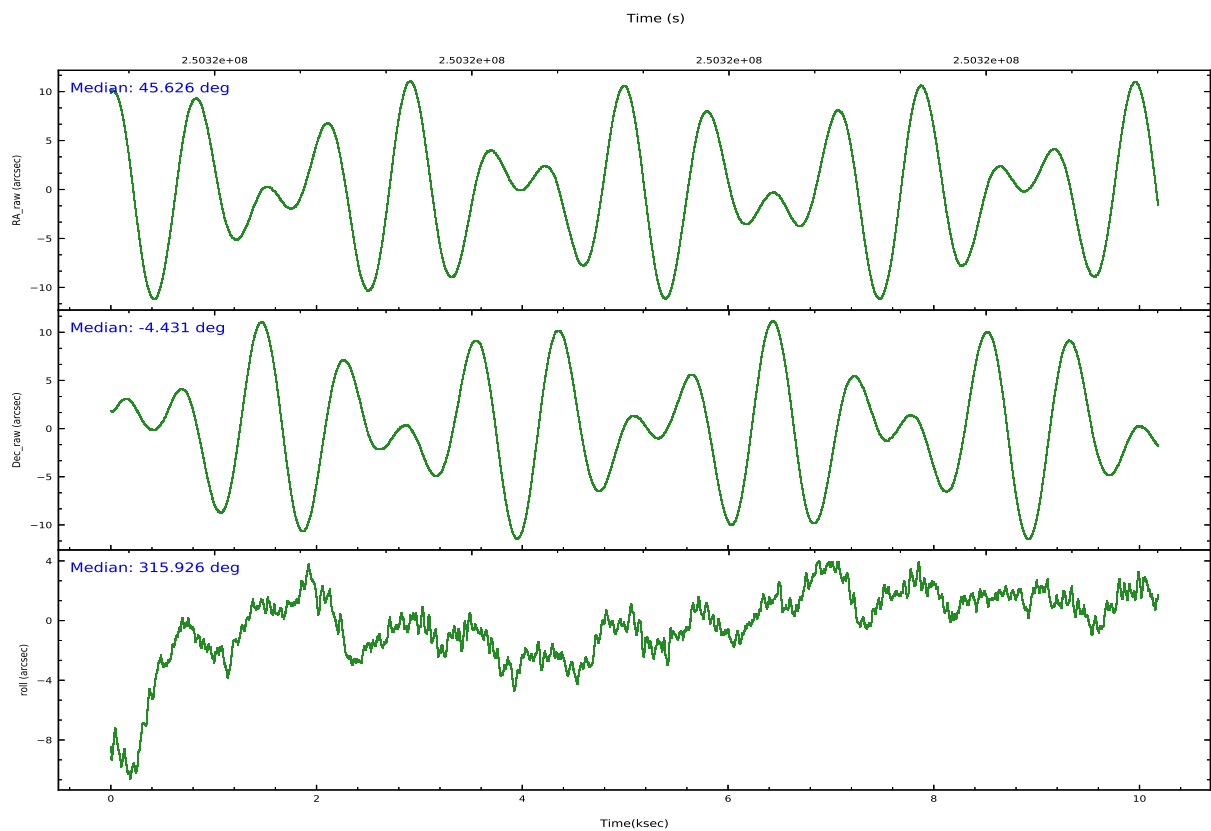


## 2.2 Compared Parameters

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	45.599803	45.623043741097	Subarray requested	NONE	NONE
[deg] Pointing Dec	-4.424023	-4.4313939790887	Alternating exposures requested	N	N
[deg] Pointing Roll	315.720801	315.9254517551	[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	-225.8458576473255			
[mm] SIM translation stage offset	-7.752	-7.746595355604228			
[s] Observation start time (MET)	250314173.184000	250312676.89154			
Observation start date	2005-12-07T03:41:49	2005-12-07T03:17:56			
[s] Observation end time (MET)	250324173.184000	250325608.29213			
Observation end date	2005-12-07T06:28:29	2005-12-07T06:53:28			
Read mode	TIMED	TIMED			

## 2.3 Aspect



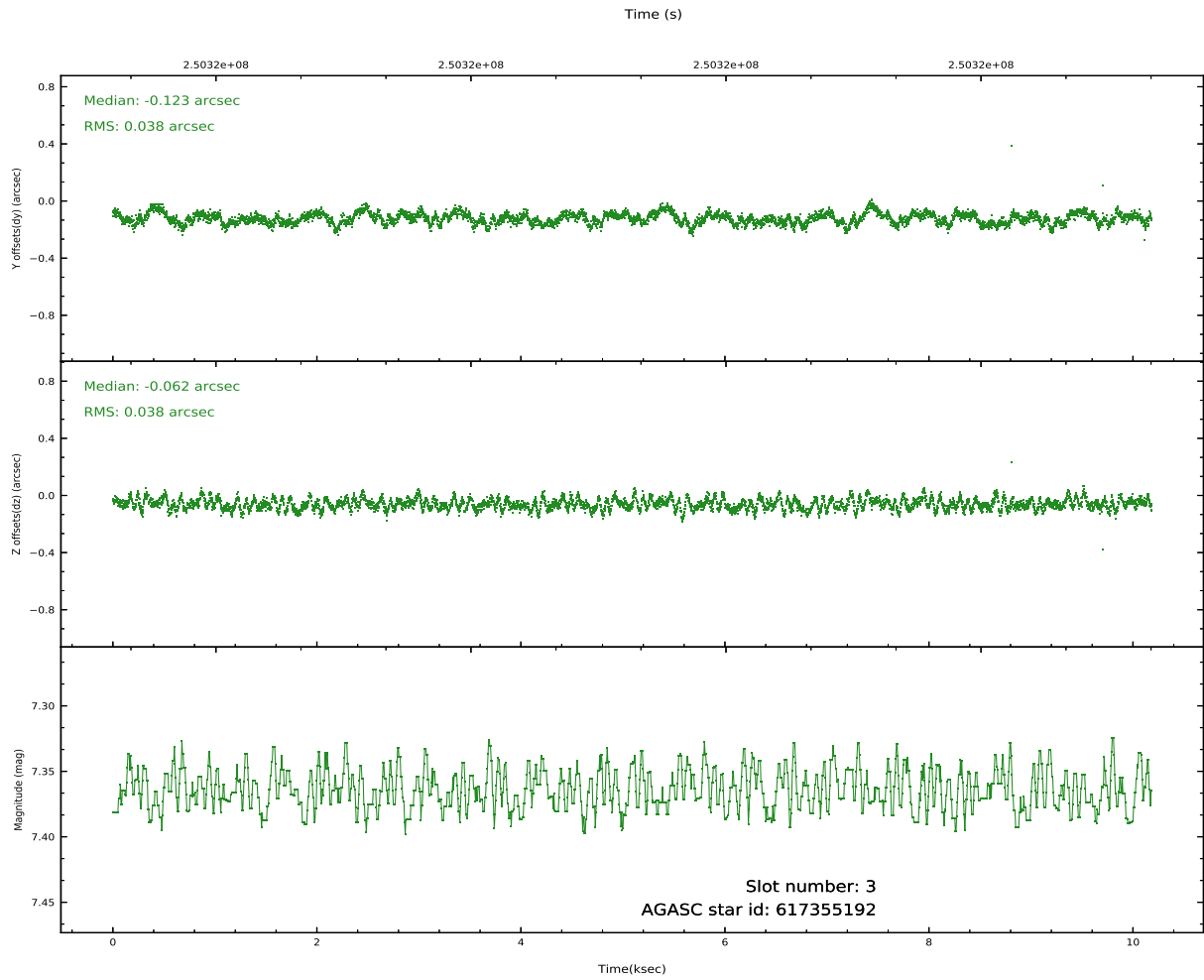
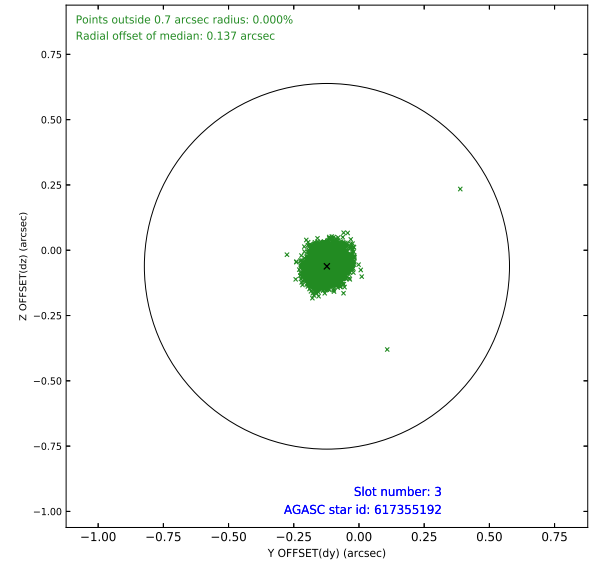
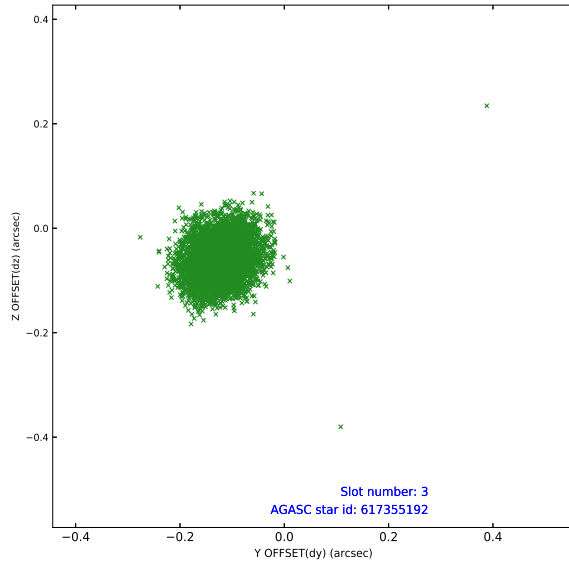


Slot Statistics

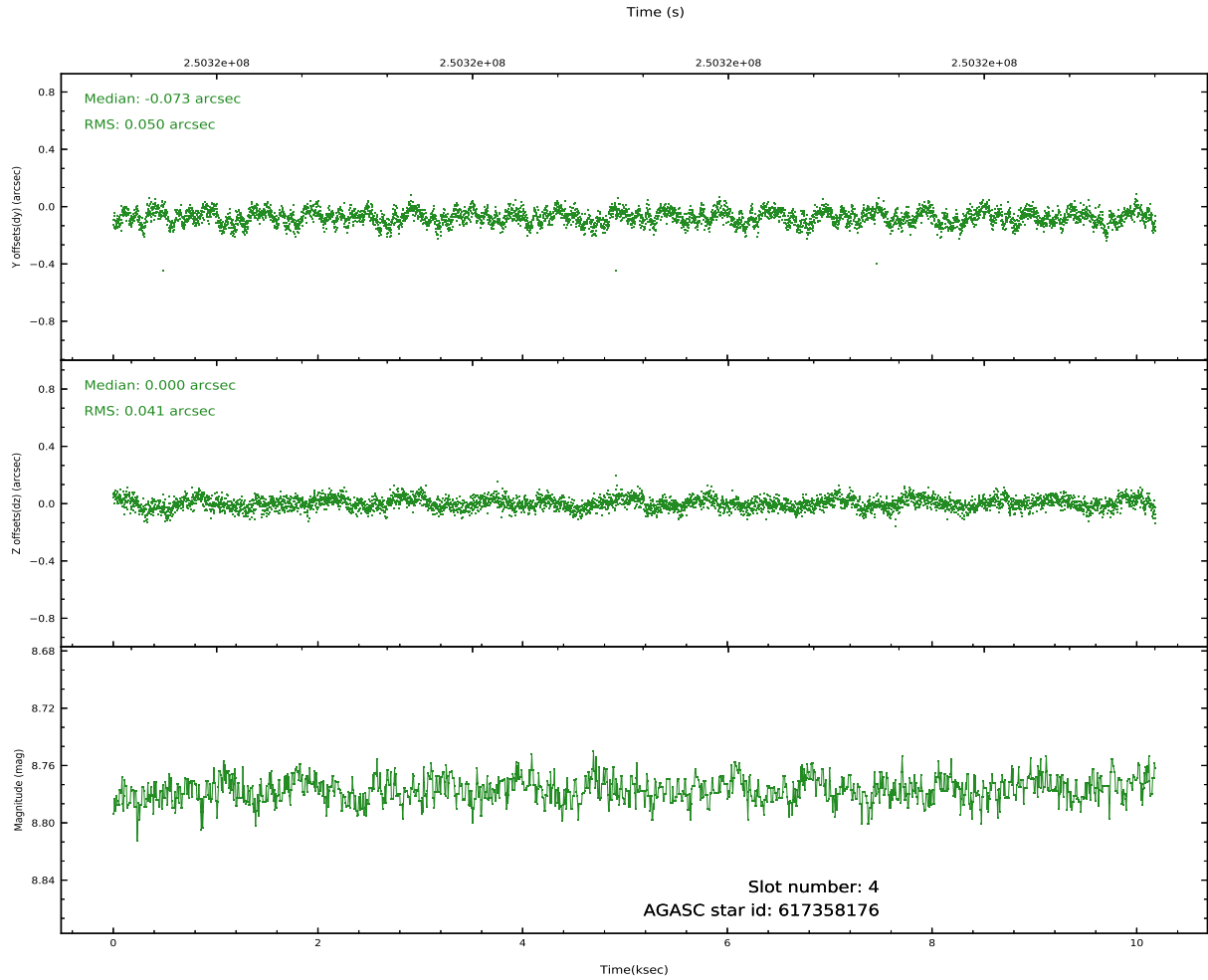
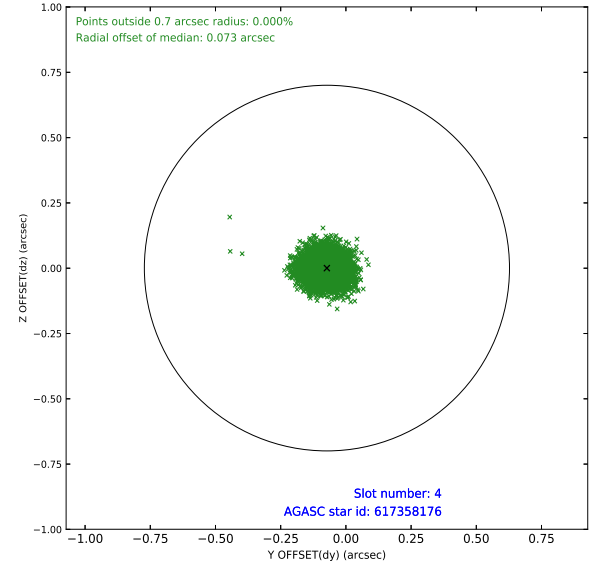
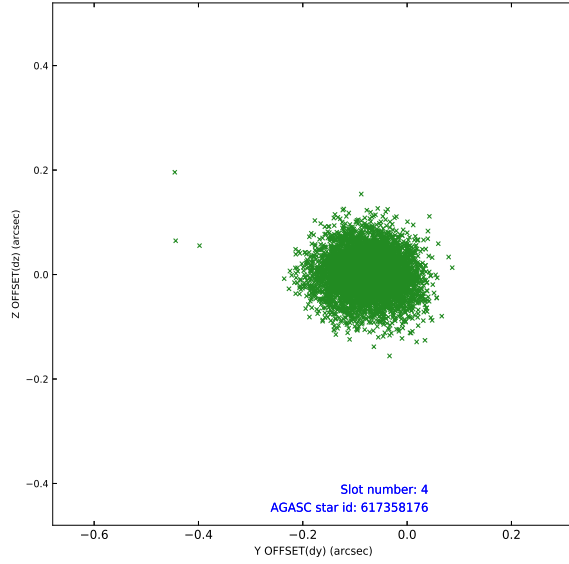
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	2484	1.000	0.121	-0.138	0.010	0.016	0.000000	0.000000	933.14	-993
1	FID		ACIS-I-5	7.22	2484	1.000	-0.272	0.089	0.009	0.014	0.000000	0.000000	-1815.07	904
2	FID		ACIS-I-6	7.25	2483	1.000	0.060	0.119	0.008	0.012	0.000000	0.000000	398.07	1549
3	GUIDE	used	617355192	7.36	4968	1.000	-0.123	-0.062	0.058	0.091	46.048522	-4.327014	909.61	1374
4	GUIDE	used	617358176	8.78	4964	1.000	-0.073	0.000	0.069	0.109	45.526597	-3.873336	-1572.20	1235
5	GUIDE	used	617359128	10.14	4965	1.000	0.137	0.059	0.166	0.298	45.545380	-3.959256	-1308.31	1061
6	GUIDE	used	617746520	9.35	4967	1.000	0.132	-0.008	0.126	0.209	45.772409	-5.047343	2010.35	-1174
7	GUIDE	used	617750872	9.15	4965	1.000	-0.064	0.013	0.084	0.136	45.358323	-5.041379	932.58	-2196

## 2.4 Star Slots

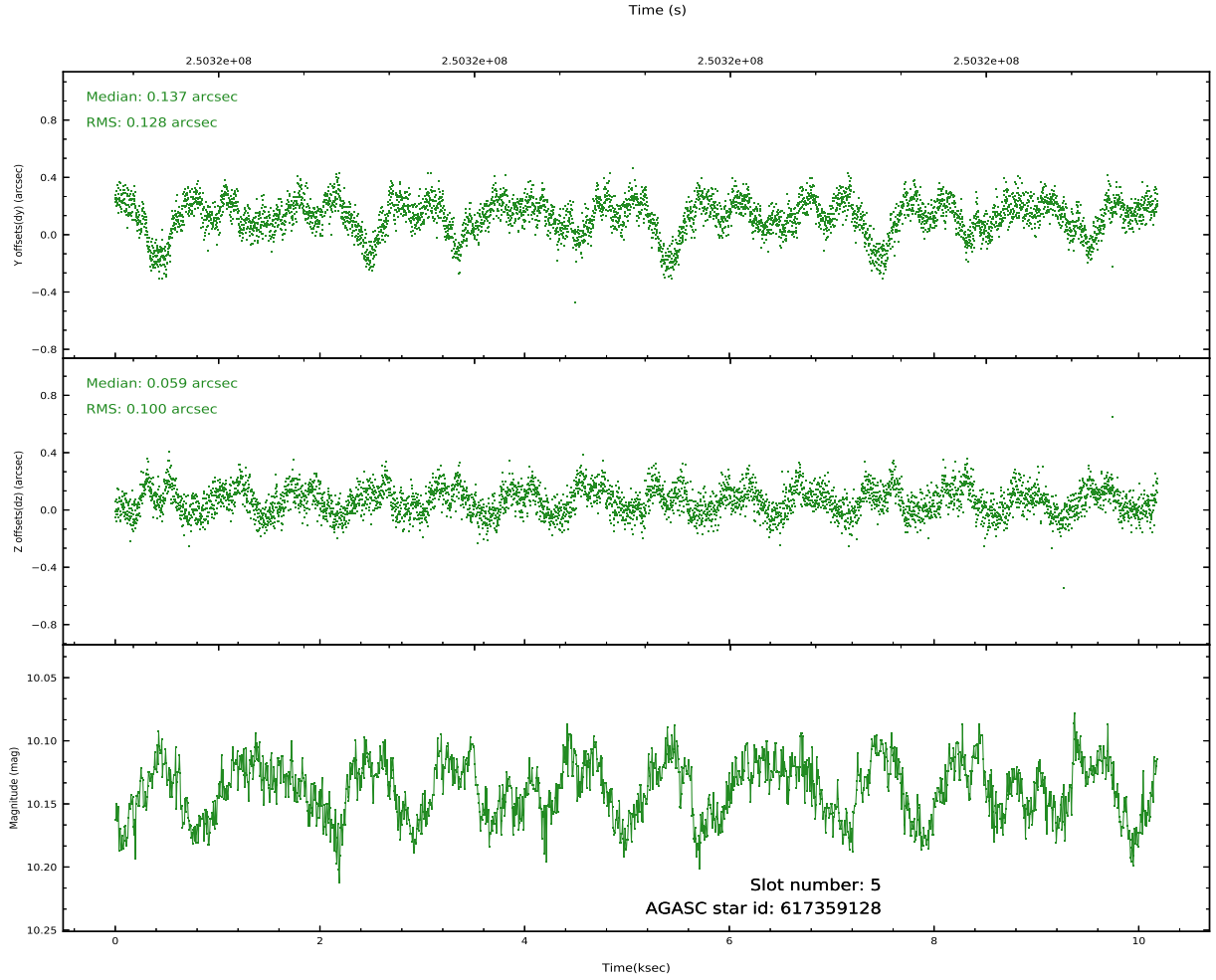
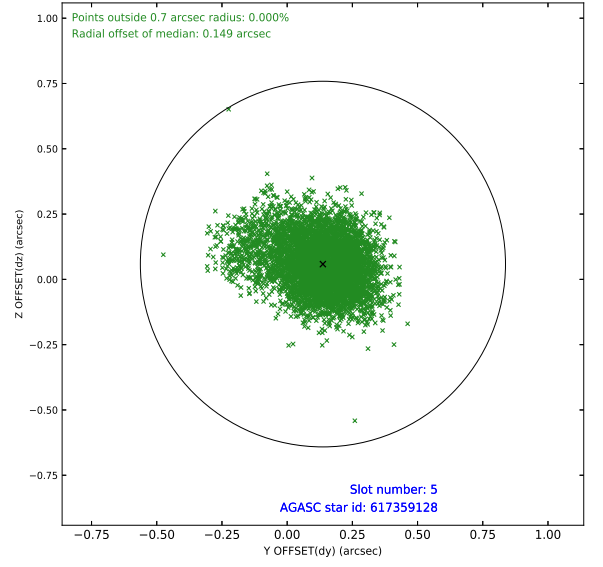
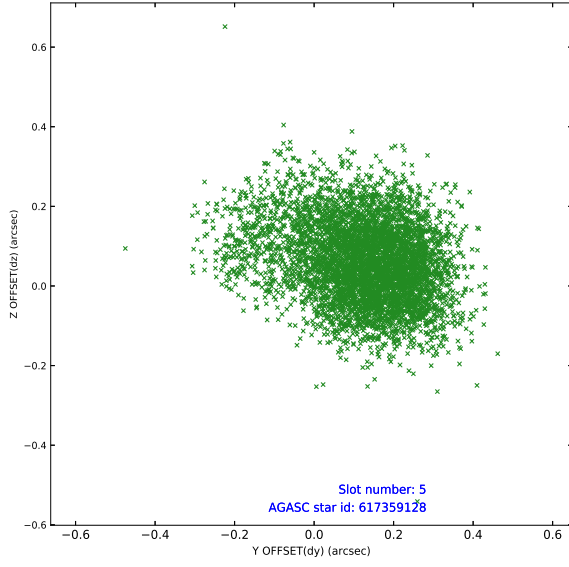
### 2.4.1 Slot 3



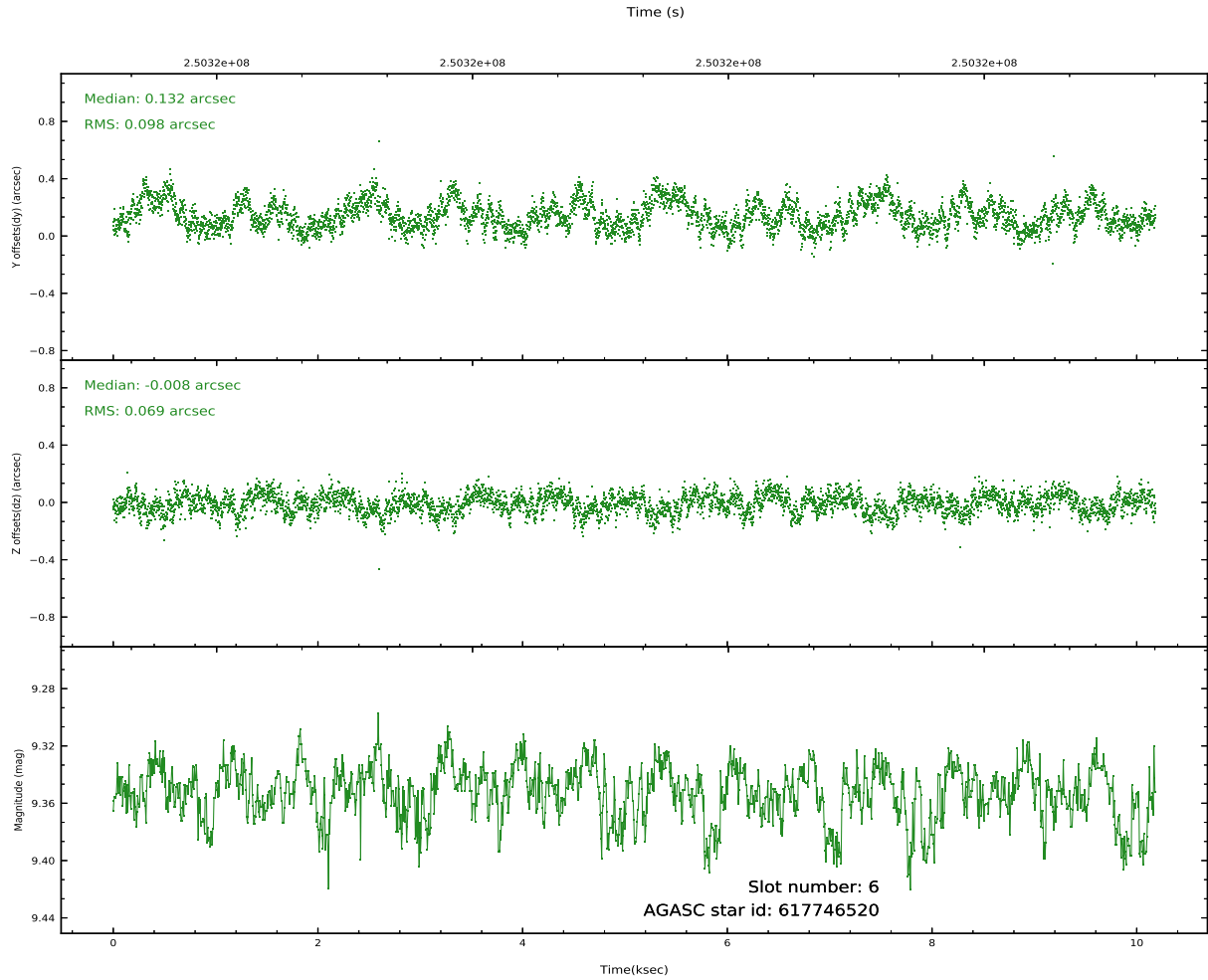
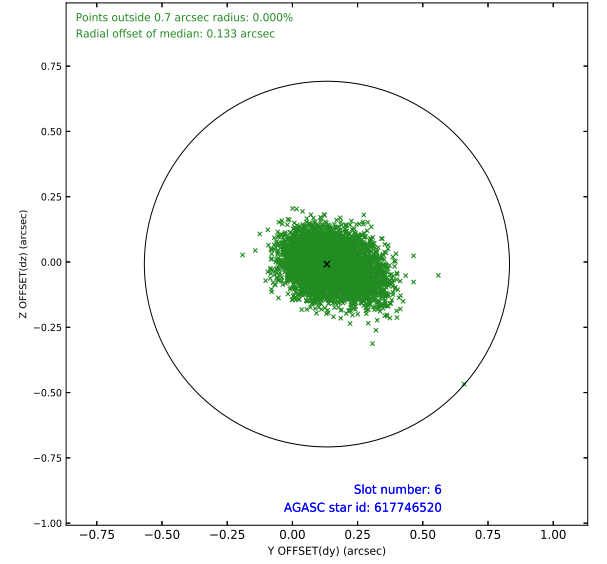
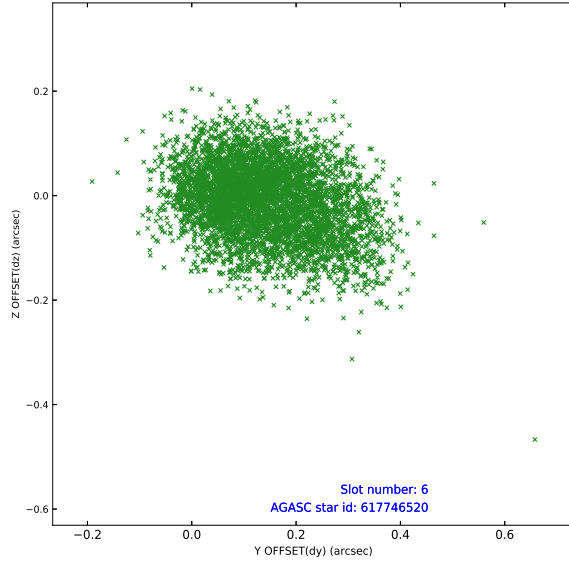
## 2.4.2 Slot 4



### 2.4.3 Slot 5

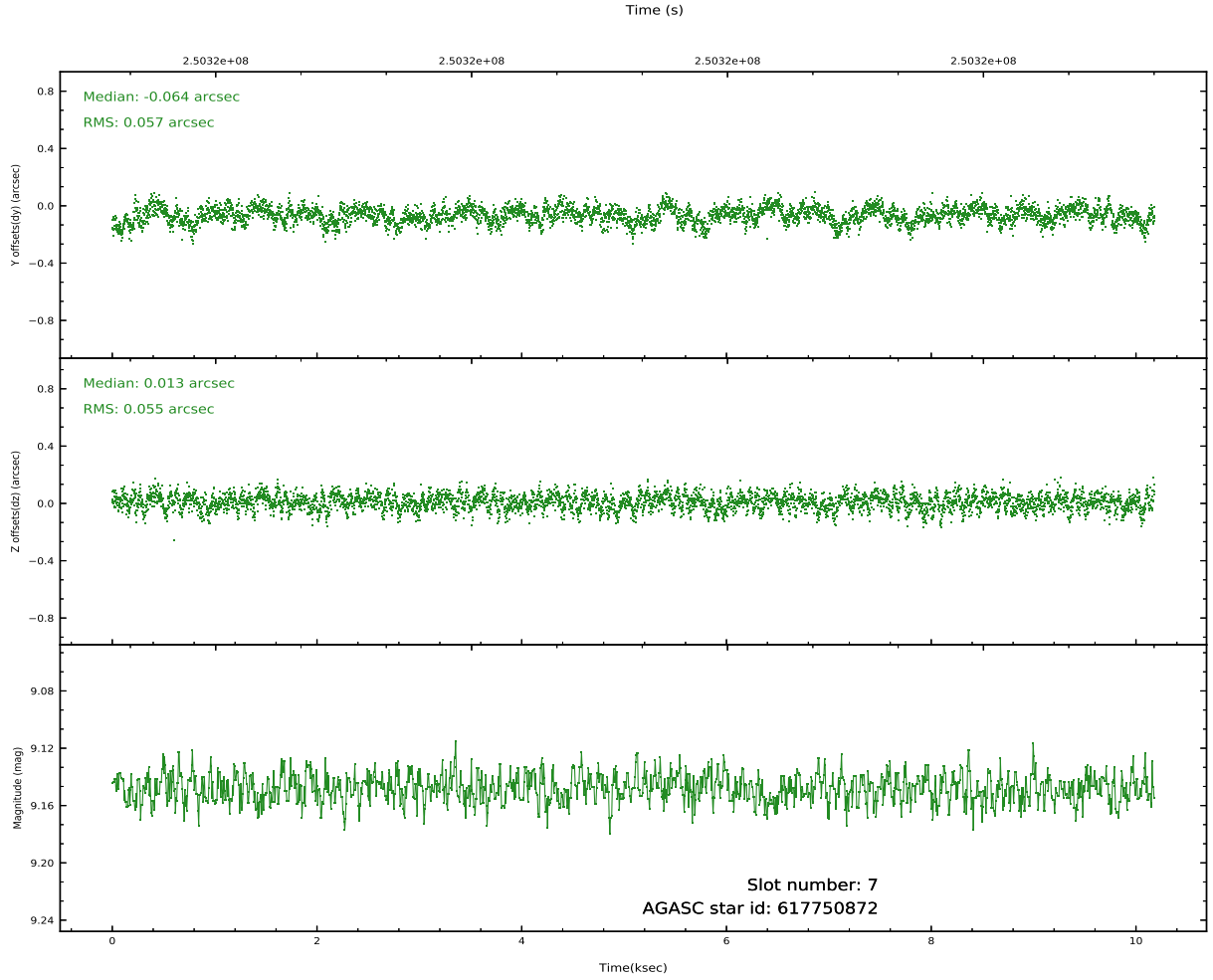
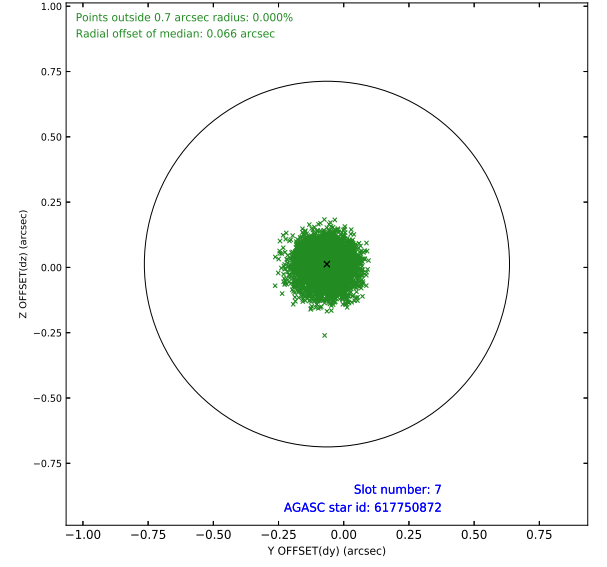
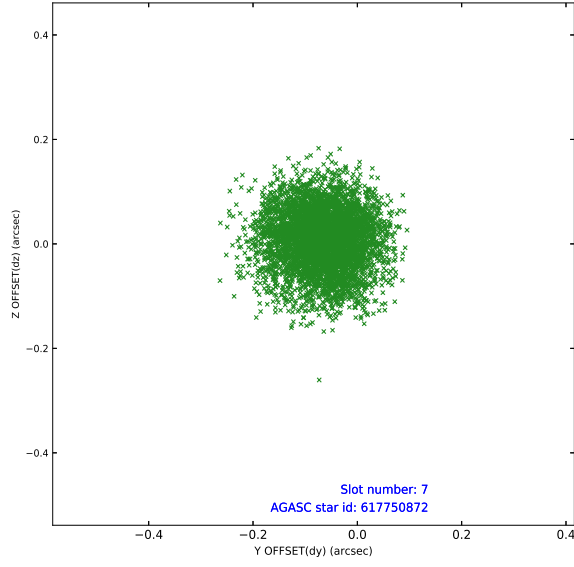


## 2.4.4 Slot 6



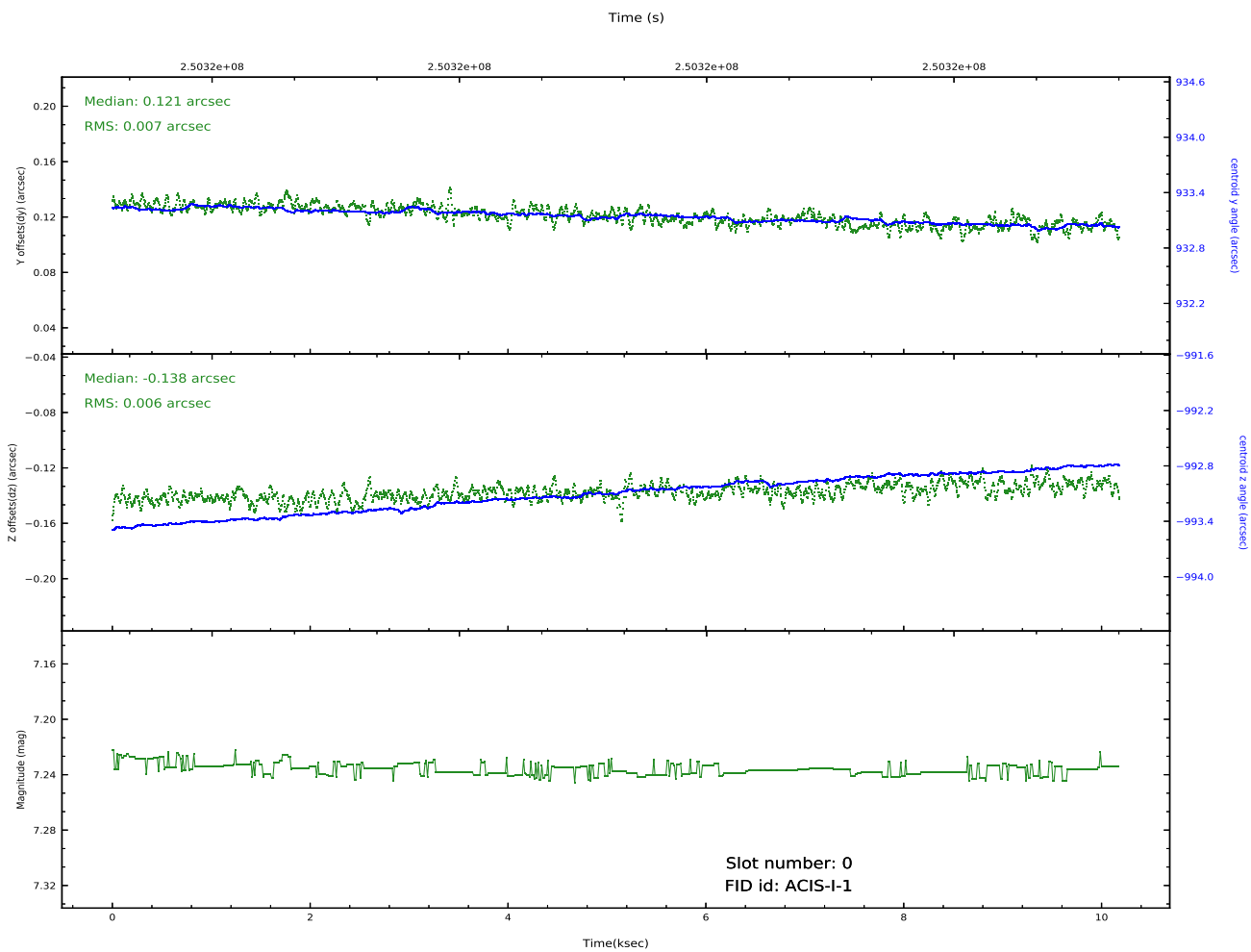
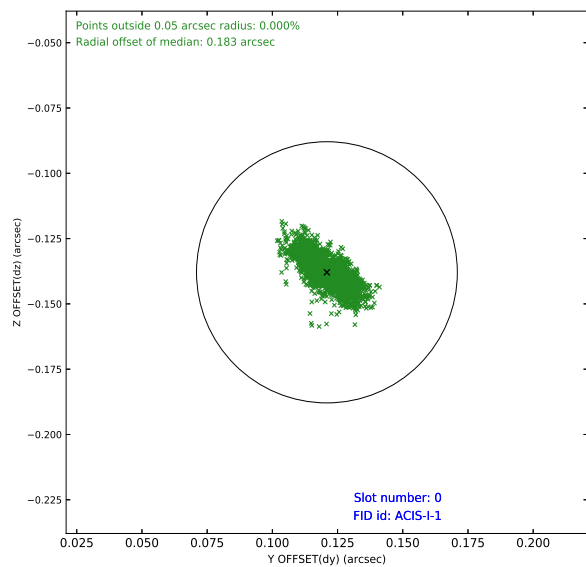
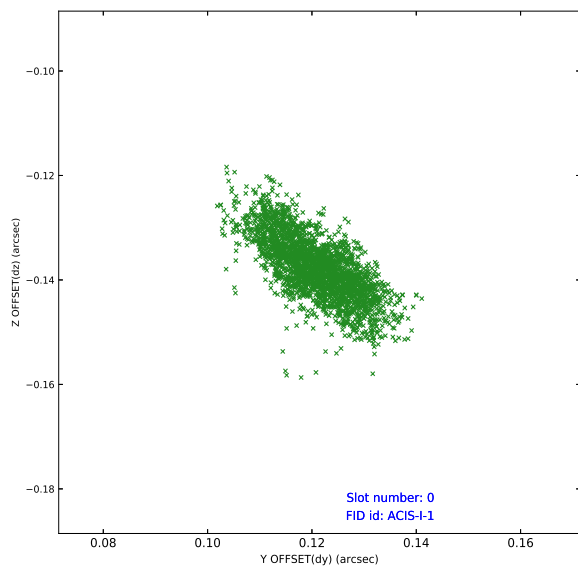


## 2.4.5 Slot 7

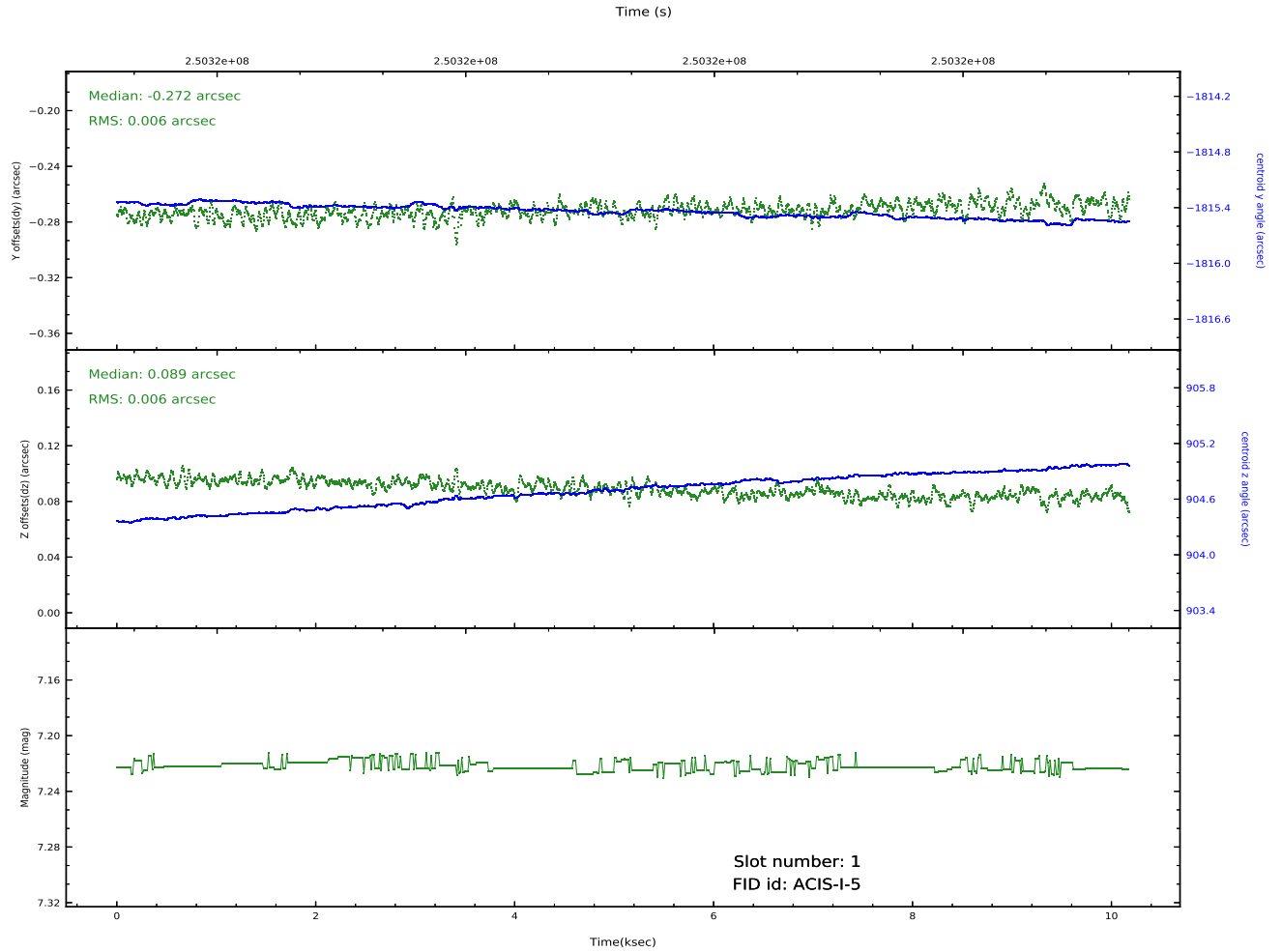
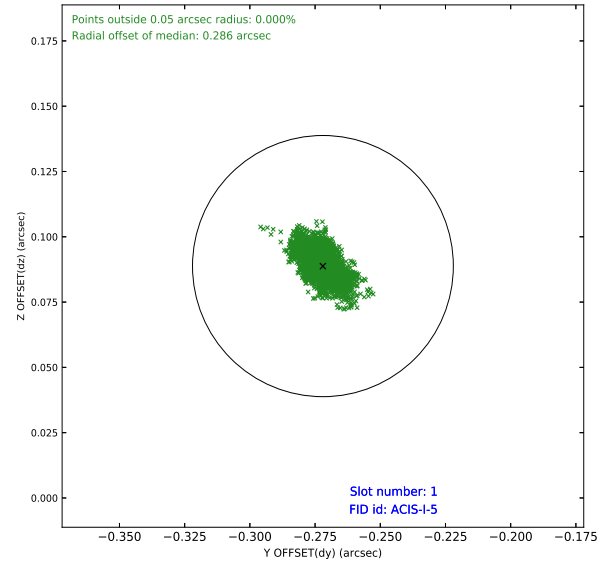
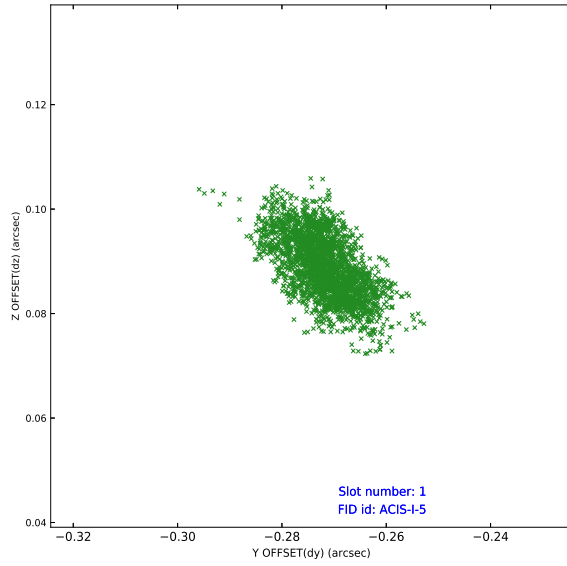


## 2.5 FID Slots

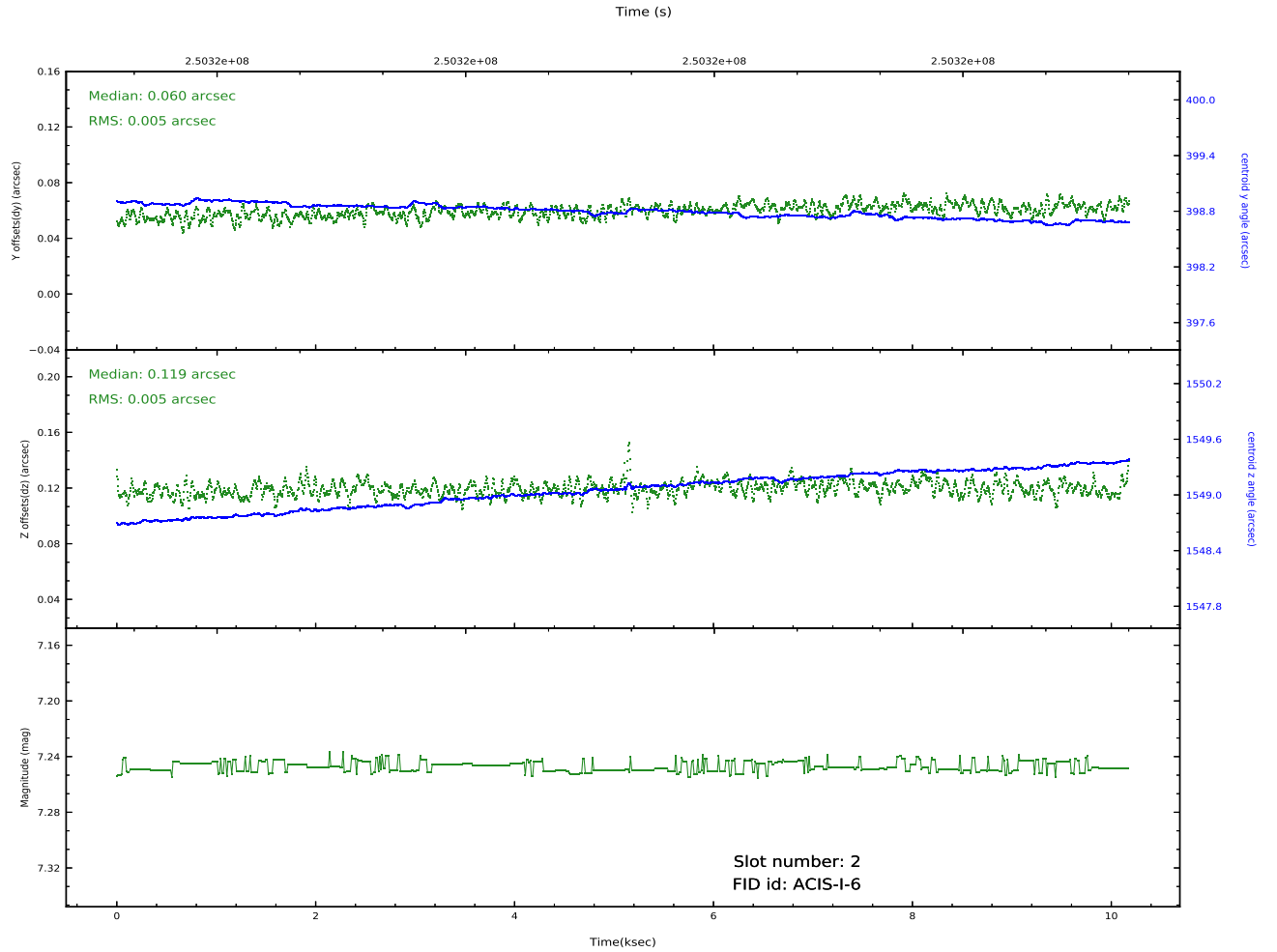
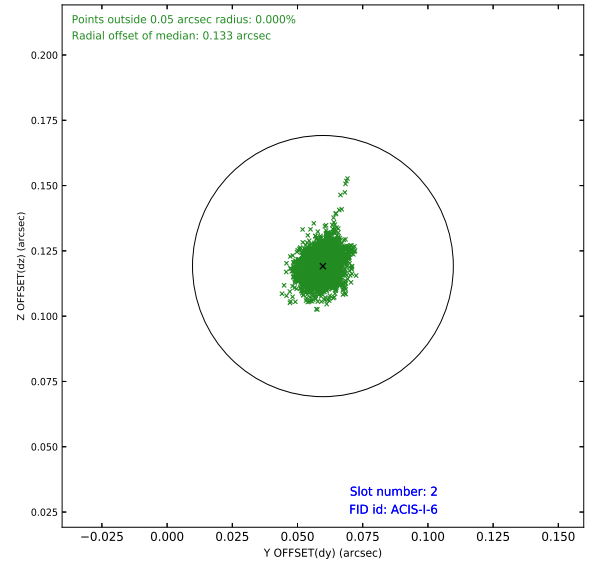
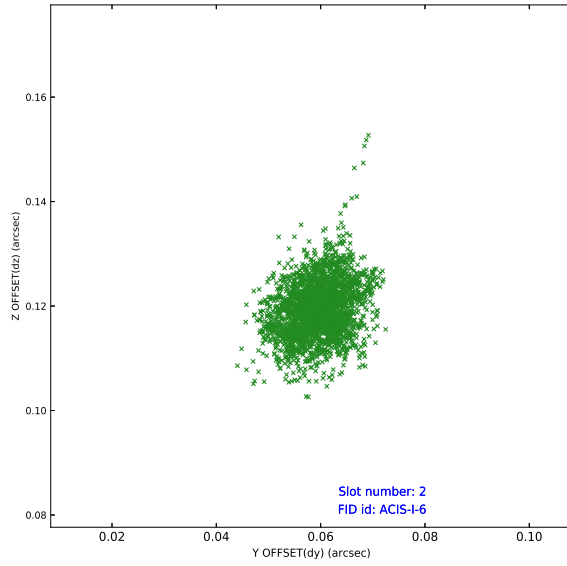
### 2.5.1 Slot 0



## 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)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.17415

### **A.2 Comments**