

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5374 - L2 Version 4  
Chandra X-Ray Center

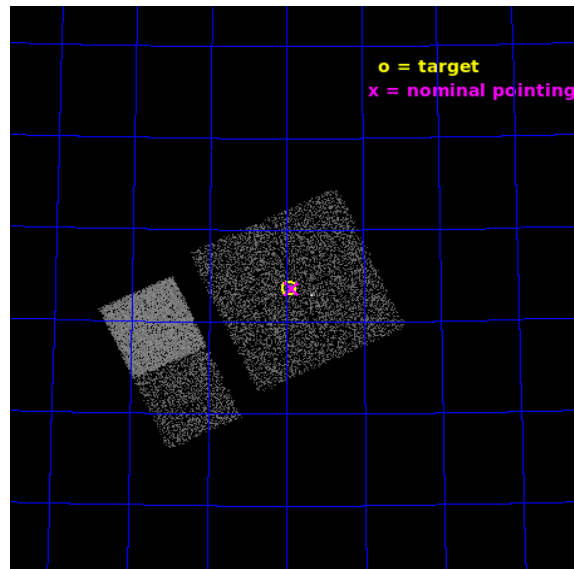
L2 Processing Date : Oct 5 2020

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# 1 Front

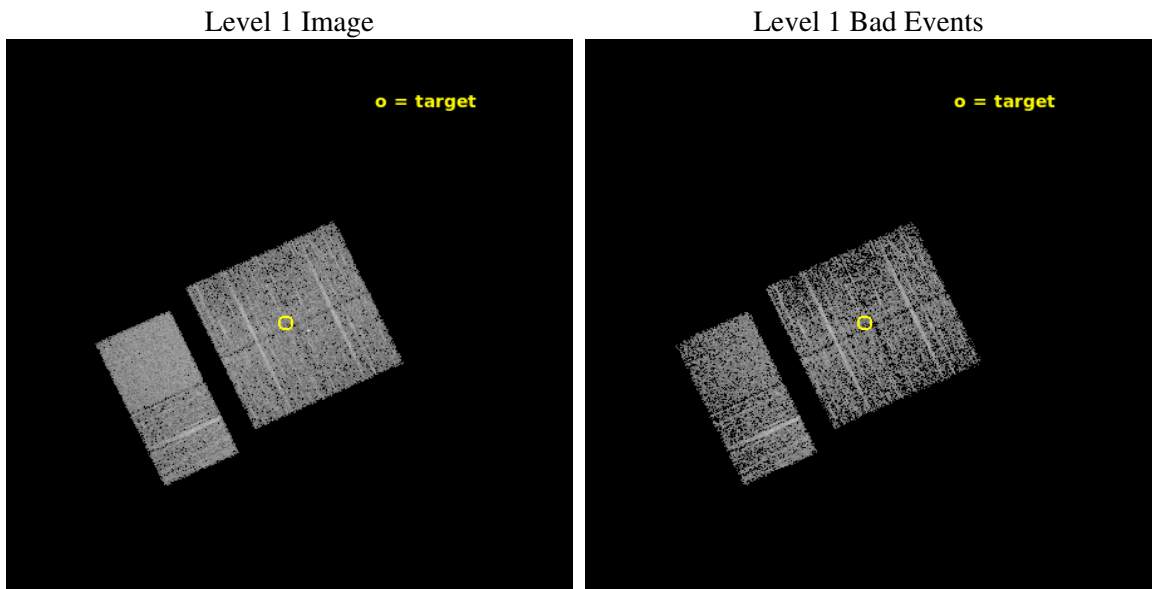
seq_num	200309	Sequence number
obs_id	5374	Observation id
title	Search for beta Pic analogs	Proposal title
observer	Gordon Garmire	Principal investigator
object	HR 932	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	47.984167	Observer's specified target RA [deg]
dec_targ	74.393889	Observer's specified target Dec [deg]
ra_nom	47.965524201091	Nominal RA [deg]
dec_nom	74.393767829788	Nominal Dec [deg]
roll_nom	244.87200980369	Nominal Roll [deg]
revision	4	Processing version of data
ontime	2962.126886934	Sum of GTIs [s]
livetime	2924.618652713	Livetime [s]
ontime0	2962.0037669539	Sum of GTIs [s]
ontime1	2962.0448069274	Sum of GTIs [s]
ontime2	2962.0858469307	Sum of GTIs [s]
ontime3	2962.126886934	Sum of GTIs [s]
ontime6	2962.2089669406	Sum of GTIs [s]
ontime7	2962.1679269373	Sum of GTIs [s]
l2events	21938	Number of level 2 events



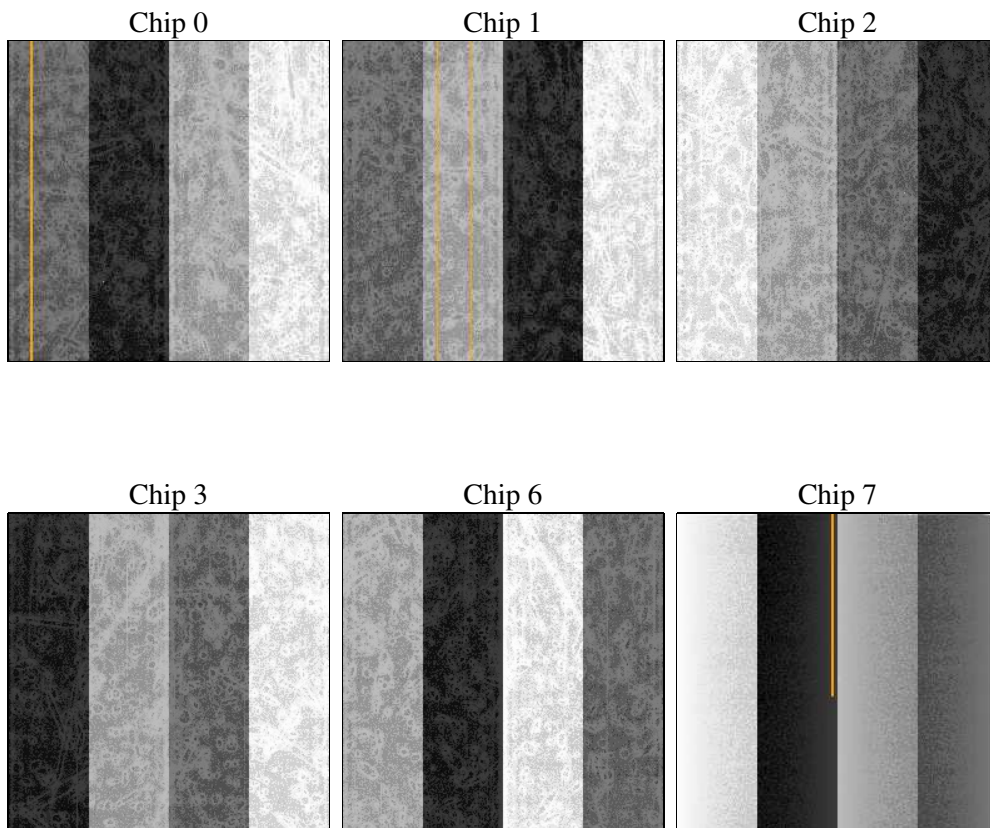
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	2962.126886934	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime0	2962.0037669539	Sum of GTIs [s]
date	2020-10-06T02:42:57	Date and time of file creation	ontime1	2962.0448069274	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	2962.0858469307	Sum of GTIs [s]
			ontime3	2962.126886934	Sum of GTIs [s]
			ontime6	2962.2089669406	Sum of GTIs [s]
			ontime7	2962.1679269373	Sum of GTIs [s]
			l1events	126102	Number of level 1 events

### 2.1.4 Events

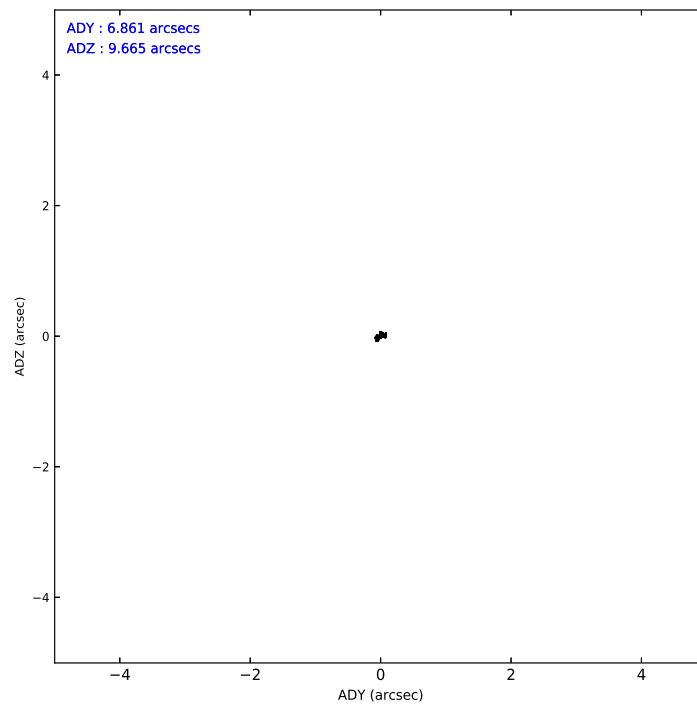
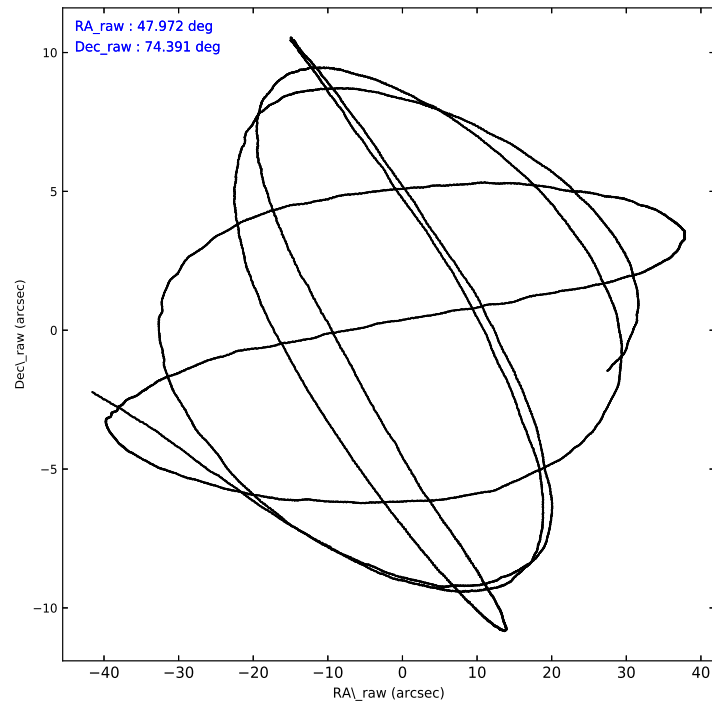
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	18742	19036	19908	19915	21208	27293	grade 0 events	1401	940	1075	1039	909	987
rejected events	15841	16563	17464	17532	18785	15958		7%	4%	5%	5%	4%	3%
rejected %	84%	87%	87%	88%	88%	58%	grade 1 events	19	4	23	5	9	31
								0%	0%	0%	0%	0%	0%
							grade 2 events	601	592	517	472	501	2255
								3%	3%	2%	2%	2%	8%
							grade 3 events	275	229	248	208	268	1008
								1%	1%	1%	1%	1%	3%
							grade 4 events	196	273	210	249	246	1042
								1%	1%	1%	1%	1%	3%
							grade 5 events	868	837	765	882	947	2633
								4%	4%	3%	4%	4%	9%
							grade 6 events	429	447	399	415	500	6051
								2%	2%	2%	2%	2%	22%
							grade 7 events	14953	15714	16671	16645	17828	13286
								79%	82%	83%	83%	84%	48%

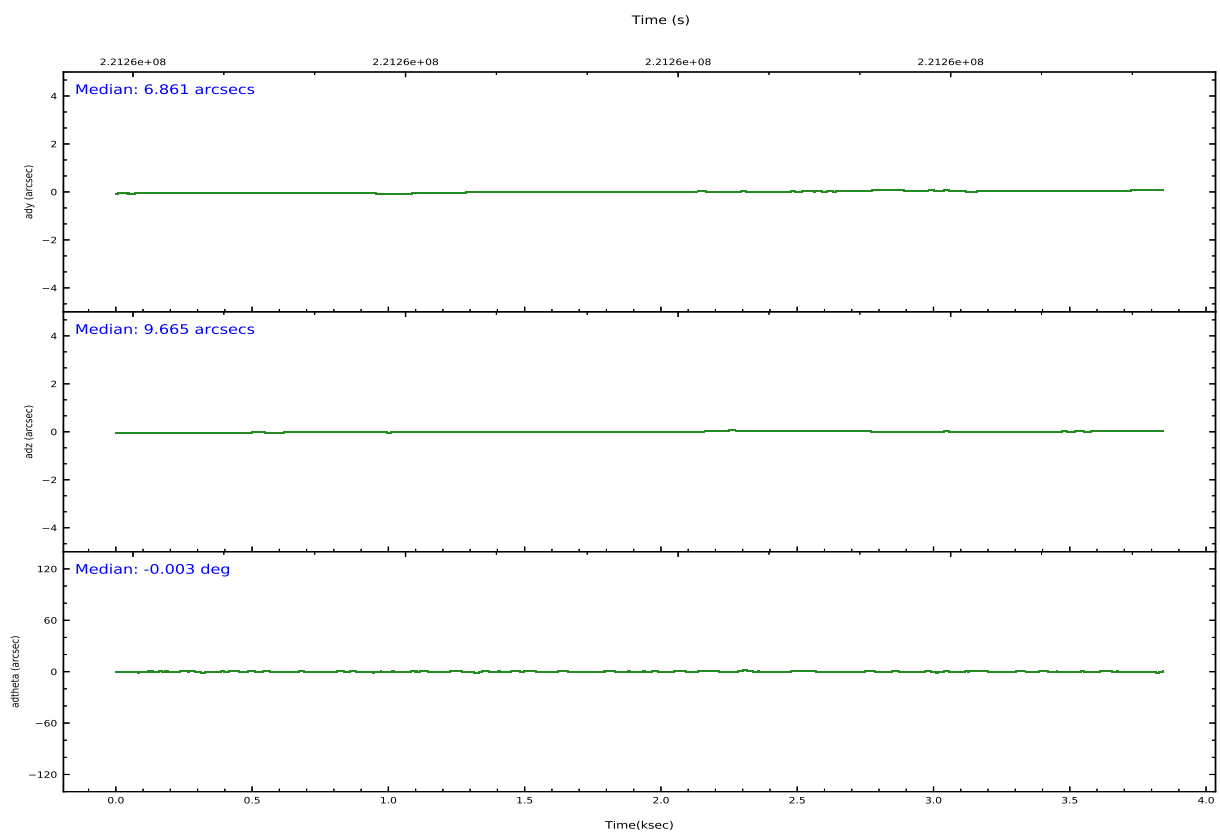
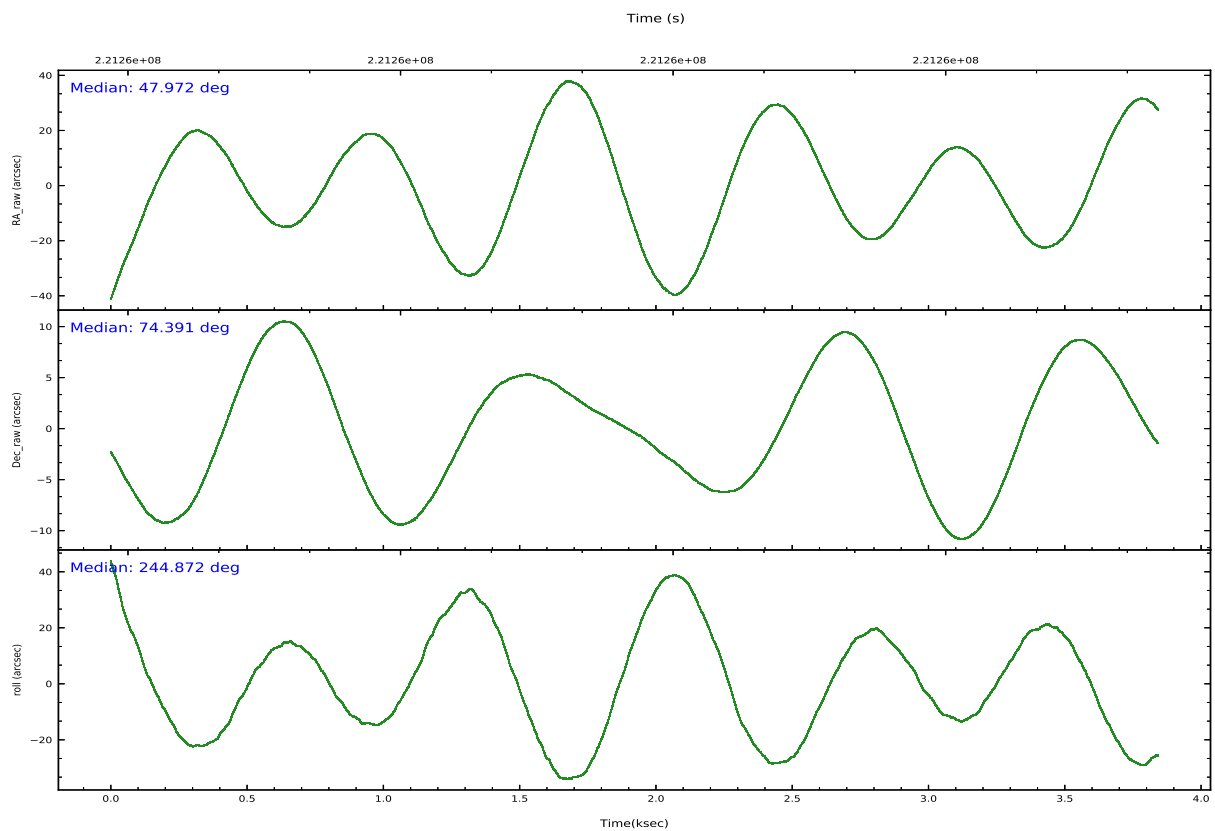


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	47.962279	47.965524201091	Subarray requested	NONE	NONE
[deg] Pointing Dec	74.418063	74.393767829788	Alternating exposures requested	N	N
[deg] Pointing Roll	244.676567	244.87200980369	[s] Primary exposure time	0.000000	3.2
[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)	221258780.184000	221257488.977			
Observation start date	2005-01-04T20:45:16	2005-01-04T20:24:48			
[s] Observation end time (MET)	221261780.184000	221262582.71473			
Observation end date	2005-01-04T21:35:16	2005-01-04T21:49:42			
Read mode	TIMED	TIMED			

## 2.3 Aspect



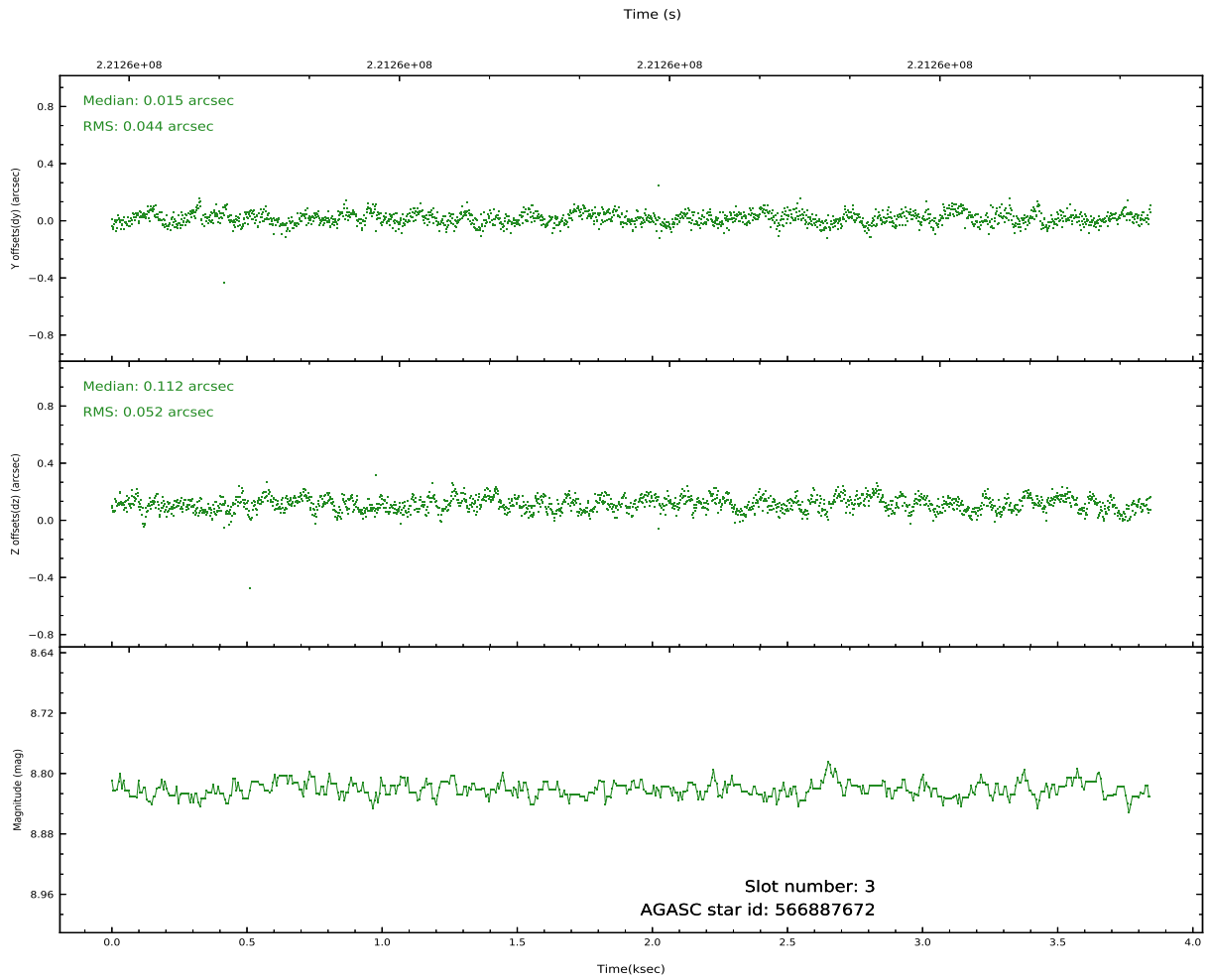
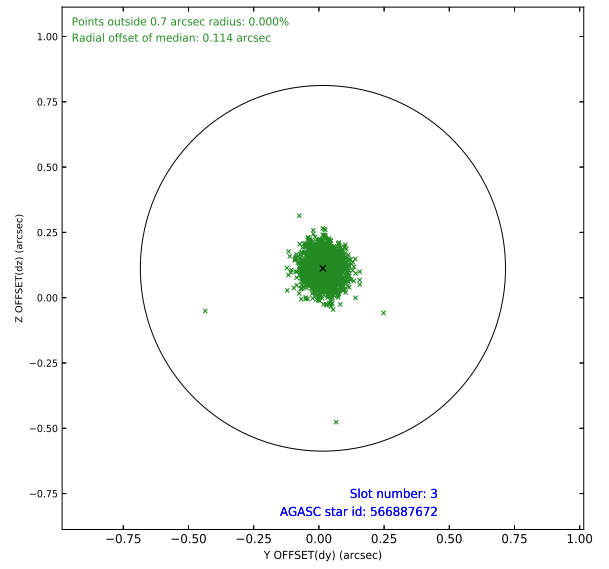
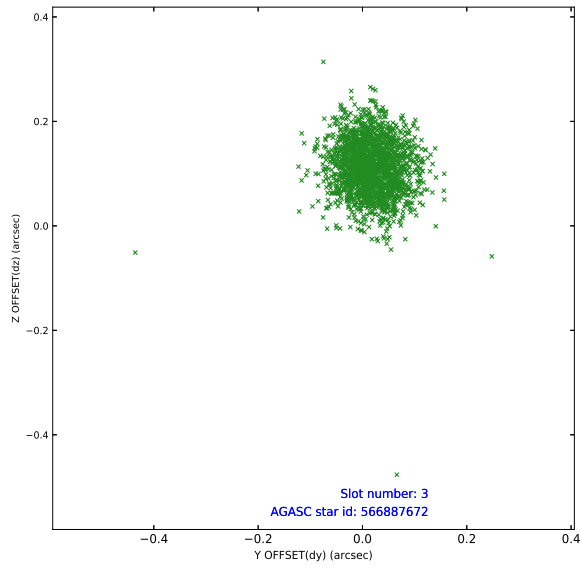


Slot Statistics

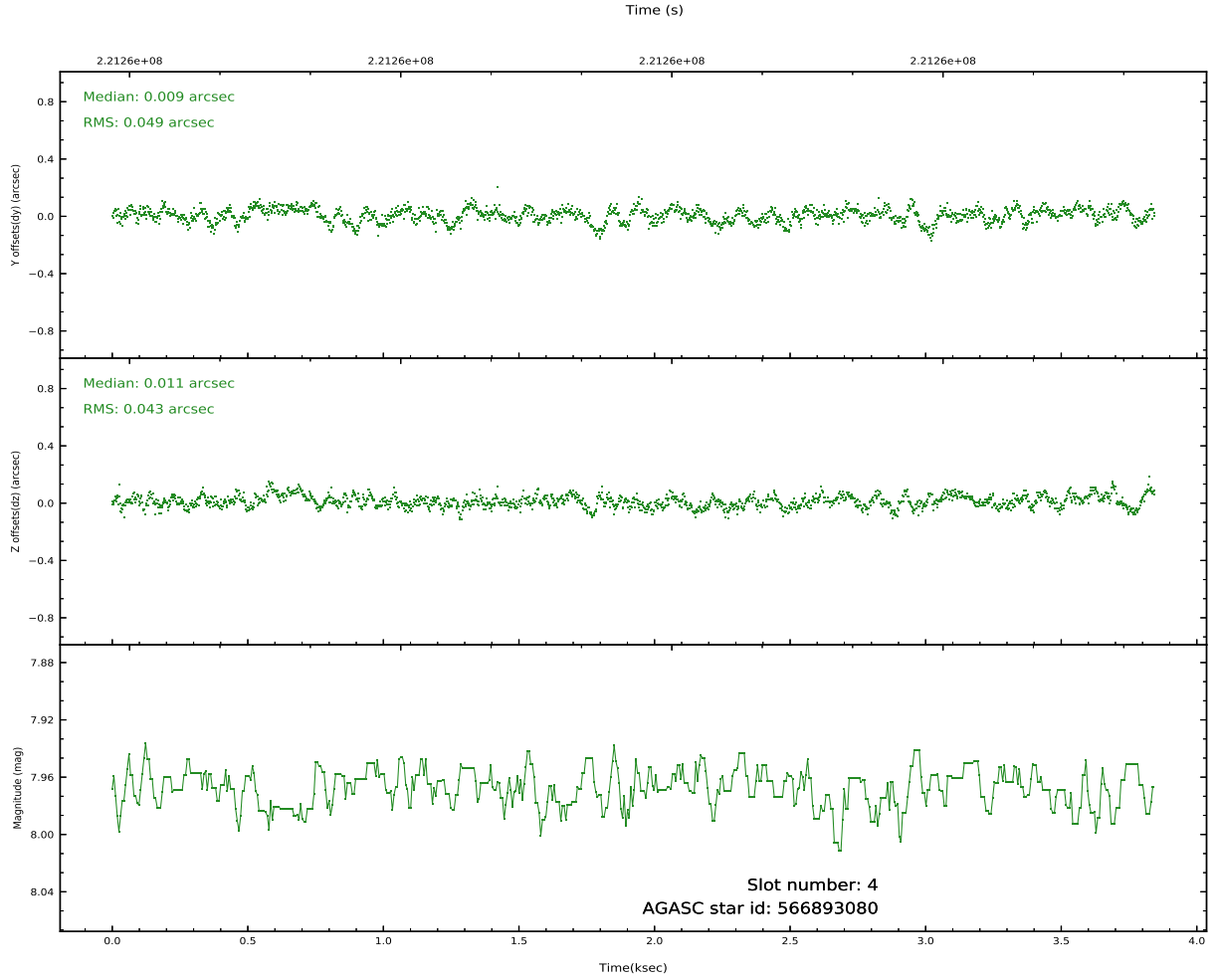
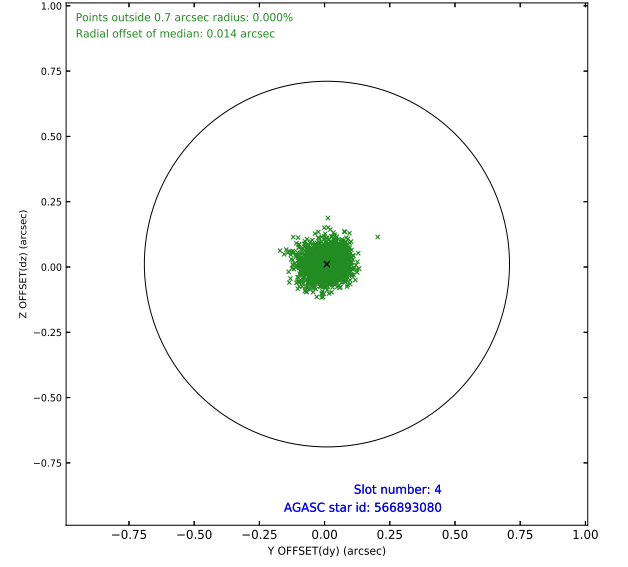
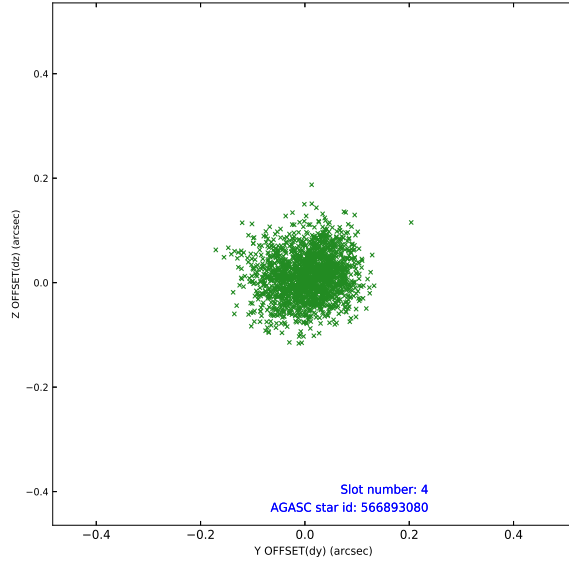
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.25	938	1.000	0.008	0.007	0.006	0.011	0.000000	0.000000	932.84	-833
1	FID		ACIS-I-5	7.23	938	1.000	-0.192	0.018	0.006	0.010	0.000000	0.000000	-1814.58	1063
2	FID		ACIS-I-6	7.25	938	1.000	0.093	0.046	0.006	0.012	0.000000	0.000000	396.68	1709
3	GUIDE	used	566887672	8.82	1876	1.000	0.015	0.112	0.070	0.113	47.990307	74.600872	-605.95	-257
4	GUIDE	used	566893080	7.97	1876	1.000	0.009	0.011	0.069	0.112	46.345816	73.945134	2207.63	-735
5	GUIDE	used	568598336	8.05	1876	1.000	0.087	-0.108	0.055	0.090	48.171071	74.197028	632.94	524
6	GUIDE	used	568599608	8.31	1874	1.000	-0.045	0.085	0.063	0.095	49.059683	74.037754	764.44	1563
7	GUIDE	used	568603728	7.44	1875	1.000	-0.067	-0.102	0.052	0.086	48.364597	74.296345	227.90	541

## 2.4 Star Slots

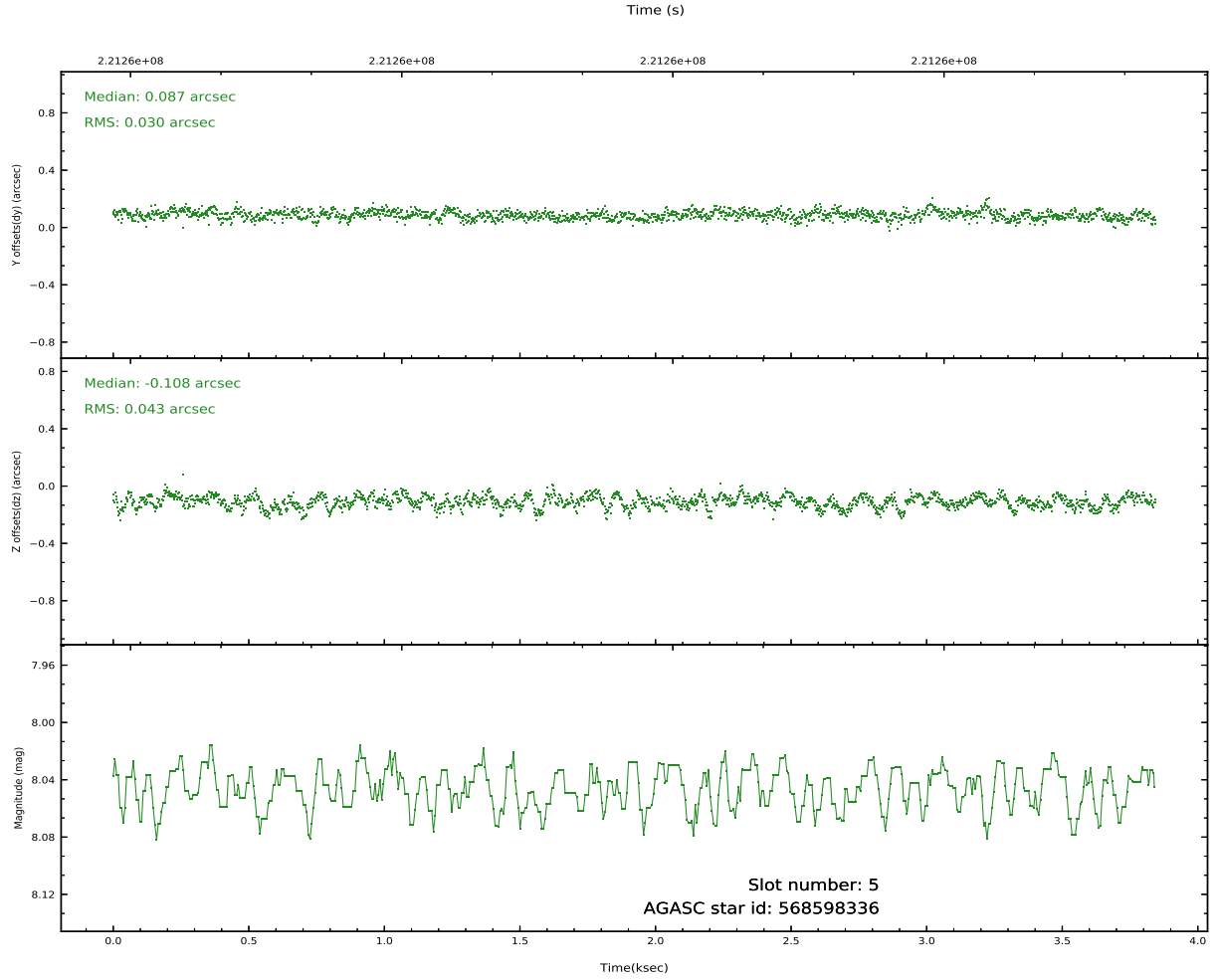
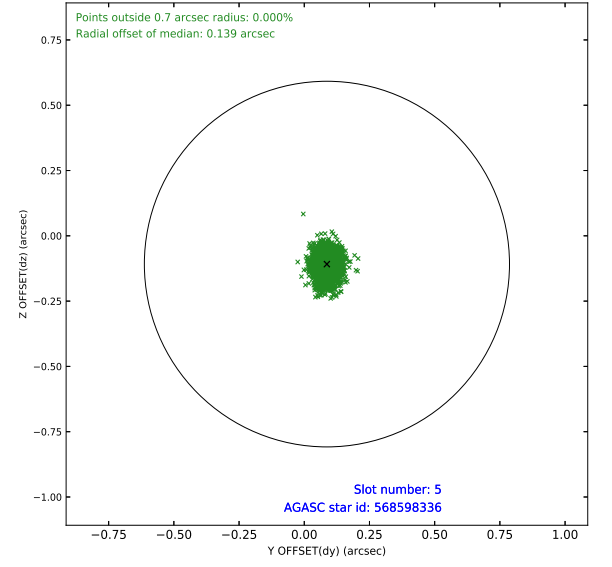
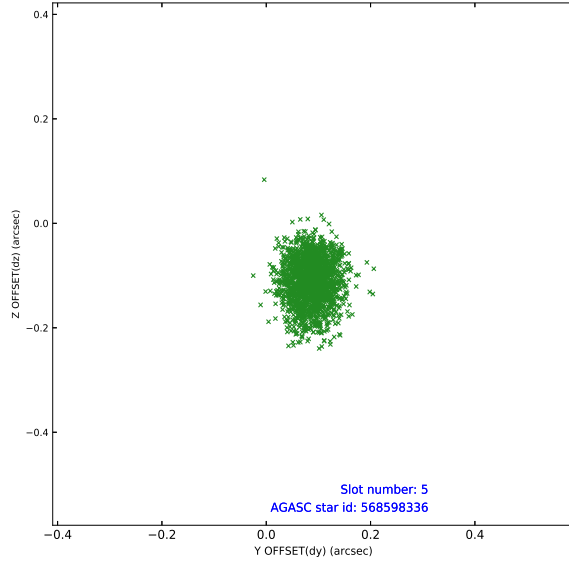
### 2.4.1 Slot 3



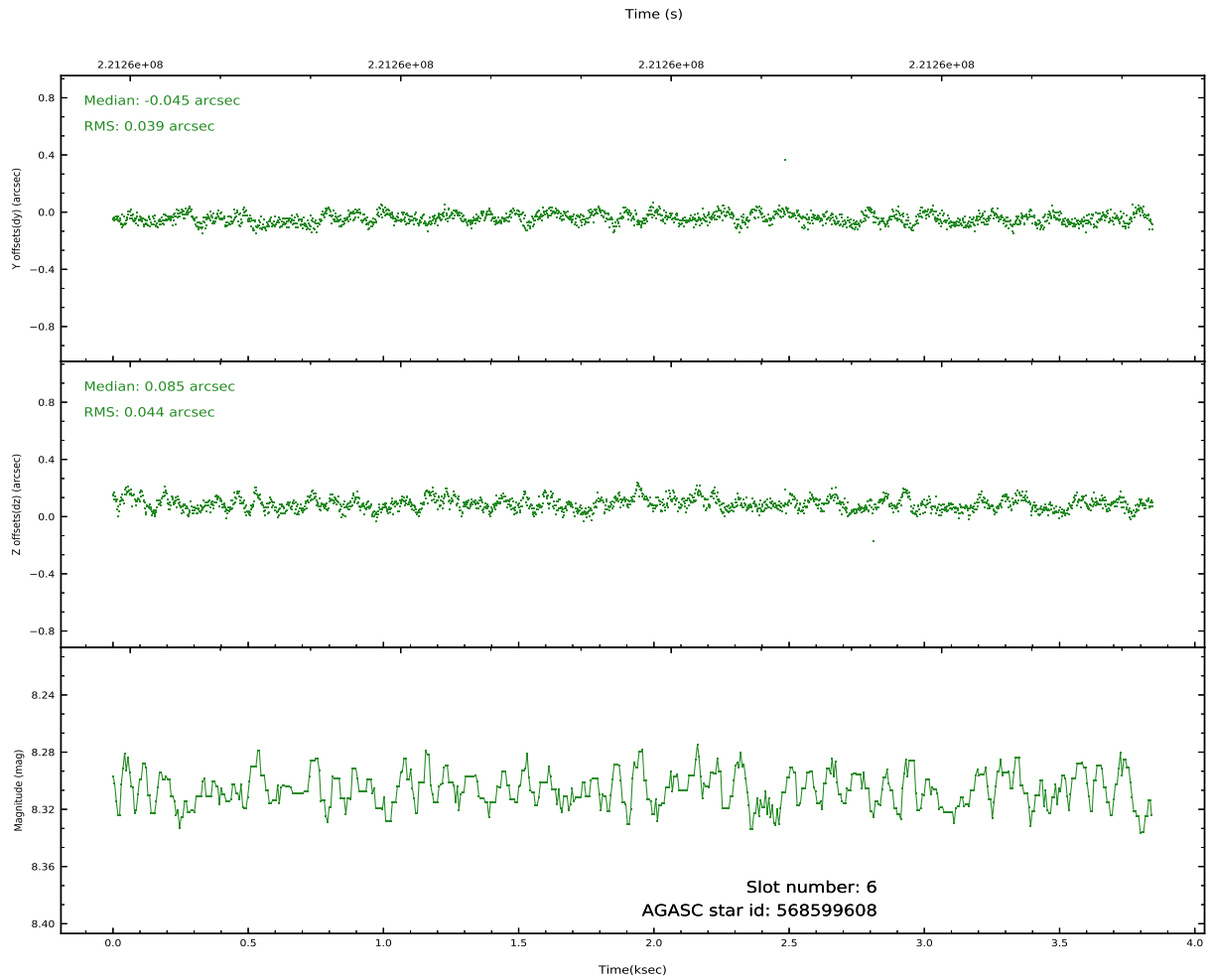
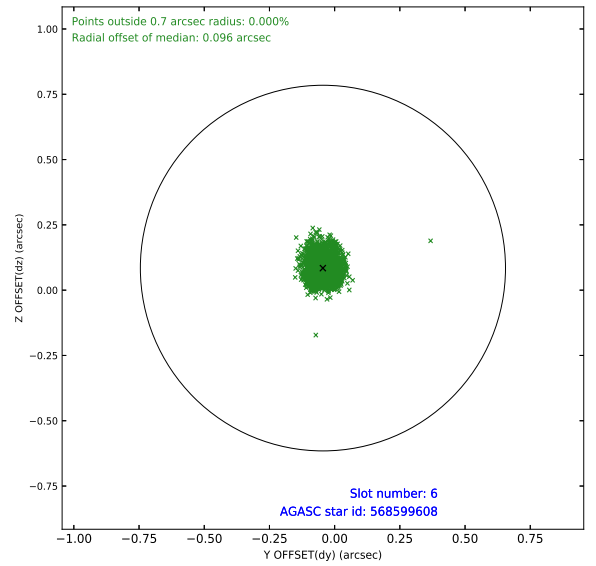
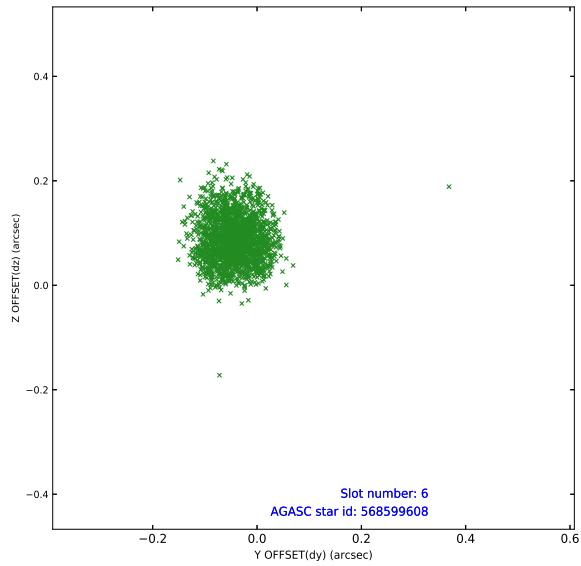
## 2.4.2 Slot 4



### 2.4.3 Slot 5

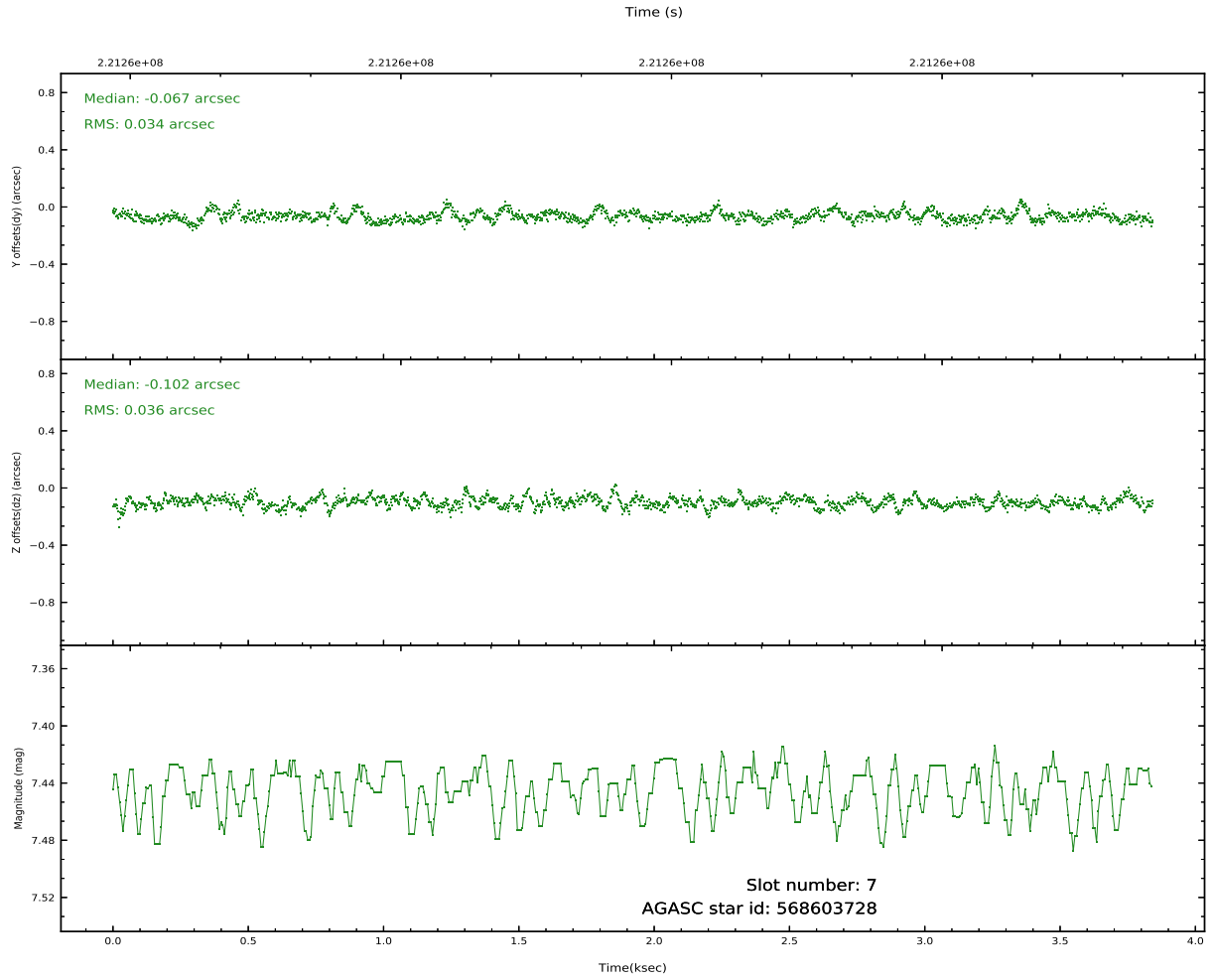
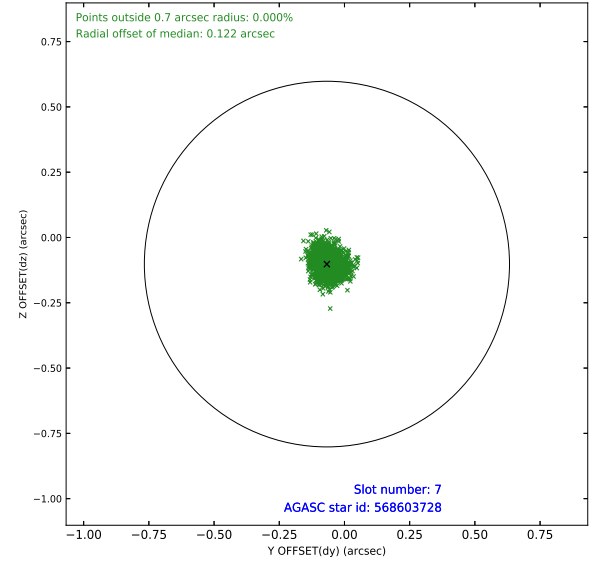
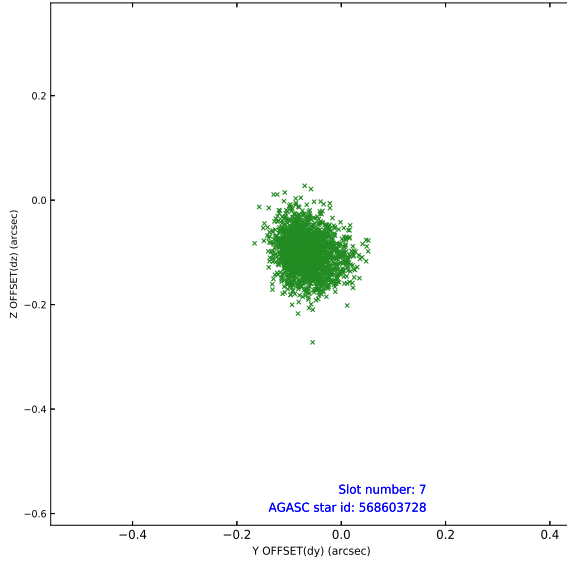


## 2.4.4 Slot 6



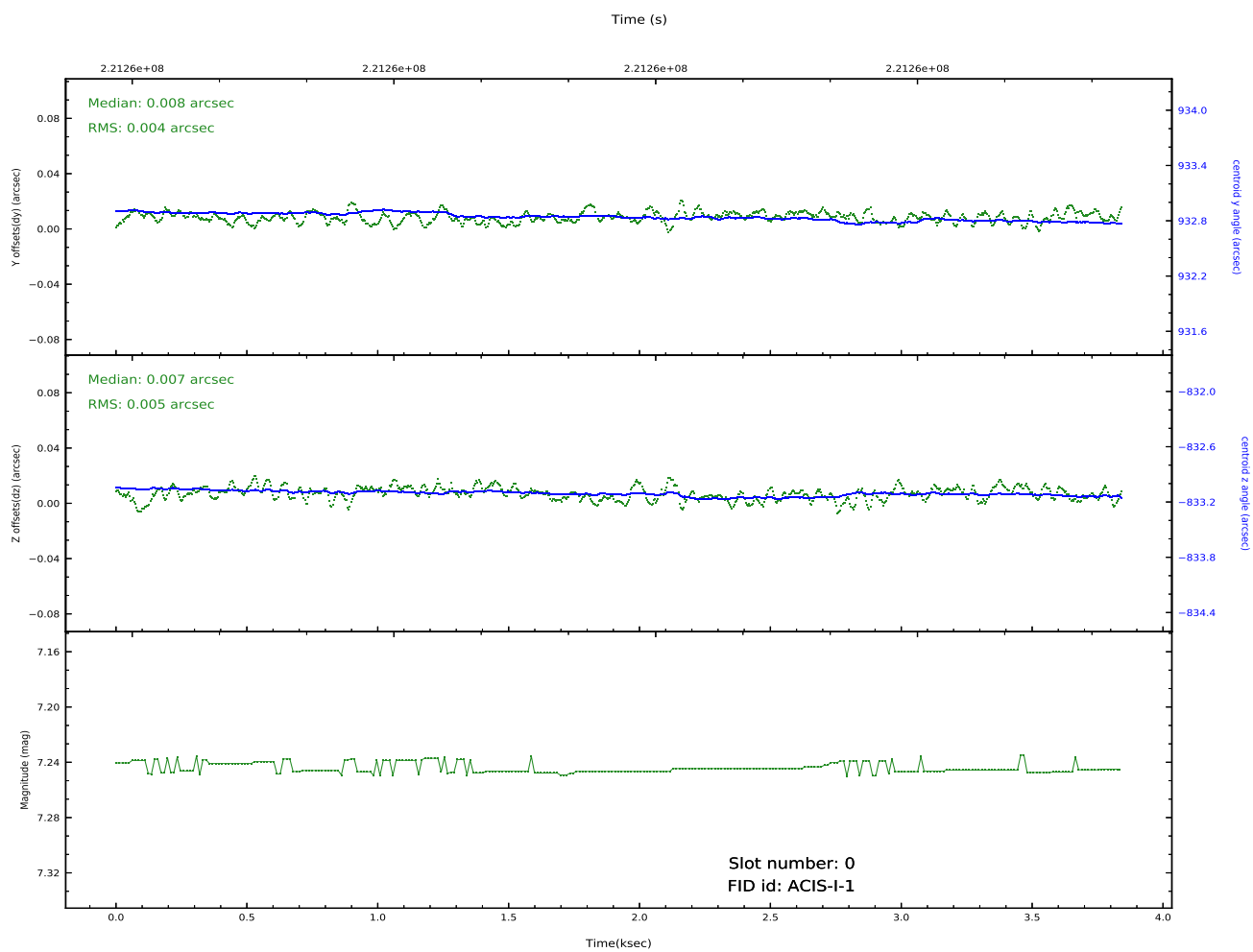
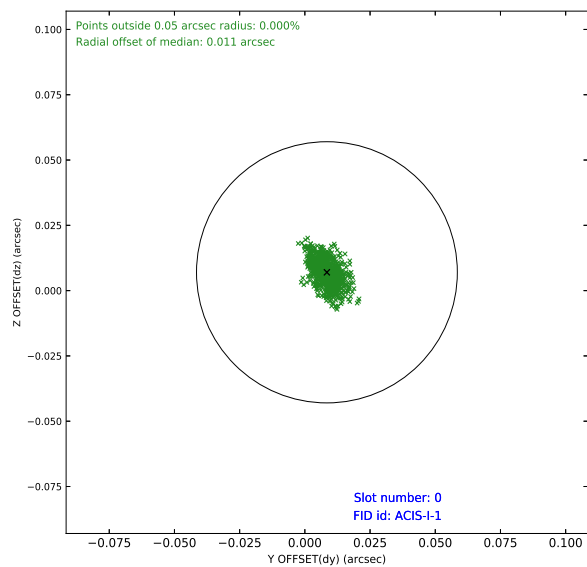
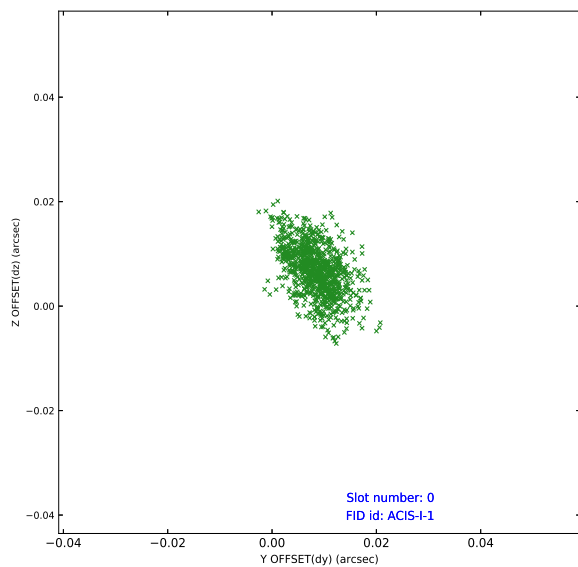


## 2.4.5 Slot 7

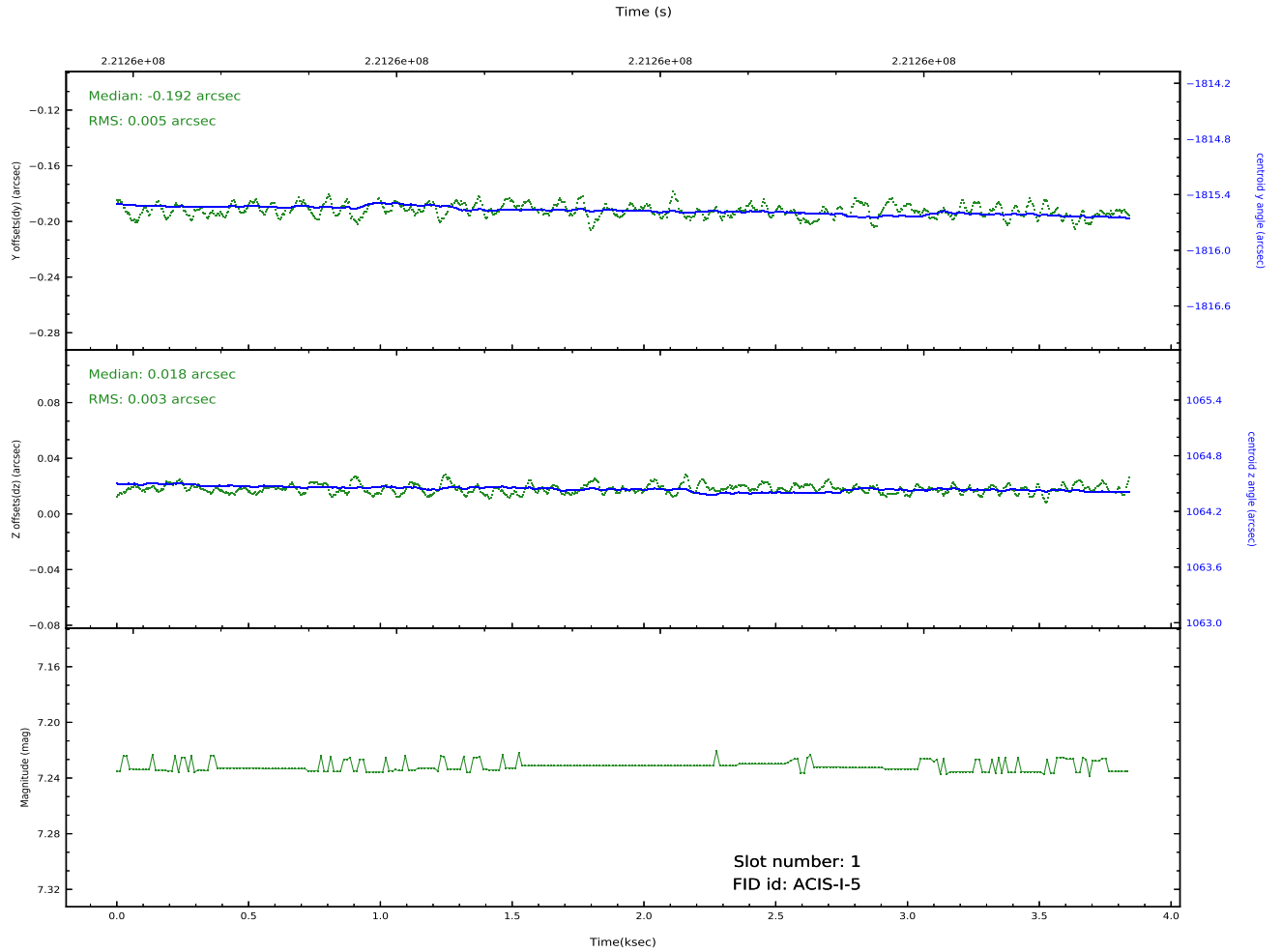
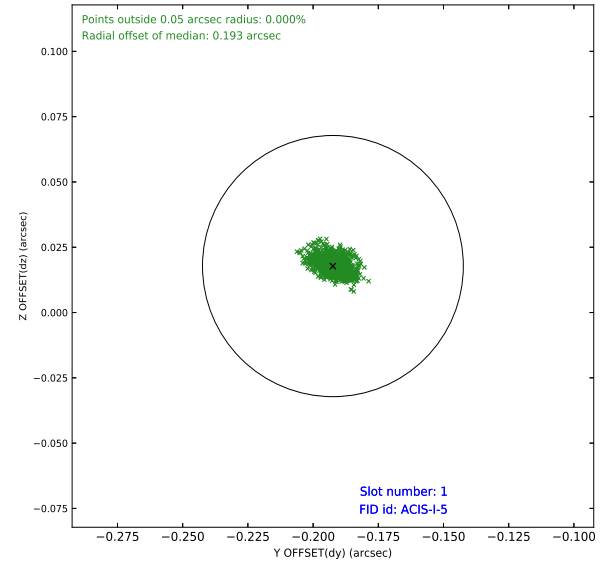
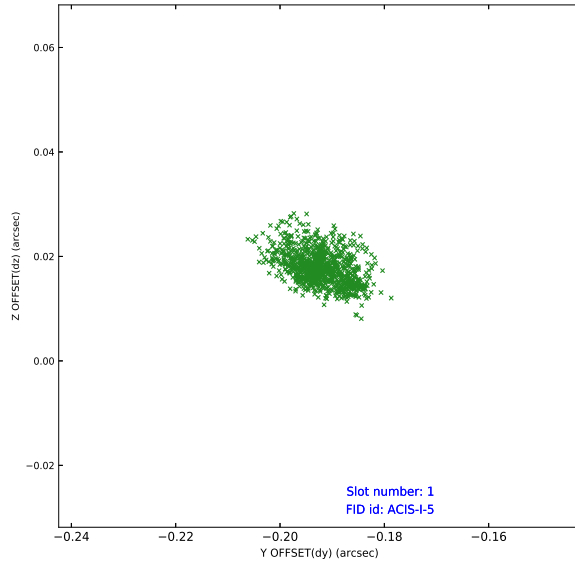


## 2.5 FID Slots

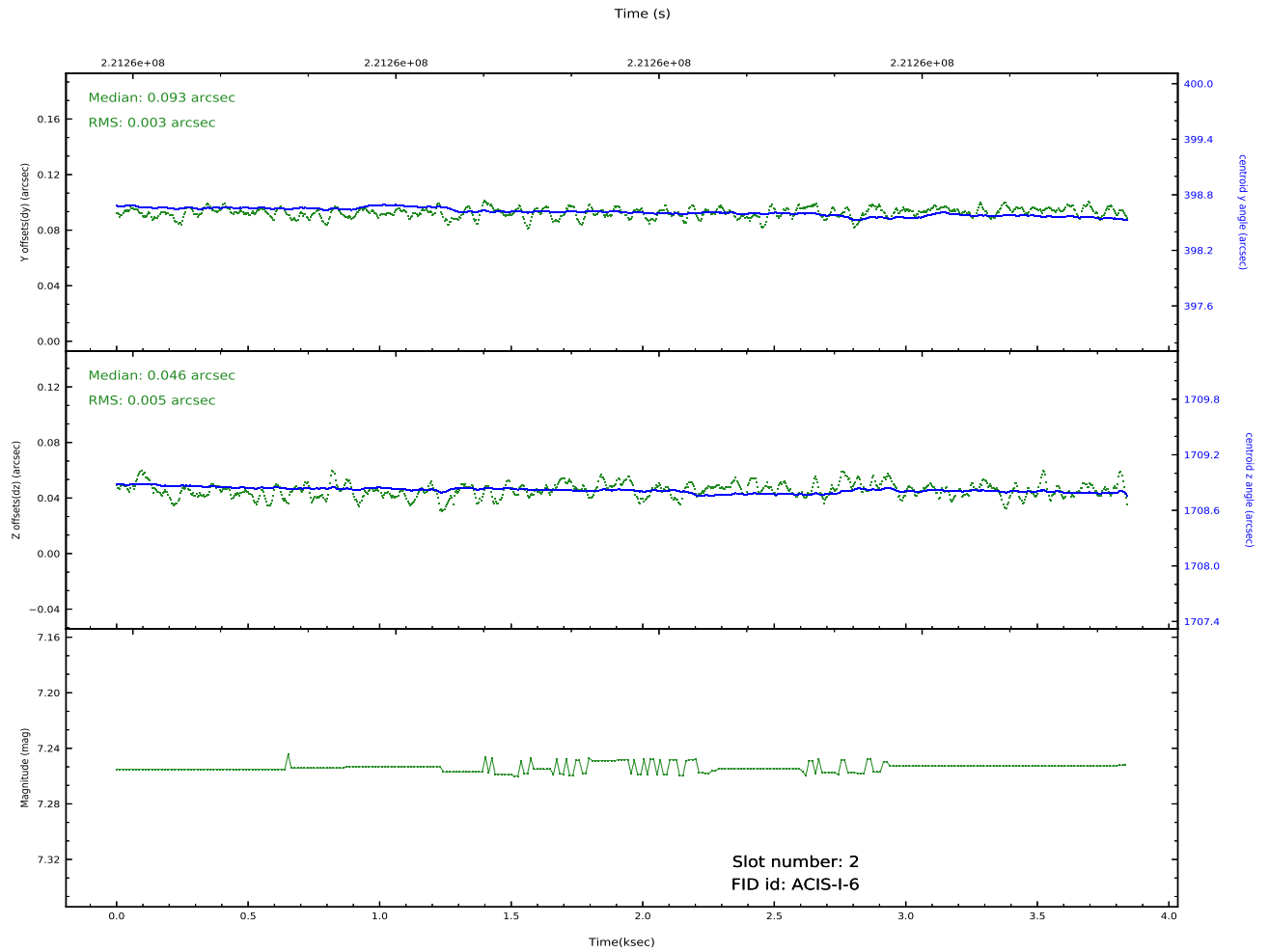
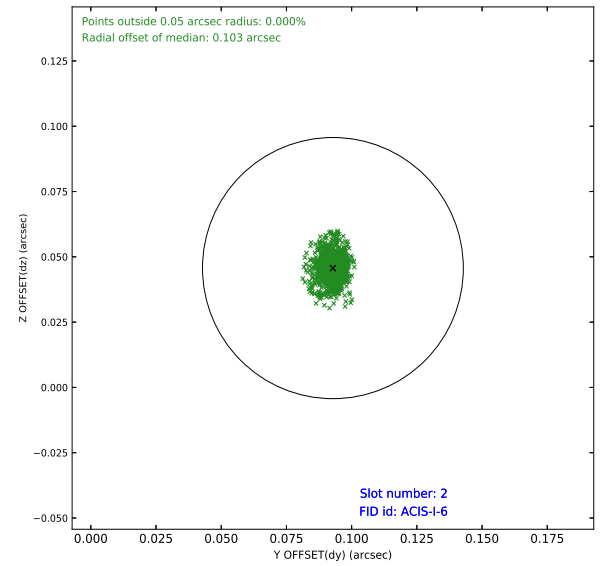
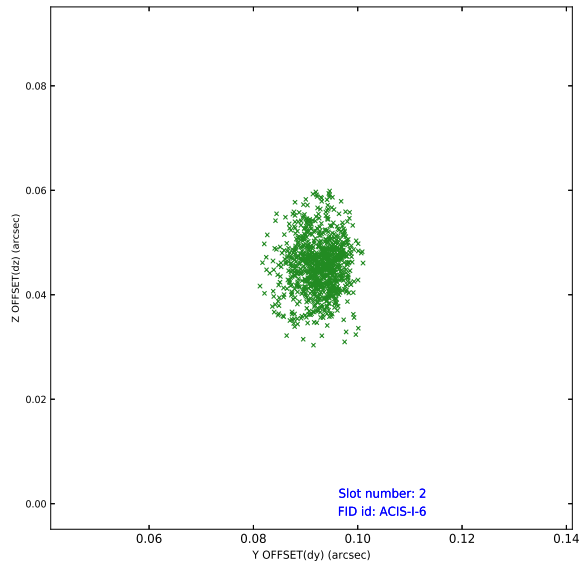
### 2.5.1 Slot 0



## 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)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.963199

### A.2 Comments