

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5656 - L2 Version 4  
Chandra X-Ray Center

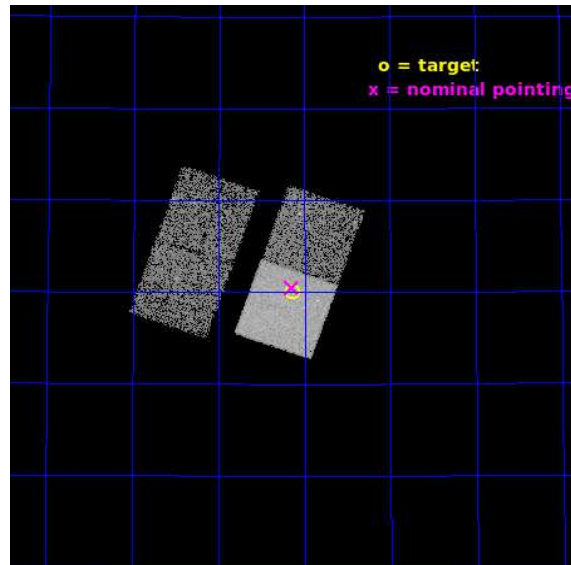
L2 Processing Date : Oct 5 2020

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# 1 Front

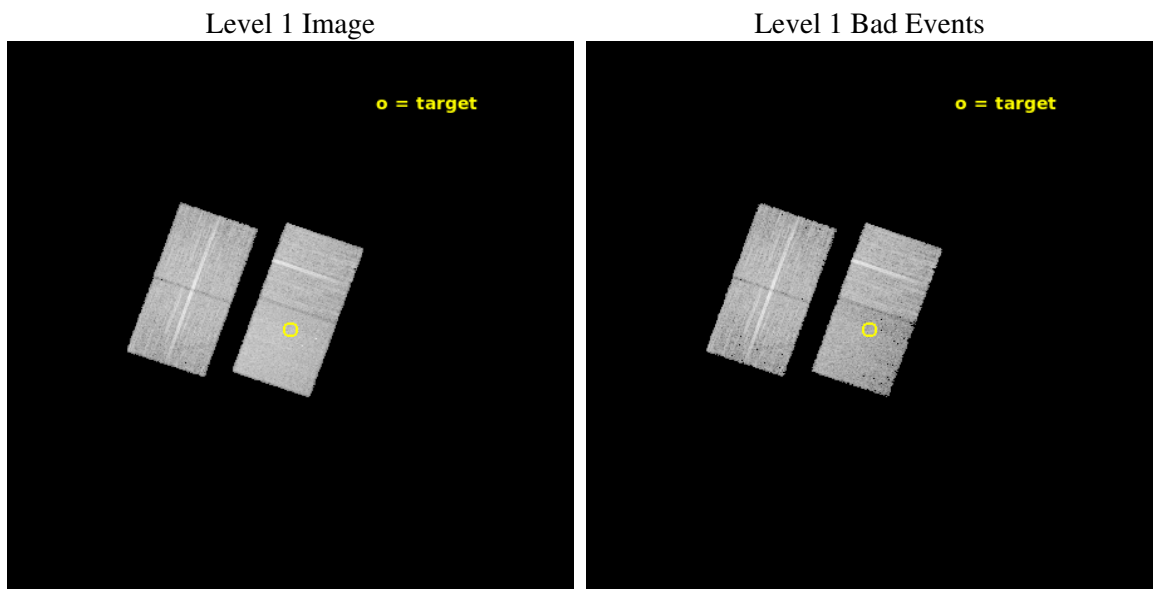
seq_num	701079	Sequence number
obs_id	5656	Observation id
title	The Spectral Energy Distribution and Fe II Emission in Intermediate-Redshift Narrow-line Seyfert 1 Galaxies	Proposal title
observer	Professor Karen Leighly	Principal investigator
object	SDSS J083007.99+532000.9	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	127.533333	Observer's specified target RA [deg]
dec_targ	53.333583	Observer's specified target Dec [deg]
ra_nom	127.5366784362	Nominal RA [deg]
dec_nom	53.341765549176	Nominal Dec [deg]
roll_nom	109.26847188161	Nominal Roll [deg]
revision	4	Processing version of data
ontime	11761.399977356	Sum of GTIs [s]
livetime	11607.728628035	Livetime [s]
ontime2	11761.399977356	Sum of GTIs [s]
ontime3	11758.258987099	Sum of GTIs [s]
ontime6	11761.399977356	Sum of GTIs [s]
ontime7	11761.399977356	Sum of GTIs [s]
l2events	54465	Number of level 2 events



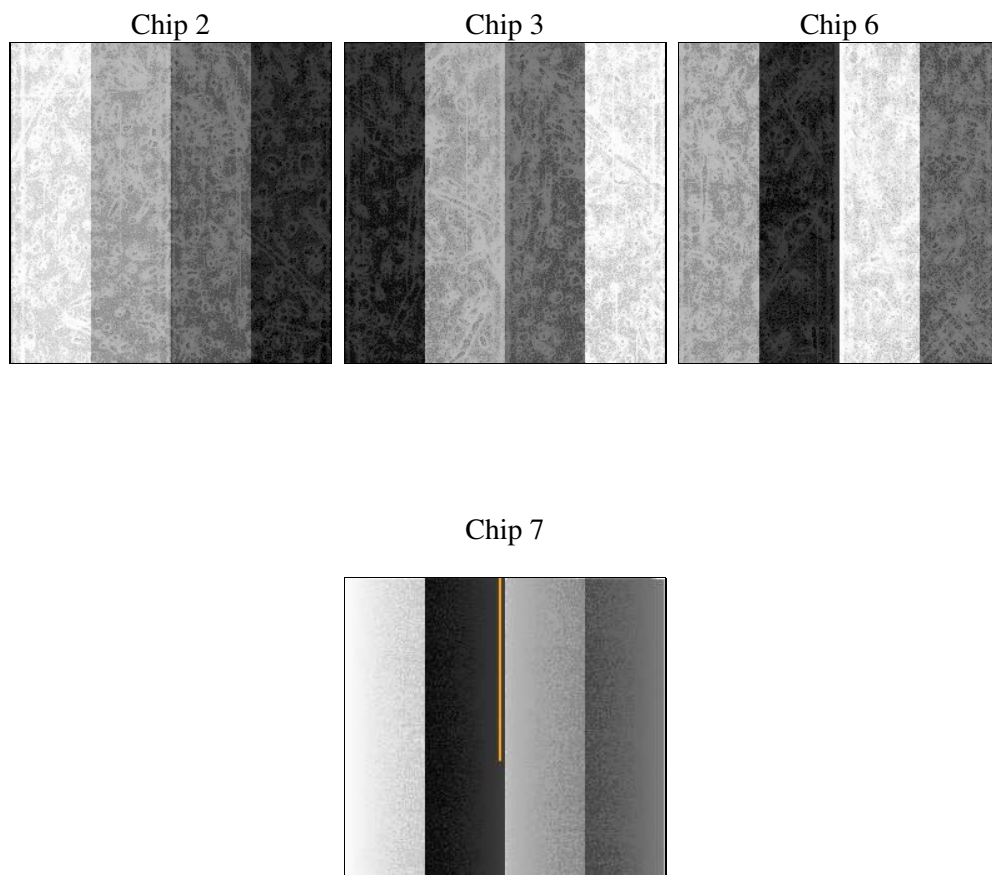
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	11588.840000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	11761.399977356	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime2	11761.399977356	Sum of GTIs [s]
date	2020-10-05T12:50:09	Date and time of file creation	ontime3	11758.258987099	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	11761.399977356	Sum of GTIs [s]
			ontime7	11761.399977356	Sum of GTIs [s]
			l1events	349507	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	86980	81856	88712	91959
rejected events	80053	75188	80950	54329
rejected %	92%	91%	91%	59%

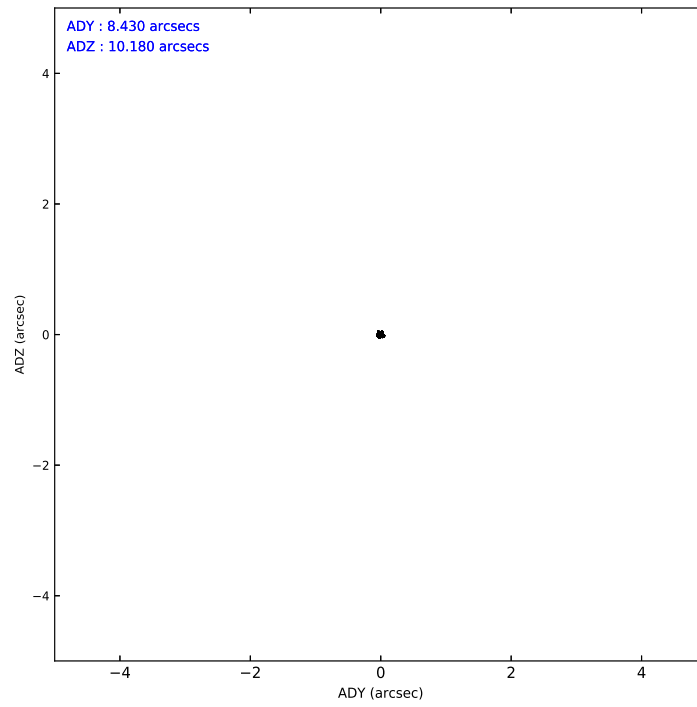
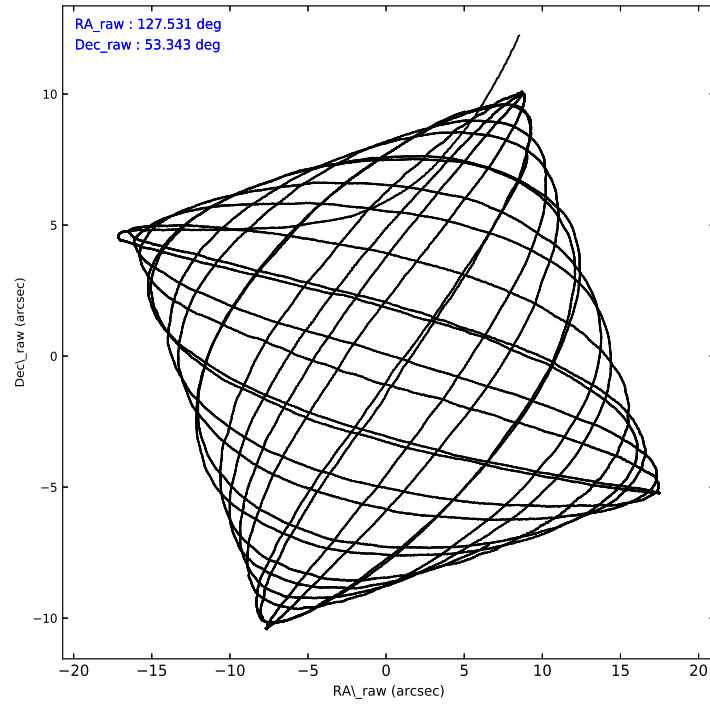
	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2827	2581	3123	3835
	3%	3%	3%	4%
grade 1 events	33	39	24	73
	0%	0%	0%	0%
grade 2 events	1768	1554	1786	8381
	2%	1%	2%	9%
grade 3 events	872	878	966	3969
	1%	1%	1%	4%
grade 4 events	899	908	939	3936
	1%	1%	1%	4%
grade 5 events	2760	3266	3276	9762
	3%	3%	3%	10%
grade 6 events	1419	1516	1829	21669
	1%	1%	2%	23%
grade 7 events	76402	71114	76769	40334
	87%	86%	86%	43%

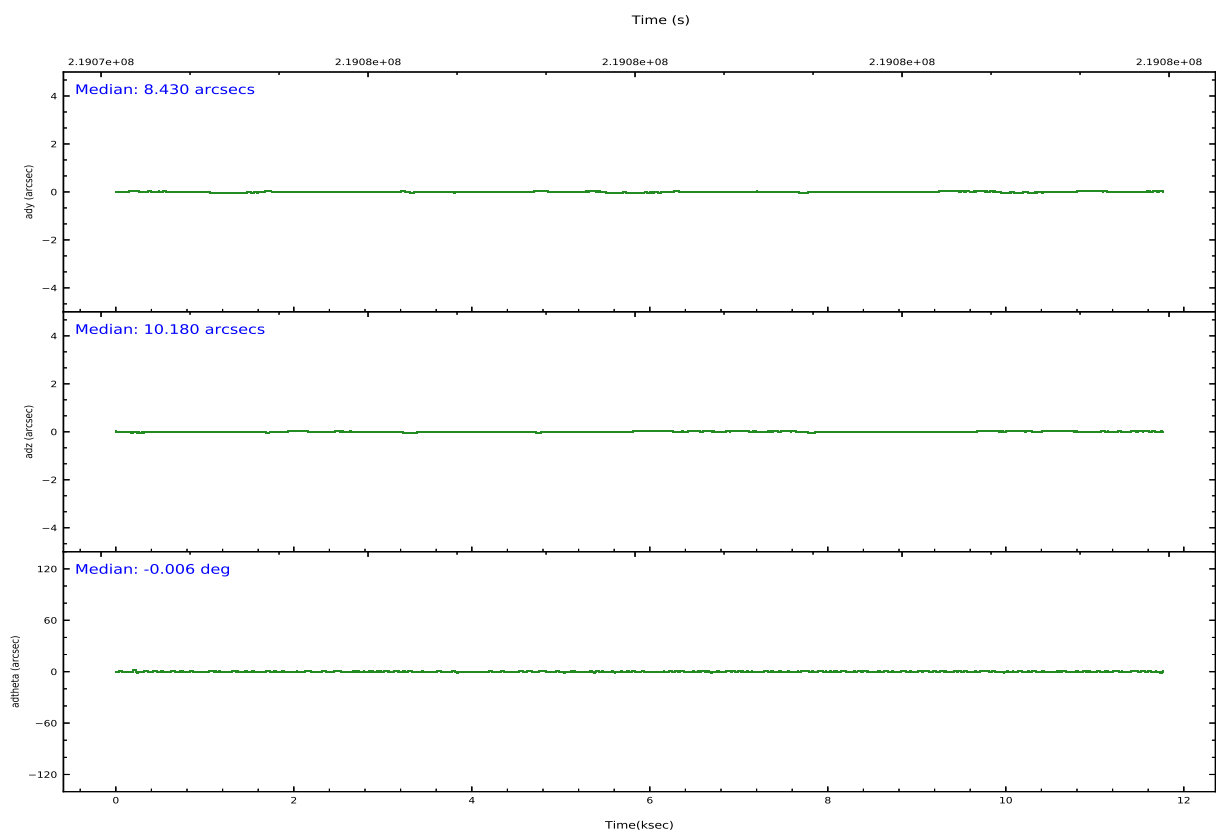
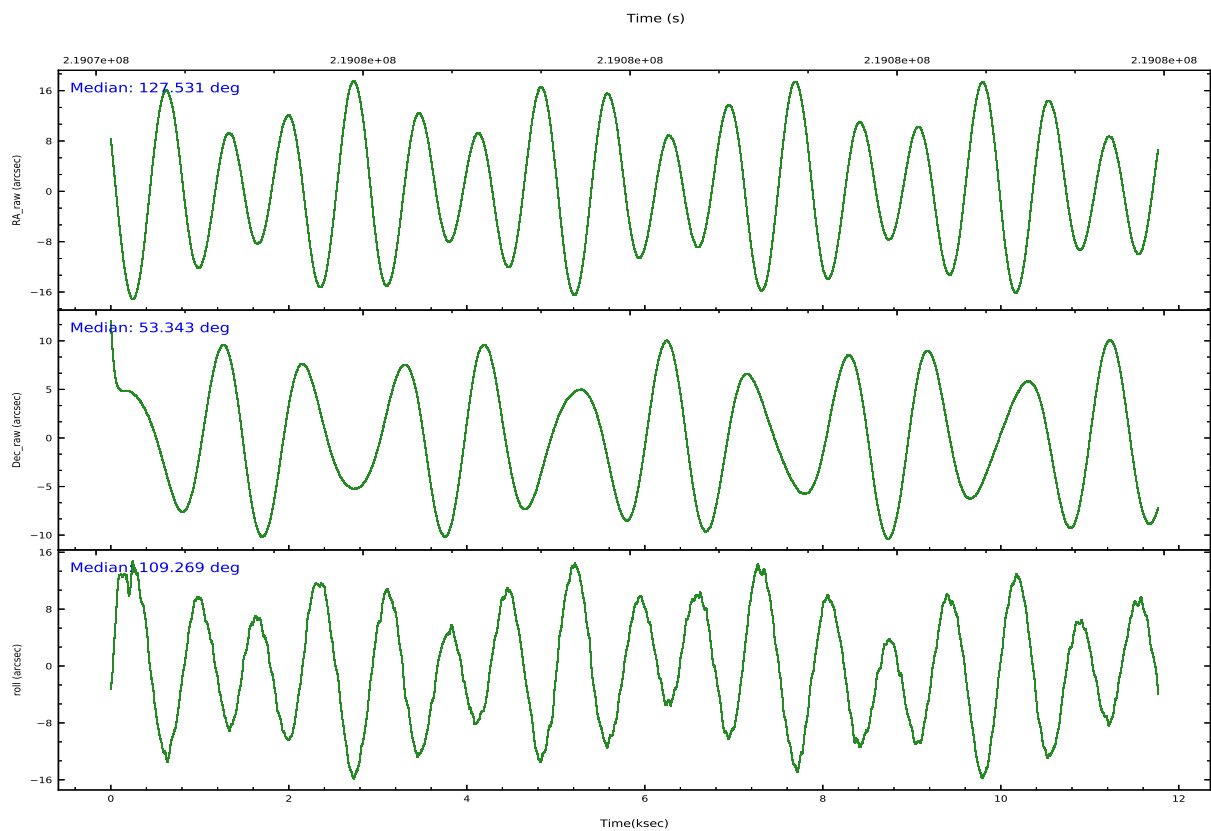


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-2367	ACIS-2367	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	127.565695	127.5366784362	Subarray requested	NONE	NONE
[deg] Pointing Dec	53.325628	53.341765549176	Alternating exposures requested	N	N
[deg] Pointing Roll	109.082098	109.26847188161	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	219073345.184000	219071746.59105			
Observation start date	2004-12-10T13:41:21	2004-12-10T13:15:46			
[s] Observation end time (MET)	219084934.184000	219085158.71665			
Observation end date	2004-12-10T16:54:30	2004-12-10T16:59:18			
Read mode	TIMED	TIMED			

## 2.3 Aspect



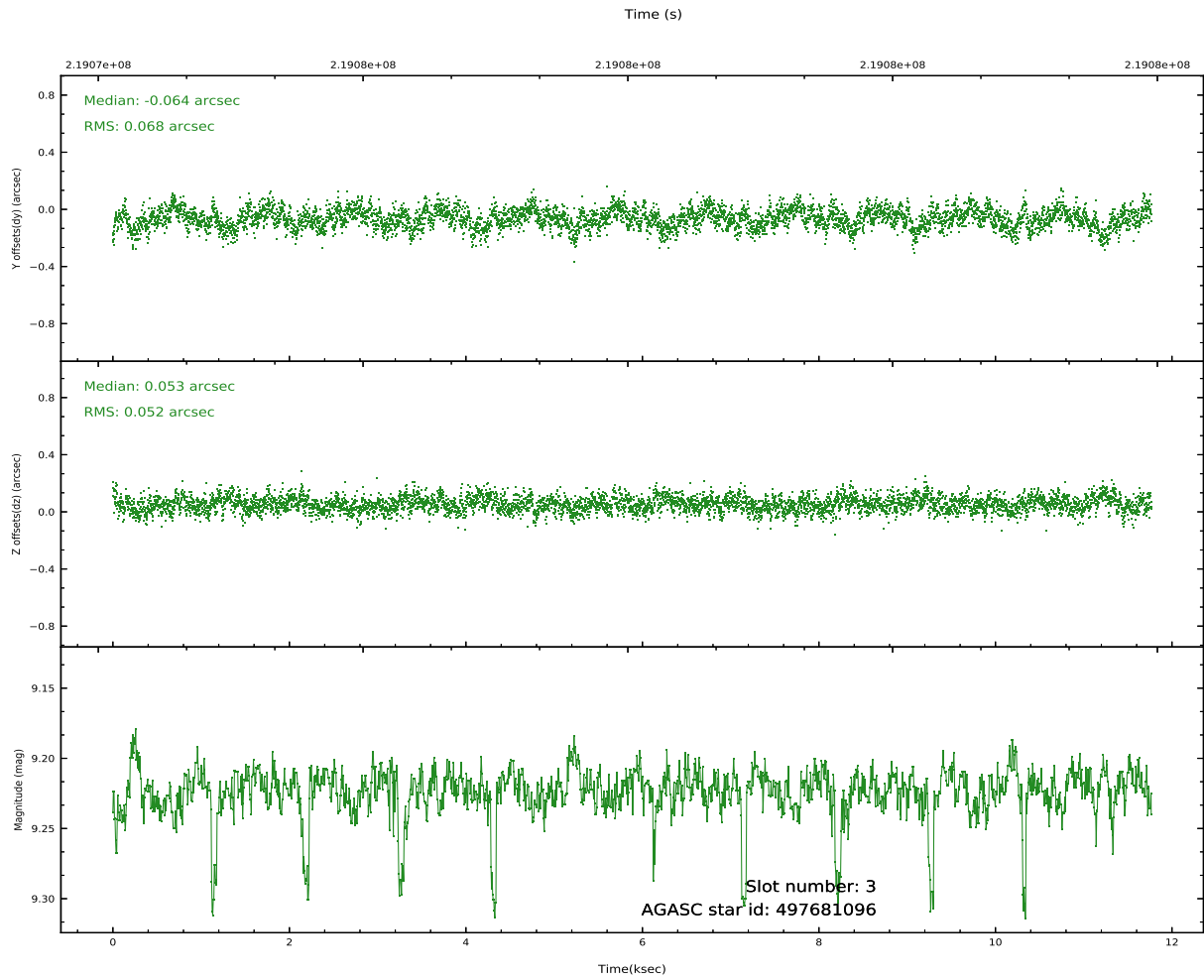
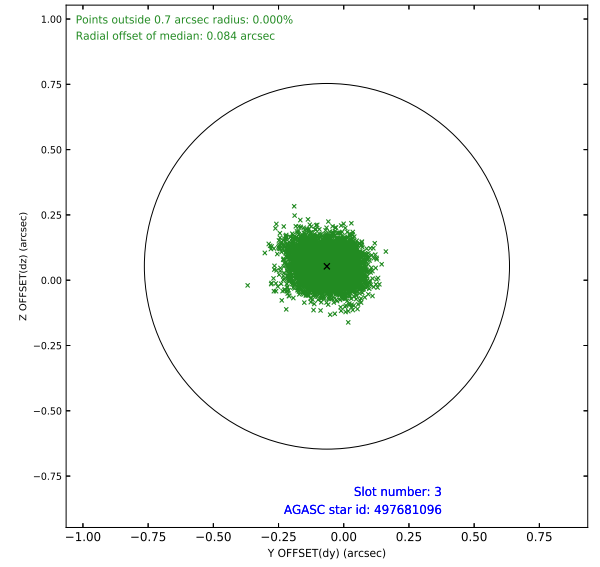
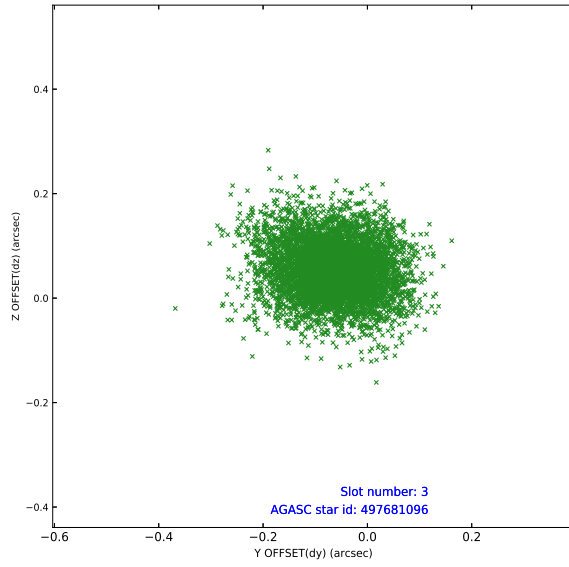


Slot Statistics

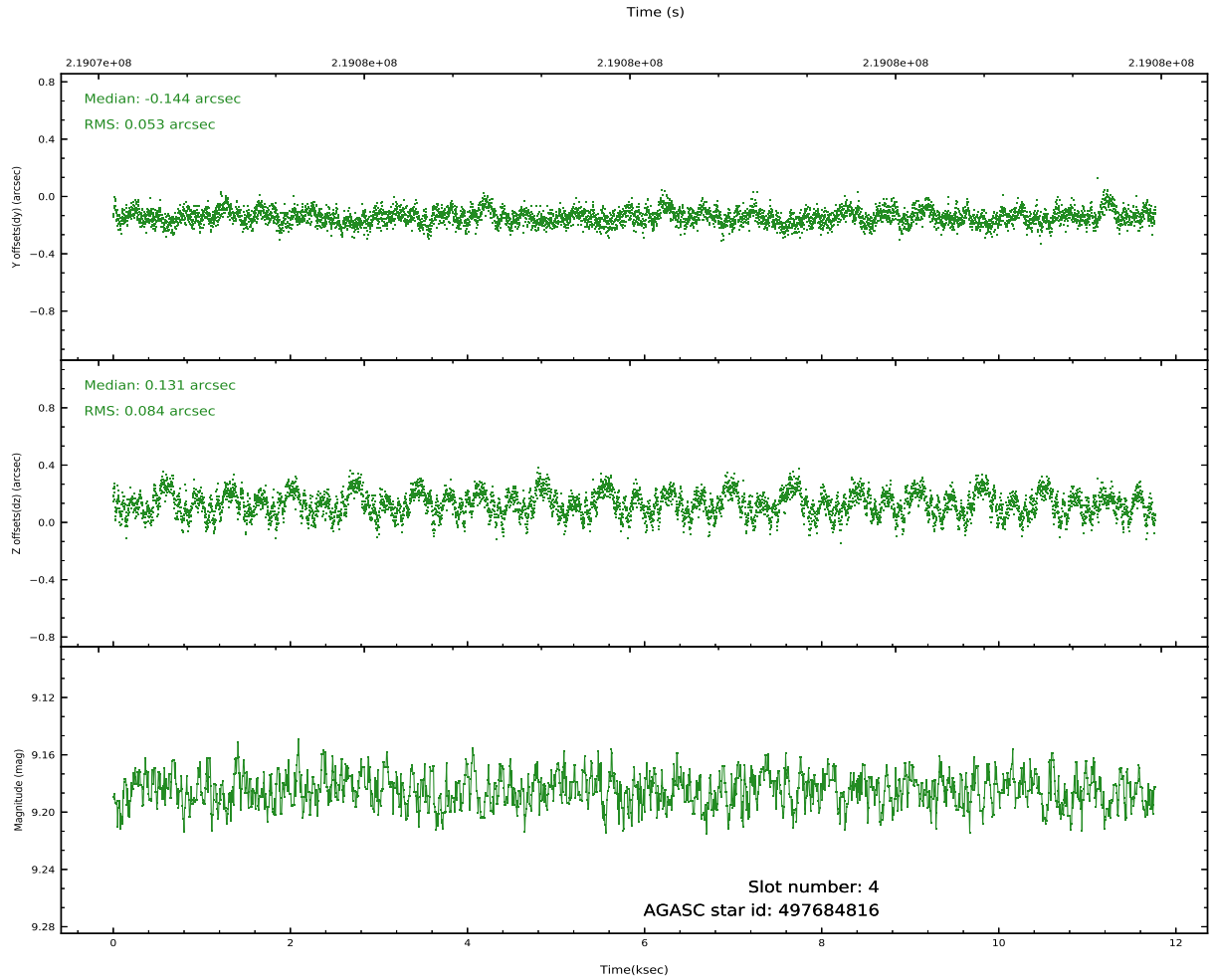
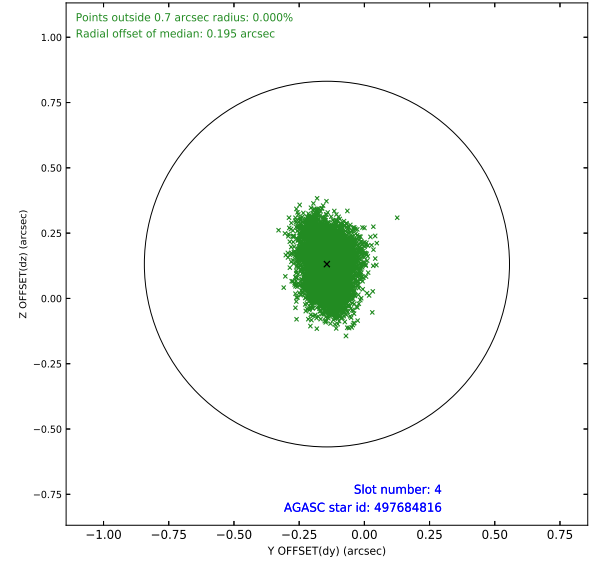
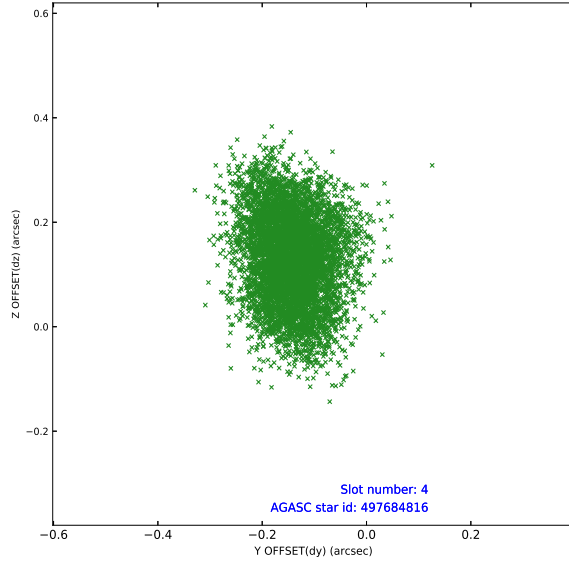
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	2871	1.000	-0.074	-0.066	0.007	0.011	0.000000	0.000000	-761.22	-1731
1	FID		ACIS-S-4	7.21	2871	1.000	0.195	0.054	0.006	0.011	0.000000	0.000000	2152.05	176
2	FID		ACIS-S-5	7.23	2870	1.000	-0.152	0.021	0.006	0.011	0.000000	0.000000	-1813.67	170
3	GUIDE	used	497681096	9.22	5713	1.000	-0.064	0.053	0.090	0.151	127.351200	53.942666	2248.63	-296
4	GUIDE	used	497684816	9.18	5739	1.000	-0.144	0.131	0.107	0.172	128.442903	53.709017	704.86	-2221
5	GUIDE	used	497690224	7.86	5742	1.000	0.102	0.022	0.062	0.095	127.850163	53.122165	-891.60	-342
6	GUIDE	used	497691032	9.37	5737	1.000	0.138	-0.002	0.132	0.205	128.584665	53.177597	-1207.51	-1908
7	GUIDE	used	497694416	7.00	5741	1.000	-0.032	-0.206	0.056	0.086	126.980243	53.457235	862.71	1029

## 2.4 Star Slots

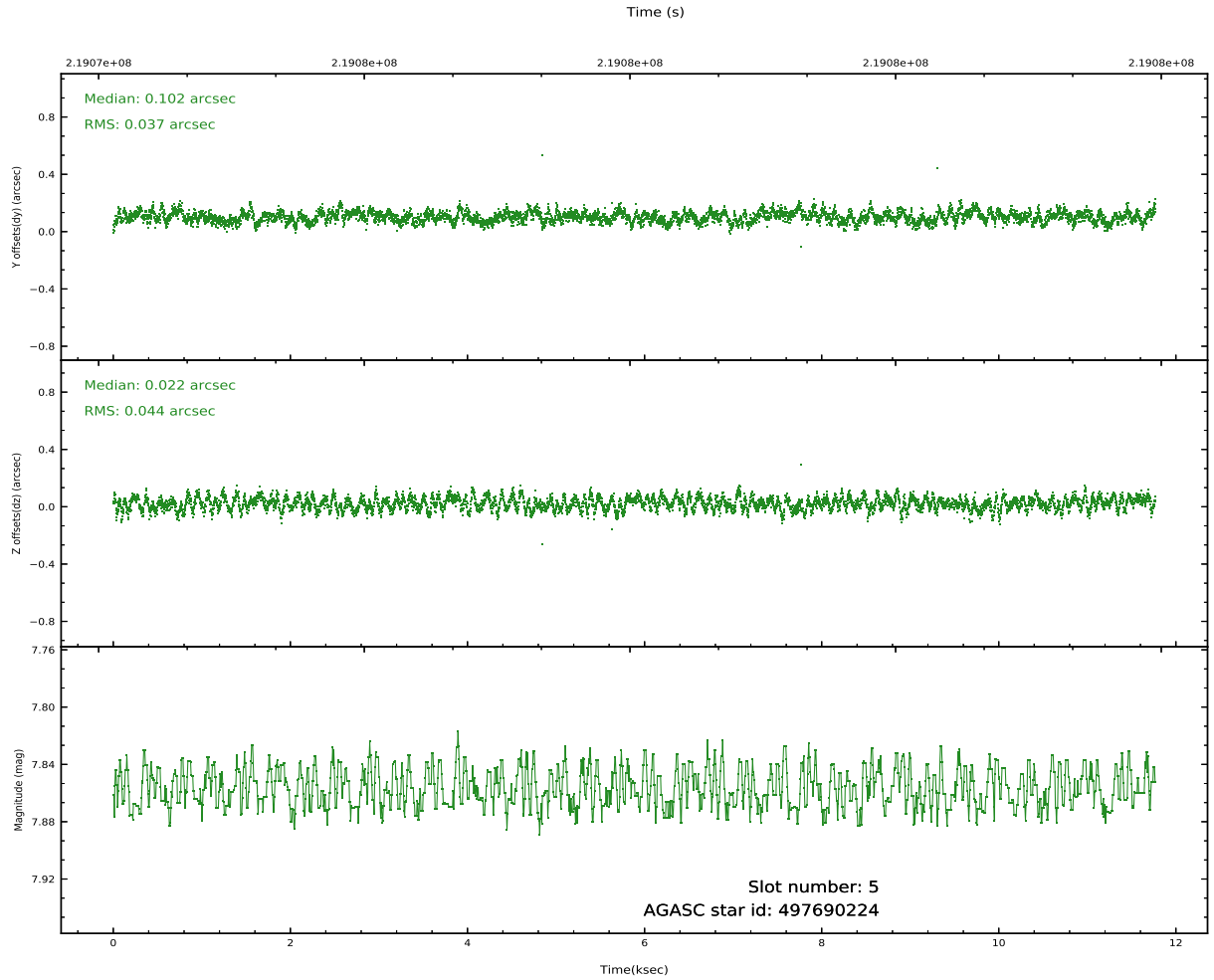
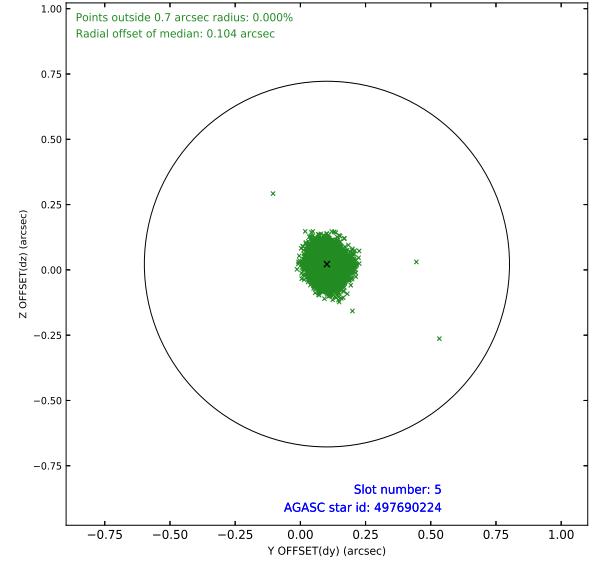
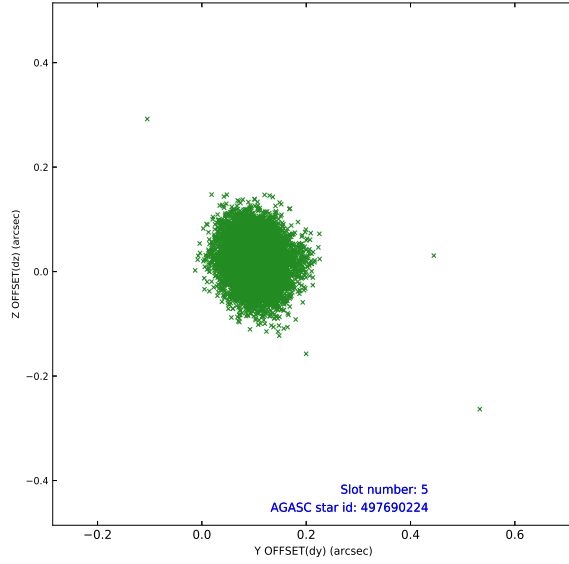
### 2.4.1 Slot 3



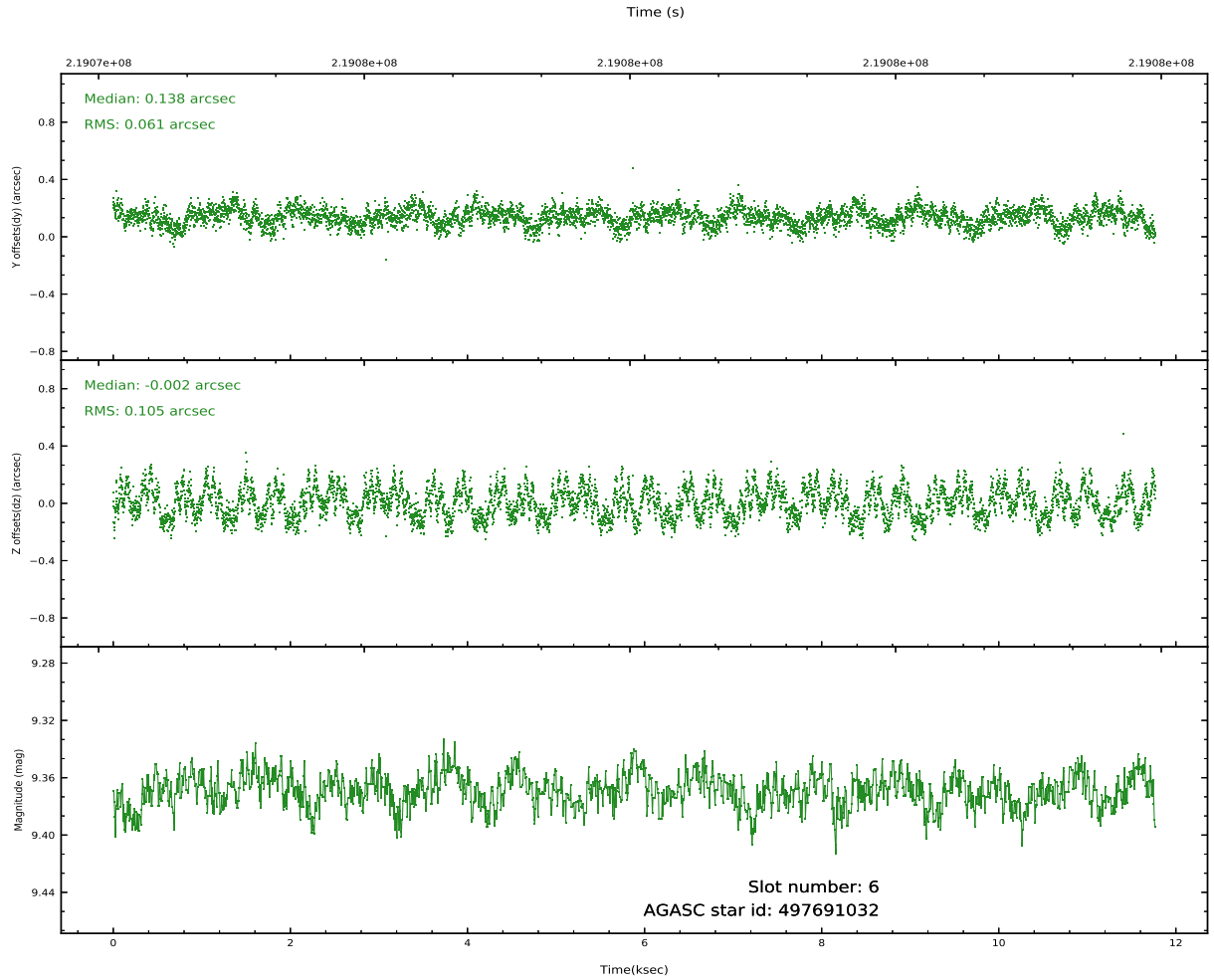
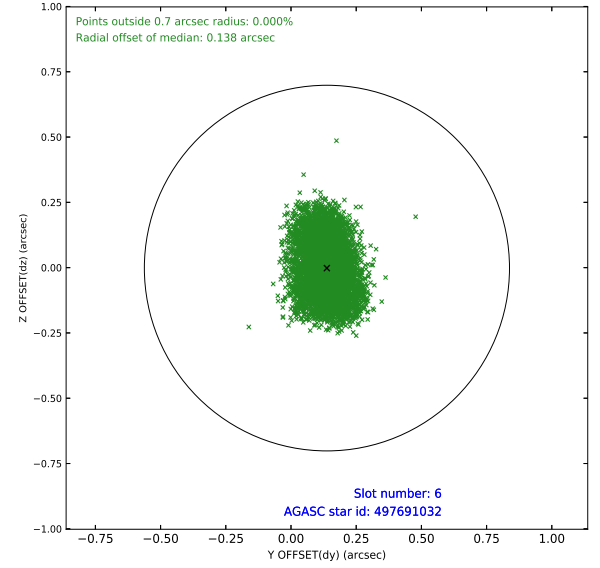
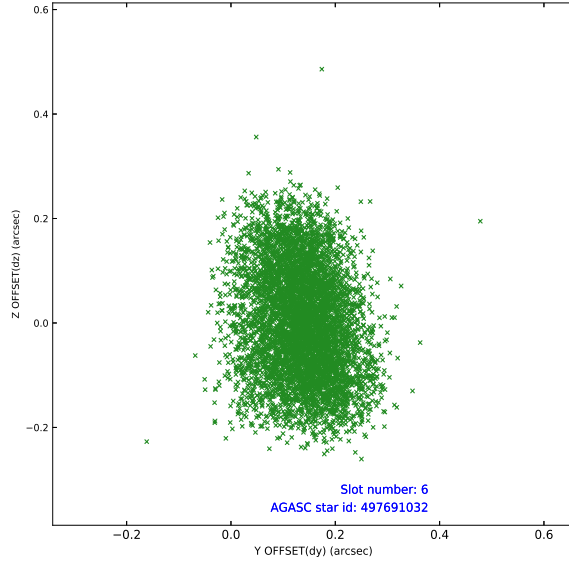
## 2.4.2 Slot 4



### 2.4.3 Slot 5

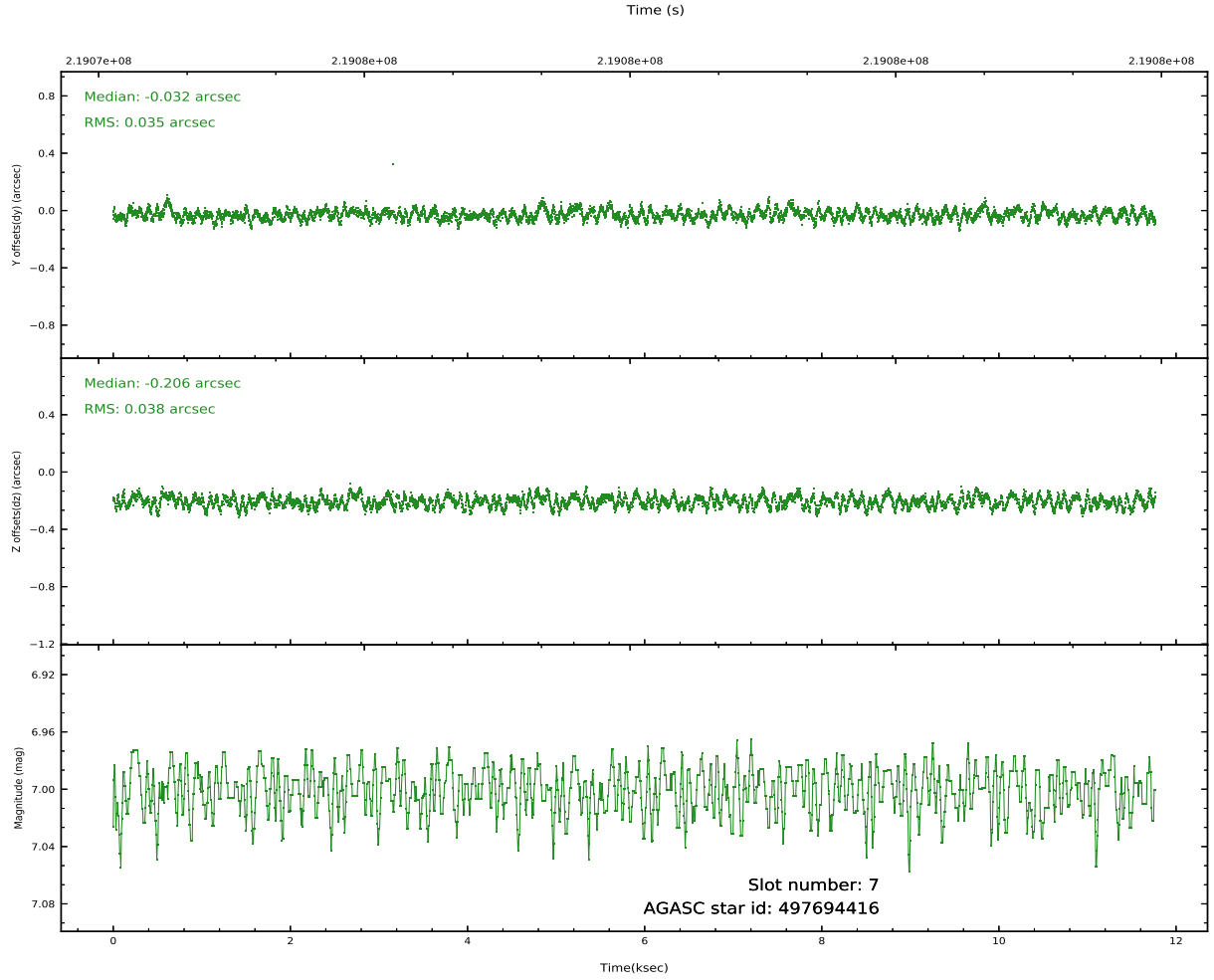
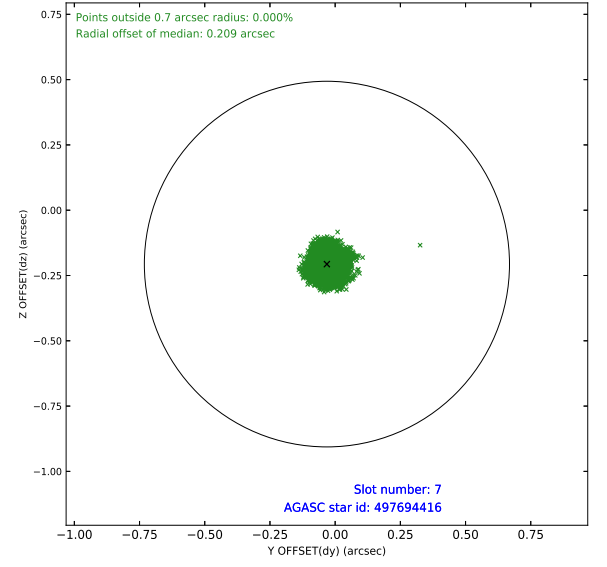
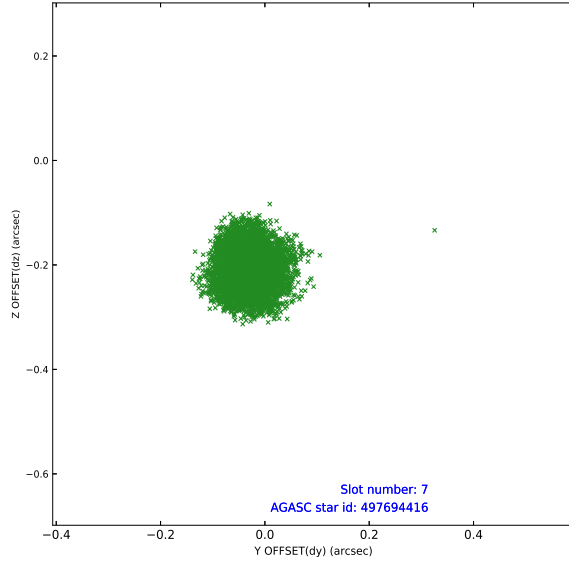


## 2.4.4 Slot 6



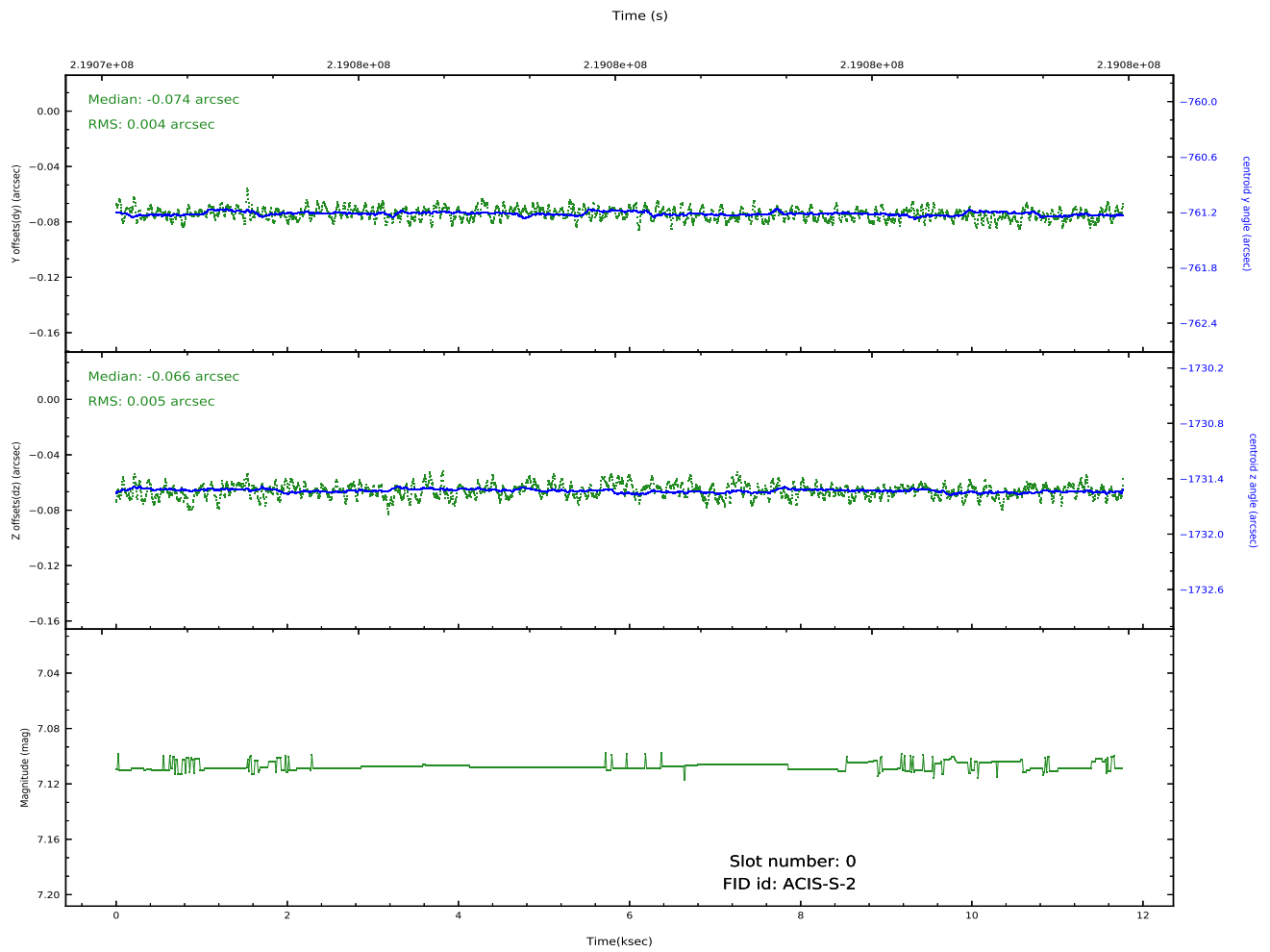
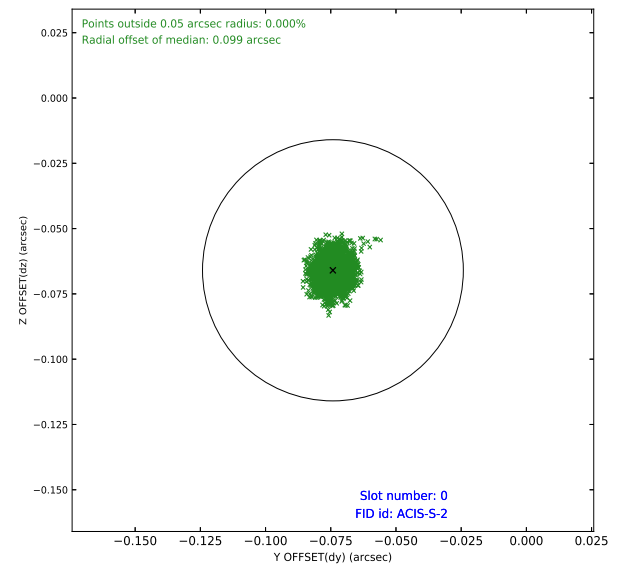
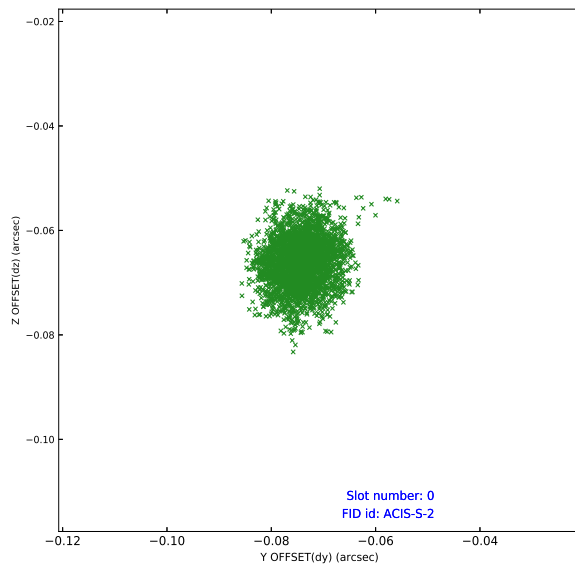


## 2.4.5 Slot 7

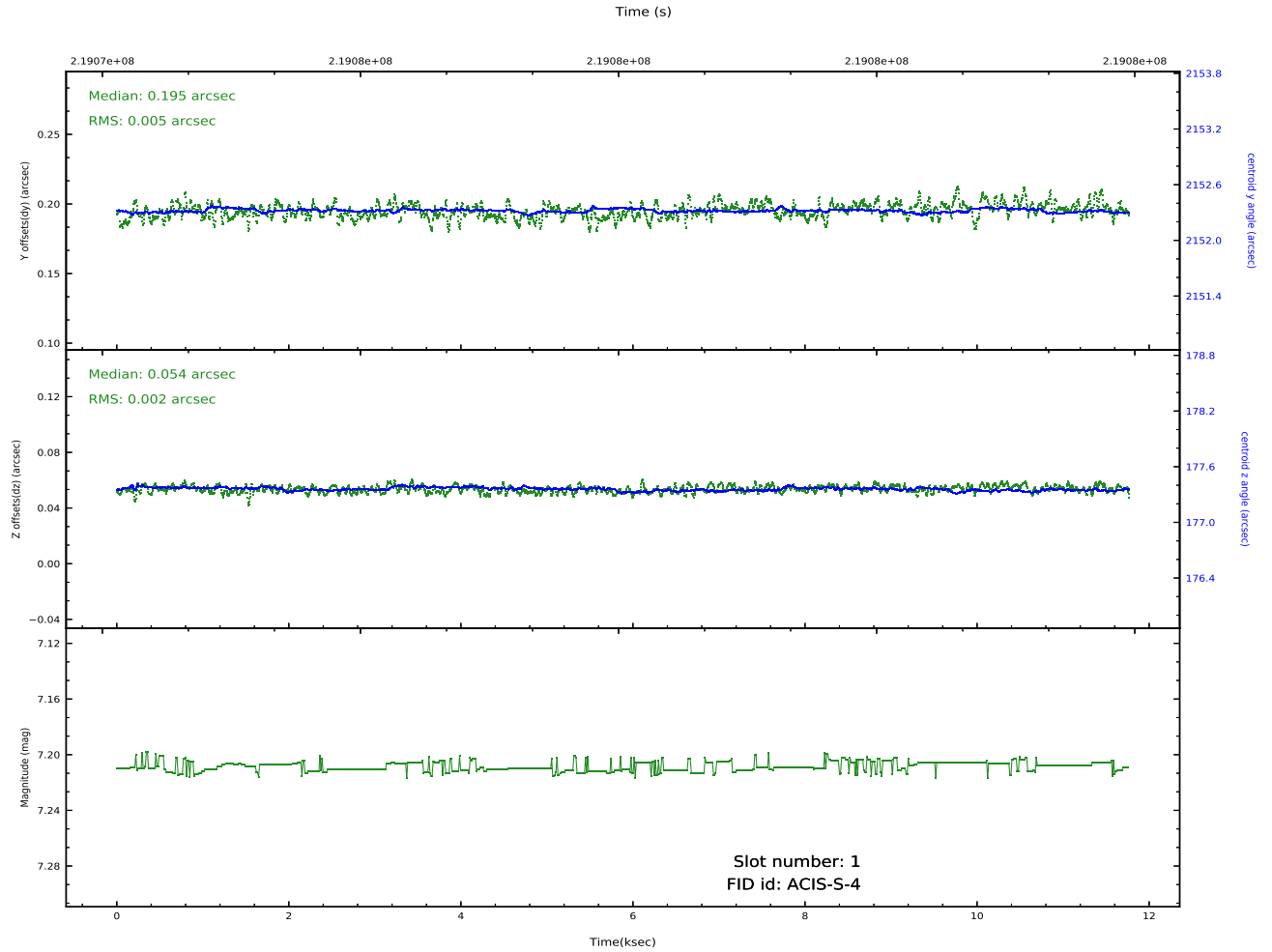
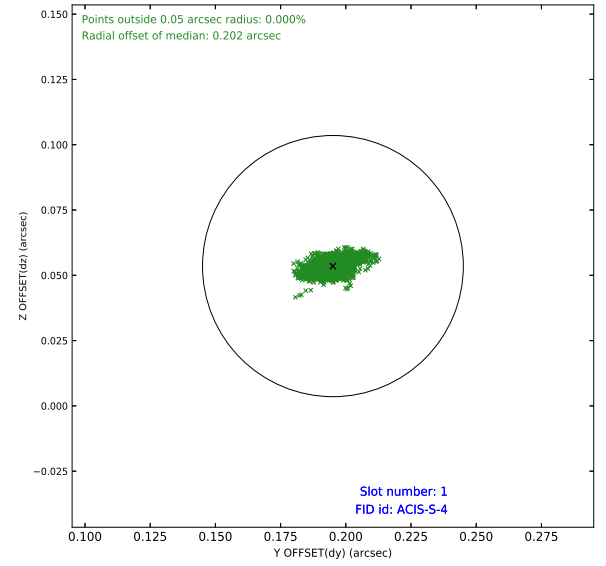
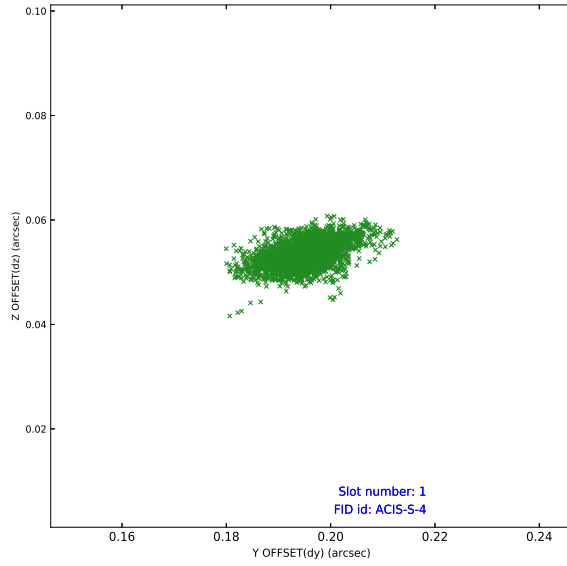


## 2.5 FID Slots

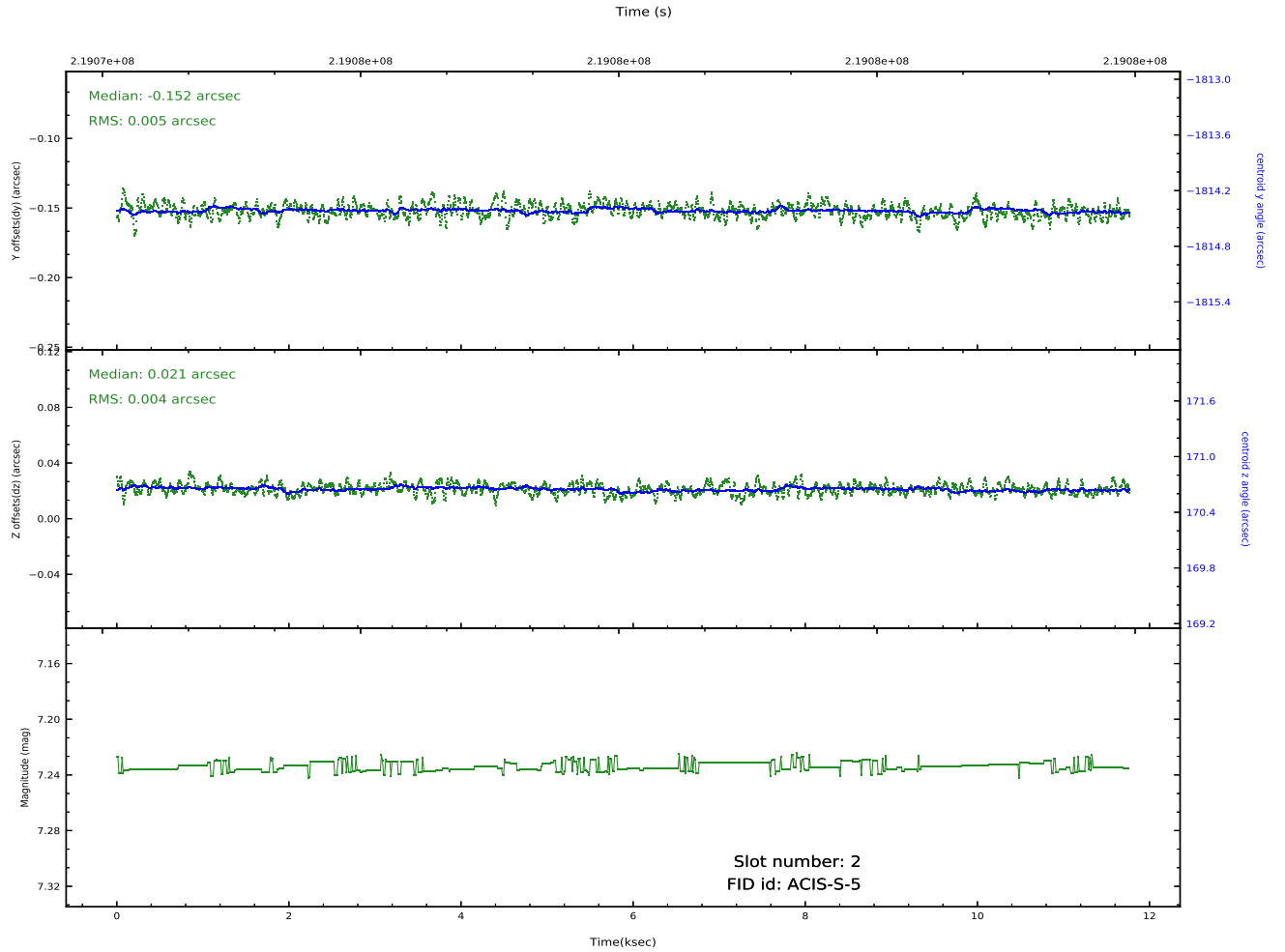
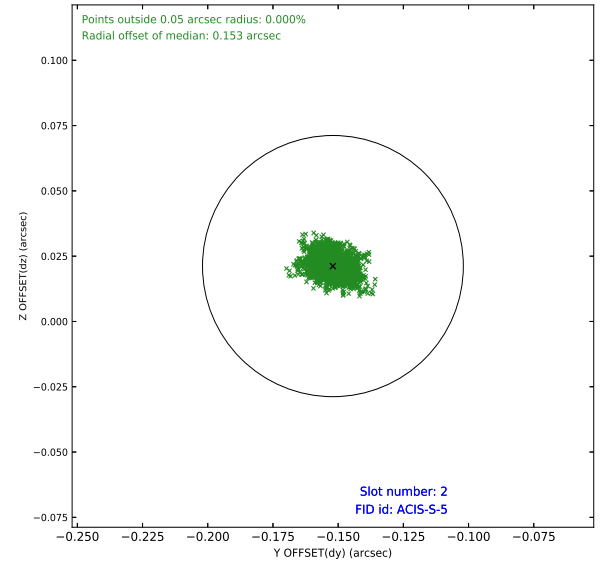
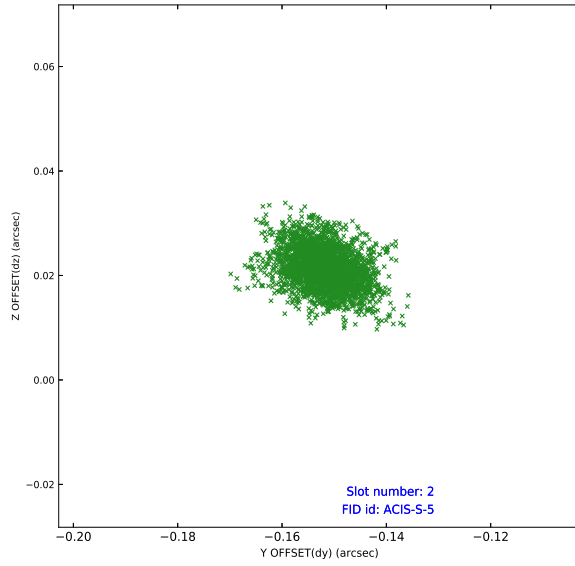
### 2.5.1 Slot 0



## 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)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.76139

### A.2 Comments