

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5797 - L2 Version 4  
Chandra X-Ray Center

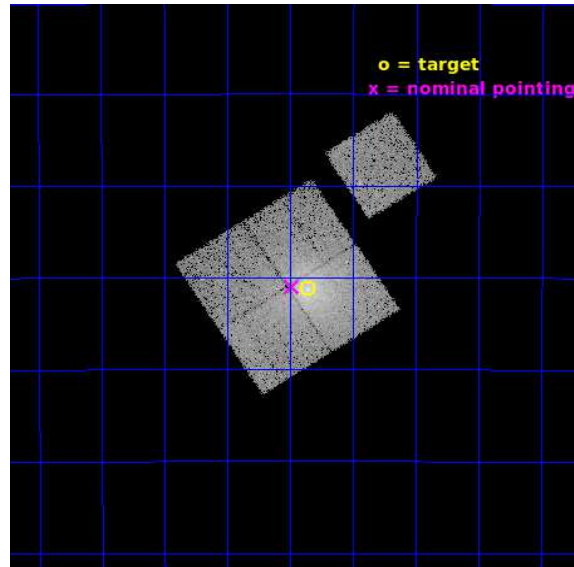
L2 Processing Date : Oct 9 2020

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# 1 Front

seq_num	800510	Sequence number
obs_id	5797	Observation id
title	X-ray Properties of a Mass-Selected Group Catalog	Proposal title
observer	Prof. Pasquale Mazzotta	Principal investigator
object	CIG J0011-2850	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	2.839583	Observer's specified target RA [deg]
dec_targ	-28.854194	Observer's specified target Dec [deg]
ra_nom	2.8716938358062	Nominal RA [deg]
dec_nom	-28.849900495876	Nominal Dec [deg]
roll_nom	57.185675090205	Nominal Roll [deg]
revision	4	Processing version of data
ontime	20131.358961076	Sum of GTIs [s]
livetime	19868.327935758	Livetime [s]
ontime0	20131.358971	Sum of GTIs [s]
ontime1	20134.499961257	Sum of GTIs [s]
ontime2	20134.499961257	Sum of GTIs [s]
ontime3	20131.358961076	Sum of GTIs [s]
ontime6	20134.499961257	Sum of GTIs [s]
l2events	87097	Number of level 2 events

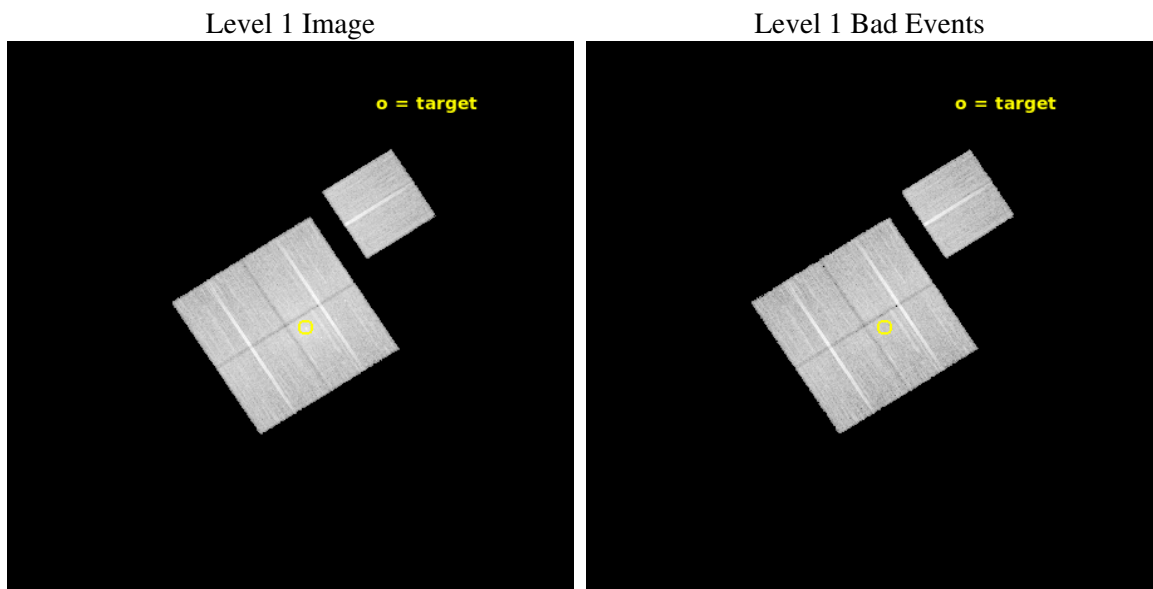




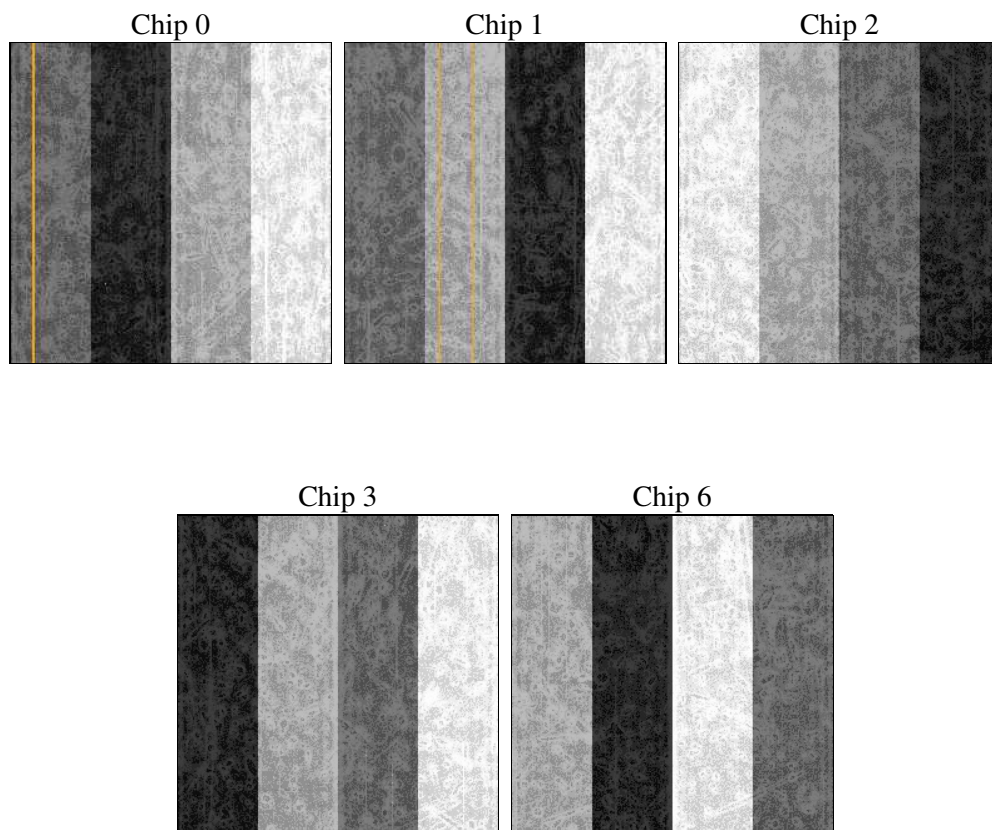
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	20131.358961076	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime0	20131.358971	Sum of GTIs [s]
date	2020-10-10T00:09:39	Date and time of file creation	ontime1	20134.499961257	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	20134.499961257	Sum of GTIs [s]
			ontime3	20131.358961076	Sum of GTIs [s]
			ontime6	20134.499961257	Sum of GTIs [s]
			l1events	660113	Number of level 1 events

### 2.1.4 Events

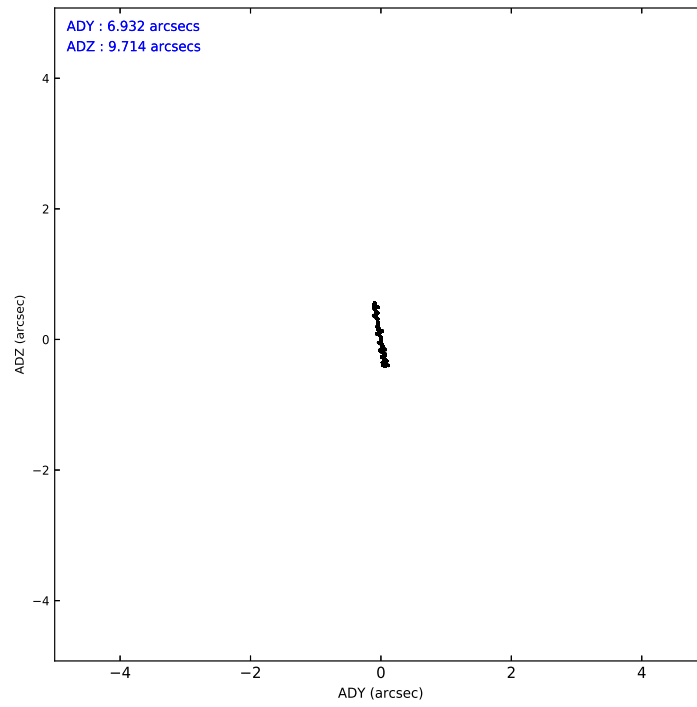
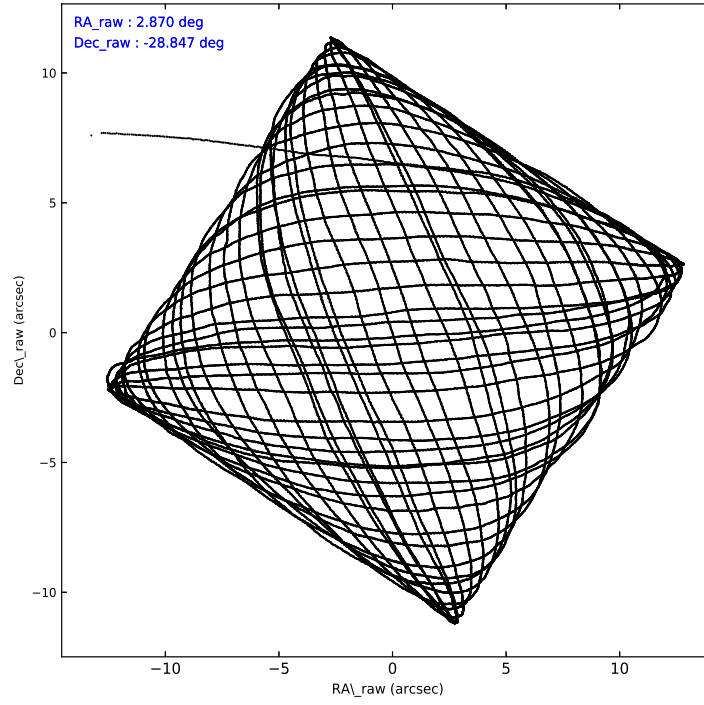
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	121847	127356	138809	147895	124206
rejected events	106826	107113	120763	114484	111105
rejected %	87%	84%	86%	77%	89%

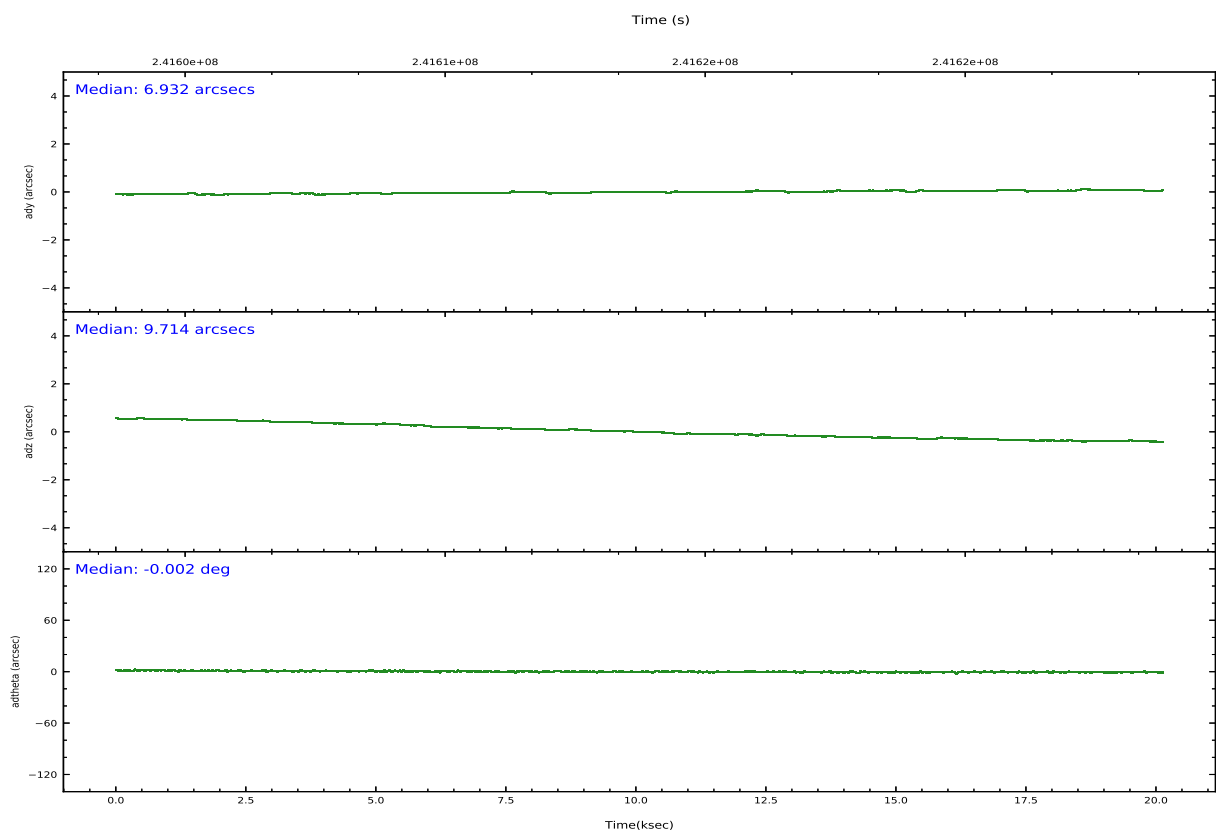
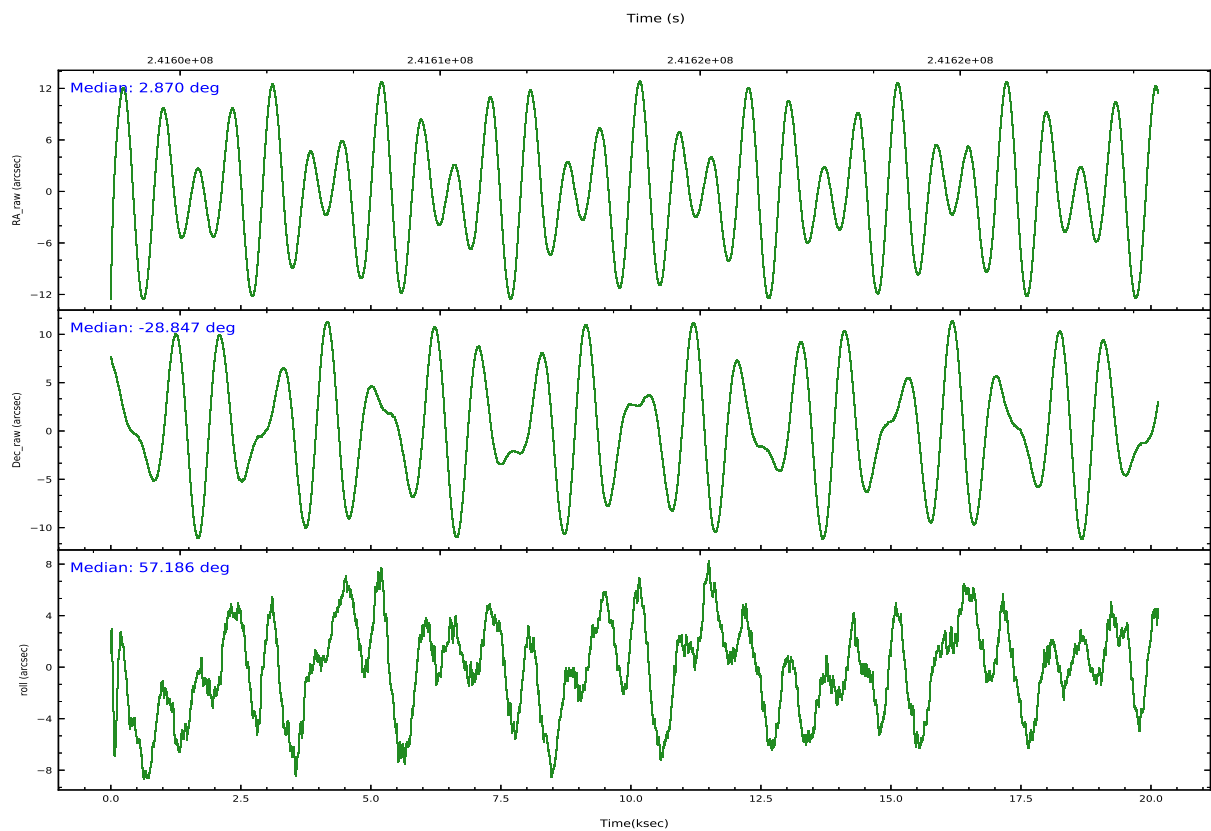
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	6475	10145	9304	22243	4805
	5%	7%	6%	15%	3%
grade 1 events	63	83	87	171	62
	0%	0%	0%	0%	0%
grade 2 events	3288	3855	3497	4649	2896
	2%	3%	2%	3%	2%
grade 3 events	1542	1767	1572	2006	1443
	1%	1%	1%	1%	1%
grade 4 events	1494	1831	1560	1972	1407
	1%	1%	1%	1%	1%
grade 5 events	4370	5026	4264	5139	5003
	3%	3%	3%	3%	4%
grade 6 events	2443	2971	2348	2933	2763
	2%	2%	1%	1%	2%
grade 7 events	102172	101678	116177	108782	105827
	83%	79%	83%	73%	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	2.868874	2.8716938358062	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.874055	-28.849900495876	Alternating exposures requested	N	N
[deg] Pointing Roll	56.976816	57.185675090205	[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)	241603806.184000	241602632.39029			
Observation start date	2005-08-28T08:09:02	2005-08-28T07:50:32			
[s] Observation end time (MET)	241623806.184000	241624511.01629			
Observation end date	2005-08-28T13:42:22	2005-08-28T13:55:11			
Read mode	TIMED	TIMED			

## 2.3 Aspect



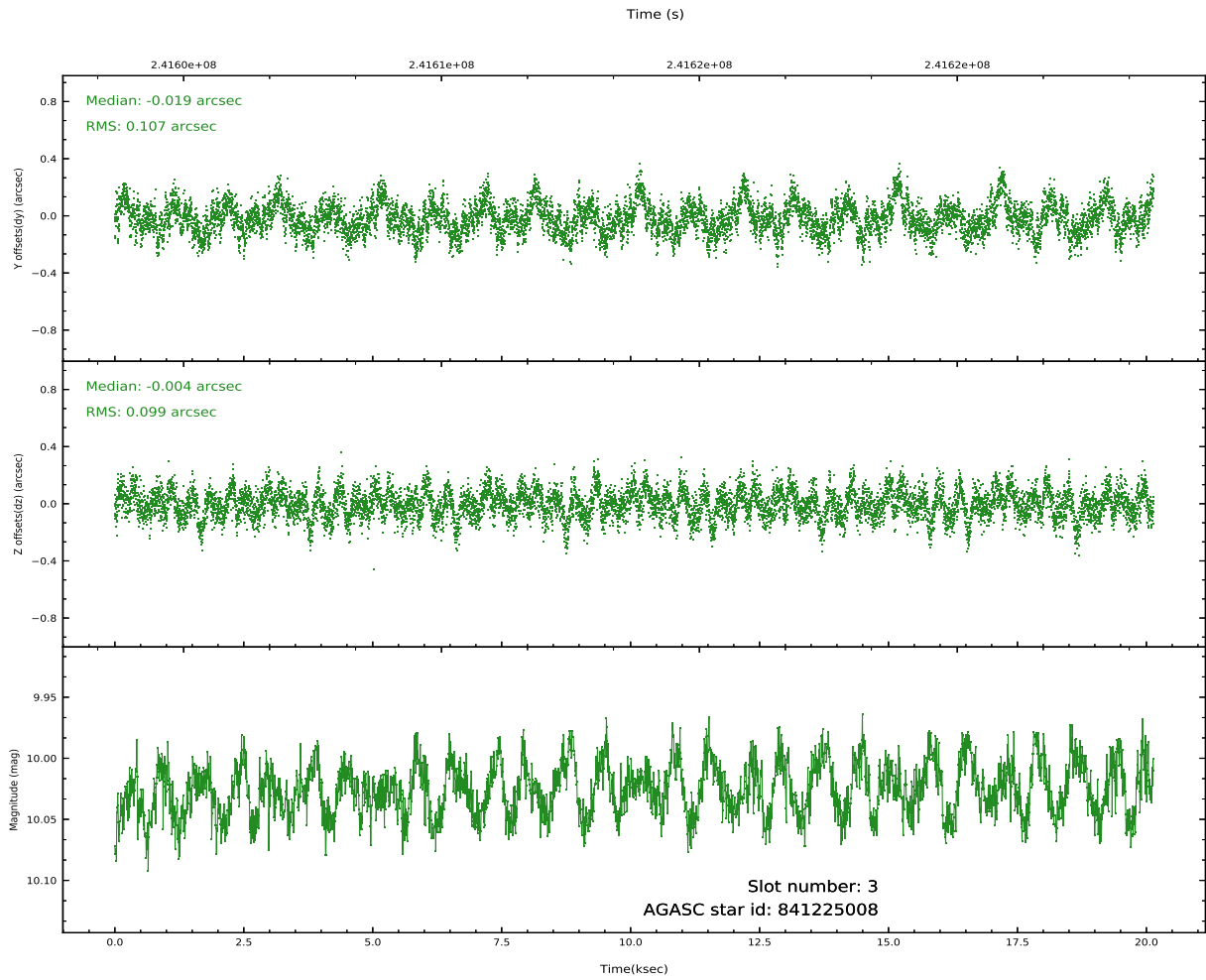
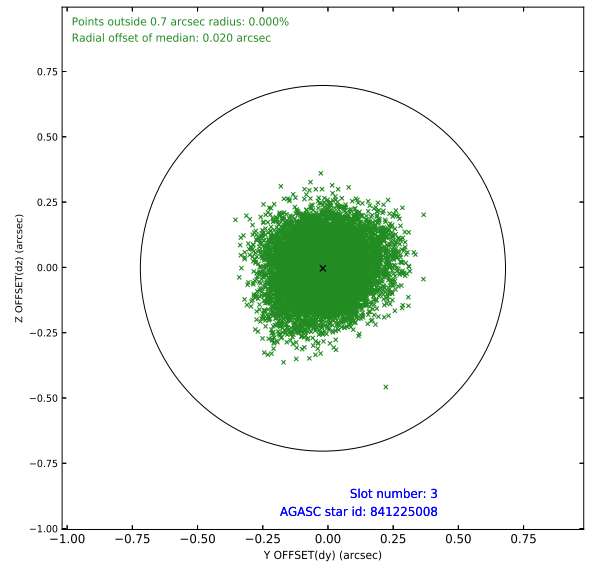
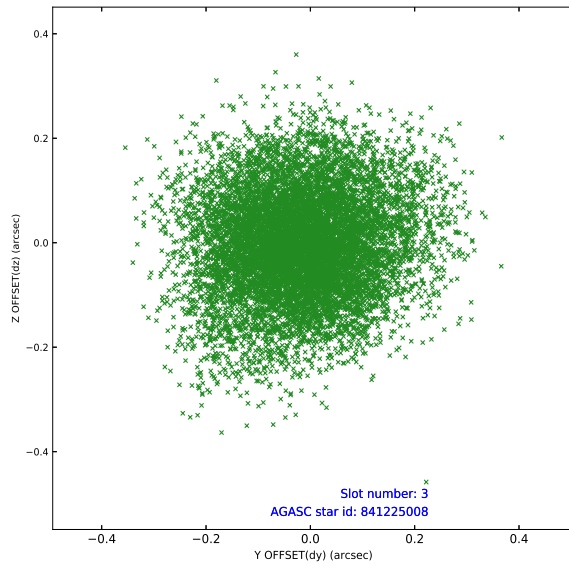


Slot Statistics

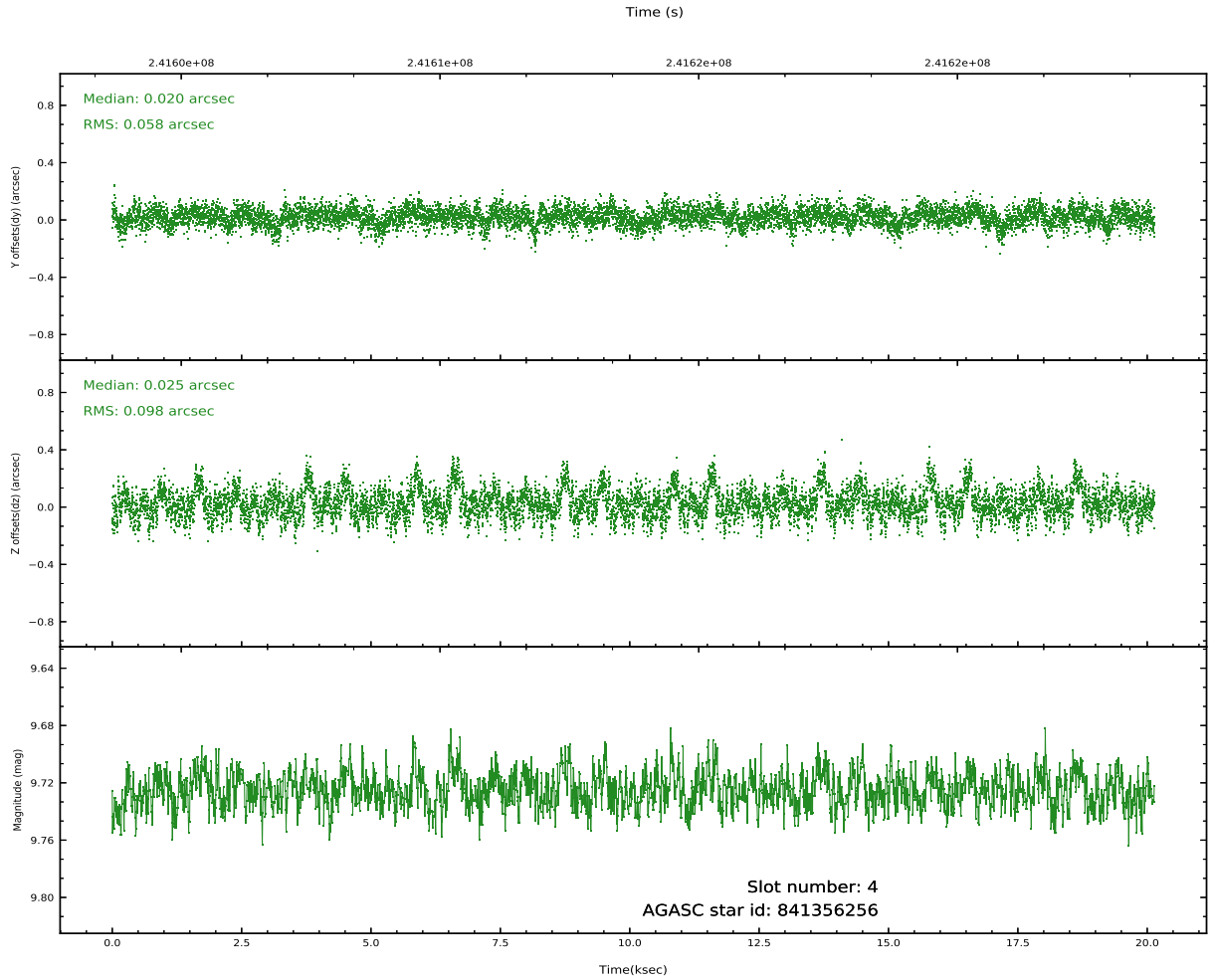
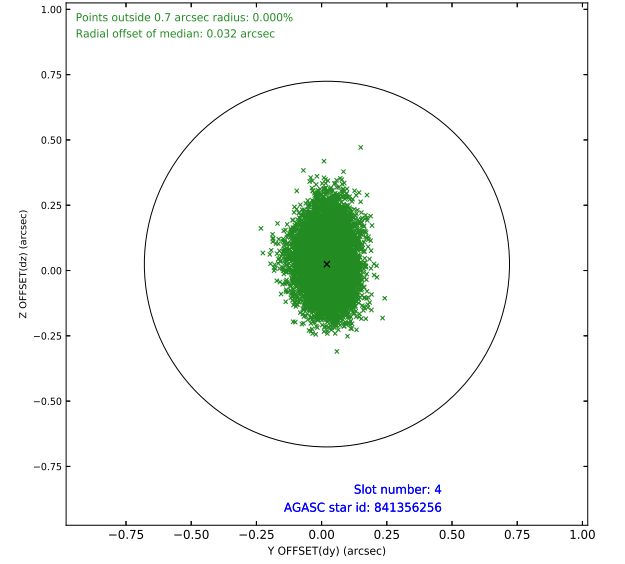
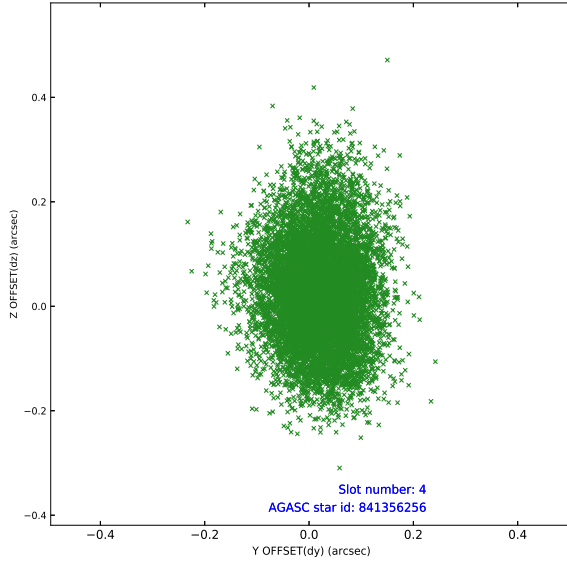
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	4912	1.000	0.008	0.005	0.016	0.026	0.000000	0.000000	932.78	-833
1	FID		ACIS-I-5	7.23	4913	1.000	-0.189	0.018	0.007	0.012	0.000000	0.000000	-1815.44	1064
2	FID		ACIS-I-6	7.25	4912	1.000	0.090	0.050	0.014	0.021	0.000000	0.000000	398.18	1708
3	GUIDE	used	841225008	10.03	9810	1.000	-0.019	-0.004	0.156	0.254	2.528125	-28.337799	1029.14	1956
4	GUIDE	used	841356256	9.73	9810	1.000	0.020	0.025	0.118	0.204	3.240103	-29.468590	-1161.80	-2142
5	GUIDE	used	841356288	9.35	9813	1.000	0.034	0.005	0.099	0.158	3.165981	-29.341928	-904.79	-1700
6	GUIDE	used	841222768	9.92	9787	1.000	0.043	-0.026	0.133	0.220	2.568633	-28.107150	1794.53	2303
7	GUIDE	used	841352216	10.32	9809	1.000	-0.077	0.005	0.212	0.328	3.050711	-28.183391	2399.30	871

## 2.4 Star Slots

### 2.4.1 Slot 3

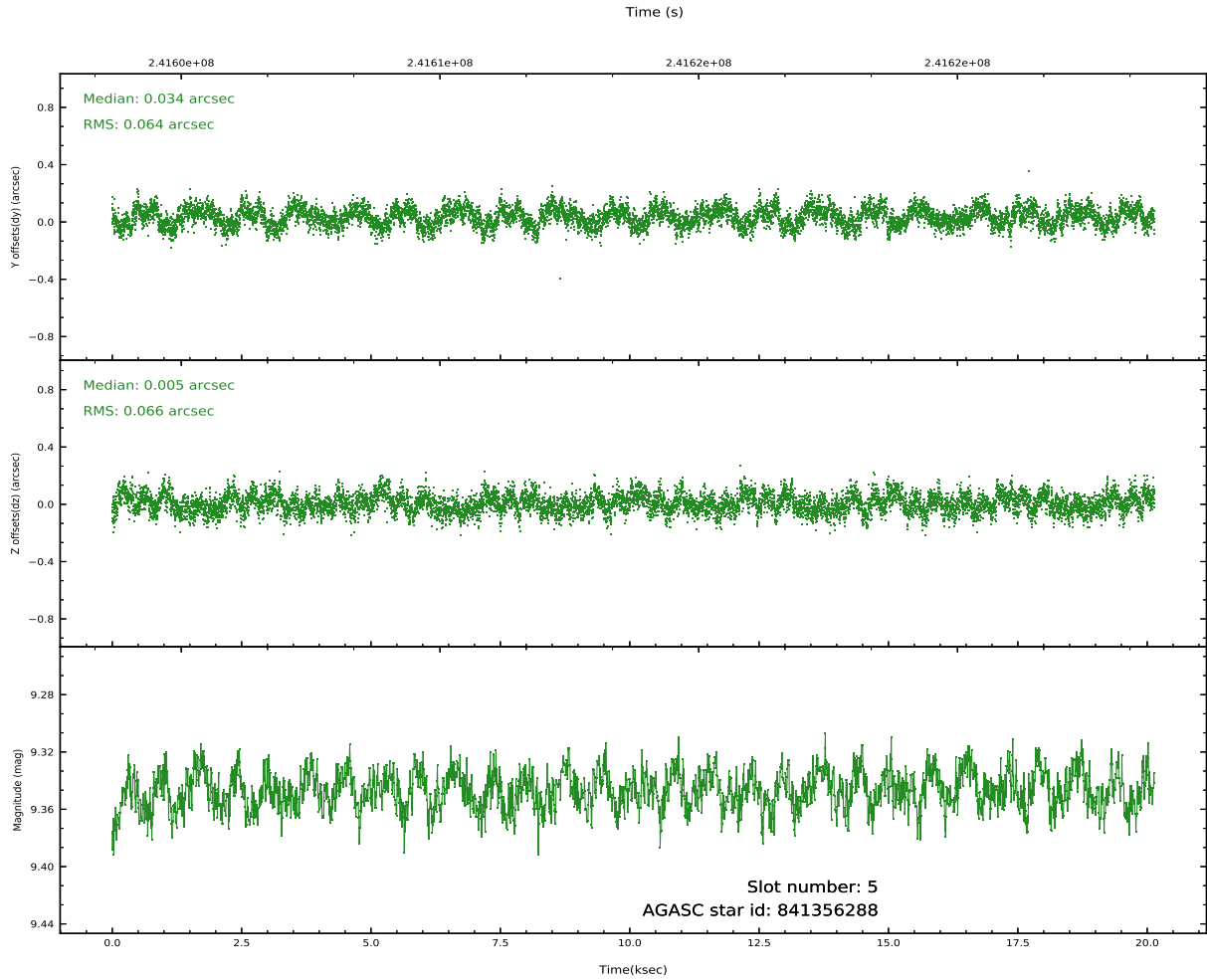
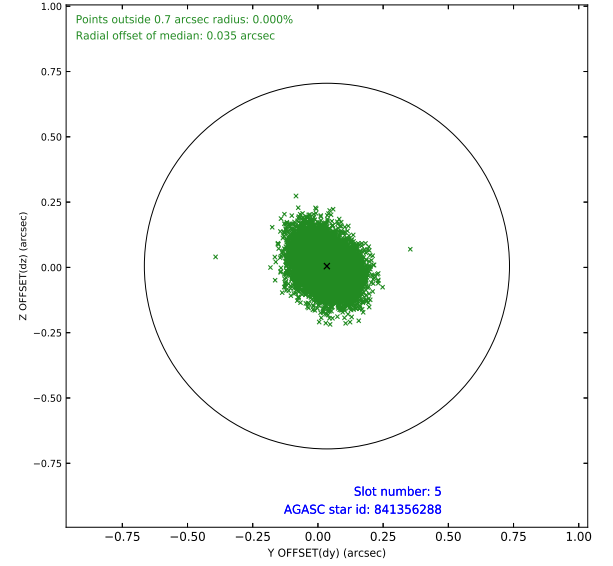
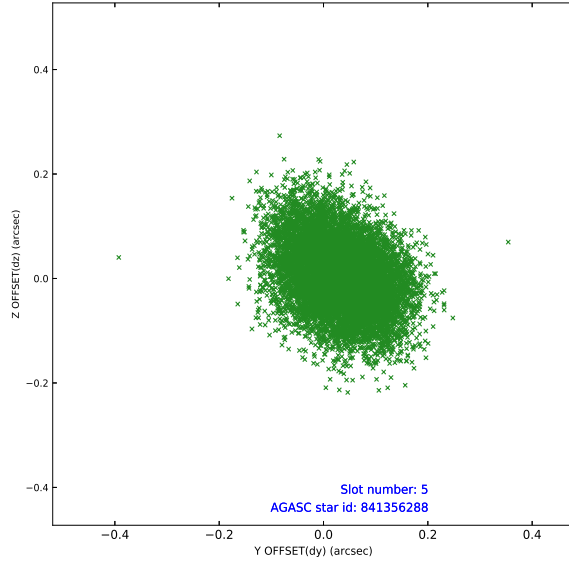


## 2.4.2 Slot 4

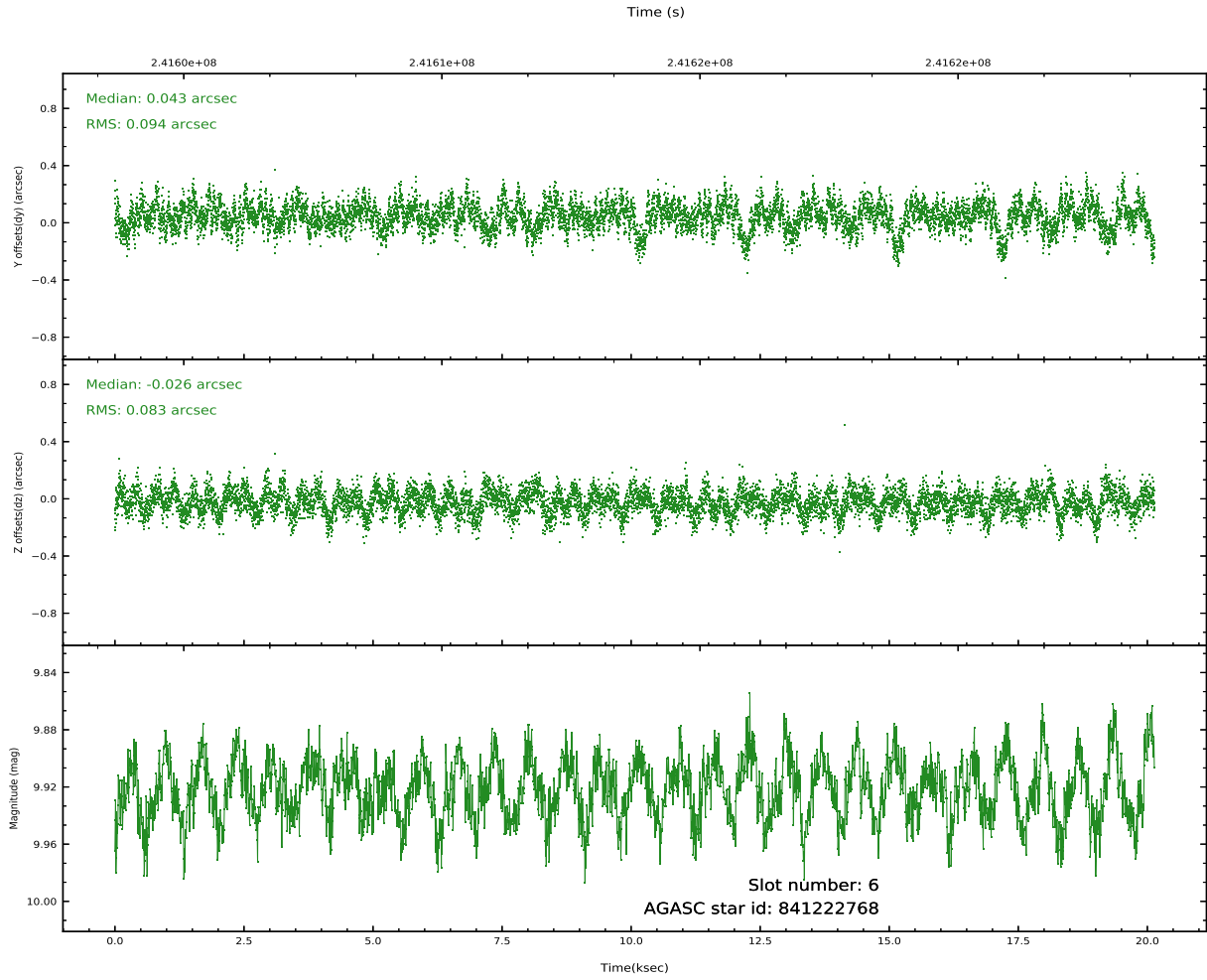
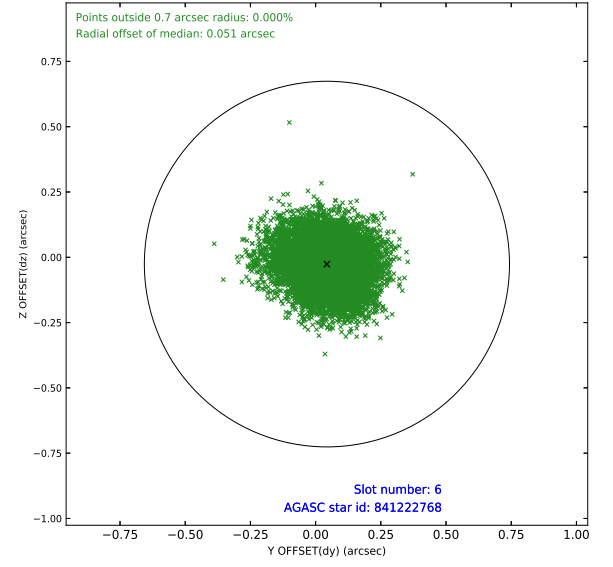
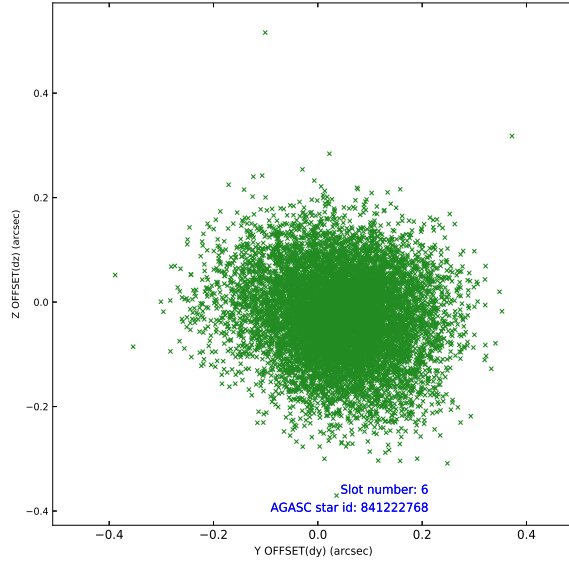




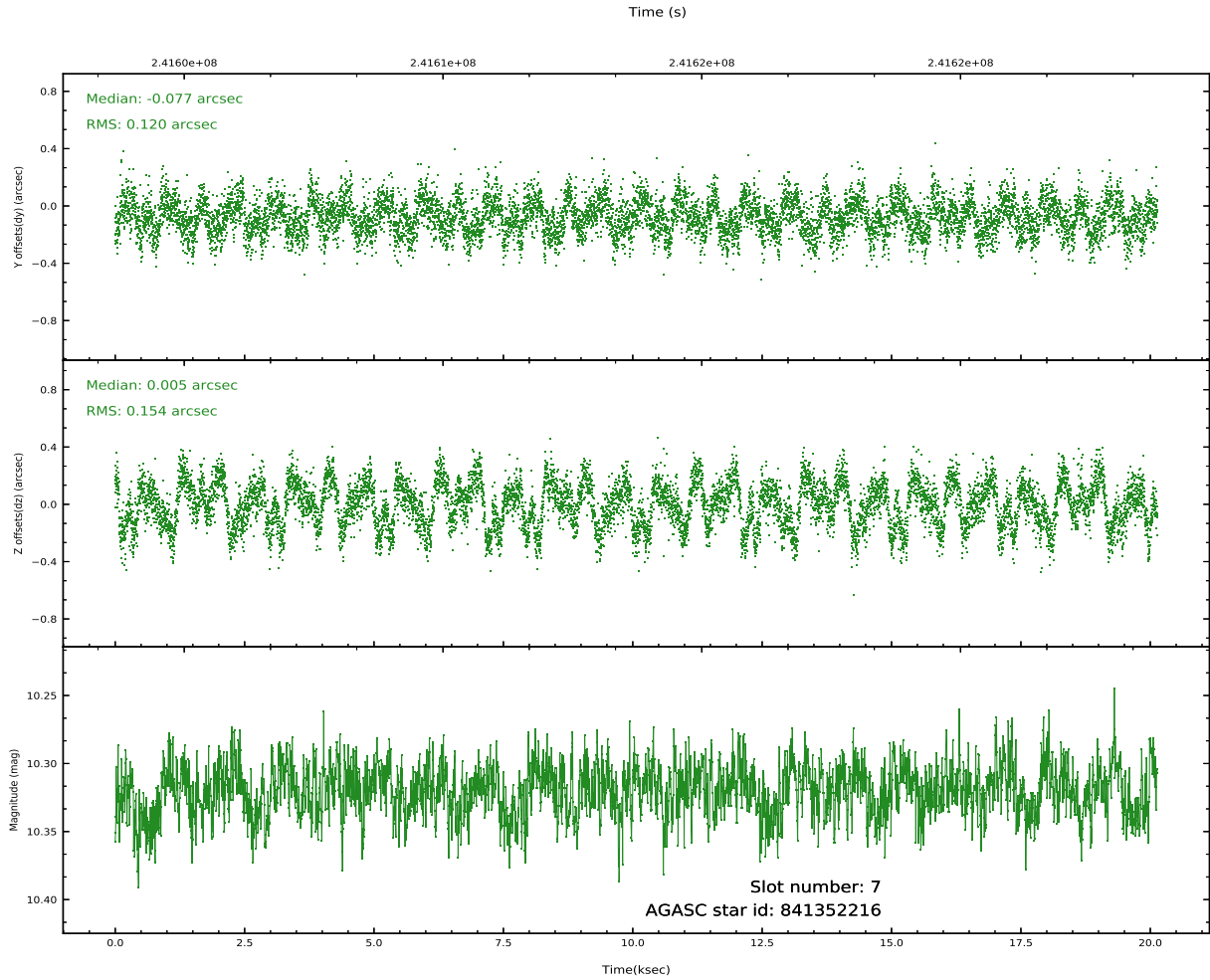
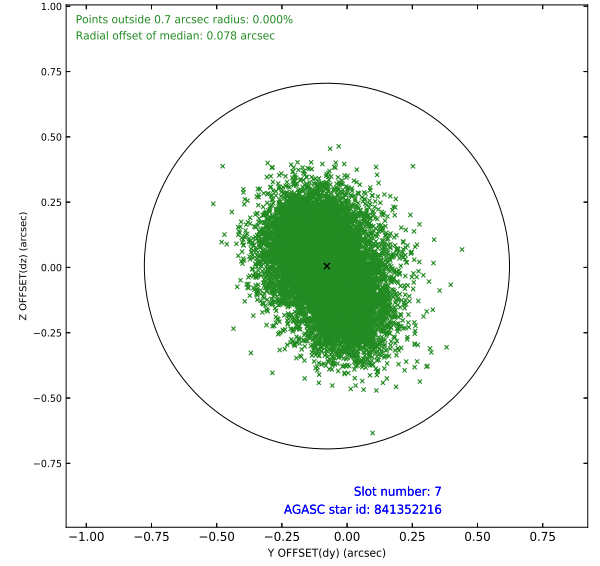
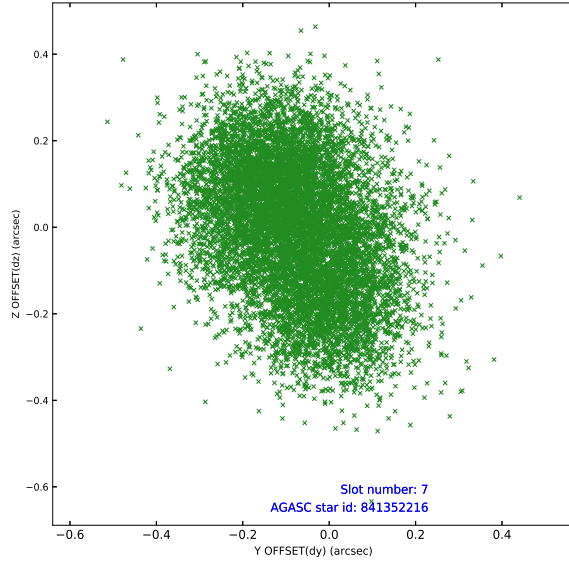
### 2.4.3 Slot 5



## 2.4.4 Slot 6

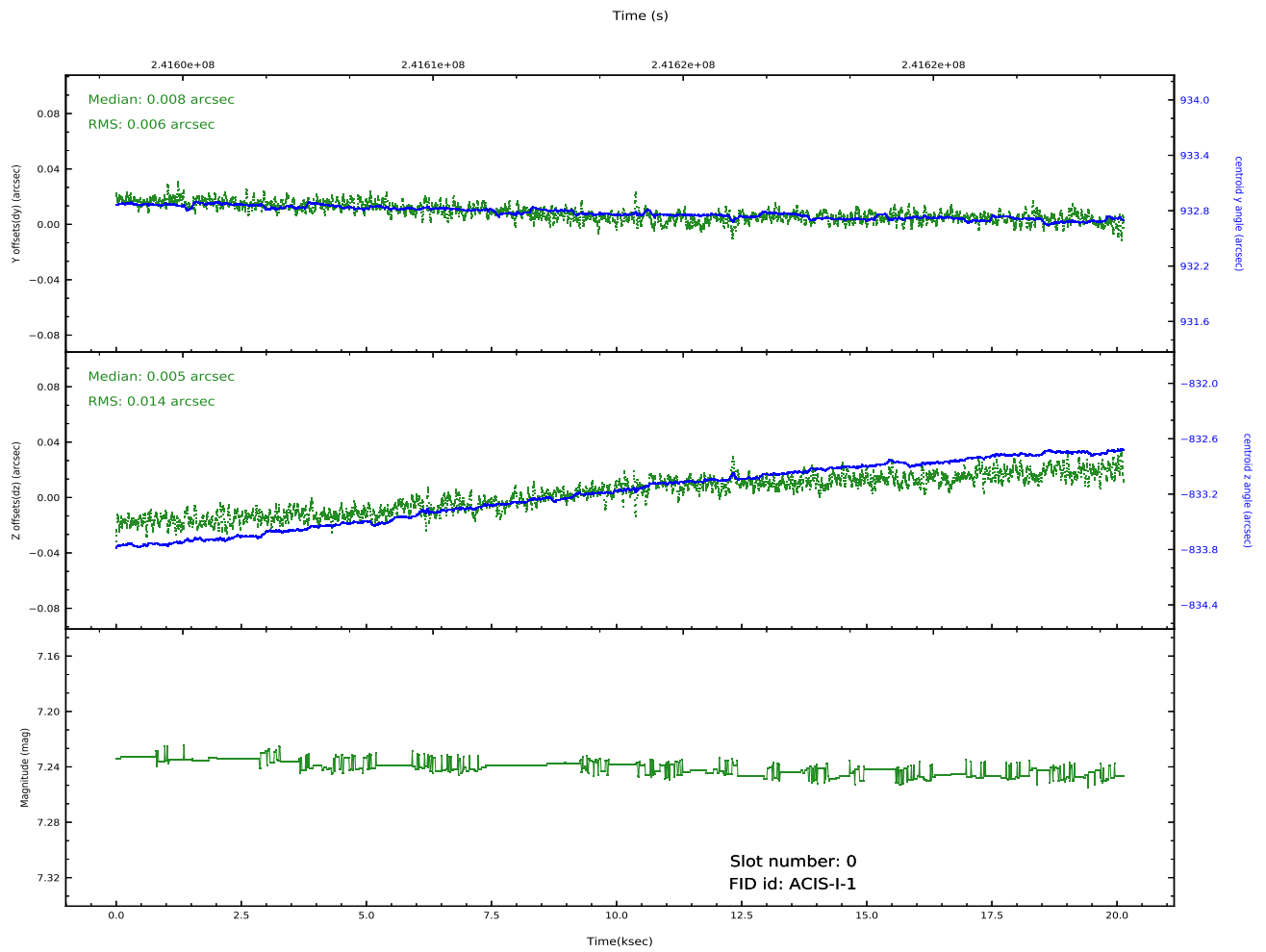
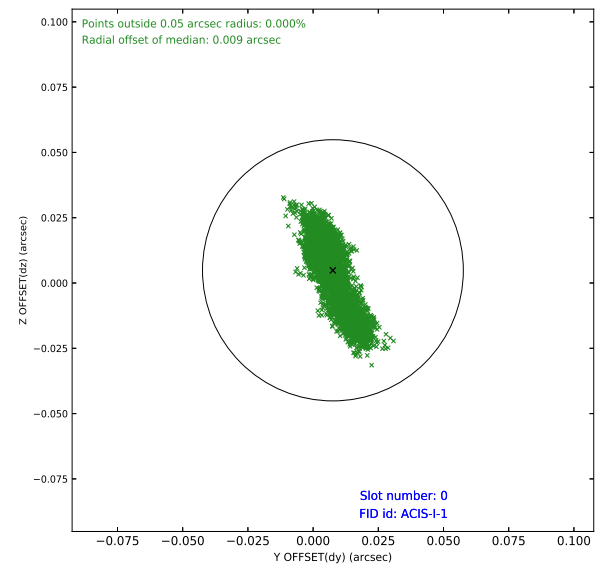
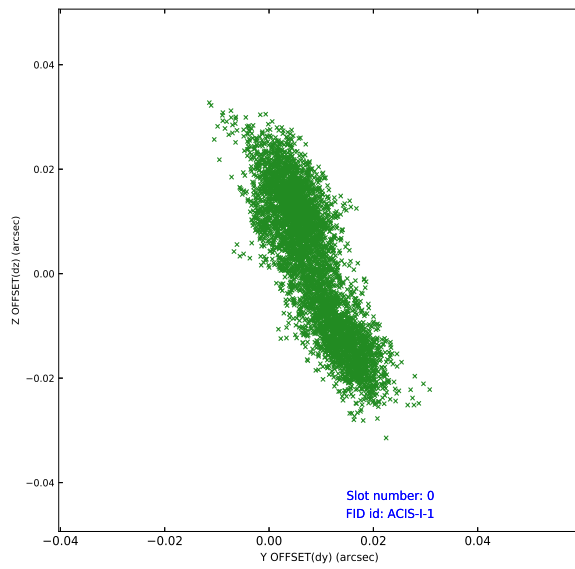


## 2.4.5 Slot 7

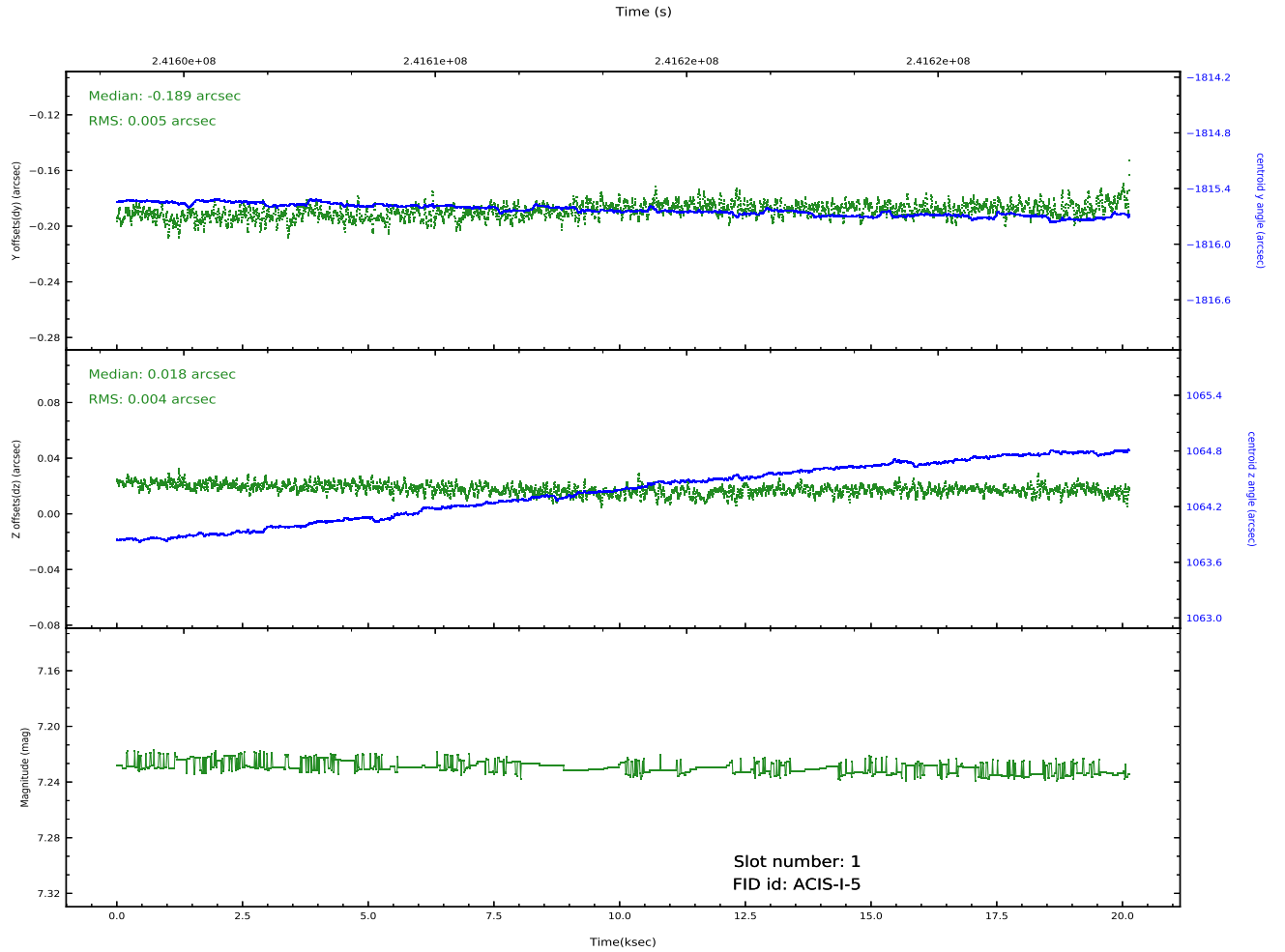
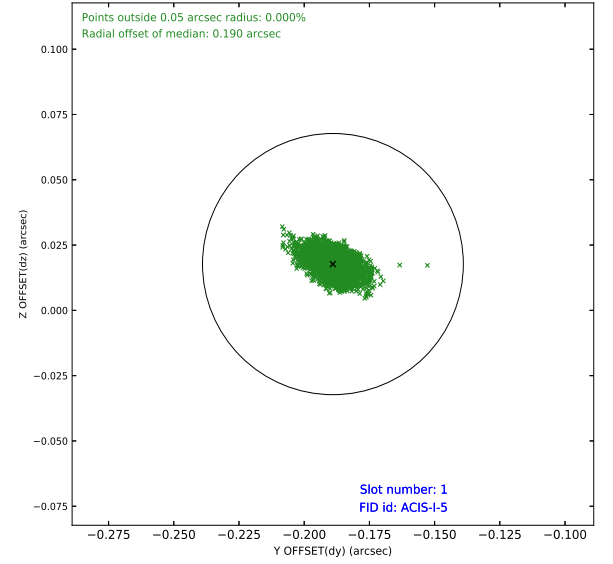
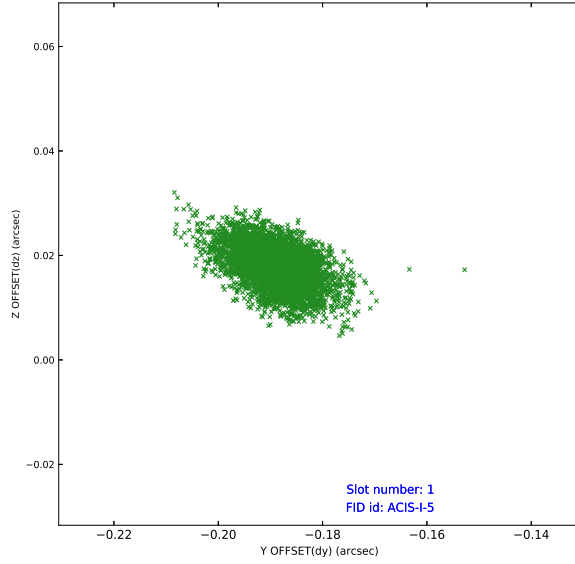


## 2.5 FID Slots

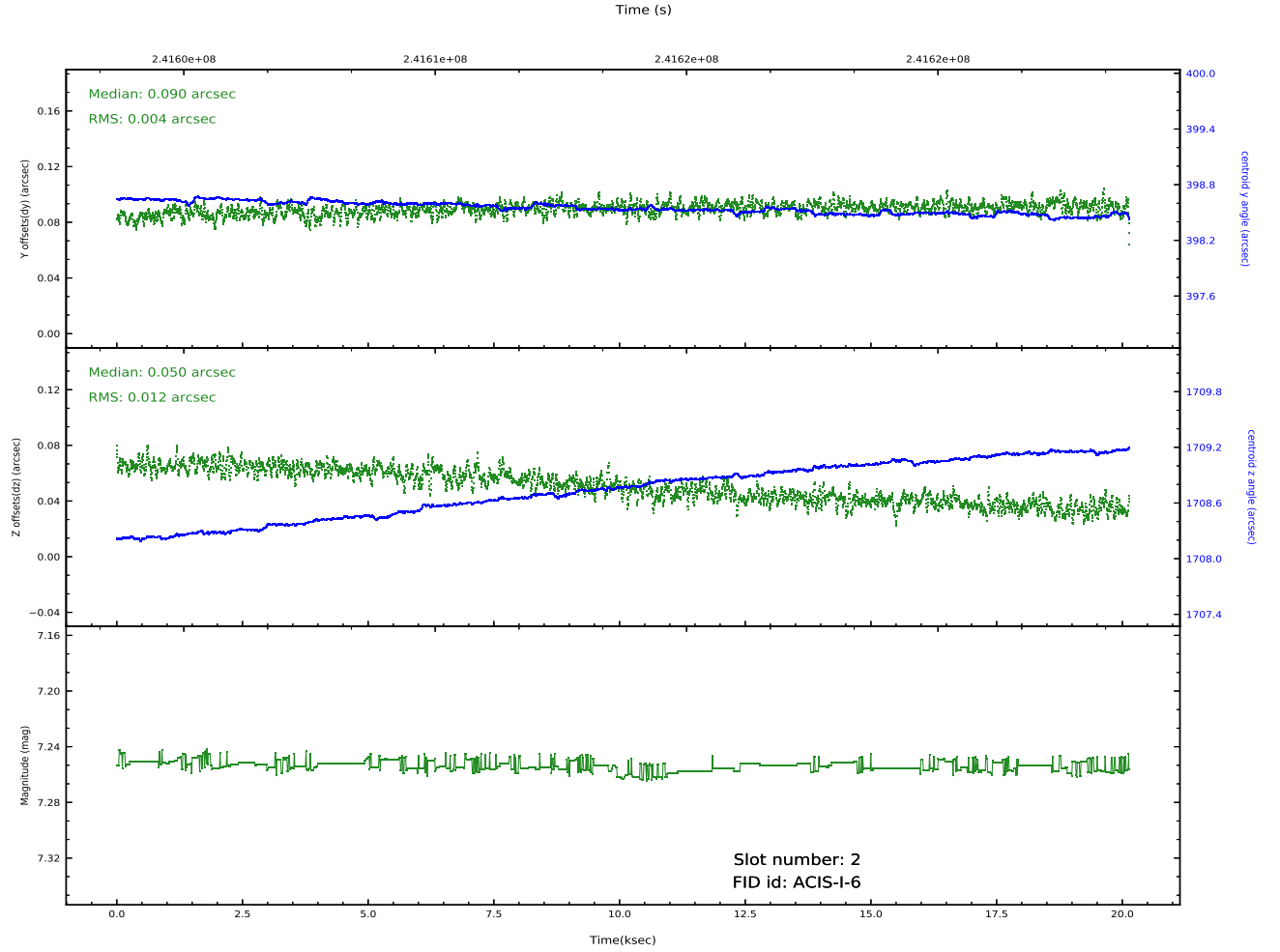
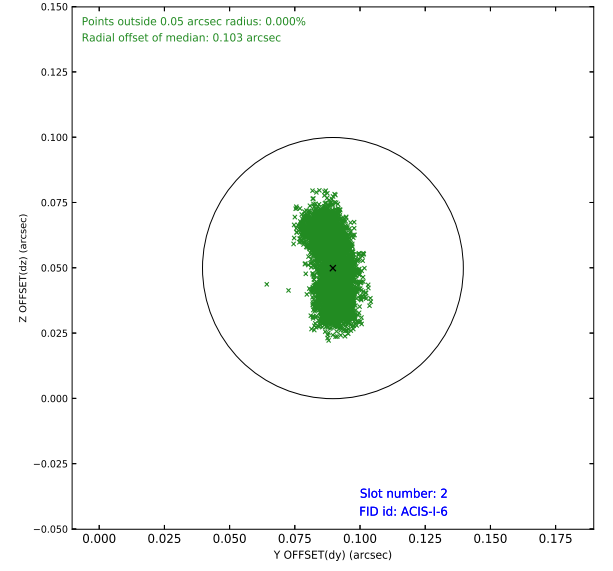
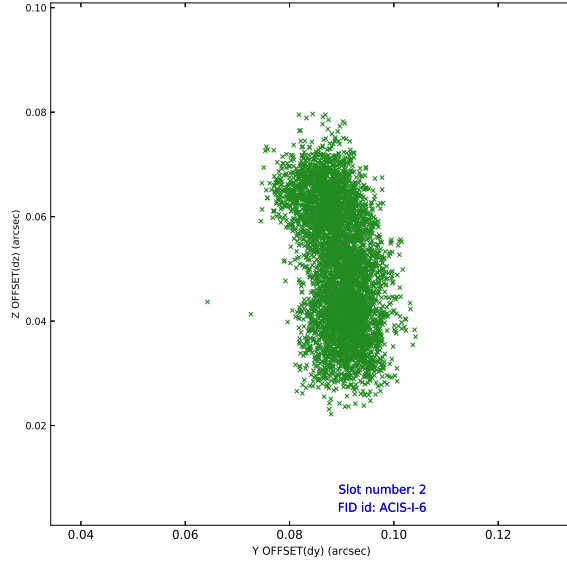
### 2.5.1 Slot 0



## 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	20.13135

### A.2 Comments