

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 4927 - L2 Version 5  
Chandra X-Ray Center

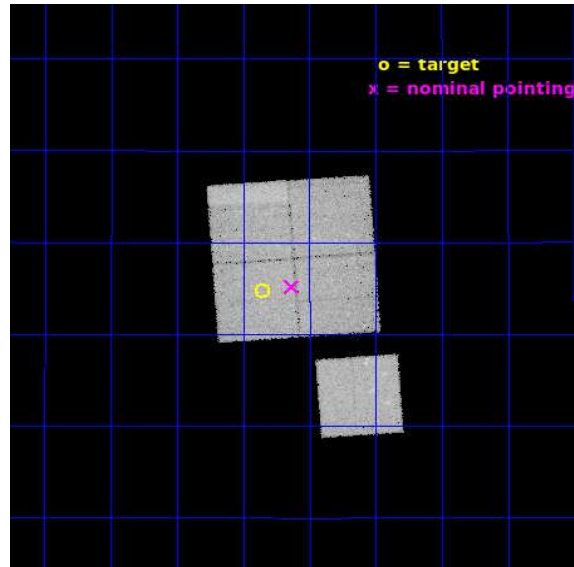
L2 Processing Date : Sep 25 2020

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# 1 Front

seq_num	800378	Sequence number
obs_id	4927	Observation id
title	Chandra snapshot survey of 10 distant clusters of galaxies	Proposa
observer	Dr. Stephen Murray	Principal investigator
object	CIG J1500+2244	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	225.214583	Observer's specified target RA [deg]
dec_targ	22.744722	Observer's specified target Dec [deg]
ra_nom	225.15818754686	Nominal RA [deg]
dec_nom	22.753169771651	Nominal Dec [deg]
roll_nom	175.96898220533	Nominal Roll [deg]
revision	5	Processing version of data
ontime	20184.099961162	Sum of GTIs [s]
livetime	19920.379835851	Livetime [s]
ontime0	20180.958980918	Sum of GTIs [s]
ontime1	20180.958980918	Sum of GTIs [s]
ontime2	20184.099961162	Sum of GTIs [s]
ontime3	20184.099961162	Sum of GTIs [s]
ontime6	20180.958980888	Sum of GTIs [s]
l2events	155554	Number of level 2 events

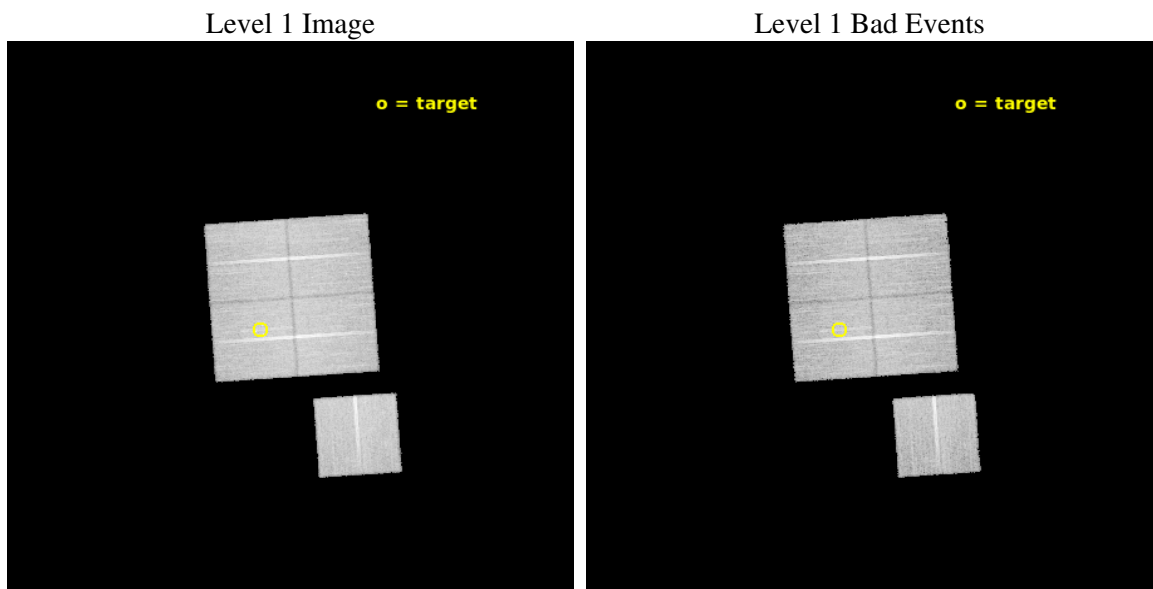




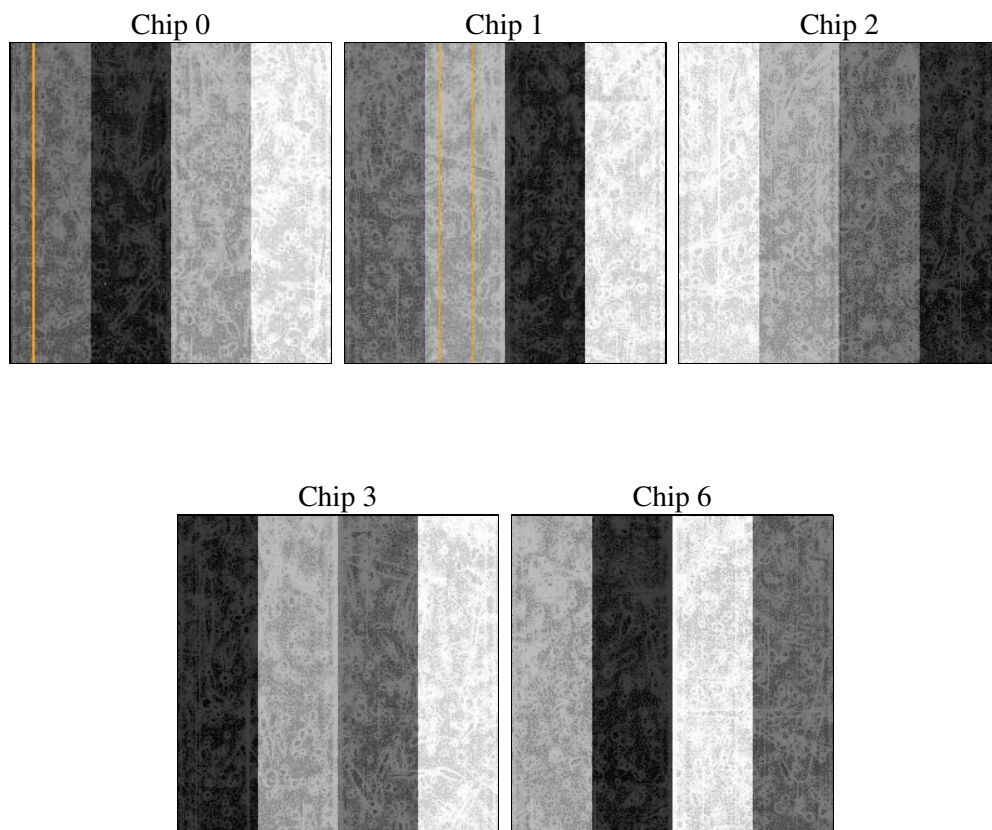
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19999.681000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	20184.099961162	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime0	20180.958980918	Sum of GTIs [s]
date	2020-09-25T18:27:38	Date and time of file creation	ontime1	20180.958980918	Sum of GTIs [s]
revision	5	Processing version of data	ontime2	20184.099961162	Sum of GTIs [s]
			ontime3	20184.099961162	Sum of GTIs [s]
			ontime6	20180.958980888	Sum of GTIs [s]
			l1events	759611	Number of level 1 events

### 2.1.4 Events

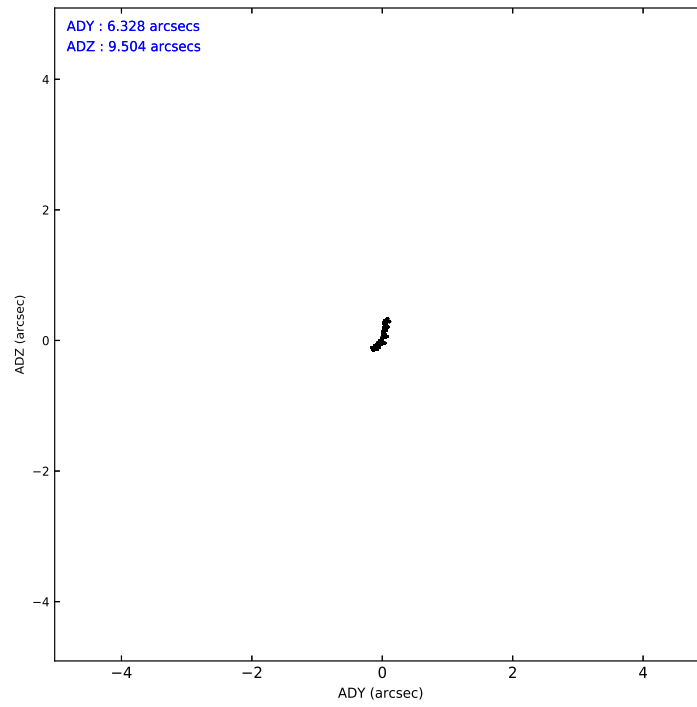
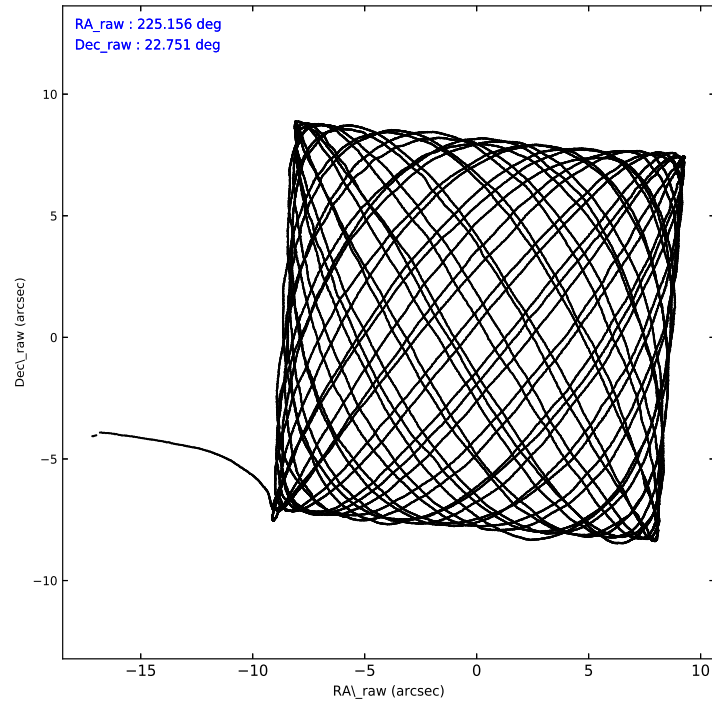
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	142705	149036	157365	154020	156485
rejected events	110546	111353	124997	121328	118680
rejected %	77%	74%	79%	78%	75%

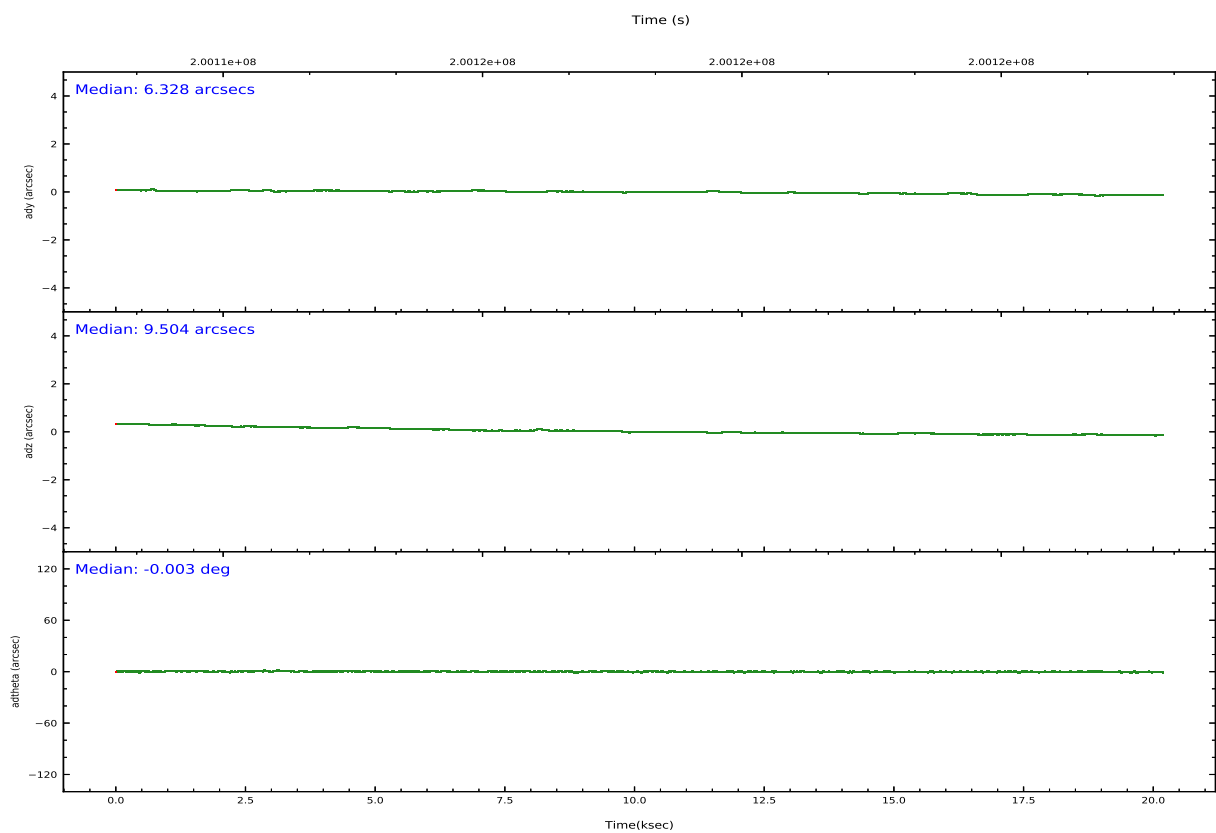
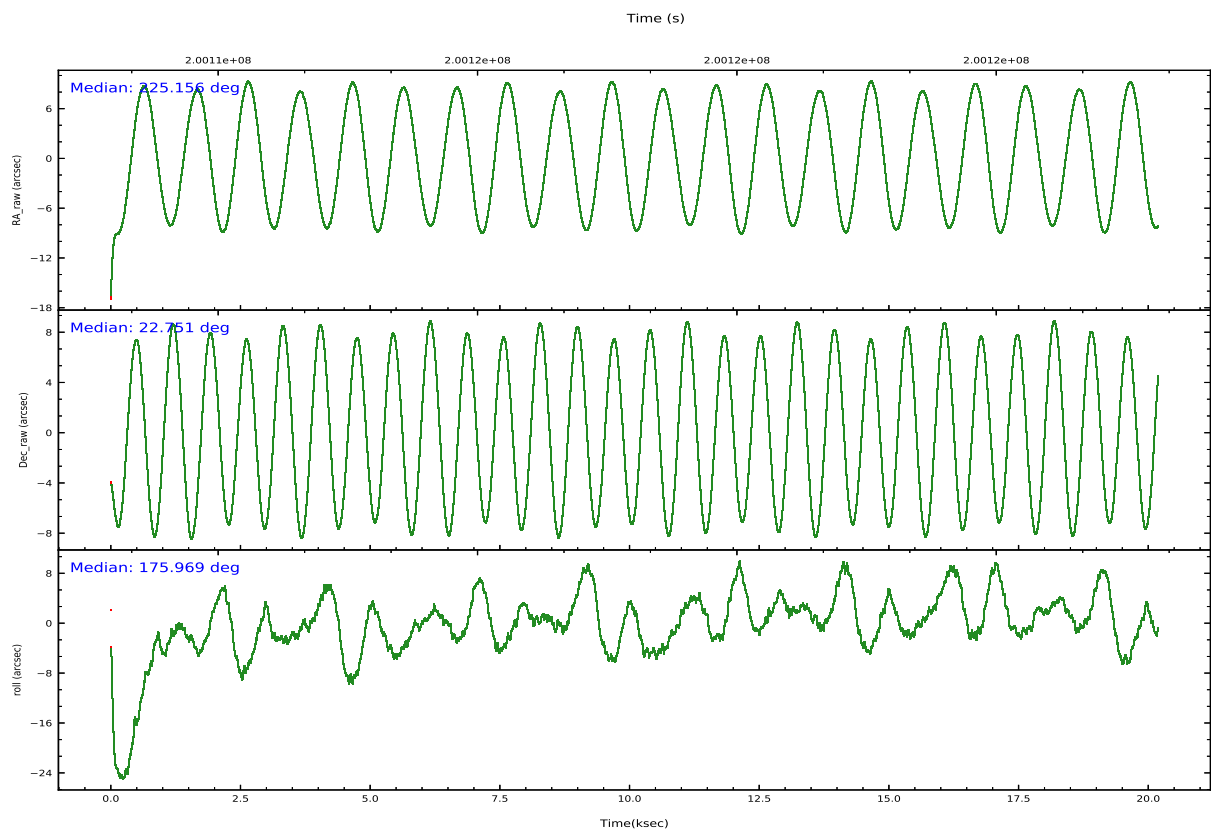
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	18866	23386	19718	19914	23522
	13%	15%	12%	12%	15%
grade 1 events	131	135	151	124	130
	0%	0%	0%	0%	0%
grade 2 events	5623	6275	5488	5294	5762
	3%	4%	3%	3%	3%
grade 3 events	2409	2586	2304	2335	2510
	1%	1%	1%	1%	1%
grade 4 events	2266	2556	2287	2349	2504
	1%	1%	1%	1%	1%
grade 5 events	4609	4850	4326	5192	5136
	3%	3%	2%	3%	3%
grade 6 events	4427	4693	4114	4334	5278
	3%	3%	2%	2%	3%
grade 7 events	104374	104555	118977	114478	111643
	73%	70%	75%	74%	71%

## 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	225.182674	225.15818754686	Subarray requested	NONE	NONE
[deg] Pointing Dec	22.762629	22.753169771651	Alternating exposures requested	N	N
[deg] Pointing Roll	175.746552	175.96898220533	[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)	200108120.184000	200106641.22142			
Observation start date	2004-05-05T01:34:16	2004-05-05T01:10:41			
[s] Observation end time (MET)	200128120.184000	200128434.77239			
Observation end date	2004-05-05T07:07:36	2004-05-05T07:13:54			
Read mode	TIMED	TIMED			

## 2.3 Aspect



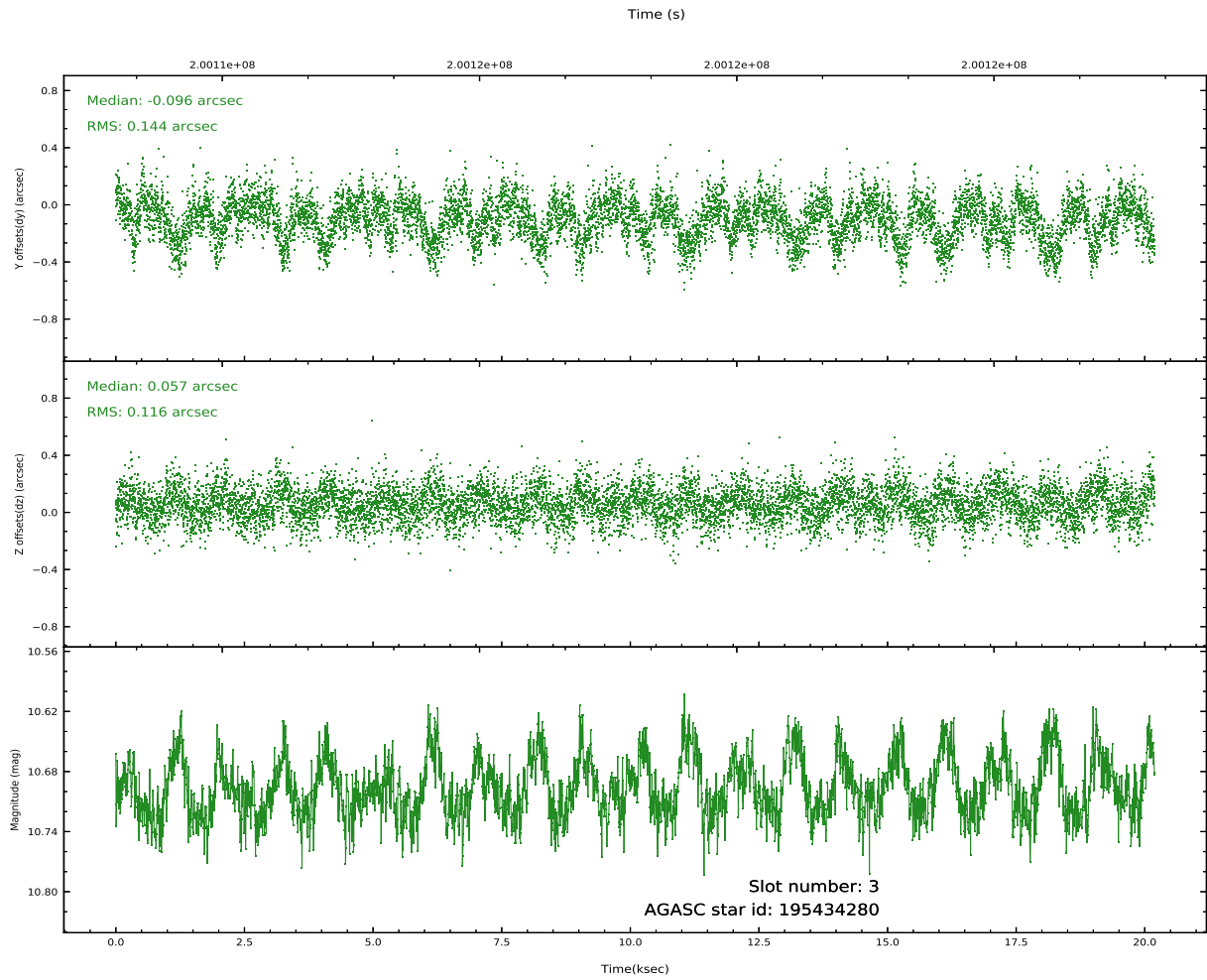
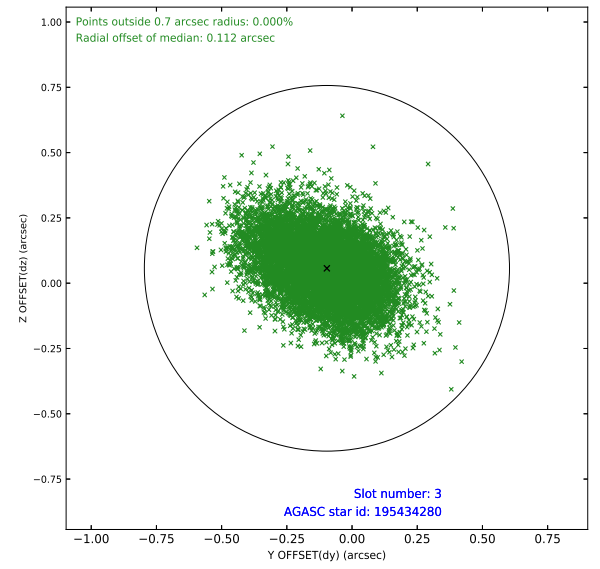
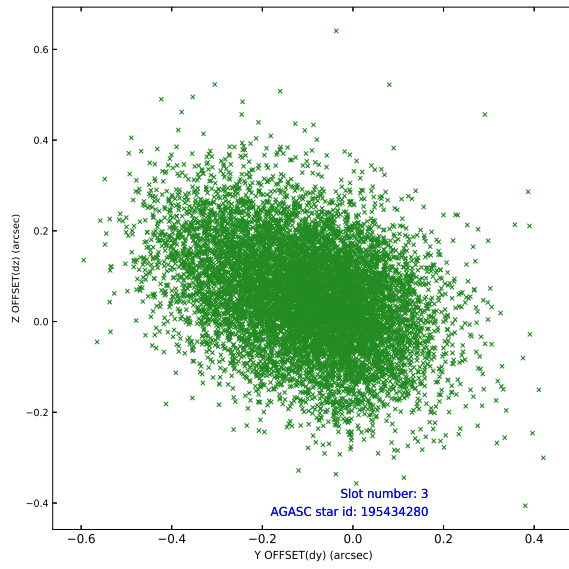


Slot Statistics

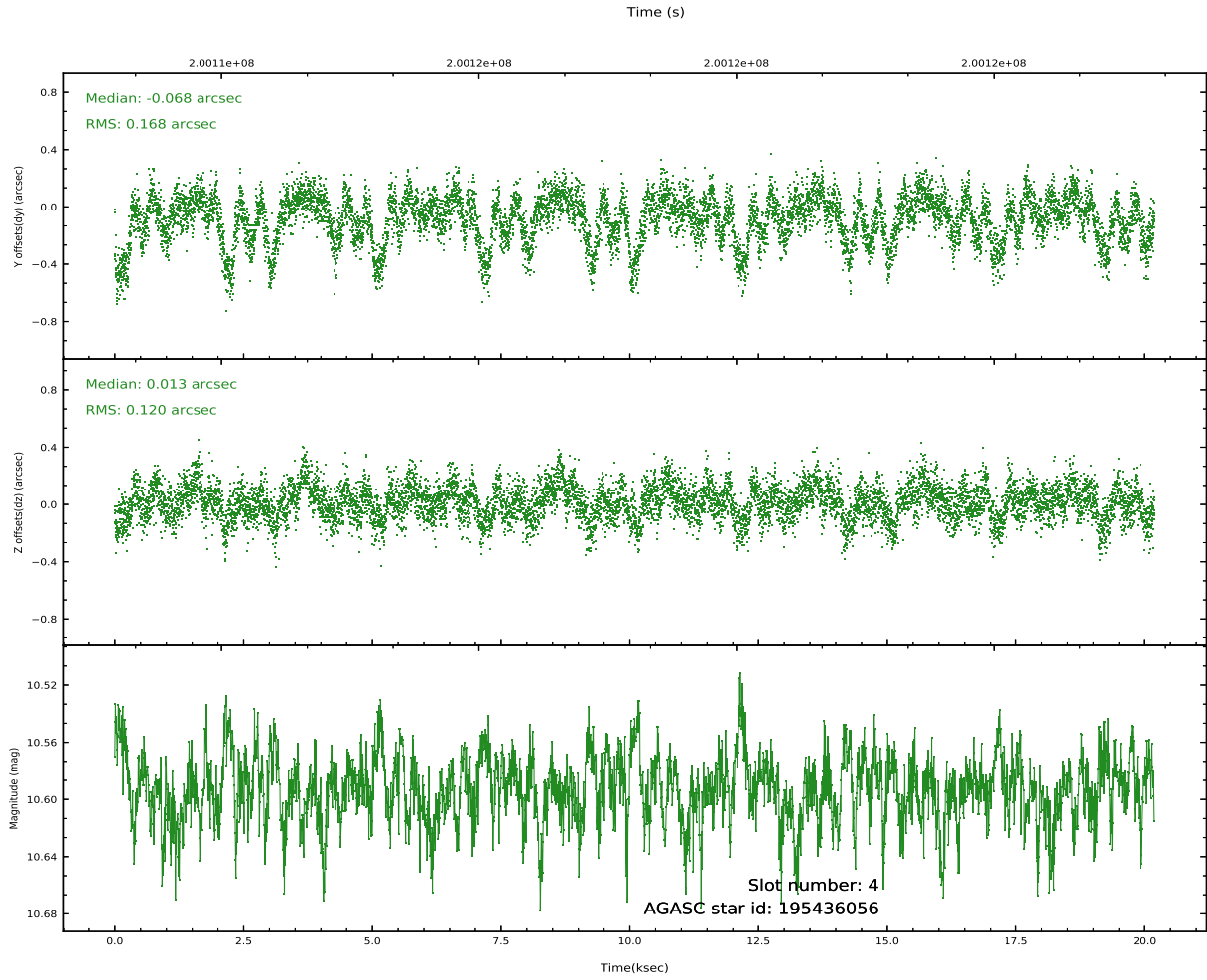
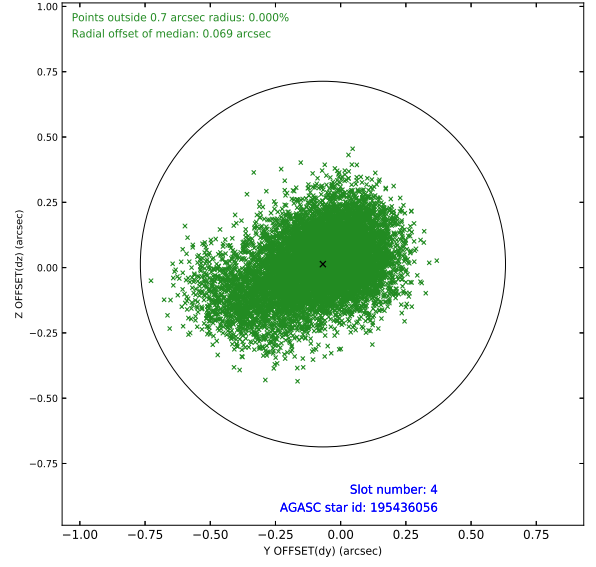
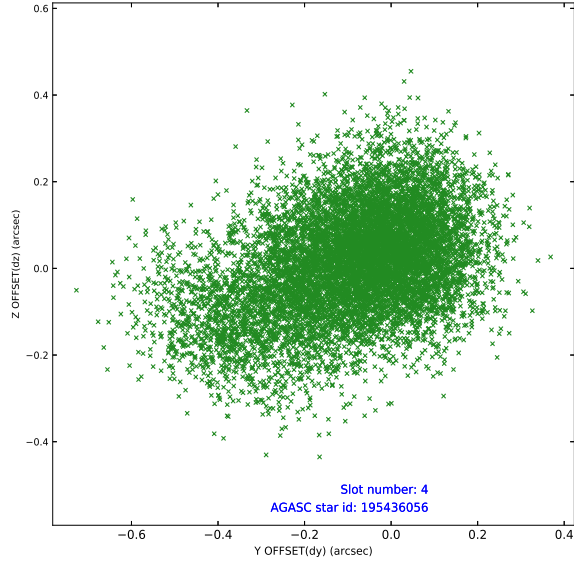
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.23	4925	1.000	0.096	-0.096	0.007	0.011	0.000000	0.000000	933.35	-992
1	FID		ACIS-I-5	7.22	4925	1.000	-0.263	0.073	0.007	0.011	0.000000	0.000000	-1815.03	905
2	FID		ACIS-I-6	7.25	4924	1.000	0.076	0.093	0.008	0.012	0.000000	0.000000	398.65	1550
3	GUIDE	used	195434280	10.70	9824	1.000	-0.096	0.057	0.194	0.324	225.697331	22.305754	-1831.07	1510
4	GUIDE	used	195436056	10.59	9832	1.000	-0.068	0.013	0.209	0.380	225.528542	22.448947	-1231.46	1039
5	GUIDE	used	264380256	9.37	9848	1.000	-0.105	0.036	0.107	0.167	225.047020	22.669639	424.42	367
6	GUIDE	used	264380752	10.23	9841	1.000	0.106	-0.021	0.196	0.305	224.720923	22.632014	1495.62	580
7	GUIDE	used	264378848	10.35	9837	1.000	0.193	-0.081	0.162	0.260	225.024041	22.696682	508.29	275

## 2.4 Star Slots

### 2.4.1 Slot 3

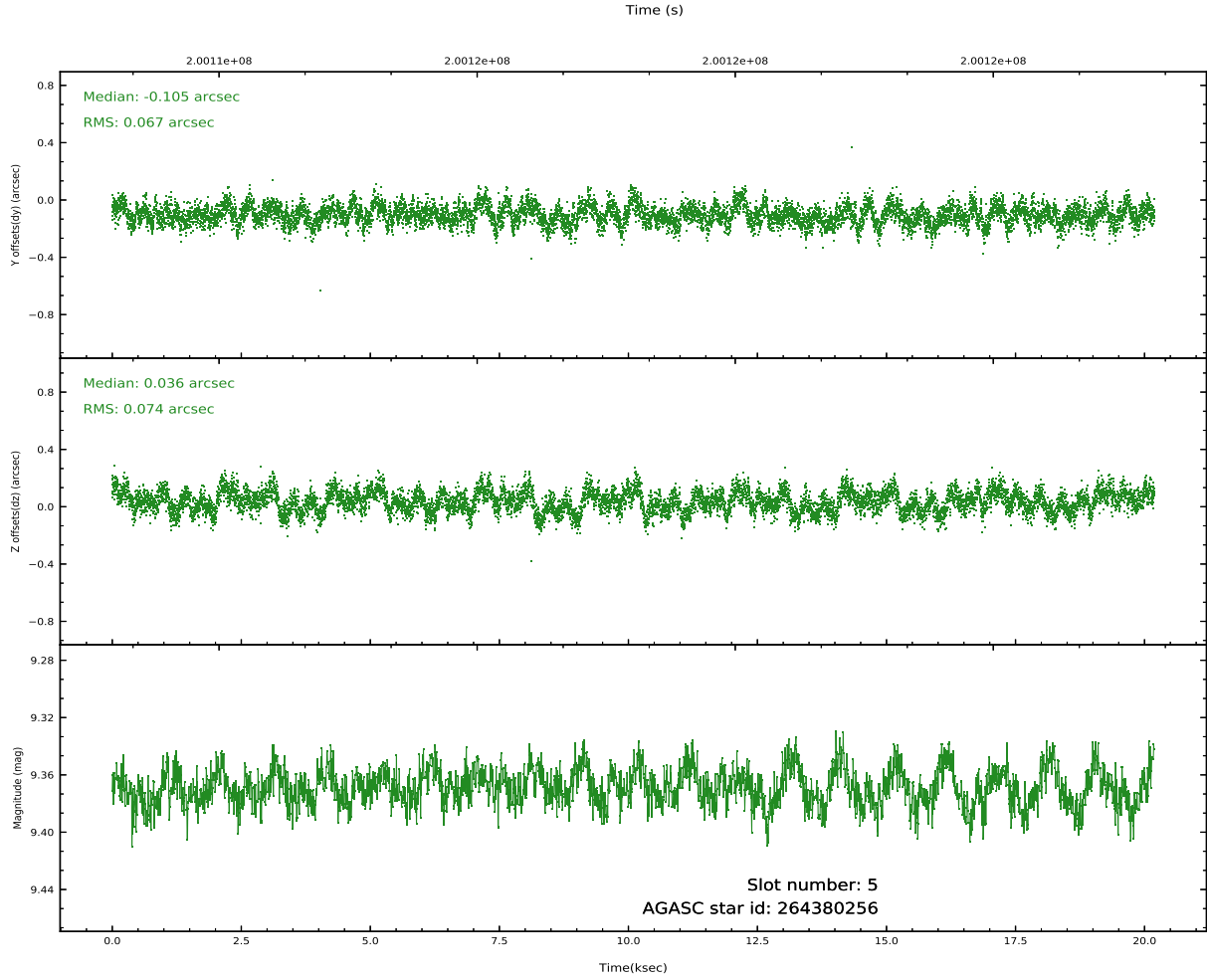
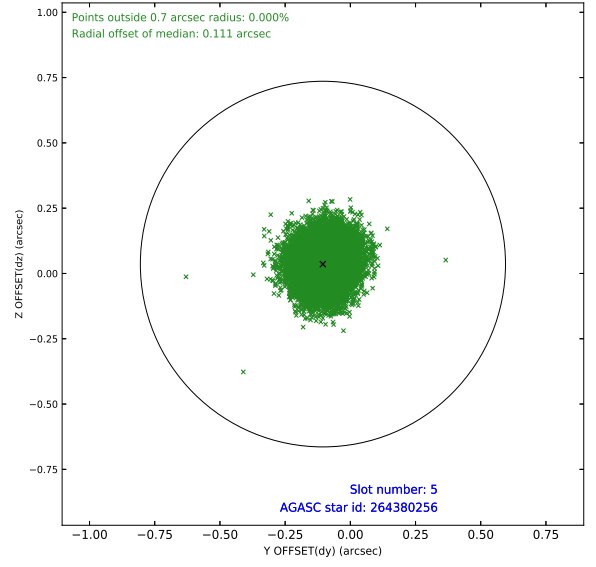
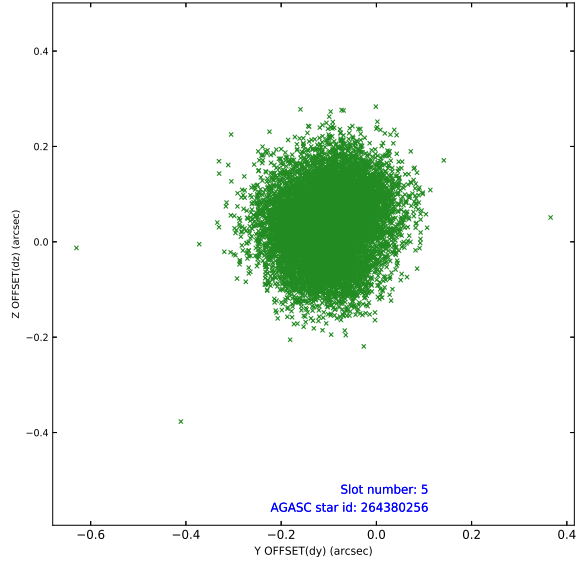


## 2.4.2 Slot 4

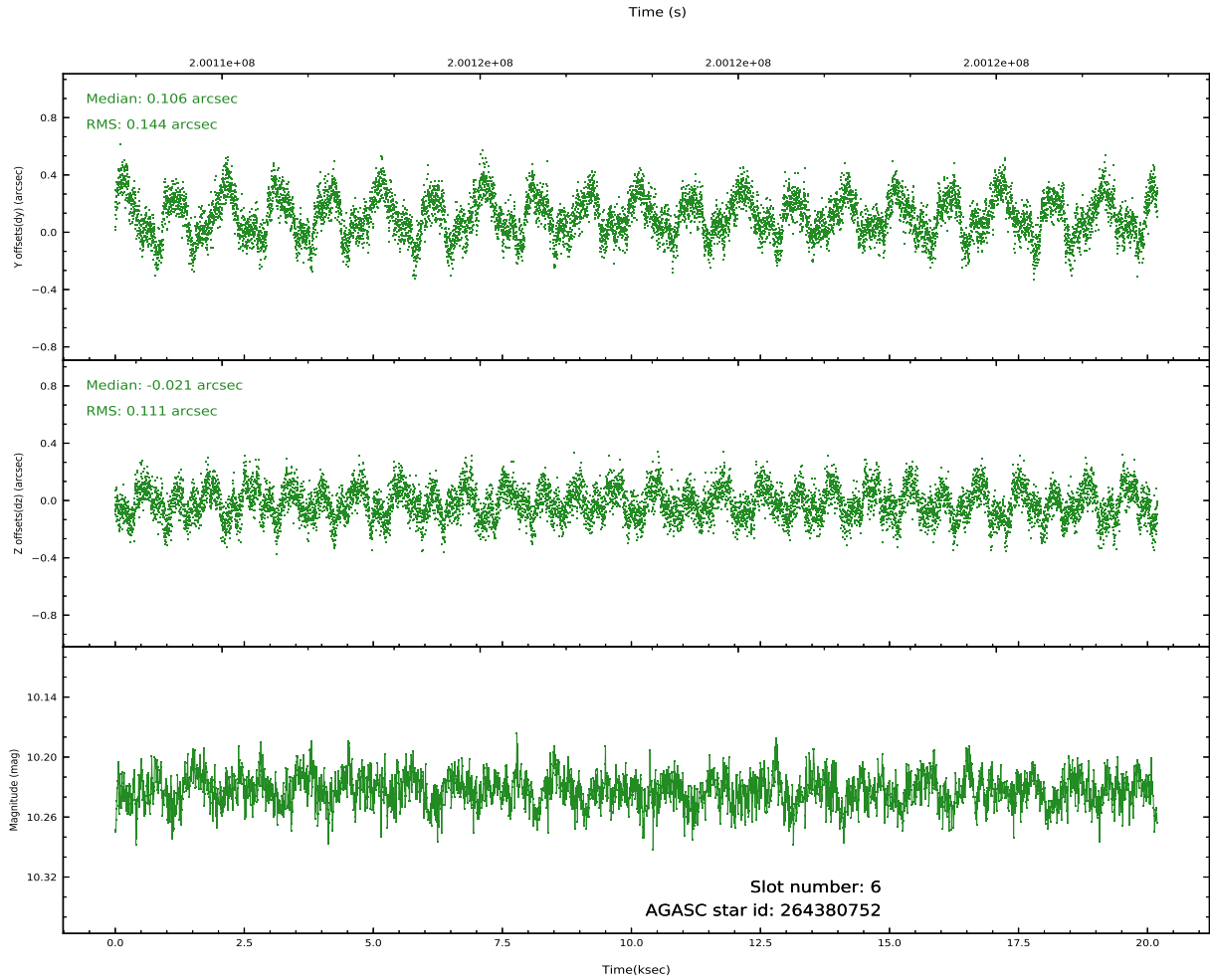
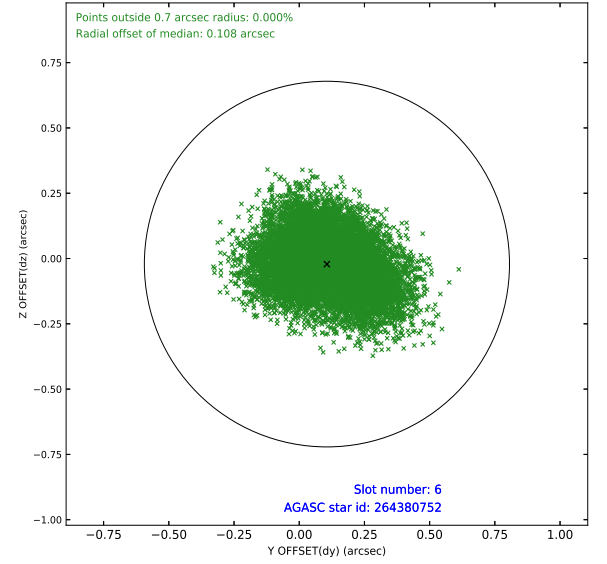
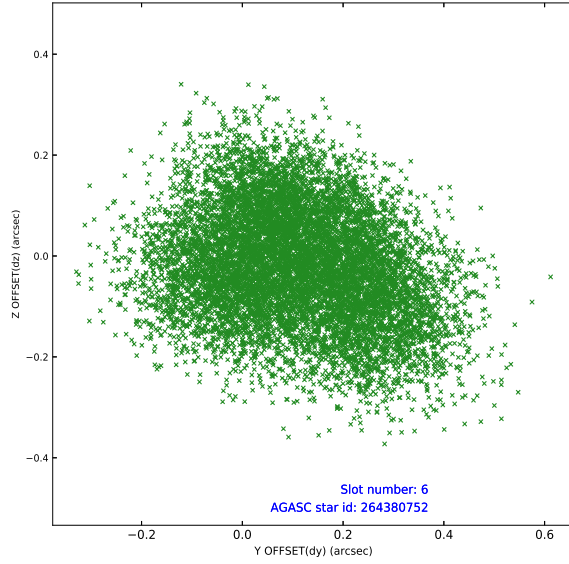




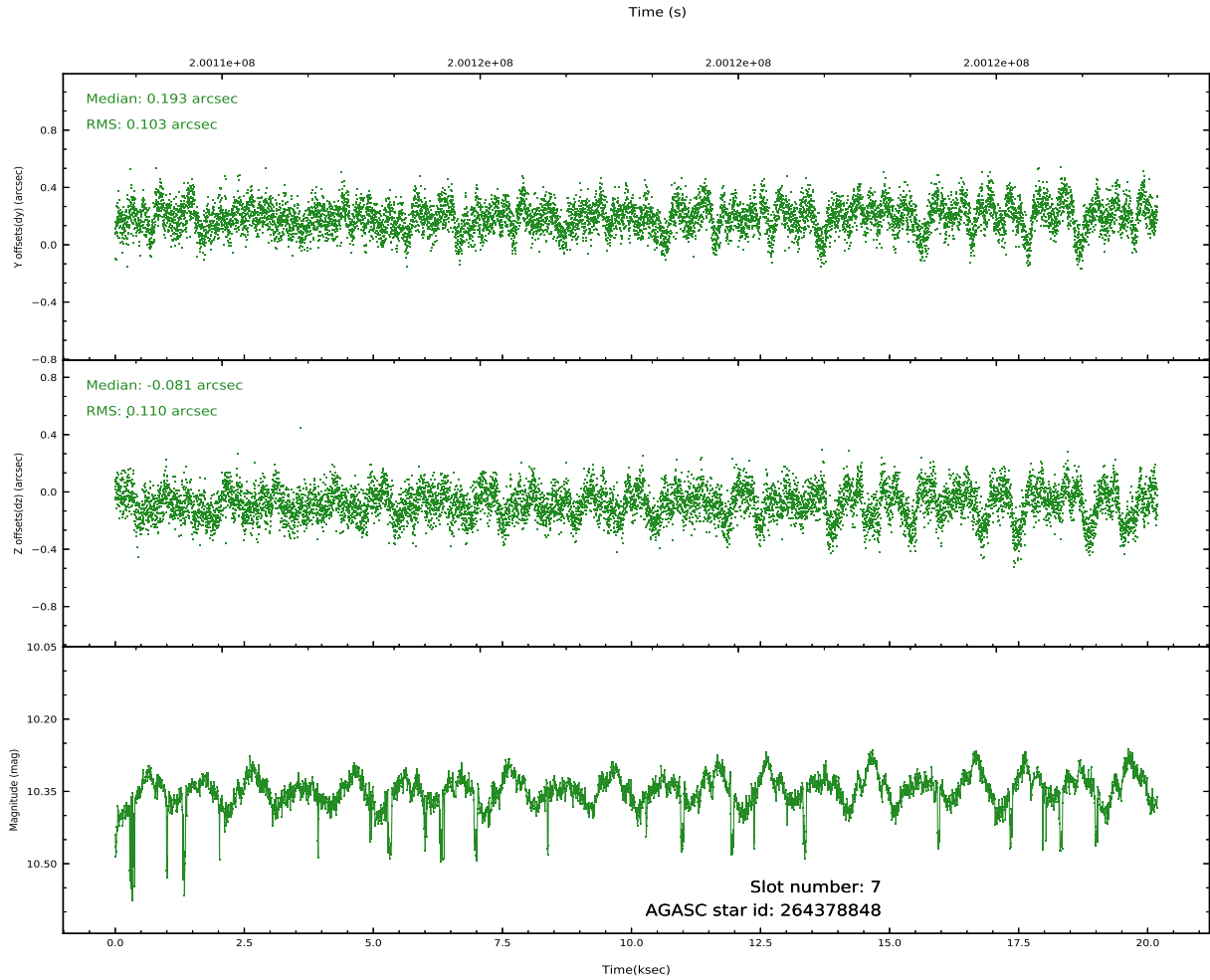
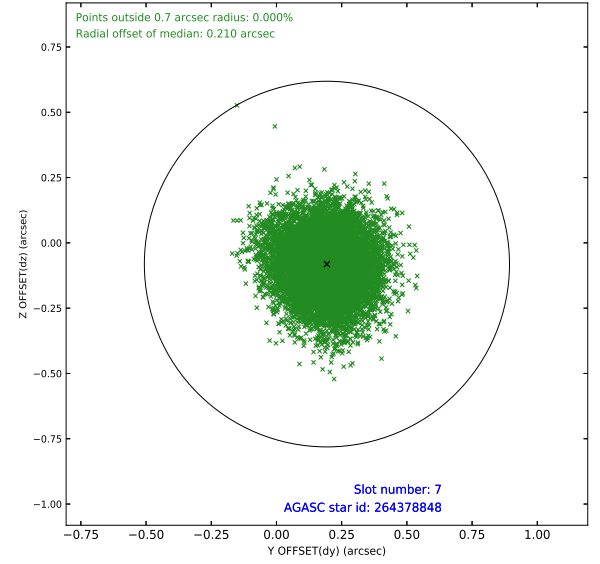
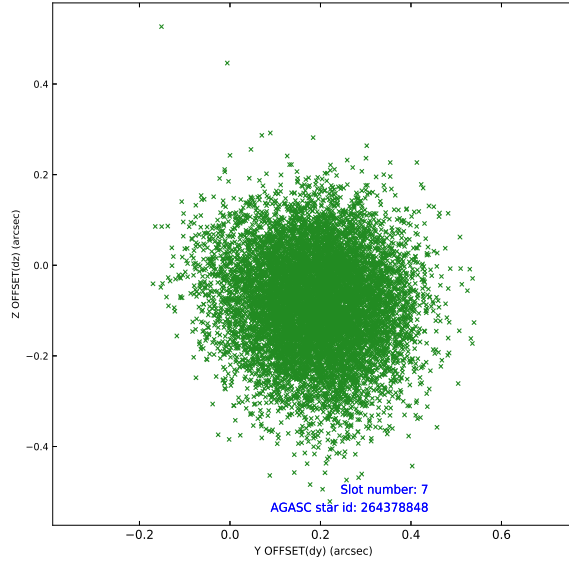
### 2.4.3 Slot 5



## 2.4.4 Slot 6

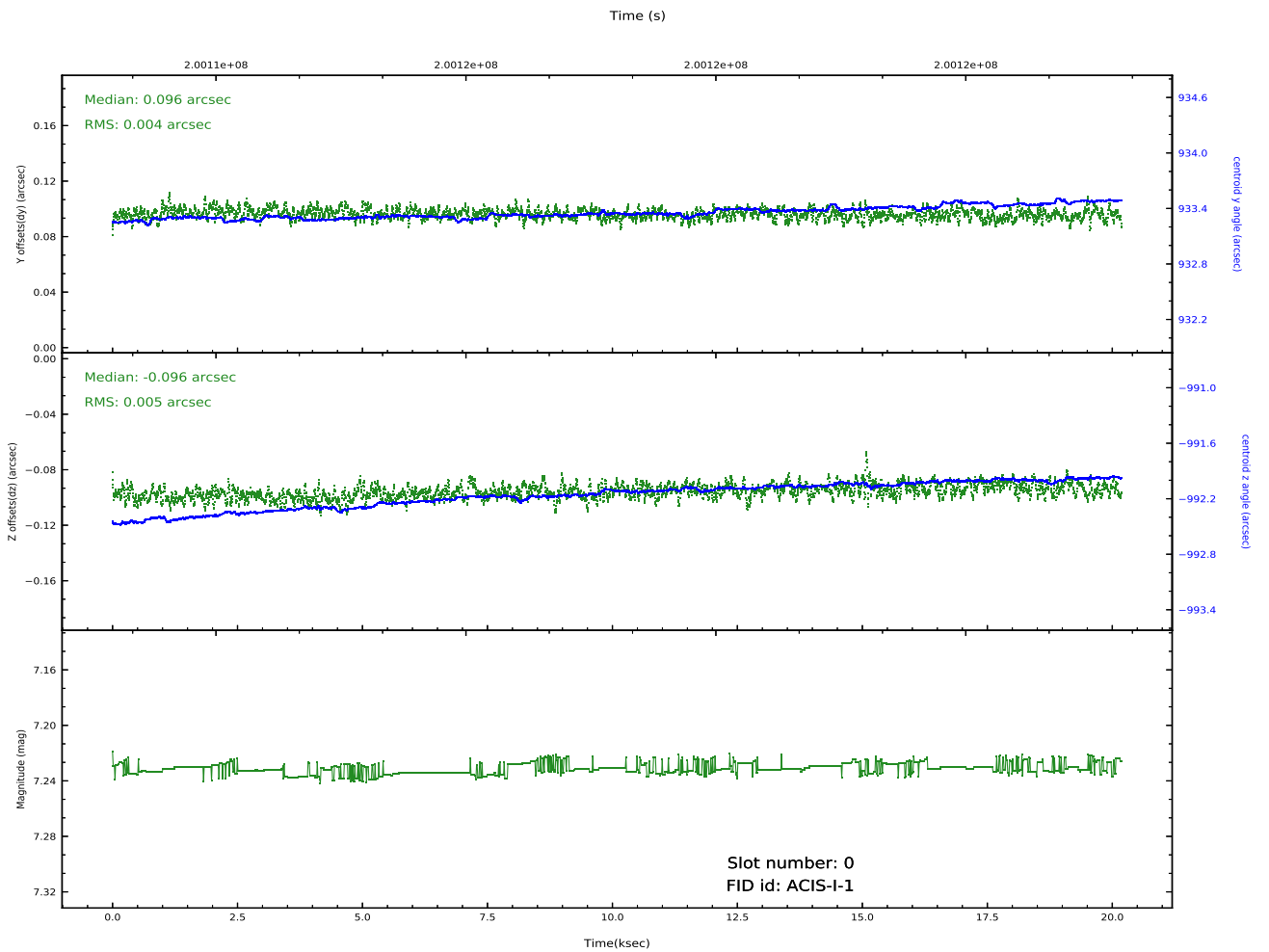
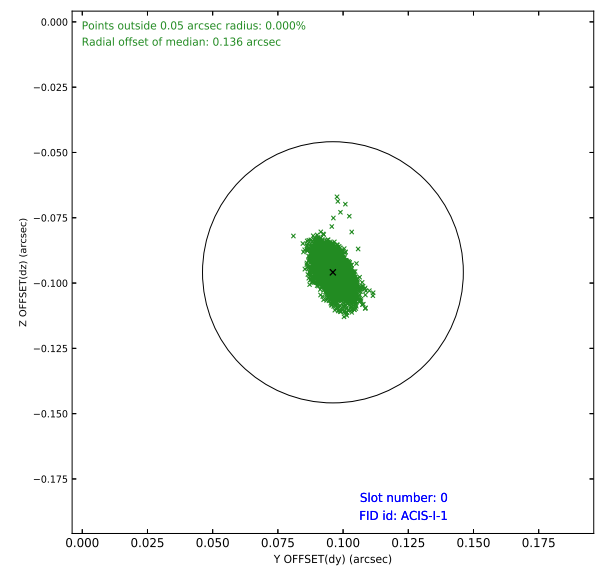
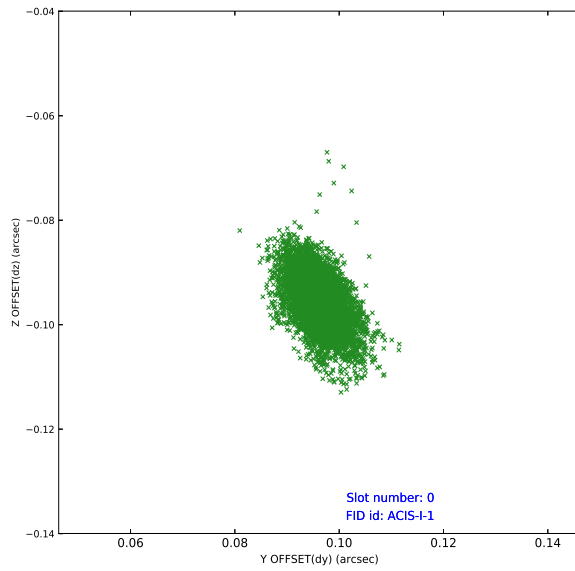


## 2.4.5 Slot 7

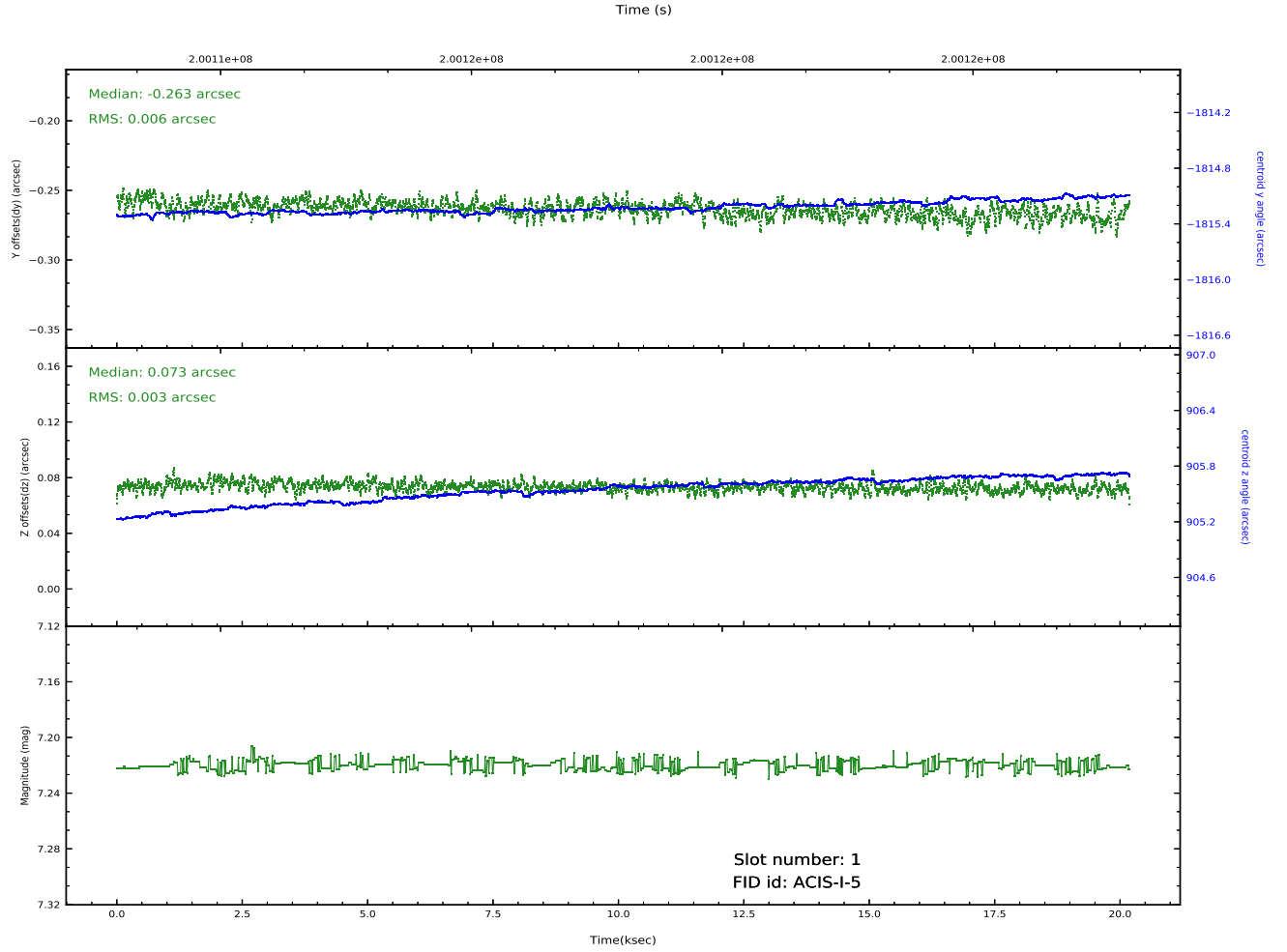
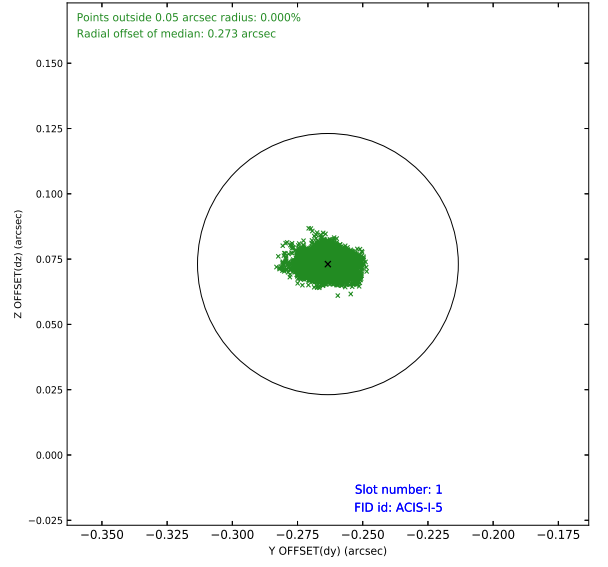
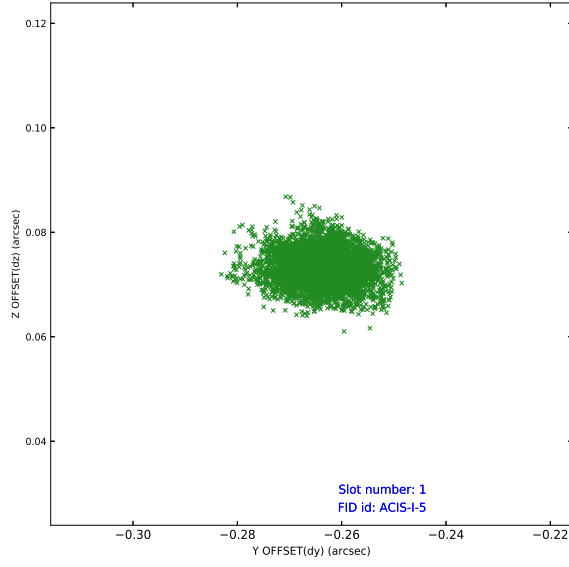


## 2.5 FID Slots

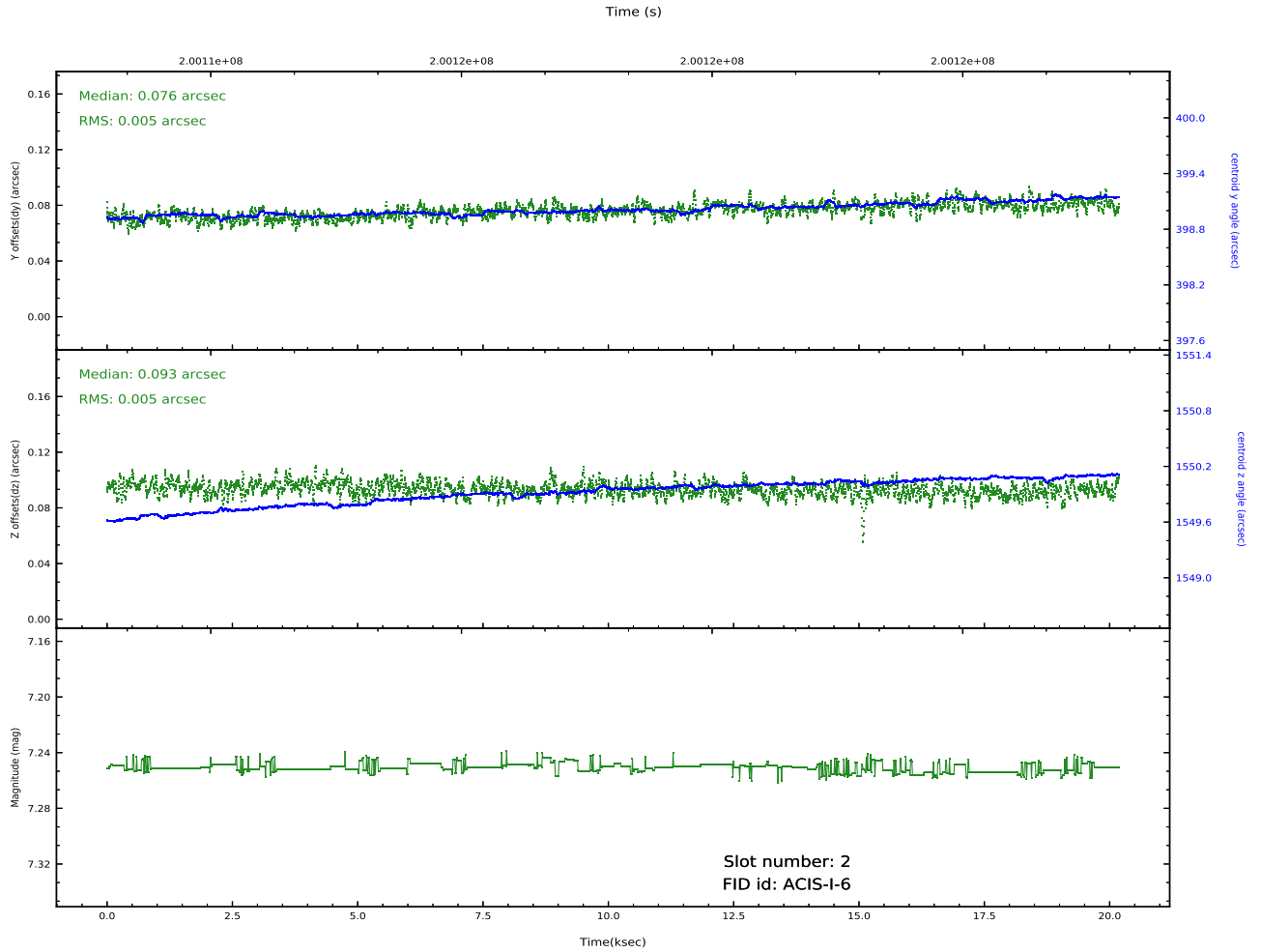
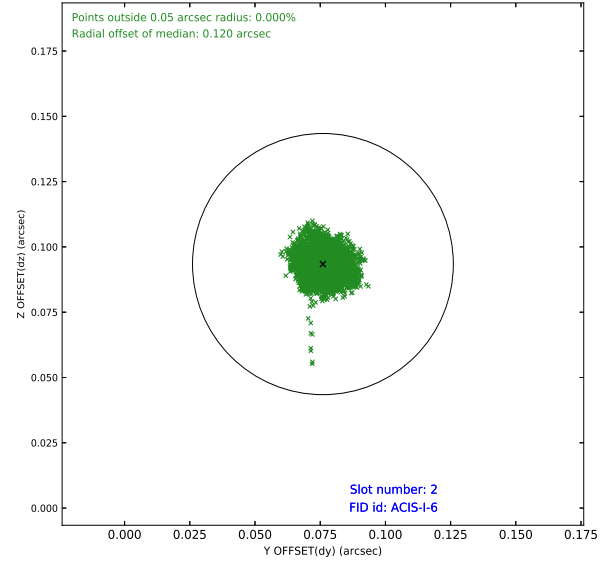
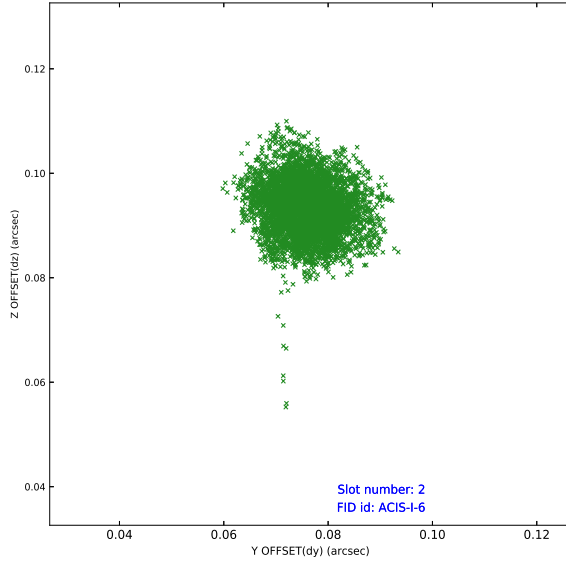
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.184

### A.2 Comments