

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5730 - L2 Version 4  
Chandra X-Ray Center

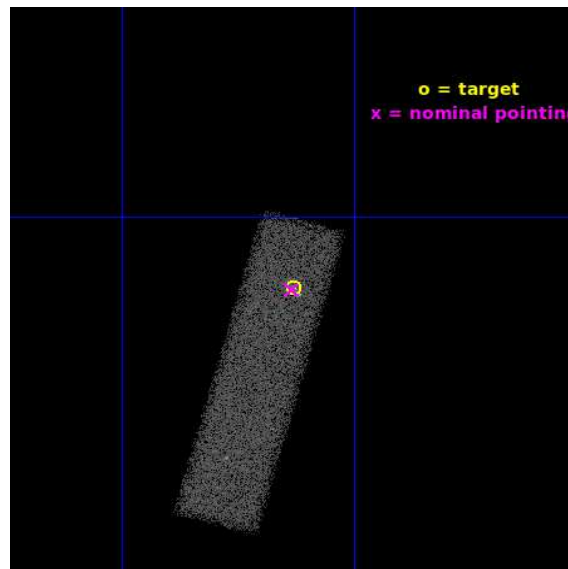
L2 Processing Date : Oct 11 2020

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# 1 Front

seq_num	701152	Sequence number
obs_id	5730	Observation id
title	A Study of the Physics of Extended Relativistic X-ray Jets, Discovered in our Chandra Survey	Proposal title
observer	Dr. Jonathan Gelbord	Principal investigator
object	PKS 1030-357	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	158.282083	Observer's specified target RA [deg]
dec_targ	-36.032472	Observer's specified target Dec [deg]
ra_nom	158.28335717916	Nominal RA [deg]
dec_nom	-36.033276833897	Nominal Dec [deg]
roll_nom	105.80535329186	Nominal Roll [deg]
revision	4	Processing version of data
ontime	30044.800447702	Sum of GTIs [s]
livetime	28578.712496626	Livetime [s]
ontime7	30044.800447702	Sum of GTIs [s]
l2events	35602	Number of level 2 events

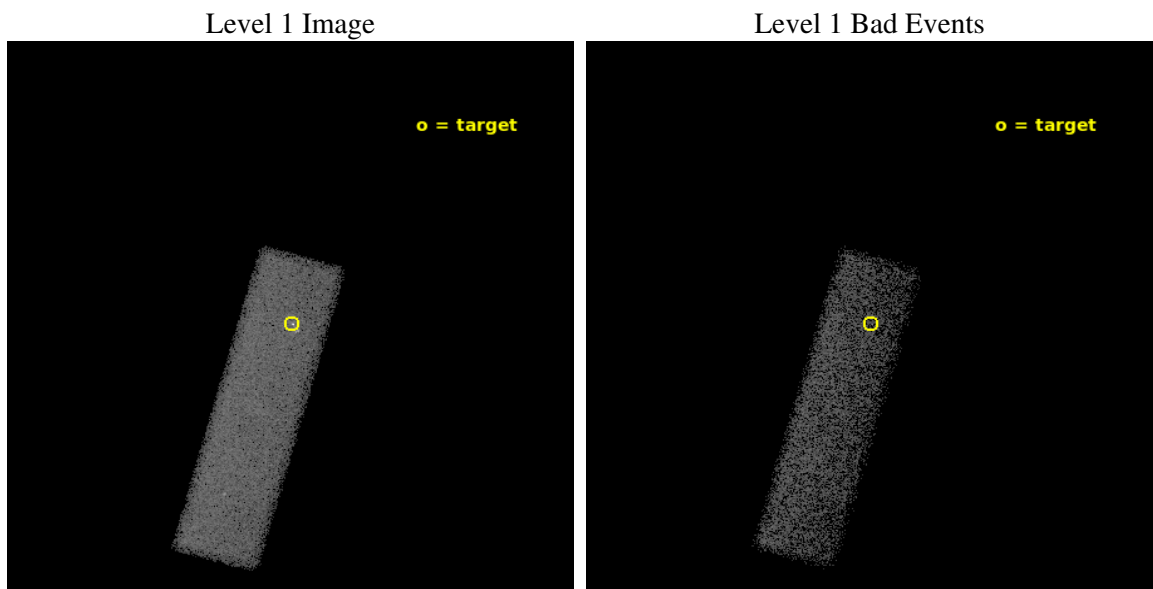




## 2 OBI

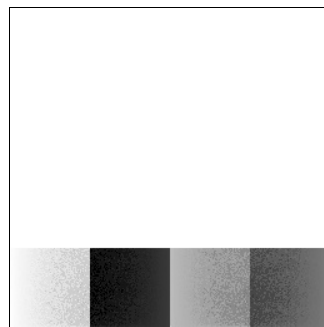
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	29938.524000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	30044.800447702	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime7	30044.800447702	Sum of GTIs [s]
date	2020-10-11T03:48:23	Date and time of file creation	l1events	84762	Number of level 1 events
revision	4	Processing version of data			

### 2.1.4 Events

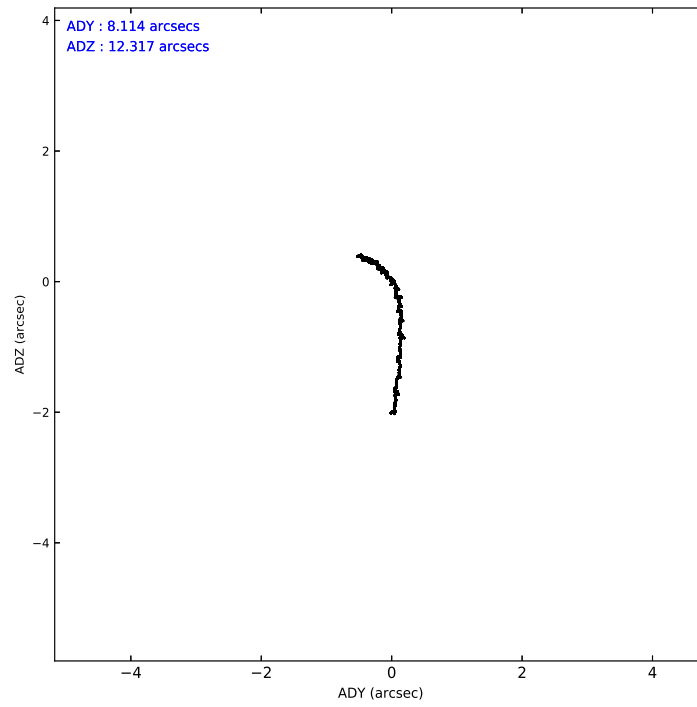
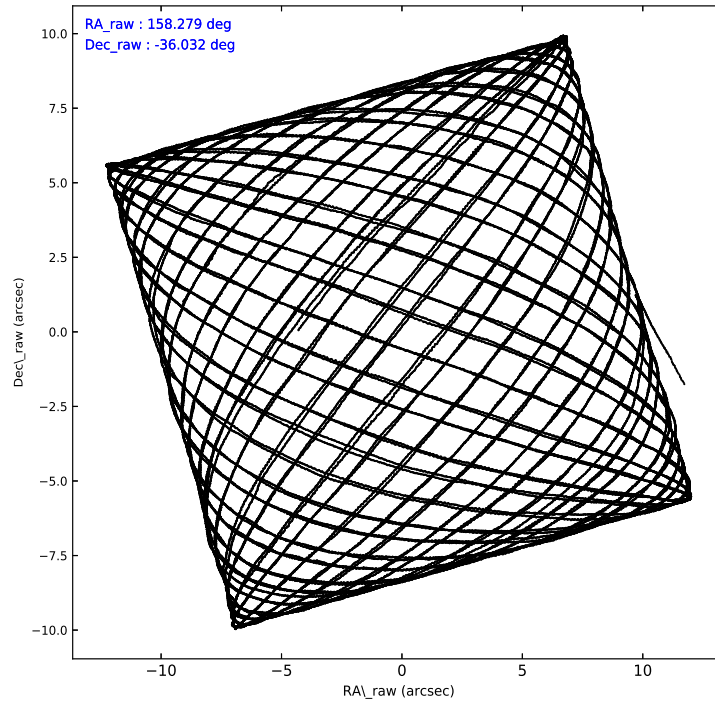
	<b>ccd 7</b>
level 1 events	84762
rejected events	47443
rejected %	55%

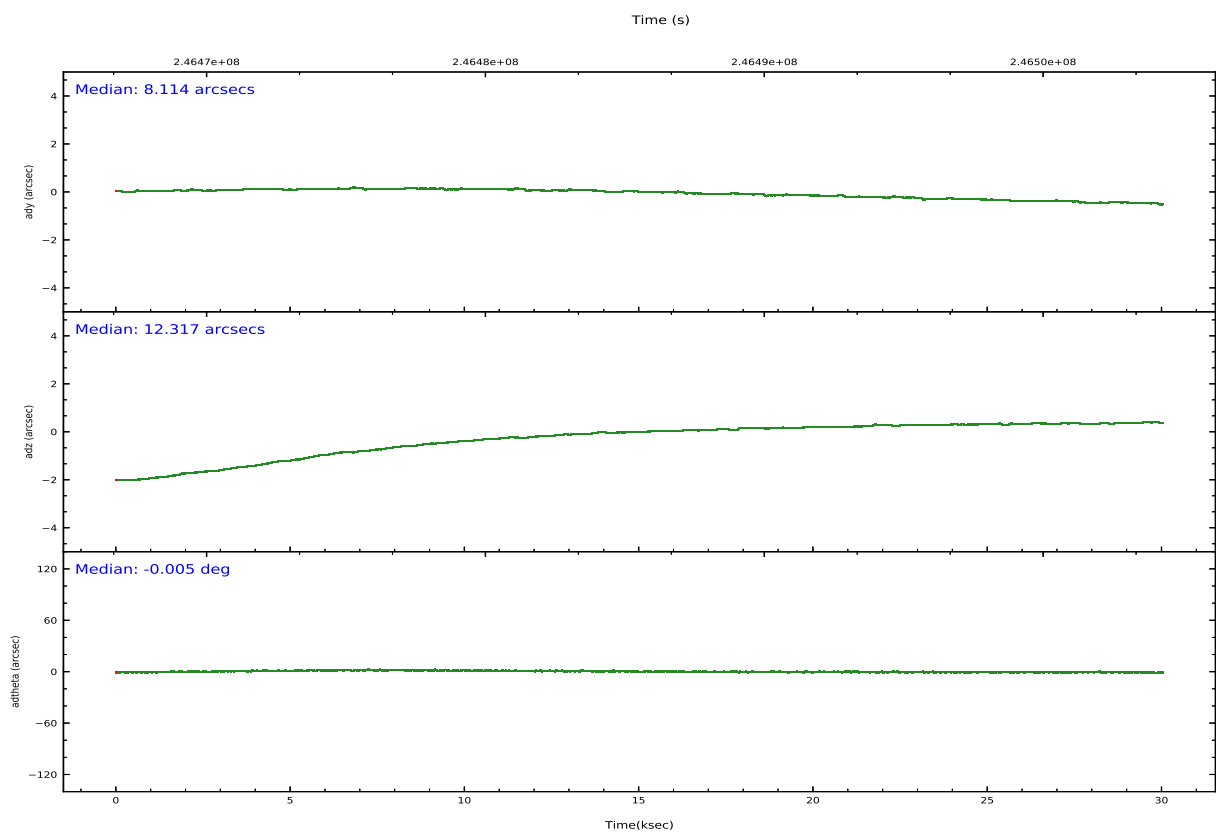
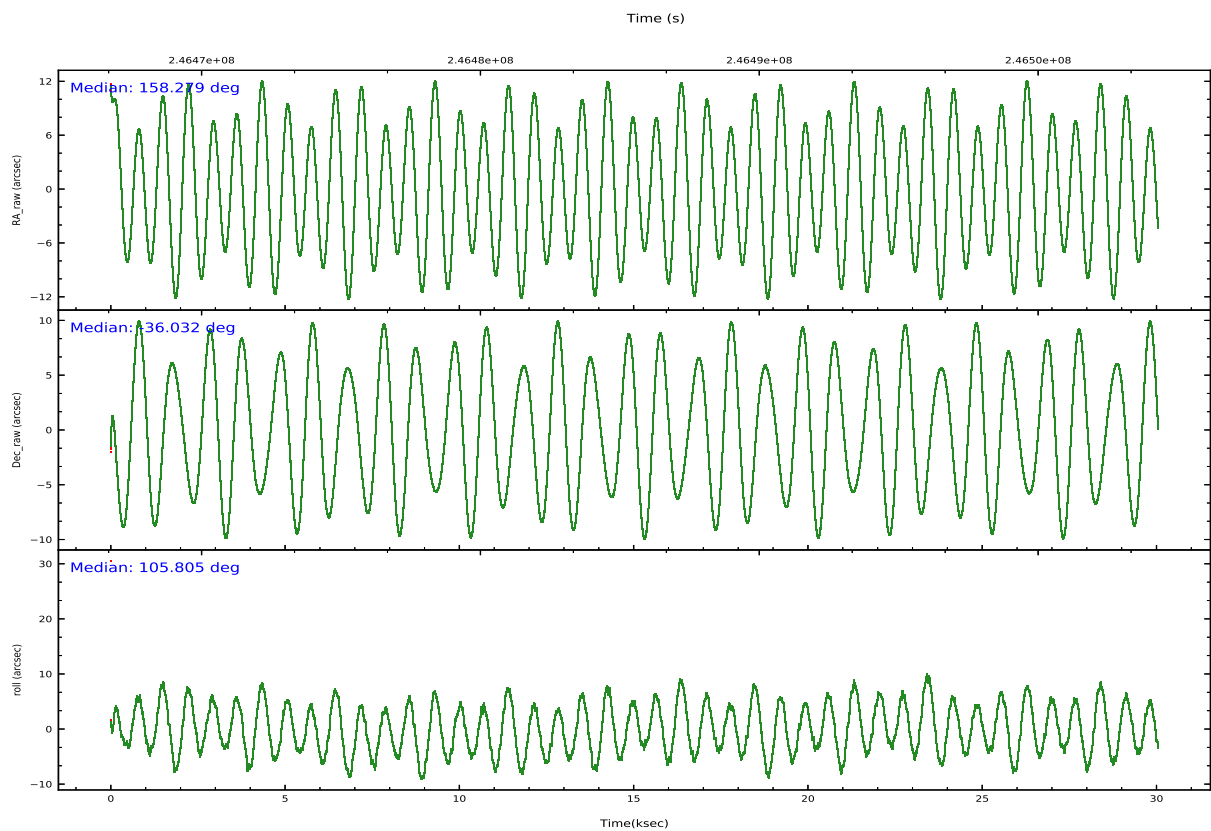
	<b>ccd 7</b>
grade 0 events	3838
	4%
grade 1 events	111
	0%
grade 2 events	7583
	8%
grade 3 events	4190
	4%
grade 4 events	4089
	4%
grade 5 events	7593
	8%
grade 6 events	18883
	22%
grade 7 events	38475
	45%

## 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	158.302831	158.28335717916	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-36.050739	-36.033276833897	Subarray start row	1	1
[deg] Pointing Roll	105.664378	105.80535329186	Subarray row count	256	256
[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	0.8
[mm] SIM translation stage pos	-179.932523	-179.9244029796336			
[mm] SIM translation stage offset	-10.2	-10.2081196033742			
[s] Observation start time (MET)	246469504.184000	246468233.30157			
Observation start date	2005-10-23T15:44:00	2005-10-23T15:23:53			
[s] Observation end time (MET)	246499443.184000	246499655.19051			
Observation end date	2005-10-24T00:02:59	2005-10-24T00:07:35			
Read mode	TIMED	TIMED			

## 2.3 Aspect



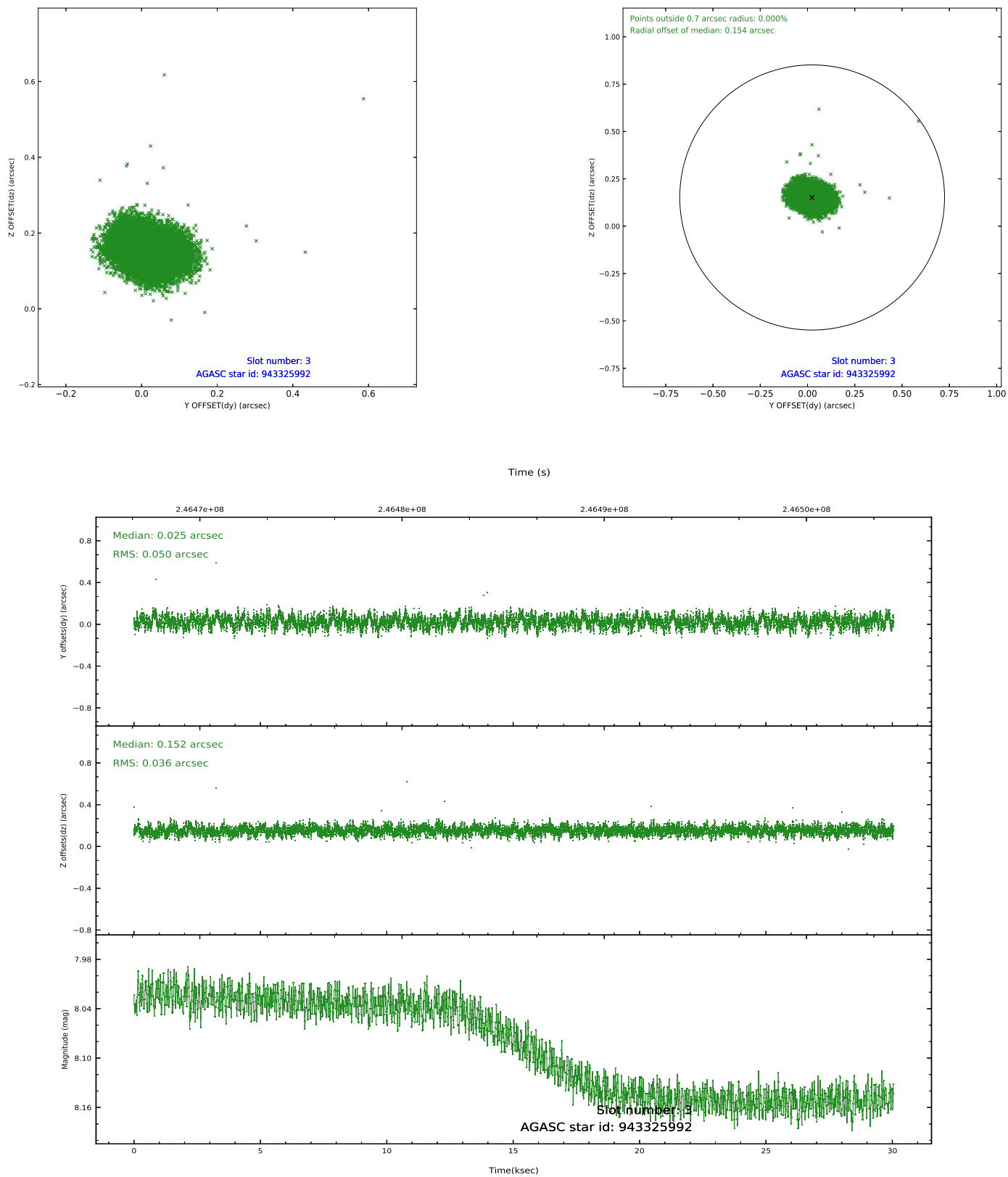


Slot Statistics

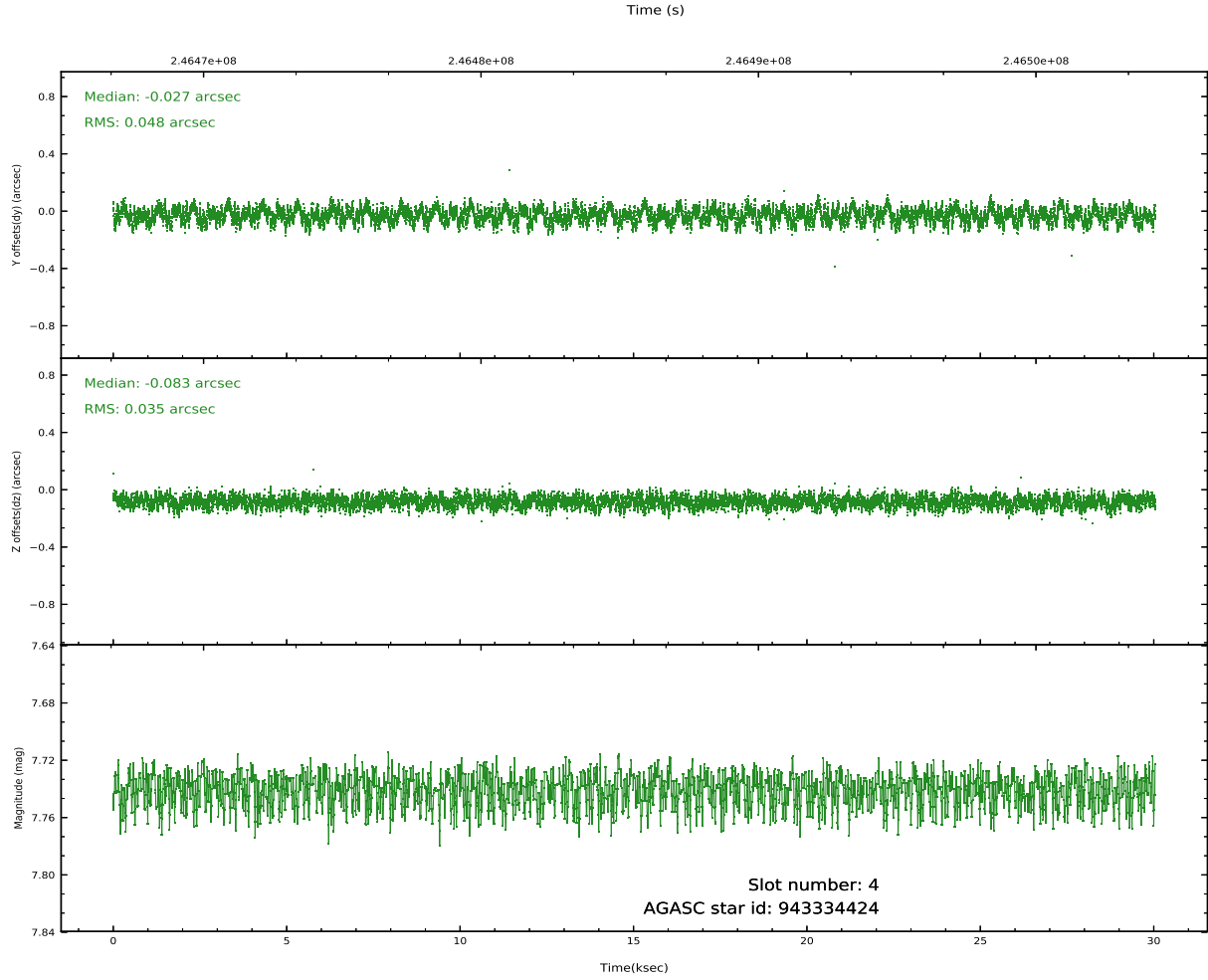
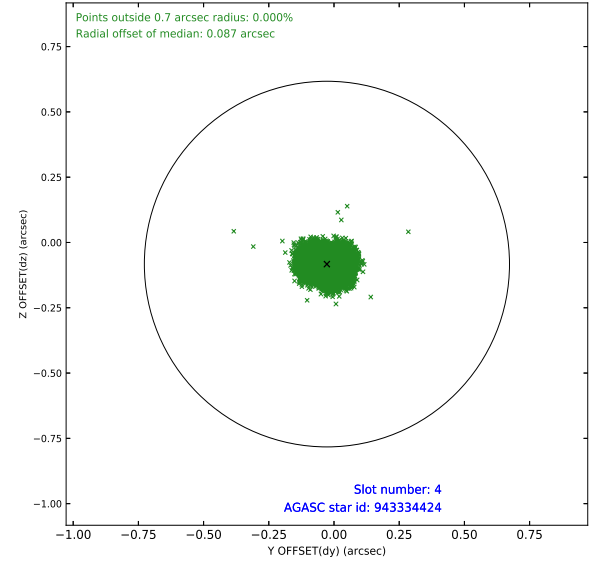
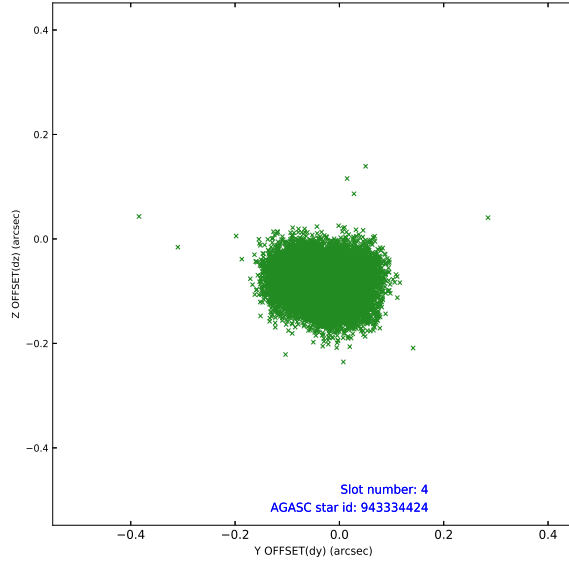
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.07	7329	1.000	-0.132	-0.436	0.022	0.038	0.000000	0.000000	-760.17	-1943
1	FID		ACIS-S-4	7.17	7329	1.000	0.180	0.179	0.009	0.018	0.000000	0.000000	2153.36	-34
2	FID		ACIS-S-5	7.23	7329	1.000	-0.081	0.265	0.021	0.030	0.000000	0.000000	-1812.90	-41
3	GUIDE	used	943325992	8.08	14656	1.000	0.025	0.152	0.066	0.105	158.372385	-36.065991	-107.32	-179
4	GUIDE	used	943334424	7.74	14658	1.000	-0.027	-0.083	0.065	0.100	158.168911	-36.456574	-1302.06	768
5	GUIDE	used	943337000	8.33	14656	1.000	-0.095	0.090	0.060	0.098	159.054920	-36.366983	-1692.91	-1789
6	GUIDE	used	943342224	8.36	14652	1.000	0.075	-0.068	0.053	0.085	158.218692	-36.637369	-1967.80	804
7	GUIDE	used	943331040	9.21	14649	1.000	0.018	-0.087	0.097	0.164	157.716739	-36.786172	-2098.74	2343

## 2.4 Star Slots

### 2.4.1 Slot 3

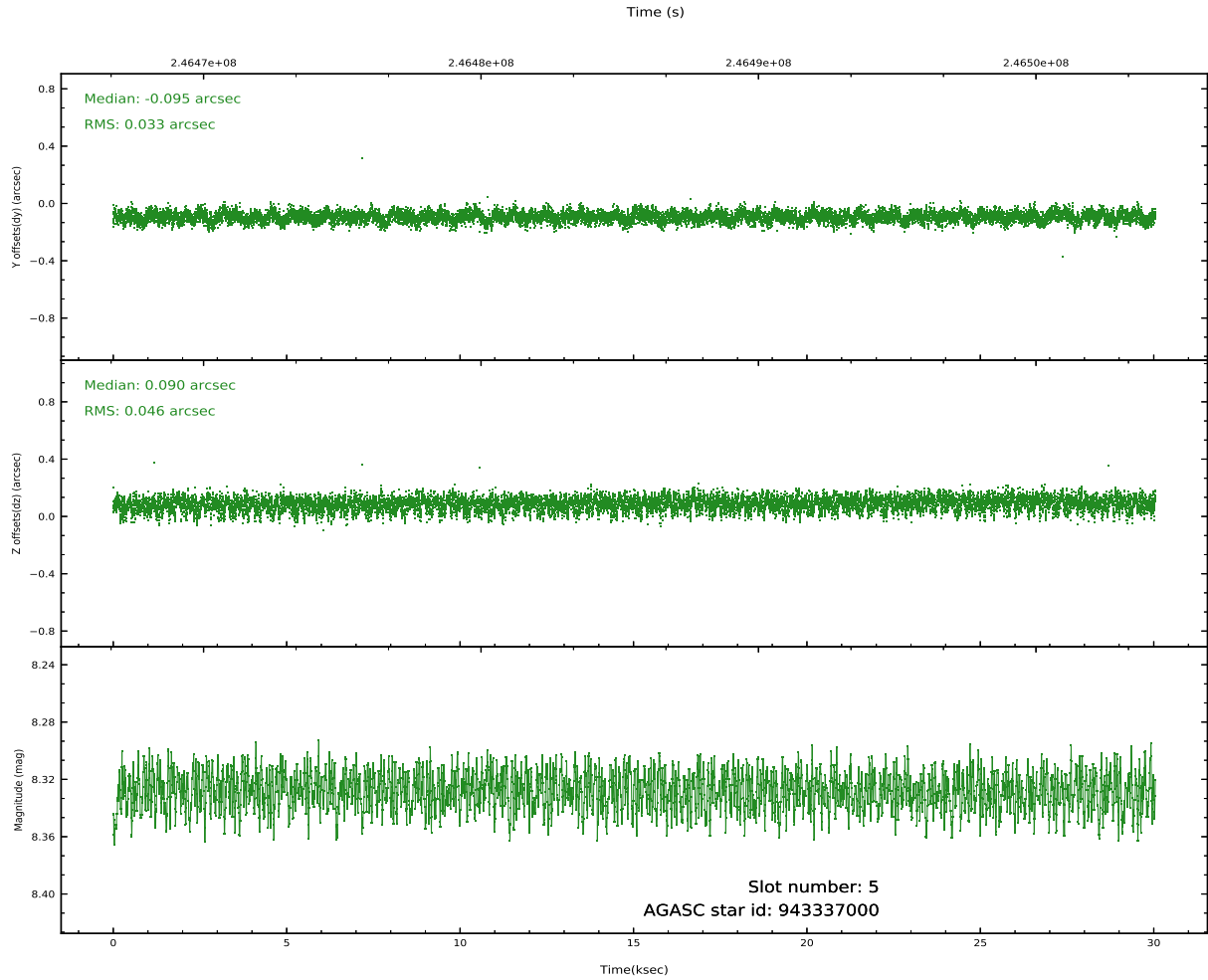
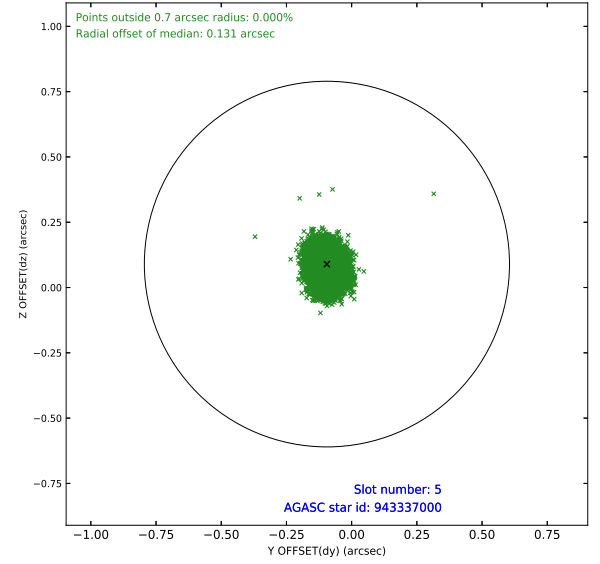
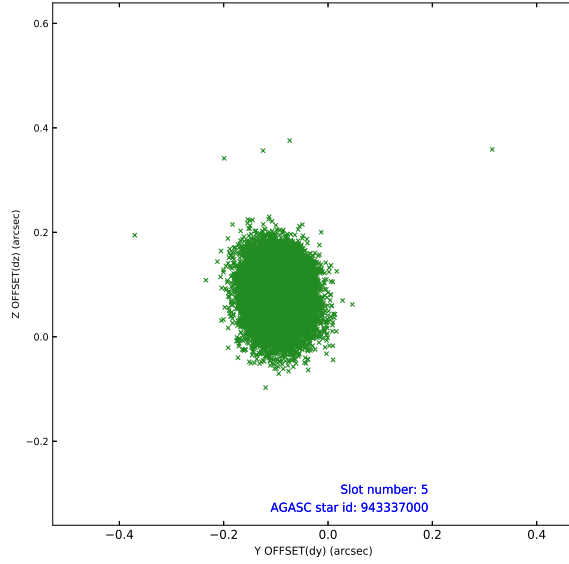


## 2.4.2 Slot 4

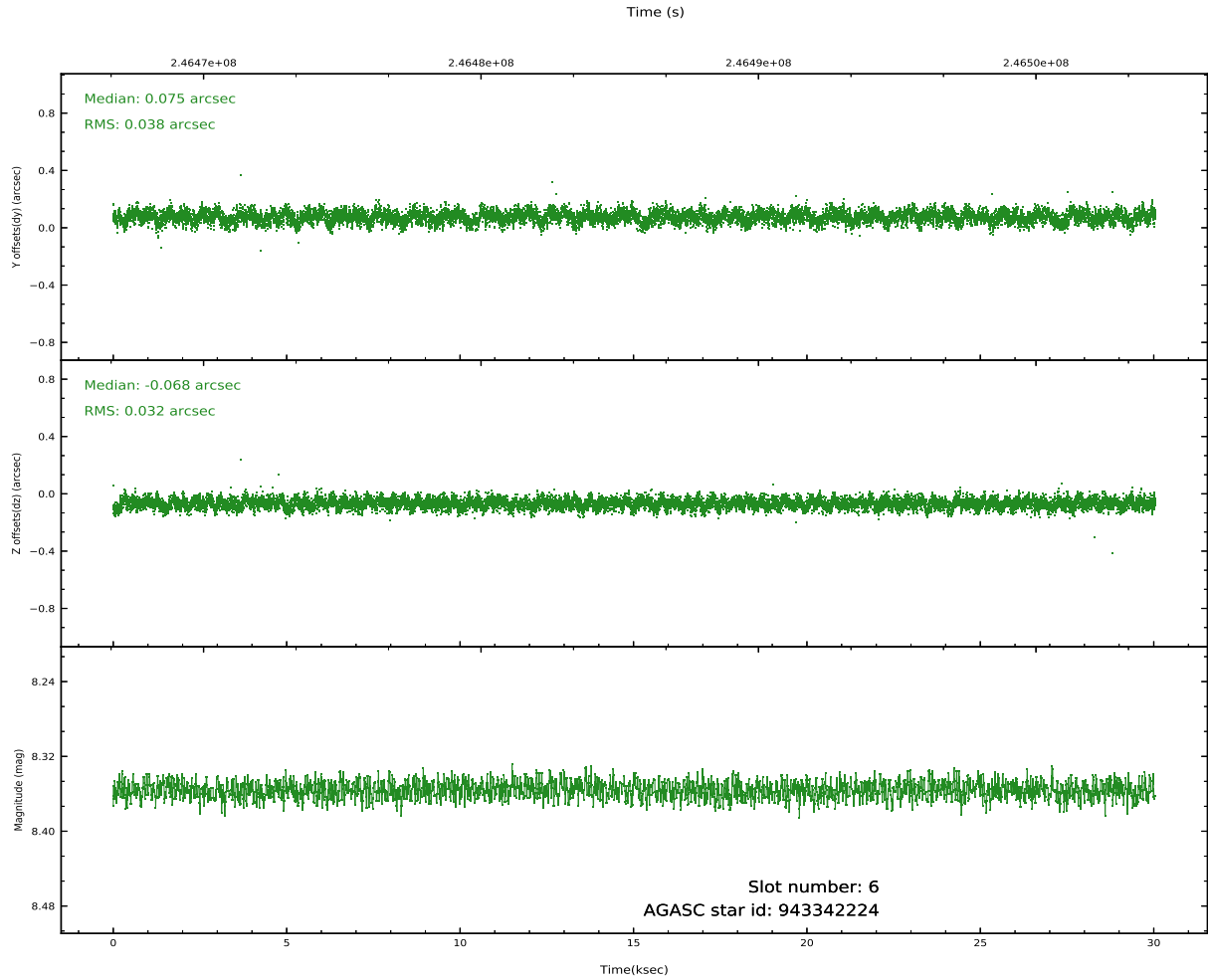
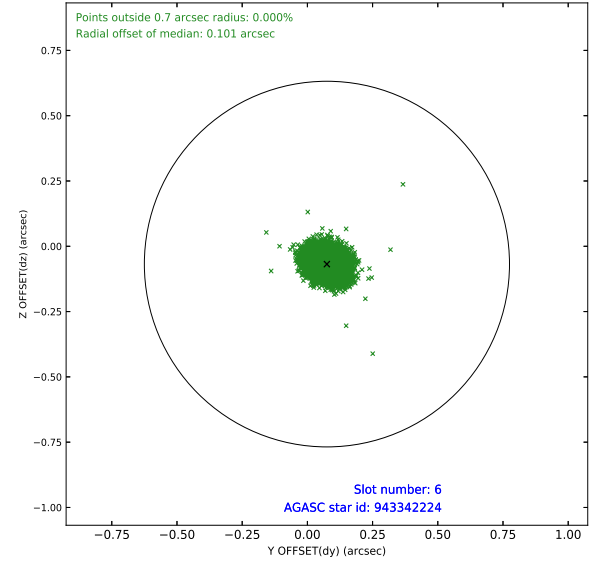
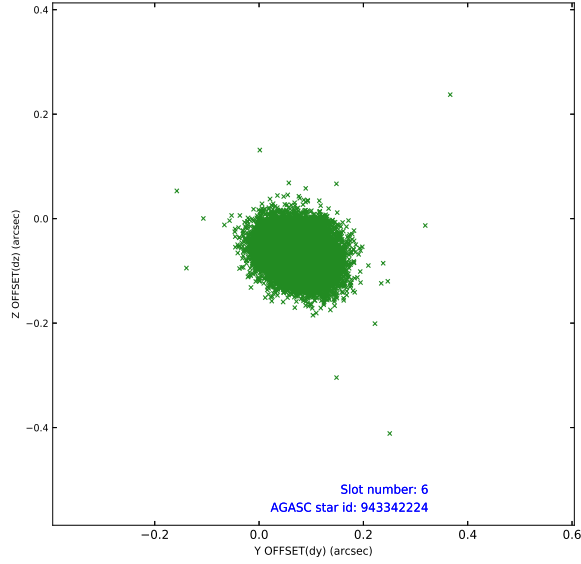




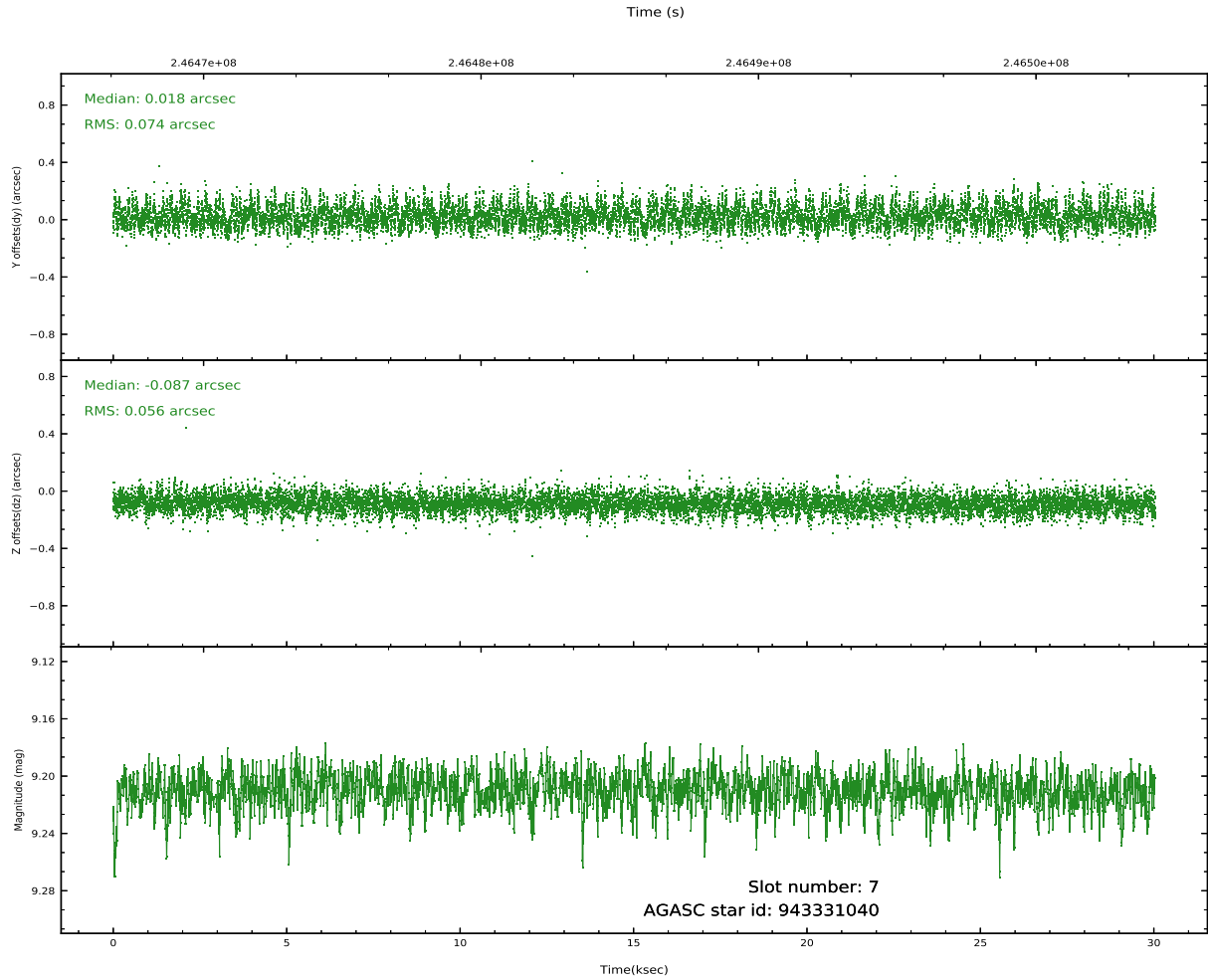
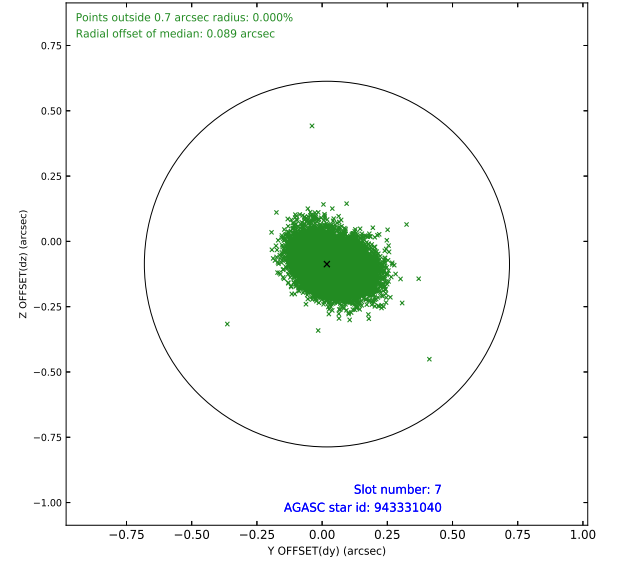
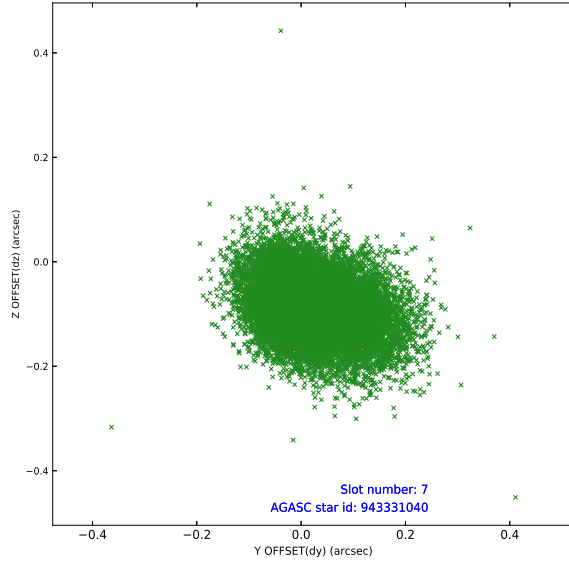
### 2.4.3 Slot 5



## 2.4.4 Slot 6

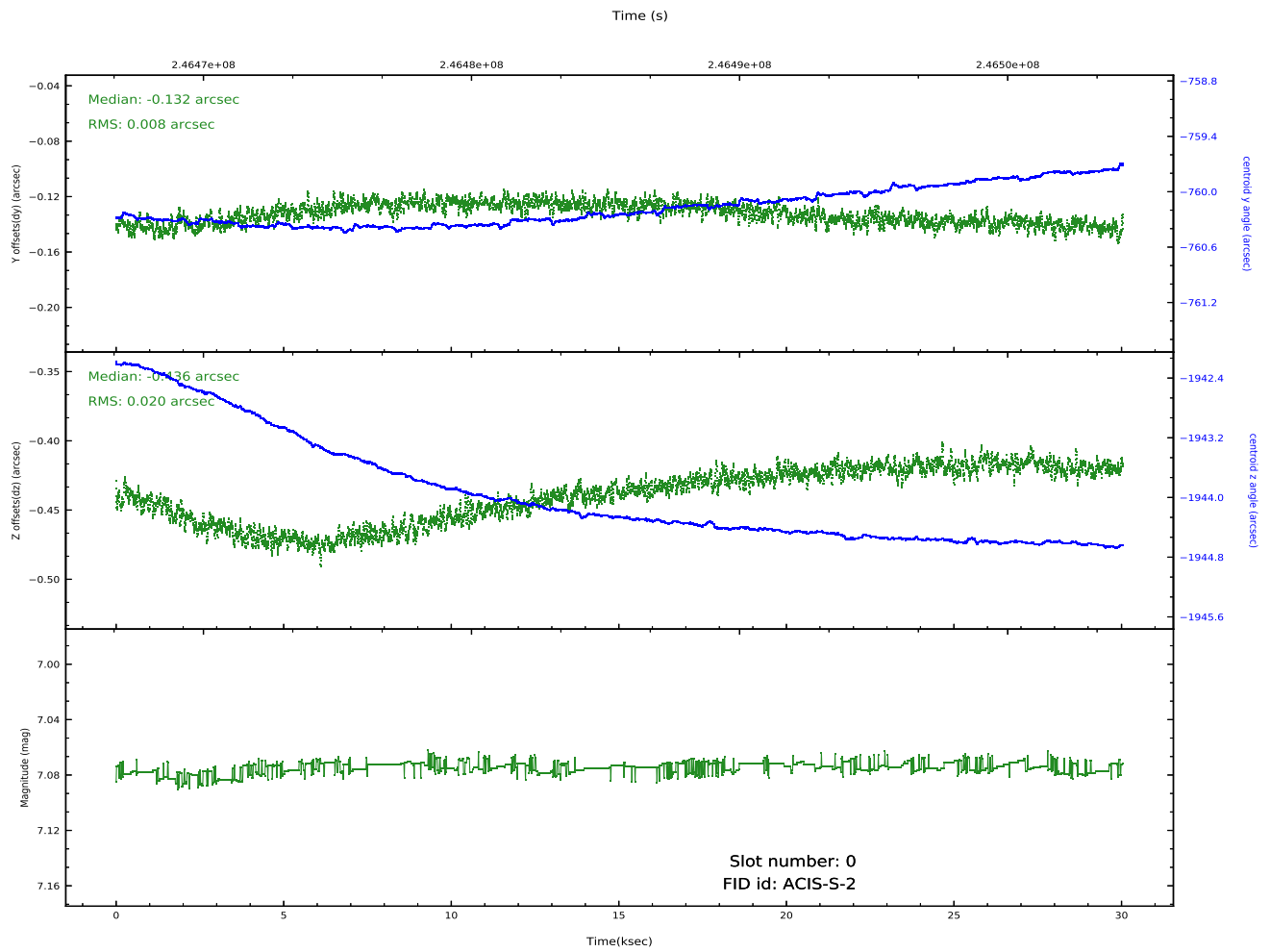
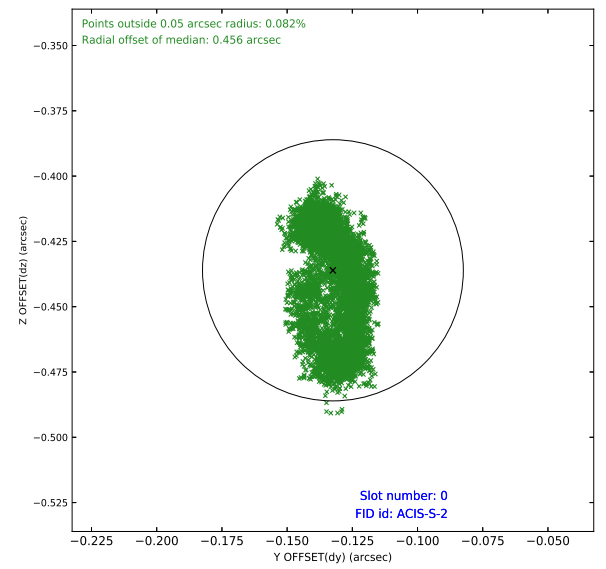
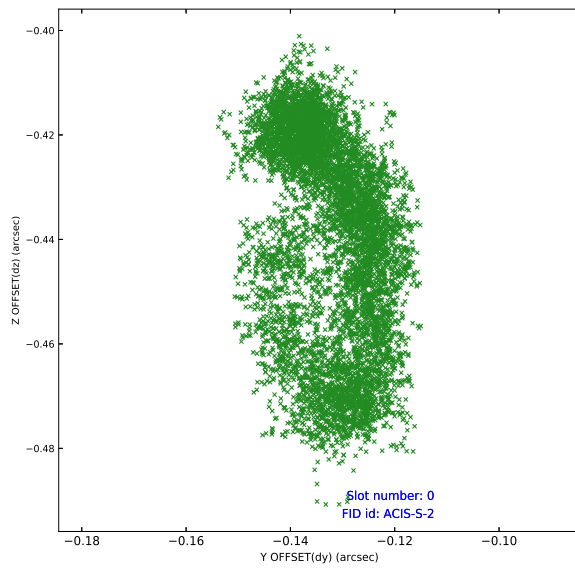


## 2.4.5 Slot 7

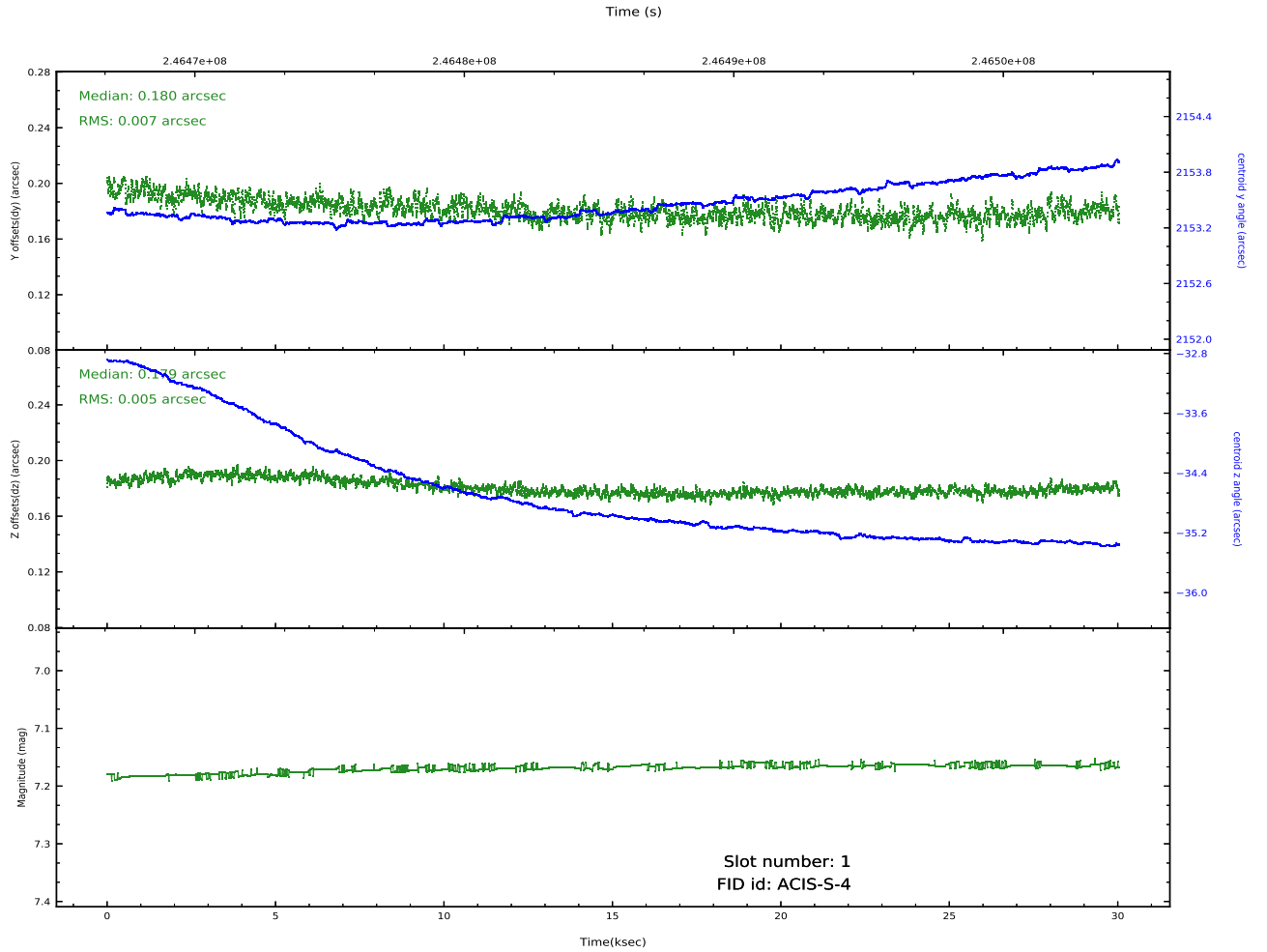
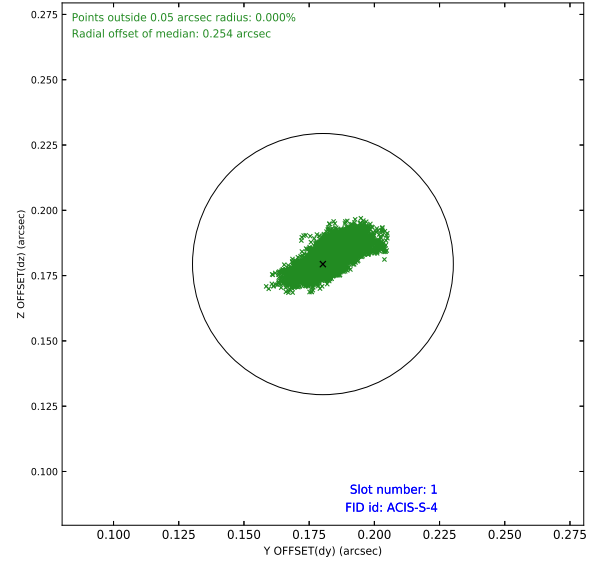
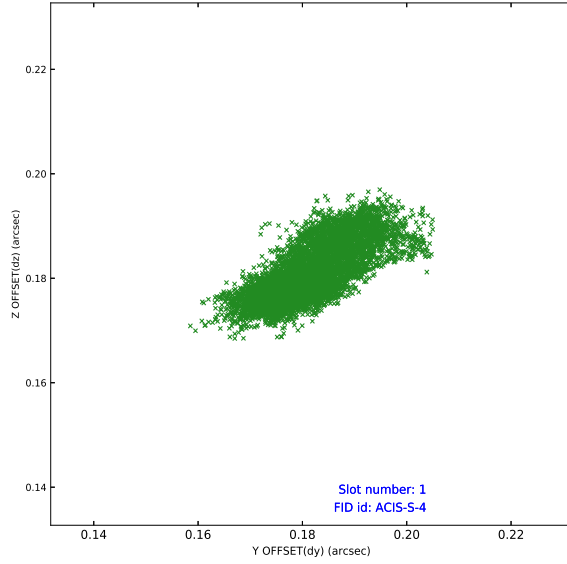


## 2.5 FID Slots

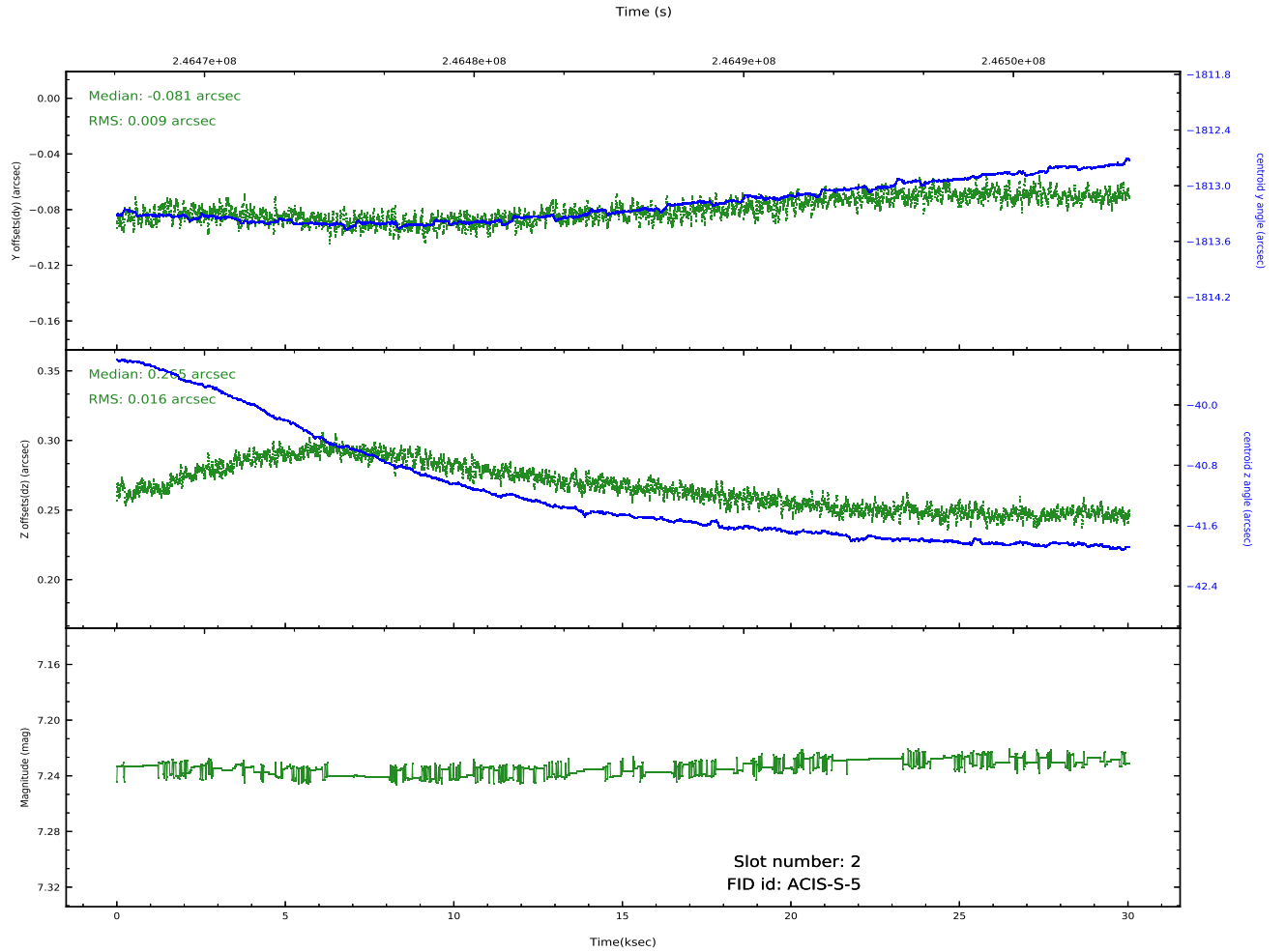
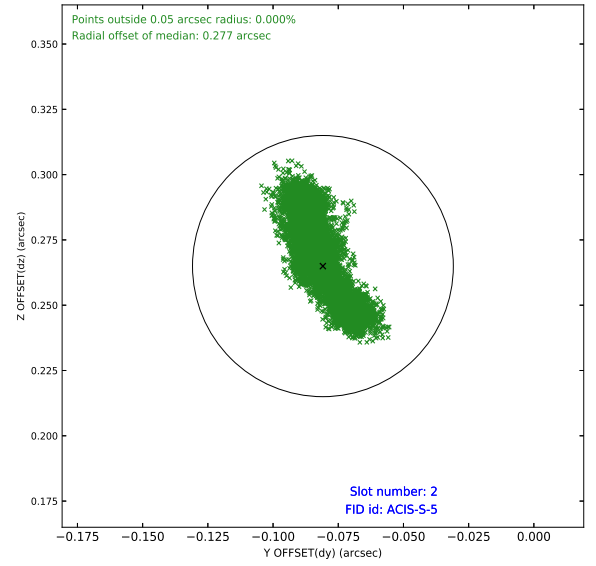
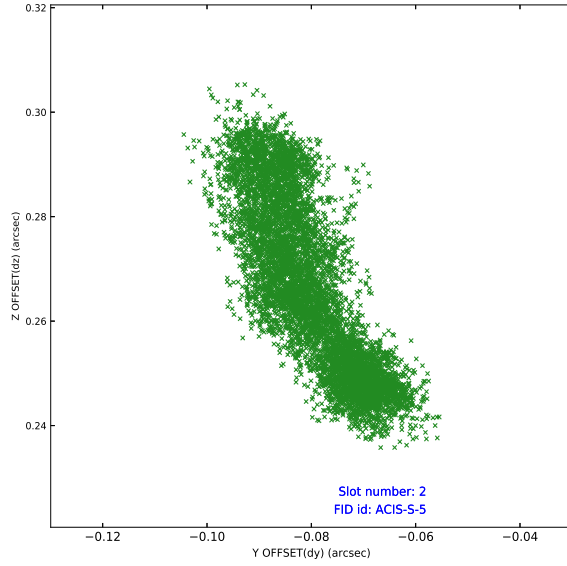
### 2.5.1 Slot 0



## 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)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.0448

## A.2 Comments

Joint proposal with HST.