

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5642 - L2 Version 4  
Chandra X-Ray Center

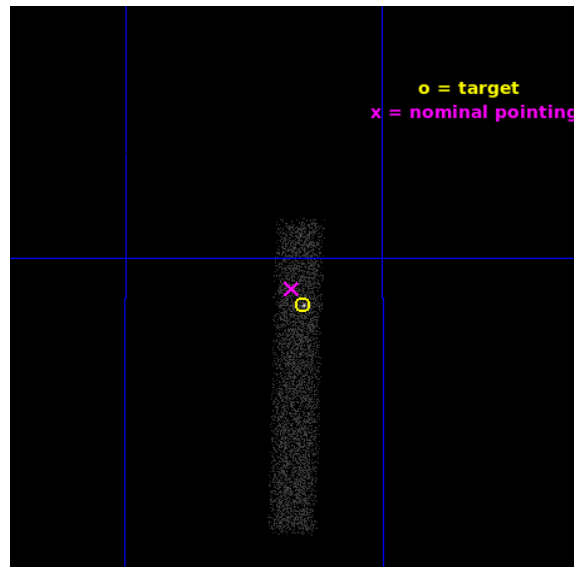
L2 Processing Date : Oct 8 2020

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# 1 Front

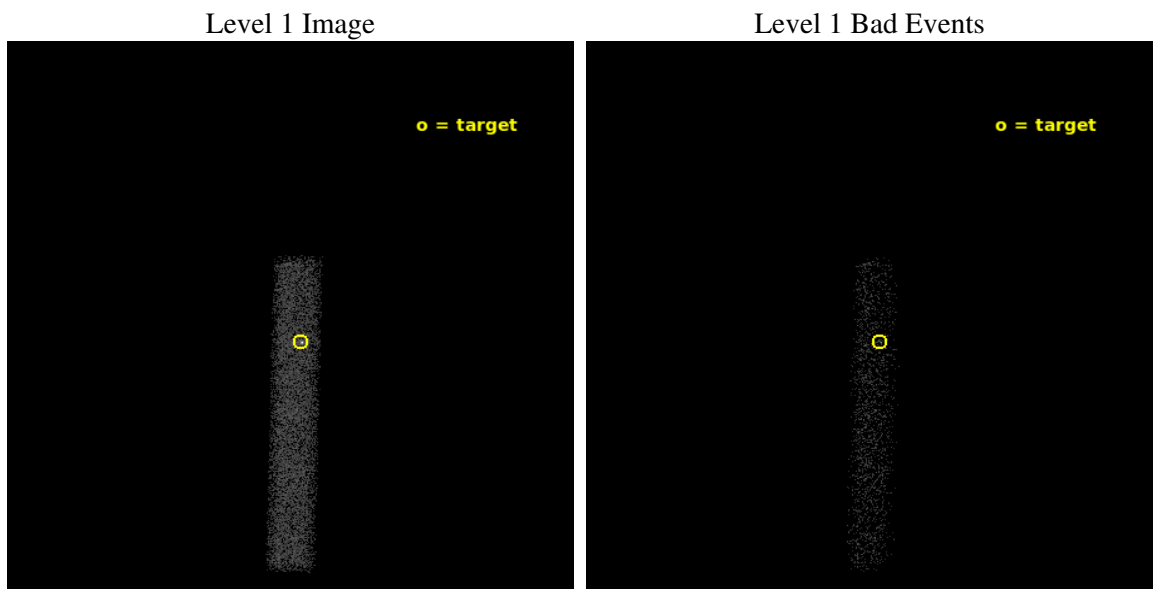
seq_num	701065	Sequence number
obs_id	5642	Observation id
title	The Extended X-ray Structure of a New Population of Blazars	Propos
observer	Dr. Hermine Landt	Principal investigator
object	RGB J2256+263	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	344.163333	Observer's specified target RA [deg]
dec_targ	26.312111	Observer's specified target Dec [deg]
ra_nom	344.16887754256	Nominal RA [deg]
dec_nom	26.319638916901	Nominal Dec [deg]
roll_nom	91.279207534138	Nominal Roll [deg]
revision	4	Processing version of data
ontime	9853.6001468003	Sum of GTIs [s]
livetime	8936.6952174862	Livetime [s]
ontime7	9853.6001468003	Sum of GTIs [s]
l2events	8153	Number of level 2 events



## 2 OBI

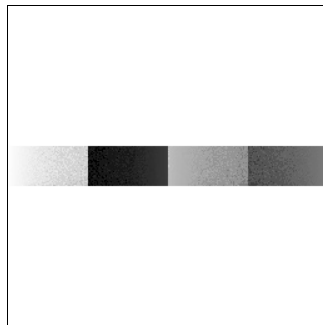
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 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	9853.6001468003	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime7	9853.6001468003	Sum of GTIs [s]
date	2020-10-08T06:39:15	Date and time of file creation	l1events	15721	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	15721
rejected events	7323
rejected %	46%

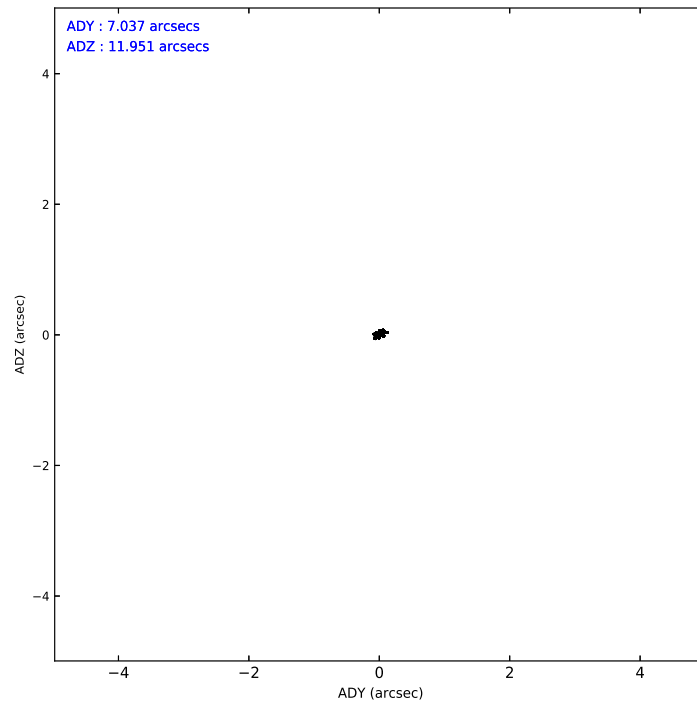
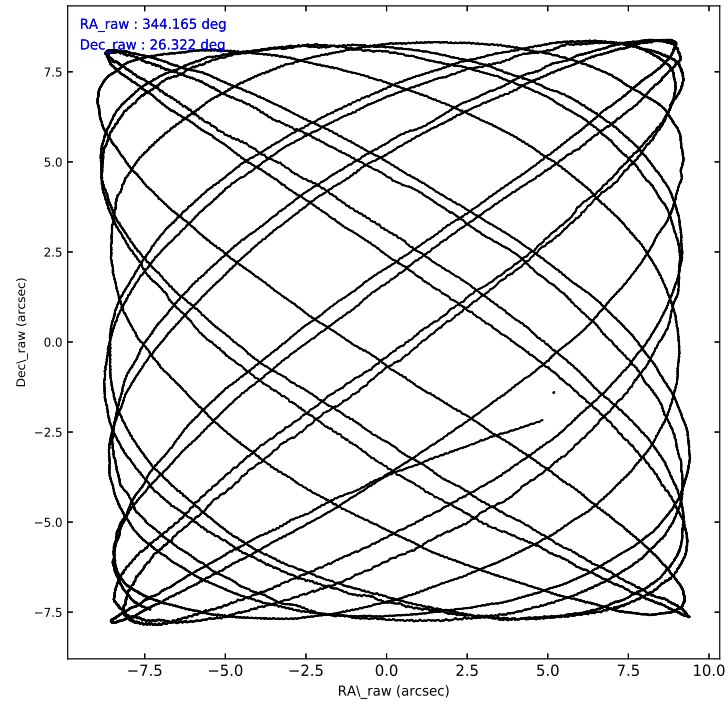
	<b>ccd 7</b>
grade 0 events	1285
	8%
grade 1 events	24
	0%
grade 2 events	1700
	10%
grade 3 events	1067
	6%
grade 4 events	1037
	6%
grade 5 events	1277
	8%
grade 6 events	3309
	21%
grade 7 events	6022
	38%

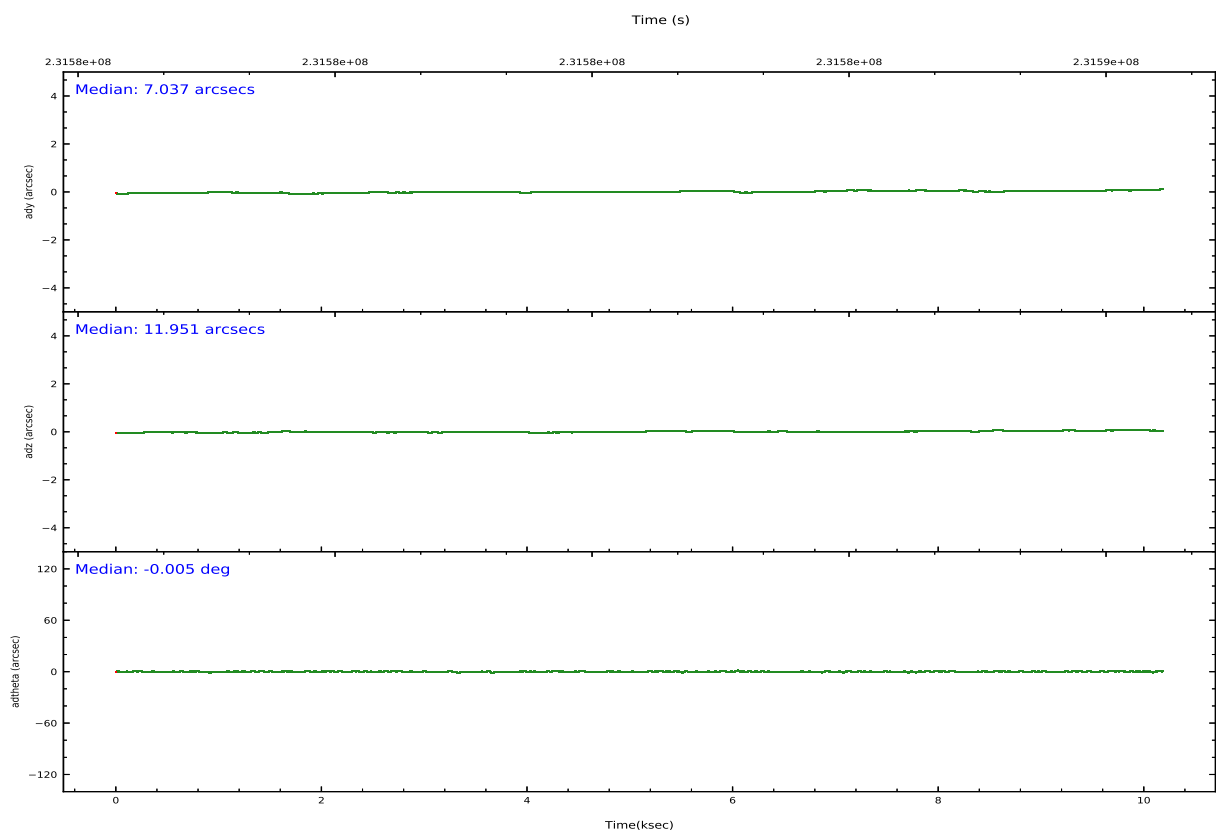
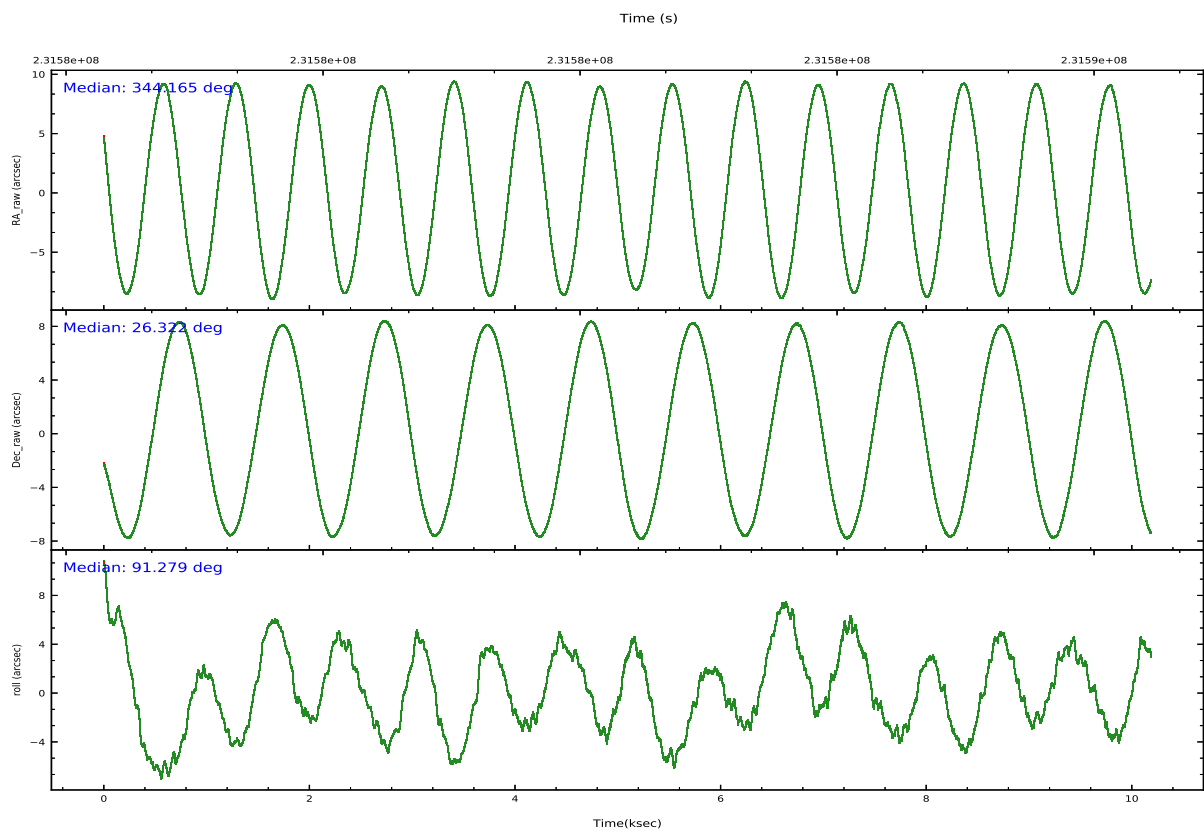


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-7	ACIS-7	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	344.181114	344.16887754256	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	26.298590	26.319638916901	Subarray start row	449	449
[deg] Pointing Roll	91.118362	91.279207534138	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	231578055.184000	231577511.80707			
Observation start date	2005-05-04T07:13:11	2005-05-04T07:05:11			
[s] Observation end time (MET)	231588055.184000	231589561.70762			
Observation end date	2005-05-04T09:59:51	2005-05-04T10:26:01			
Read mode	TIMED	TIMED			

## 2.3 Aspect



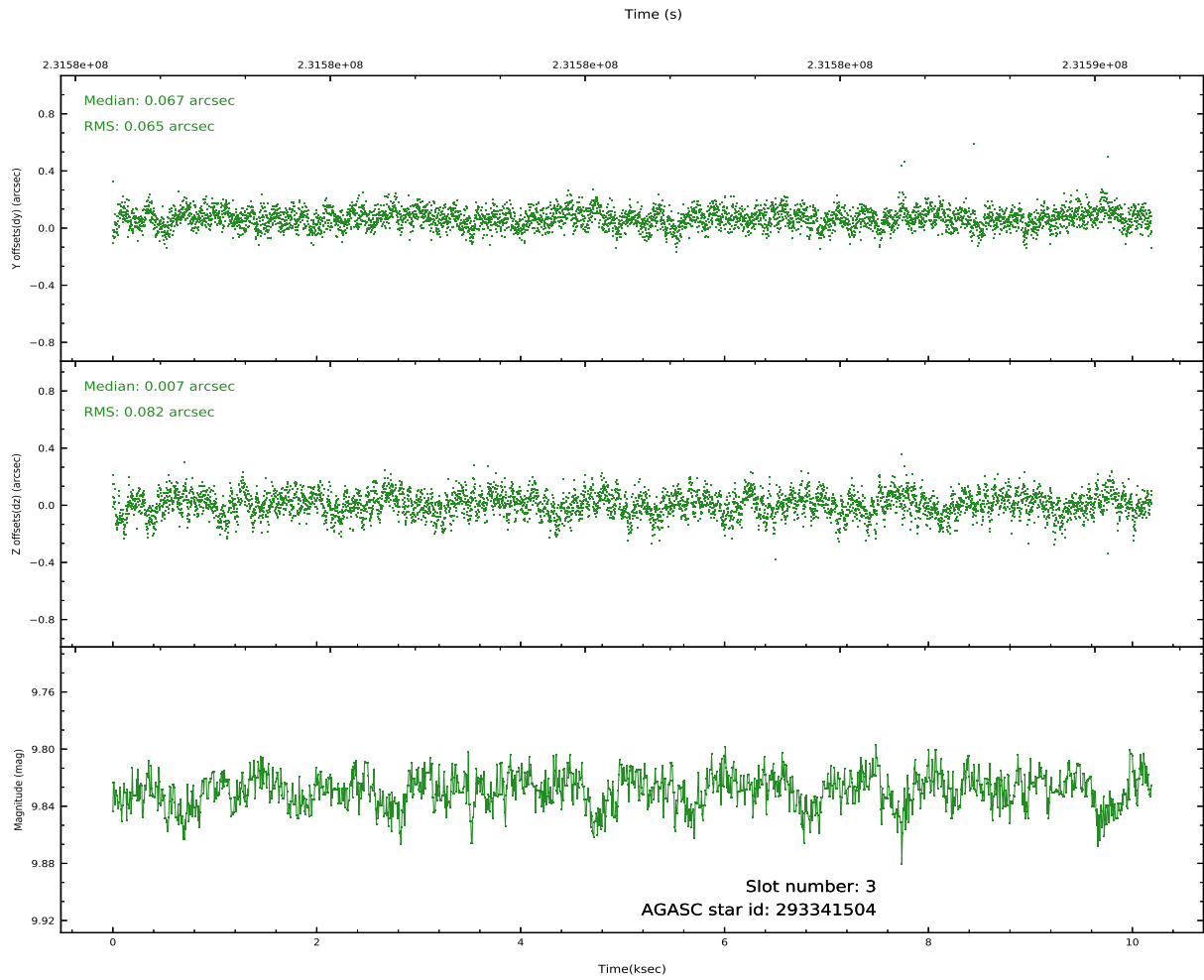
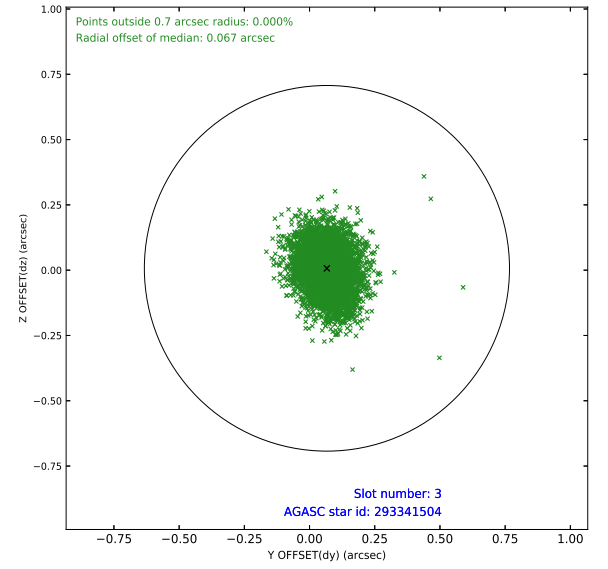
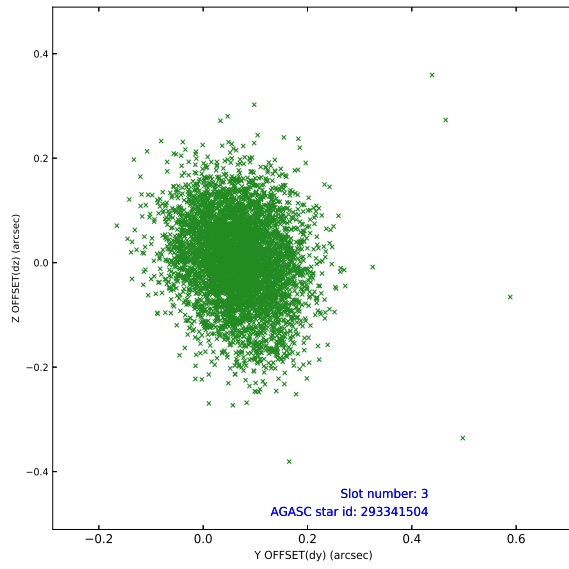


Slot Statistics

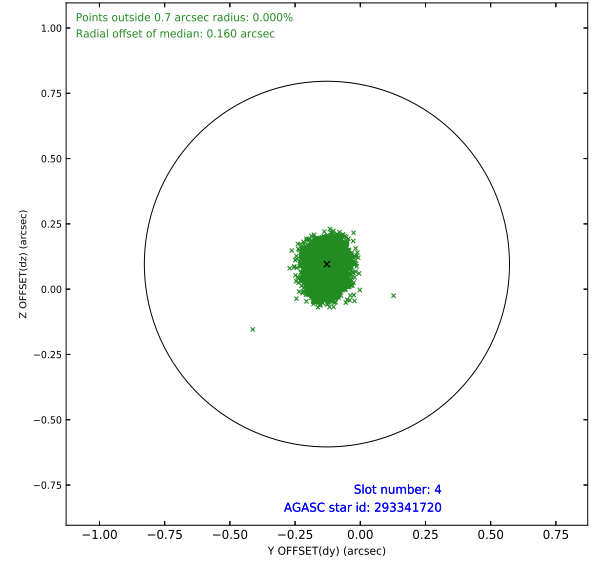
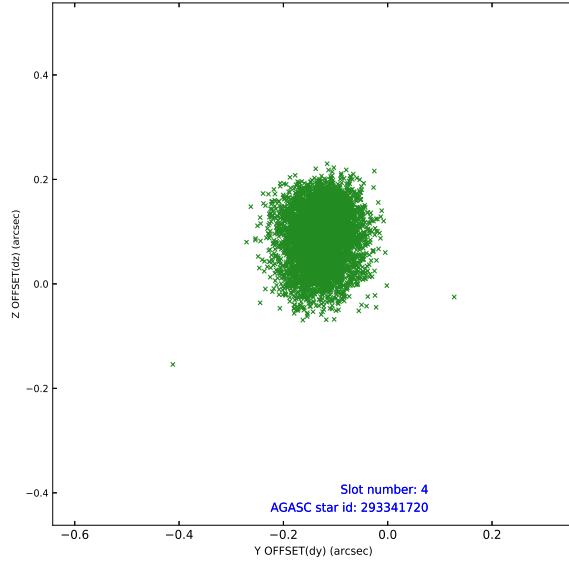
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.09	2486	1.000	-0.055	-0.060	0.007	0.012	0.000000	0.000000	-759.82	-1733
1	FID		ACIS-S-4	7.20	2486	1.000	0.124	0.042	0.006	0.010	0.000000	0.000000	2153.37	174
2	FID		ACIS-S-5	7.23	2486	1.000	-0.100	0.027	0.007	0.012	0.000000	0.000000	-1812.07	168
3	GUIDE	used	293341504	9.83	4962	1.000	0.067	0.007	0.110	0.183	344.676943	26.188884	-422.61	-1594
4	GUIDE	used	293341720	8.22	4970	1.000	-0.128	0.096	0.072	0.114	344.937767	25.881433	-1541.72	-2421
5	GUIDE	used	293344536	9.91	4915	1.000	0.184	0.123	0.145	0.231	344.218883	26.225581	-264.94	-117
6	GUIDE	used	293351176	8.95	4967	1.000	-0.020	-0.247	0.086	0.136	343.564038	25.925037	-1300.86	2023
7	GUIDE	used	293875152	8.26	4970	1.000	-0.101	0.028	0.056	0.088	344.234190	26.387865	318.02	-176

## 2.4 Star Slots

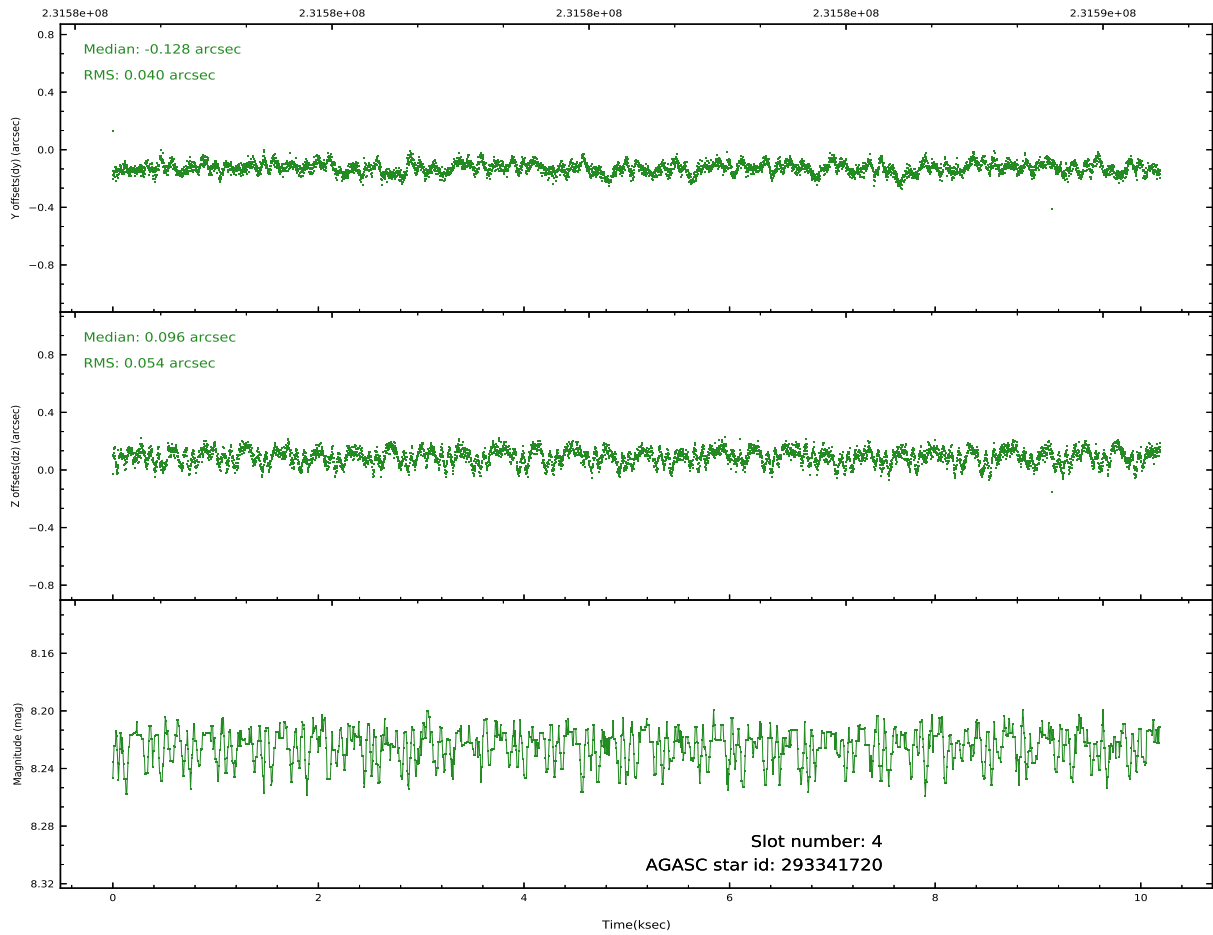
### 2.4.1 Slot 3



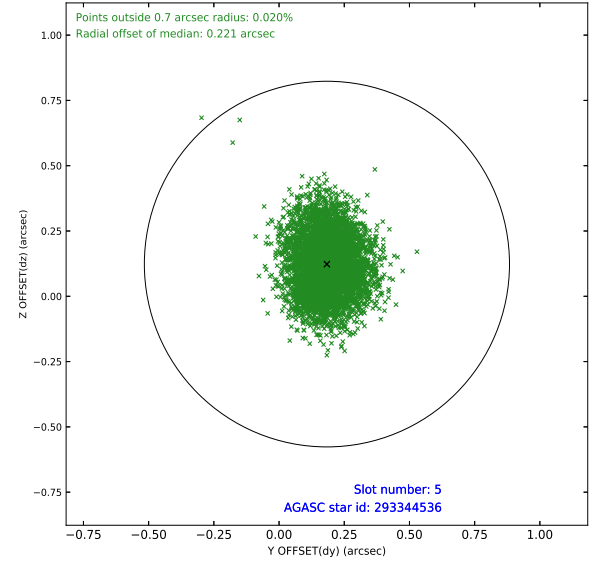
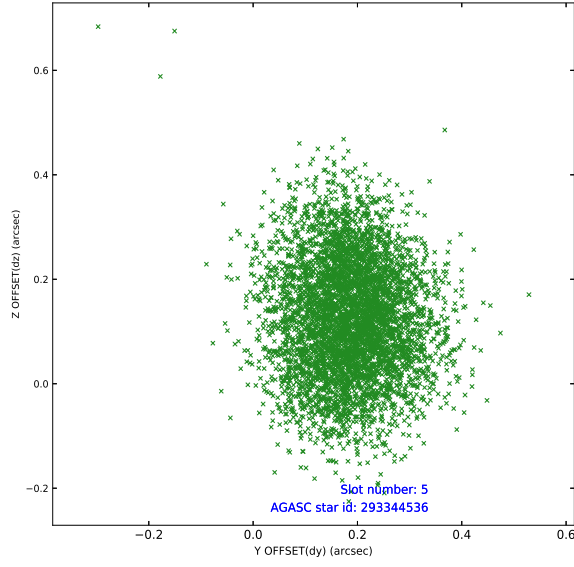
## 2.4.2 Slot 4



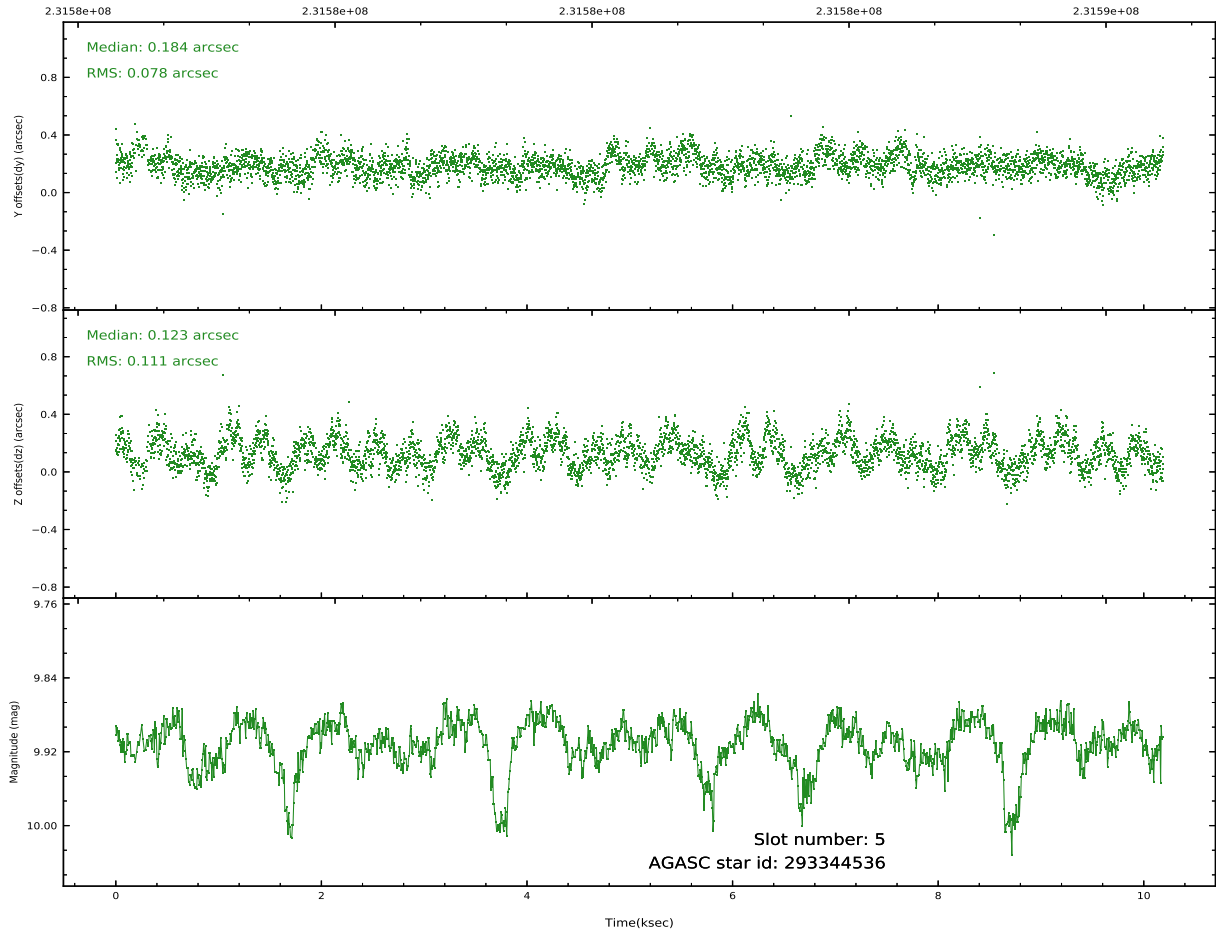
Time (s)



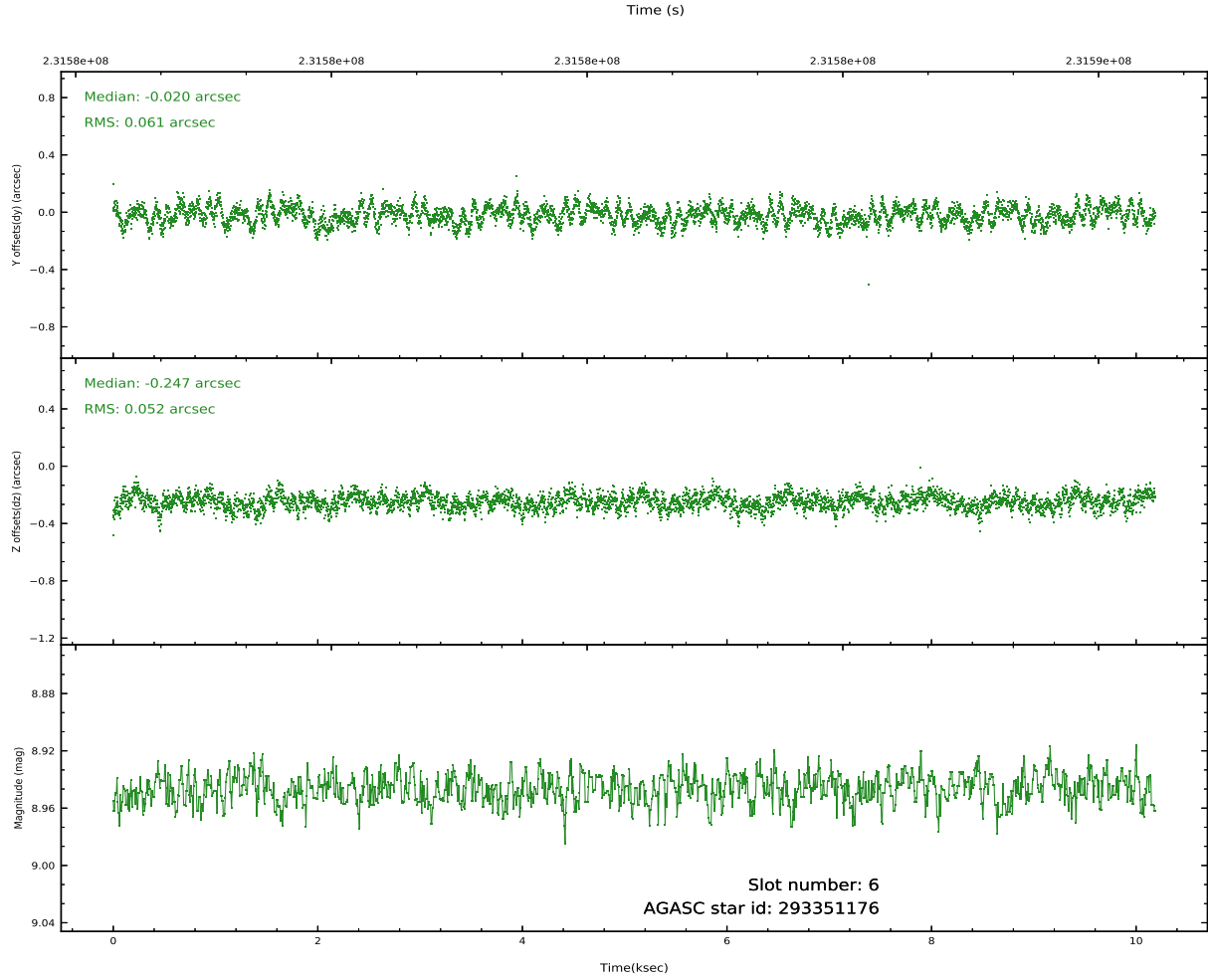
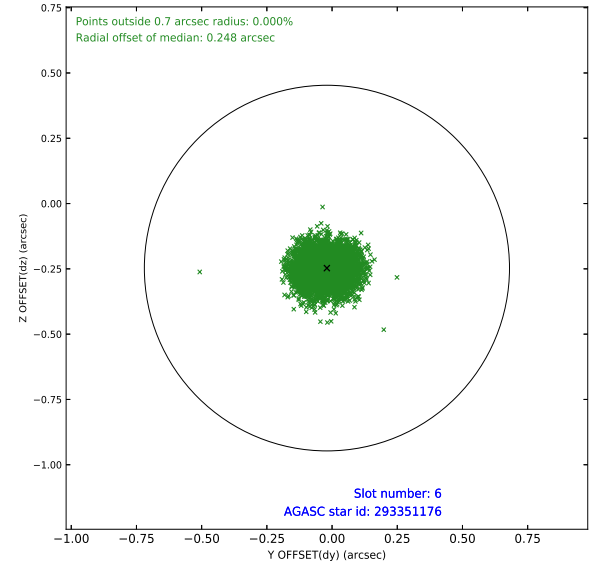
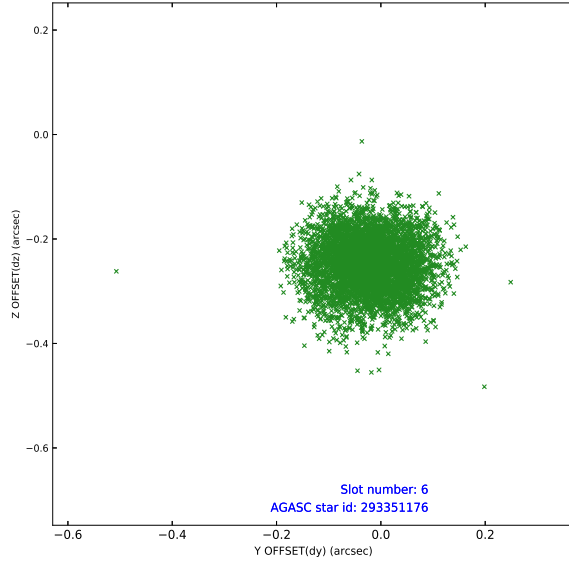
### 2.4.3 Slot 5



Time (s)

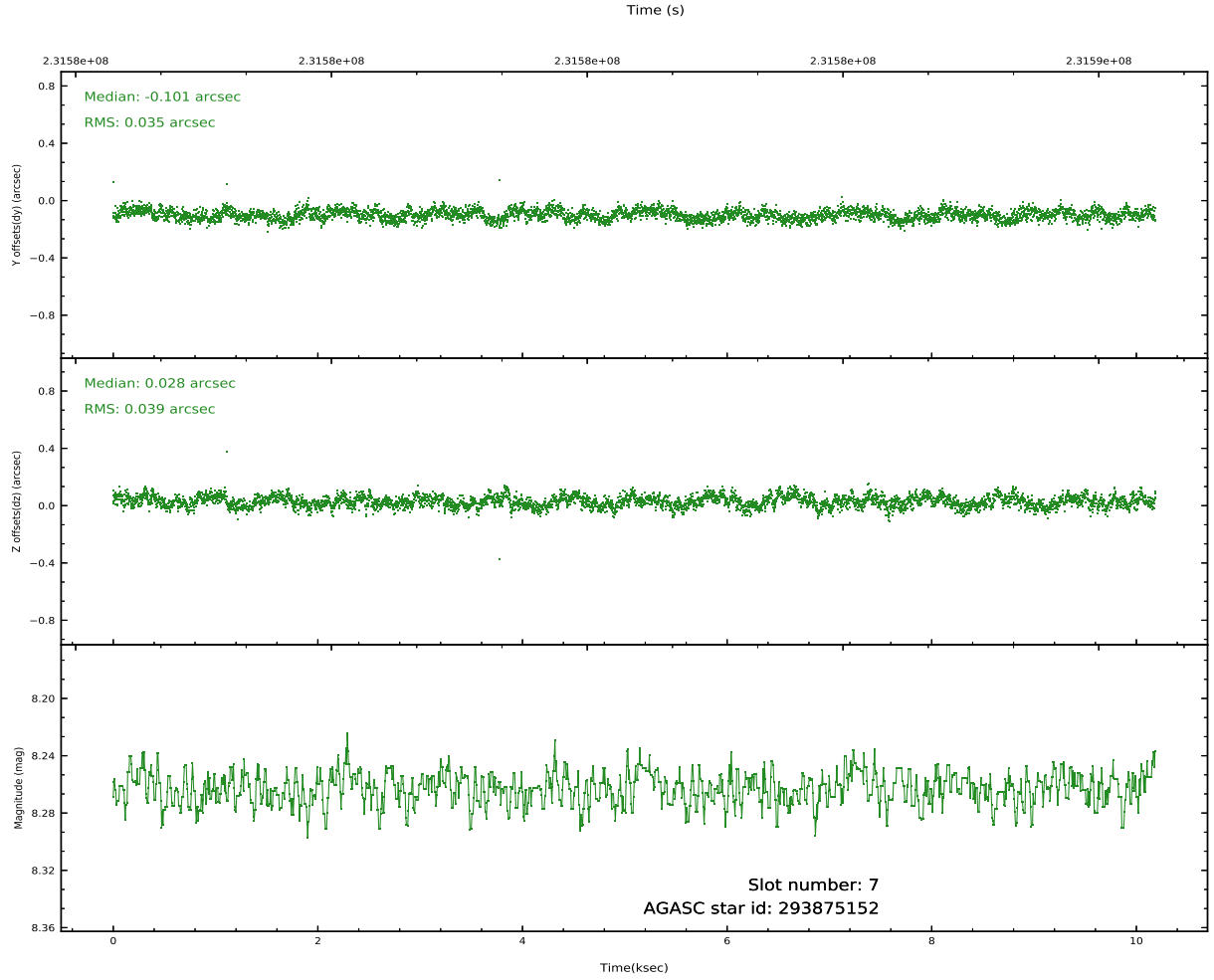
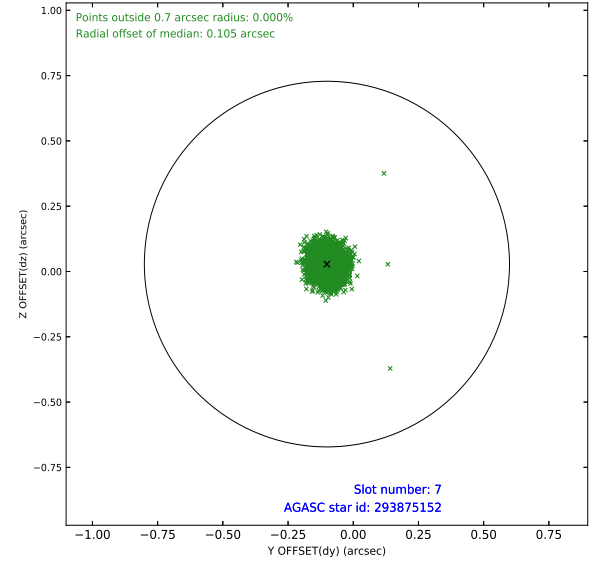
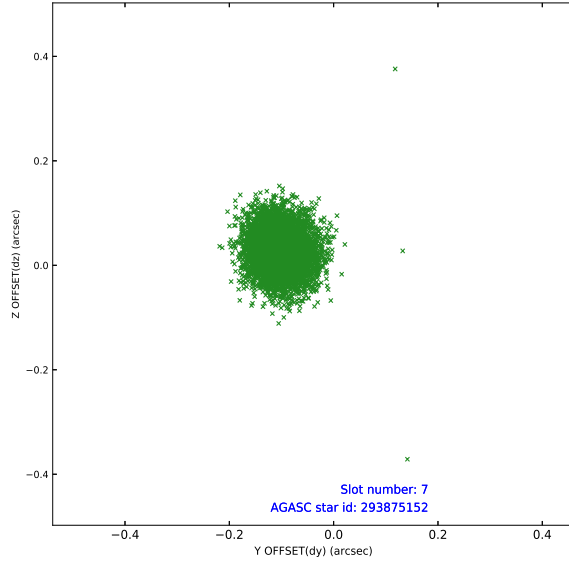


## 2.4.4 Slot 6



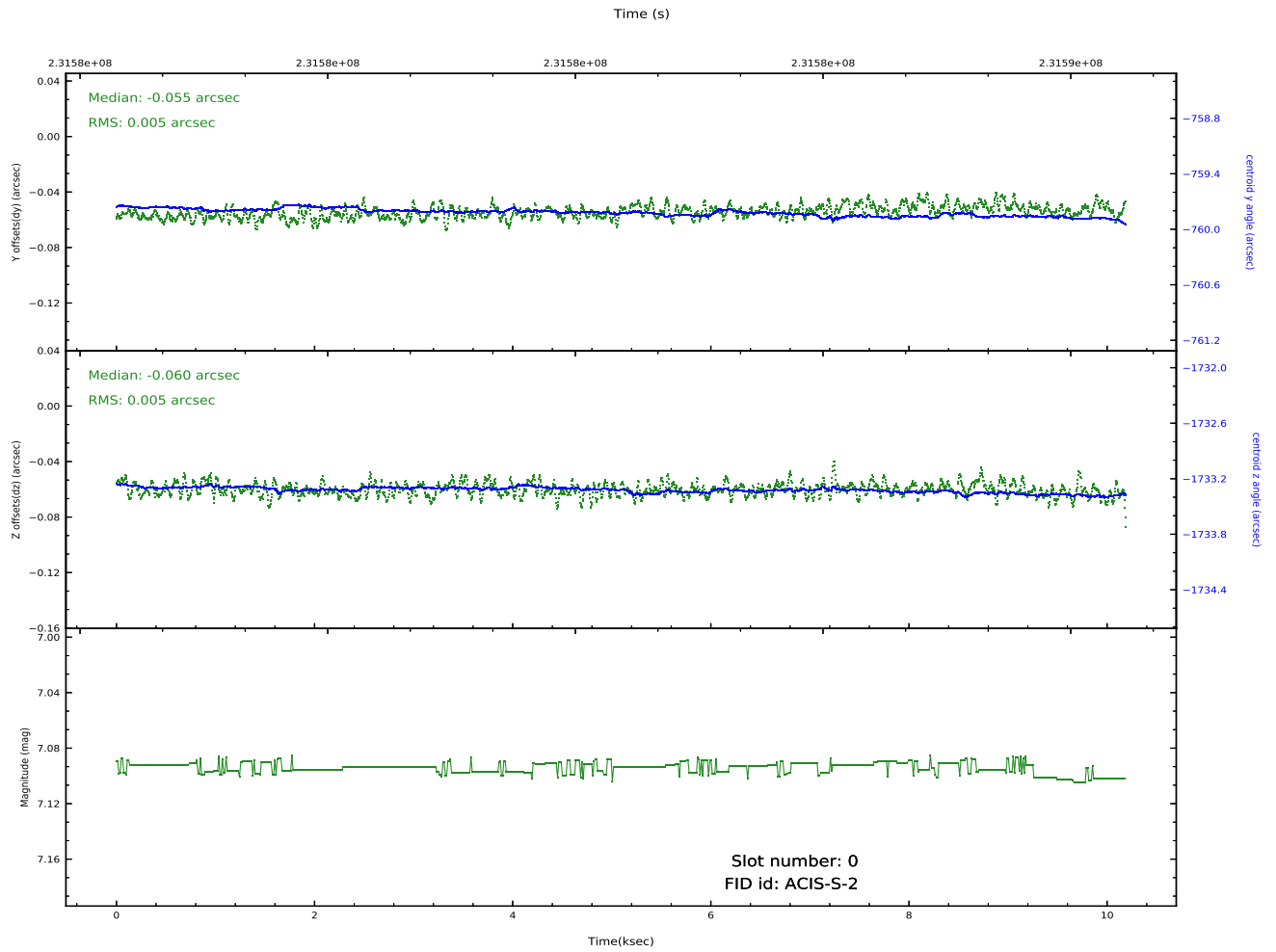
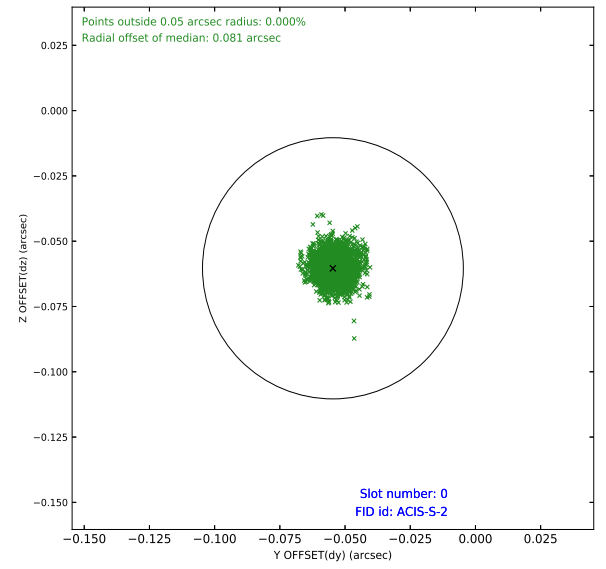
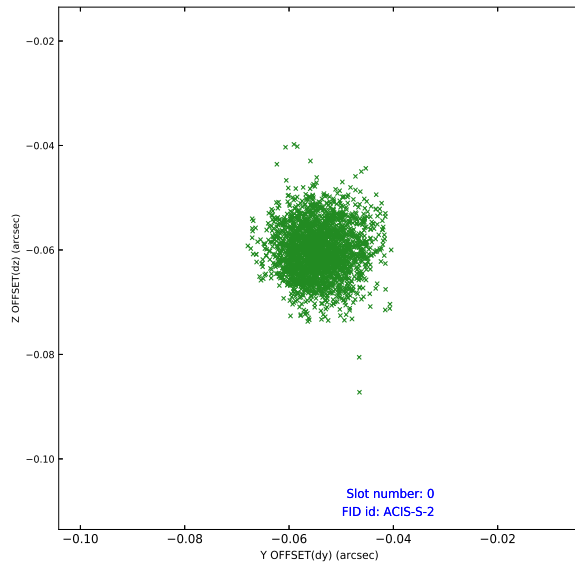


## 2.4.5 Slot 7

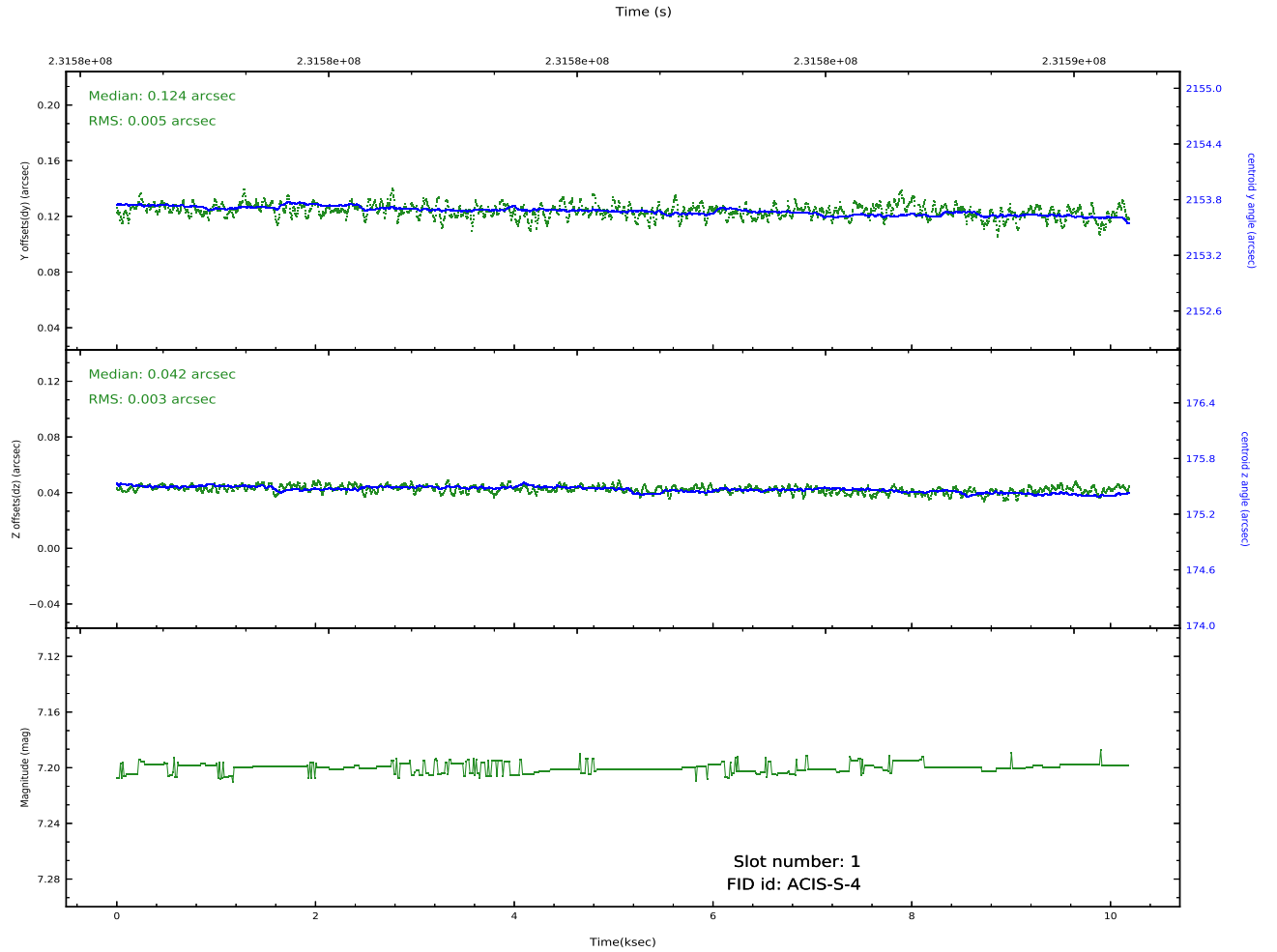
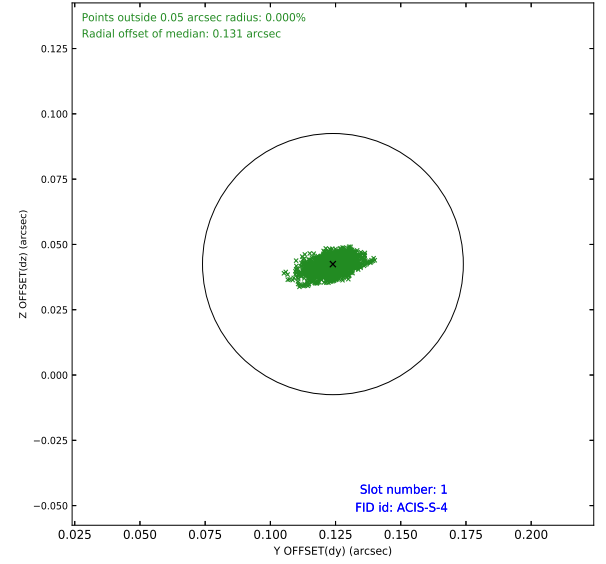
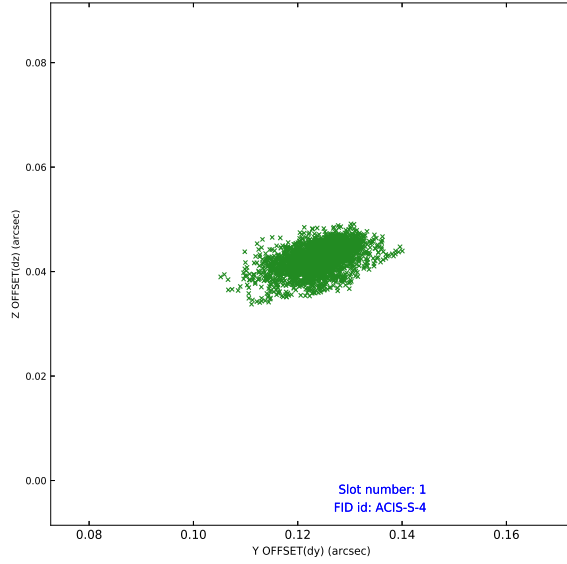


## 2.5 FID Slots

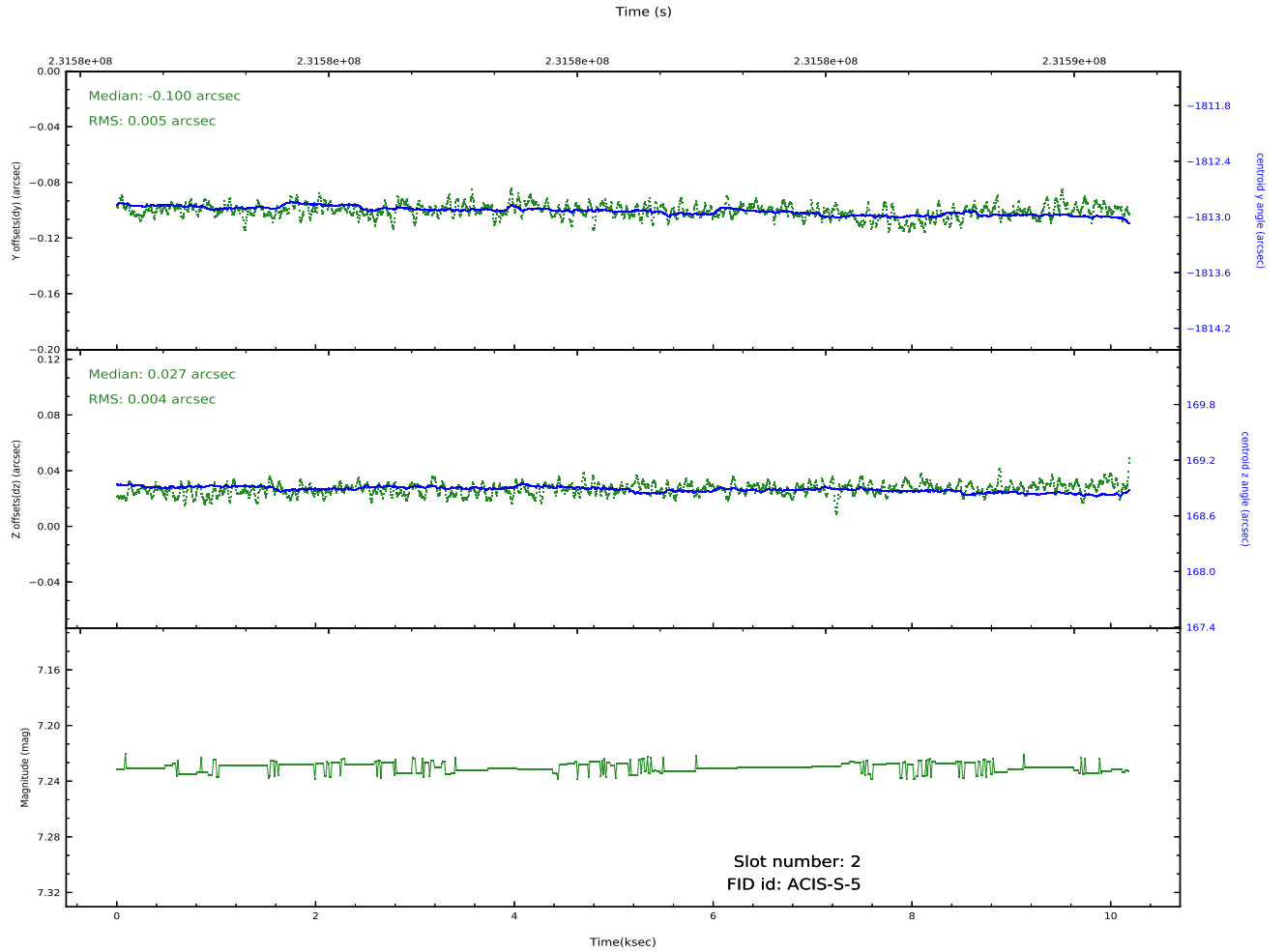
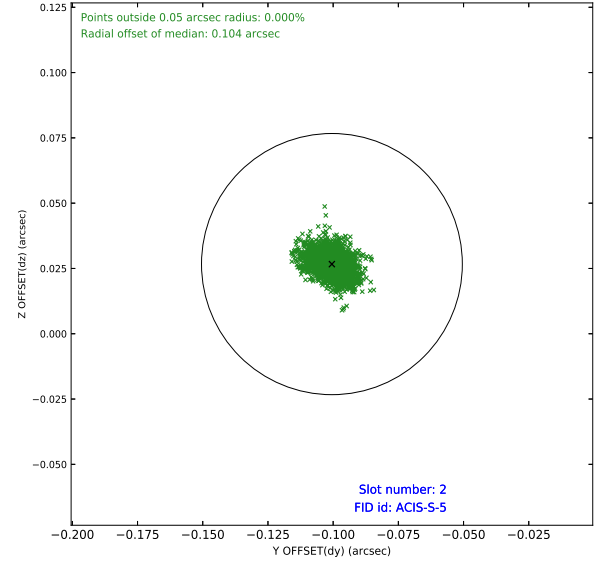
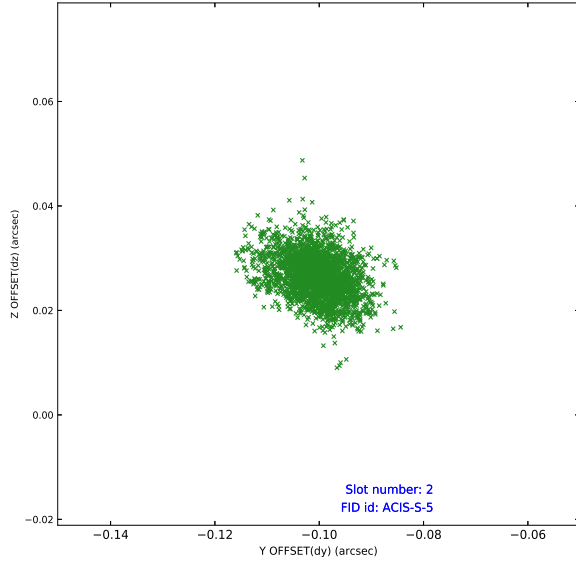
### 2.5.1 Slot 0



## 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)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.8536

### A.2 Comments

Roll preference met.