

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5732 - L2 Version 3  
Chandra X-Ray Center

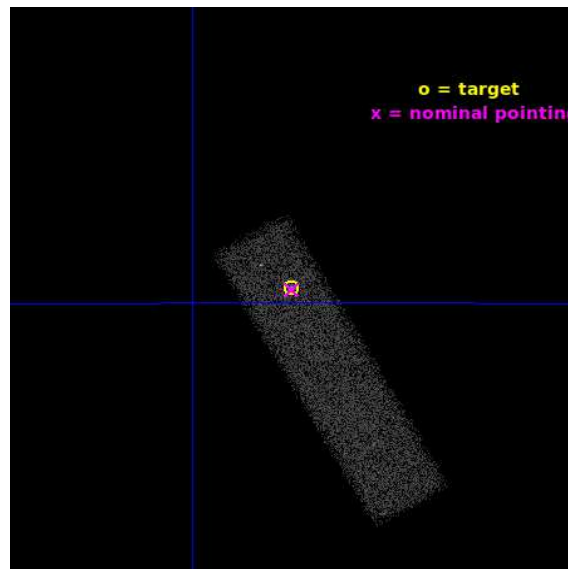
L2 Processing Date : Oct 11 2020

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# 1 Front

seq_num	701154	Sequence number
obs_id	5732	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 0920-397	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	140.693333	Observer's specified target RA [deg]
dec_targ	-39.993083	Observer's specified target Dec [deg]
ra_nom	140.6930785639	Nominal RA [deg]
dec_nom	-39.994012161816	Nominal Dec [deg]
roll_nom	60.04669866434	Nominal Roll [deg]
revision	3	Processing version of data
ontime	17642.400262892	Sum of GTIs [s]
livetime	16781.508858454	Livetime [s]
ontime7	17642.400262892	Sum of GTIs [s]
l2events	22251	Number of level 2 events

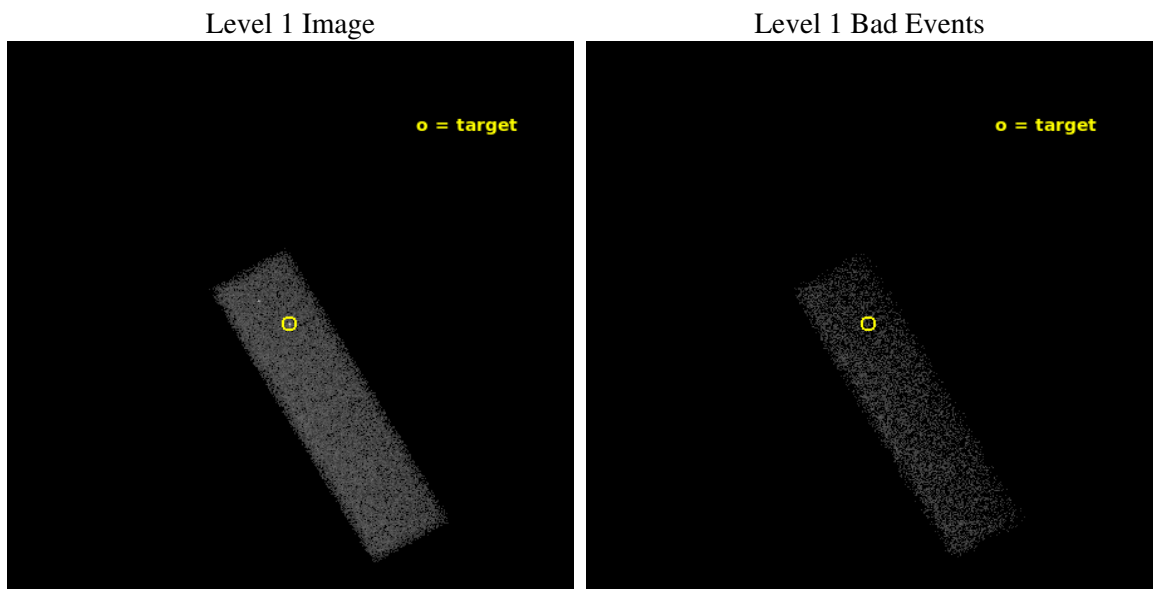




## 2 OBI

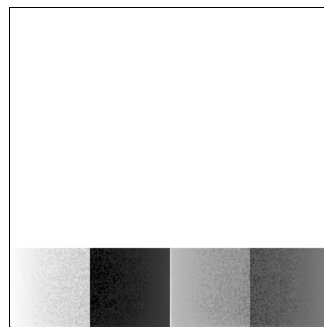
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	17500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	17642.400262892	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime7	17642.400262892	Sum of GTIs [s]
date	2020-10-12T03:26:40	Date and time of file creation	l1events	52781	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	52781
rejected events	29407
rejected %	55%

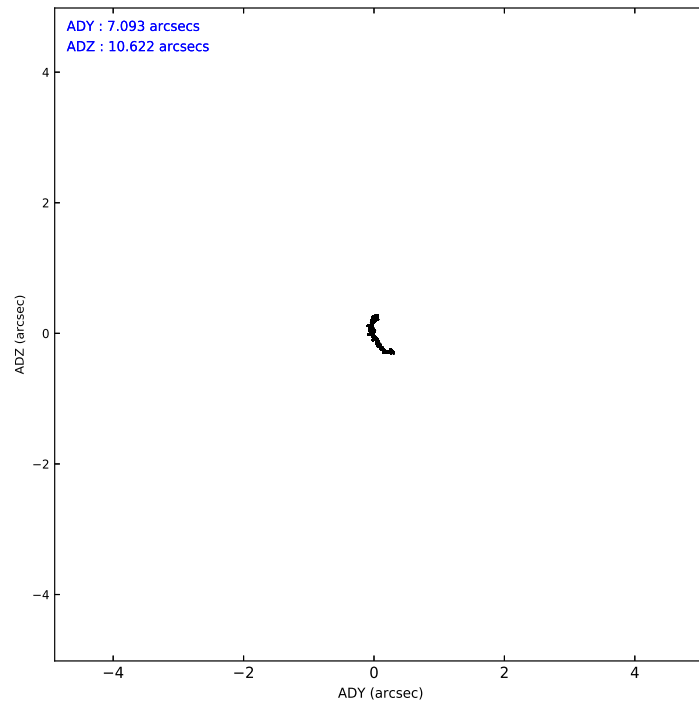
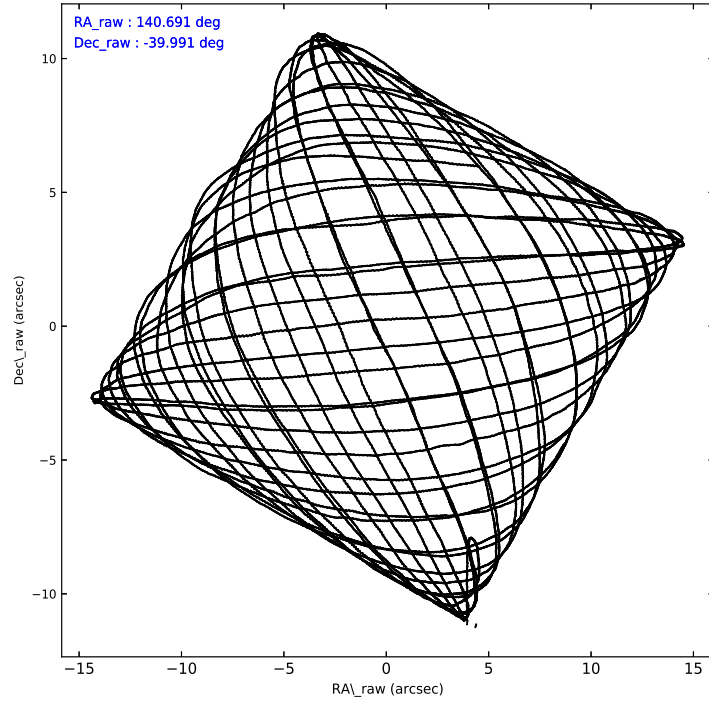
	<b>ccd 7</b>
grade 0 events	2468
	4%
grade 1 events	54
	0%
grade 2 events	4923
	9%
grade 3 events	2608
	4%
grade 4 events	2544
	4%
grade 5 events	4685
	8%
grade 6 events	11959
	22%
grade 7 events	23540
	44%

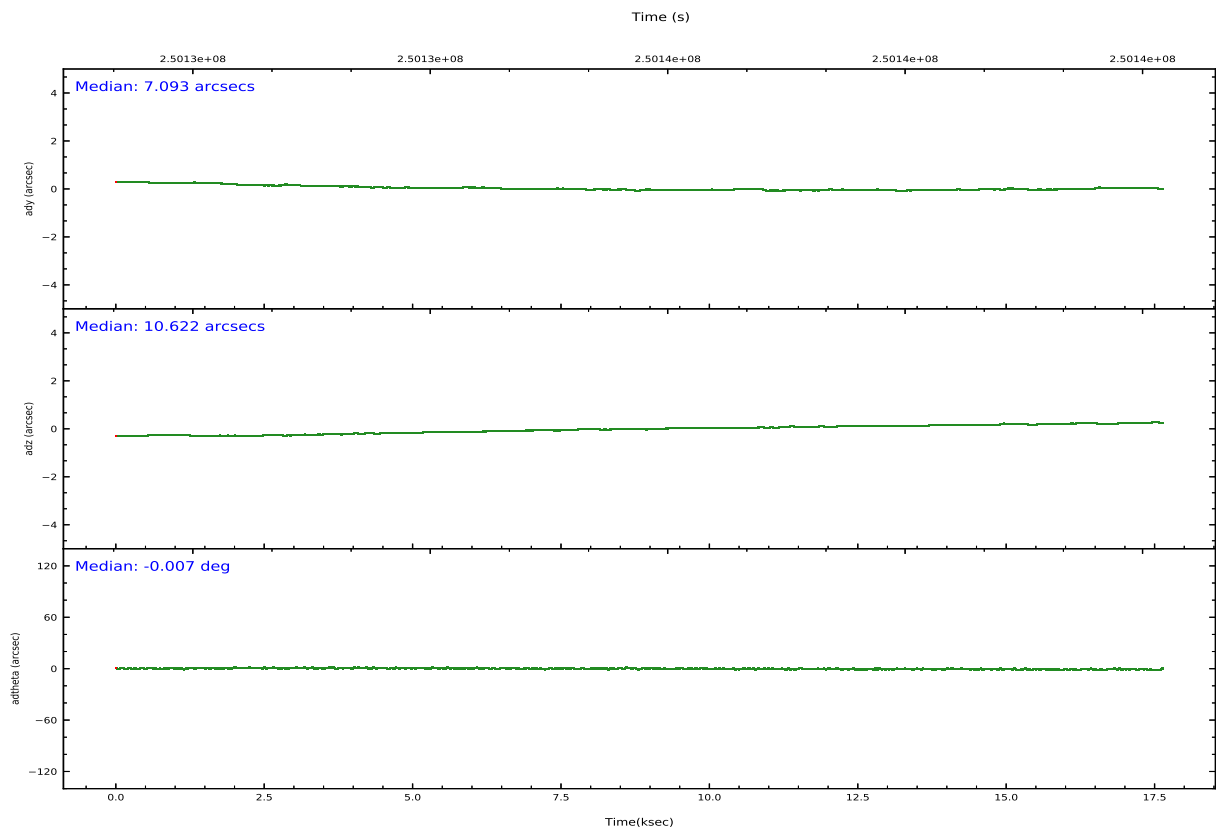
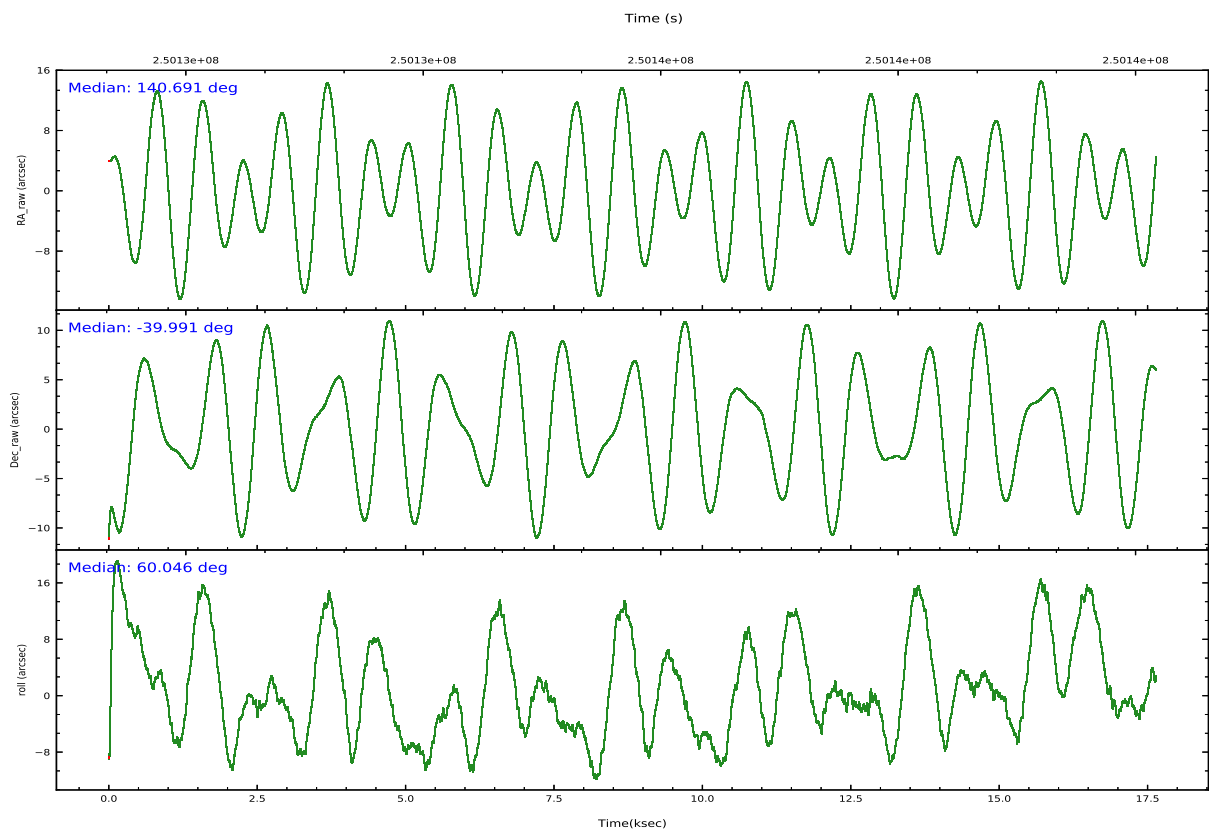
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	140.691538	140.6930785639
[deg] Pointing Dec	-40.017842	-39.994012161816
[deg] Pointing Roll	59.892307	60.04669866434
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-179.932523	-179.9244029796336
[mm] SIM translation stage offset	-10.2	-10.2081196033742
[s] Observation start time (MET)	250126847.184000	250125761.4704
Observation start date	2005-12-04T23:39:43	2005-12-04T23:22:41
[s] Observation end time (MET)	250144347.184000	250145440.44631
Observation end date	2005-12-05T04:31:23	2005-12-05T04:50:40
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/4
Subarray start row	1	1
Subarray row count	256	256
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.8

## 2.3 Aspect



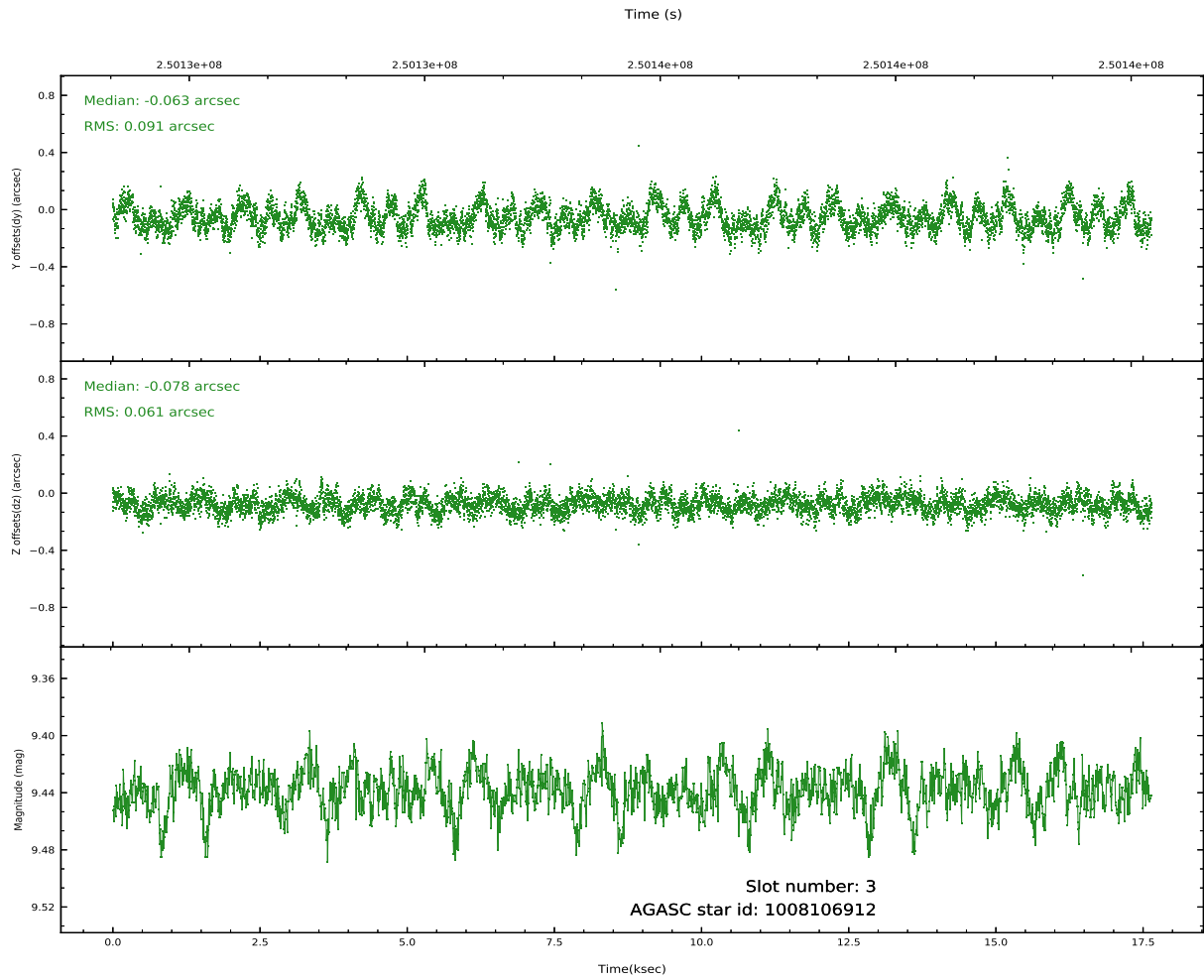
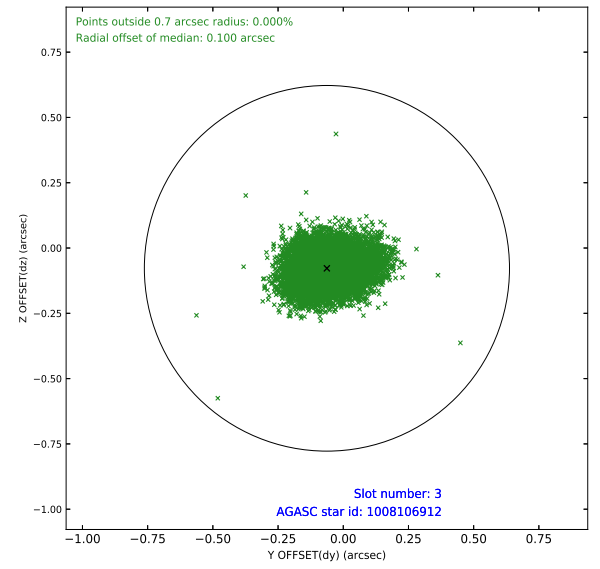
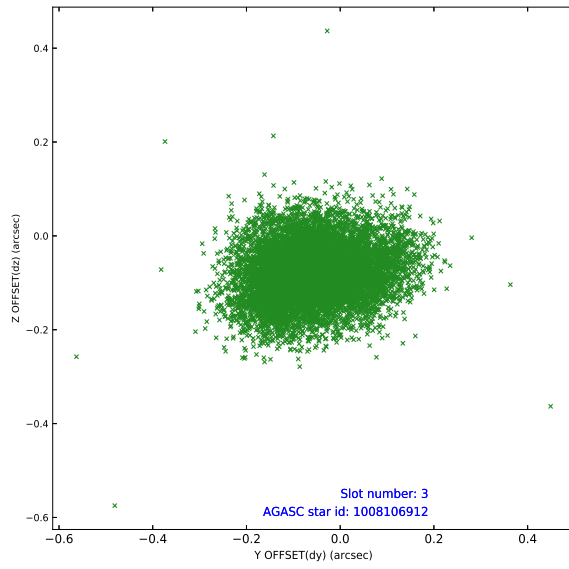


Slot Statistics

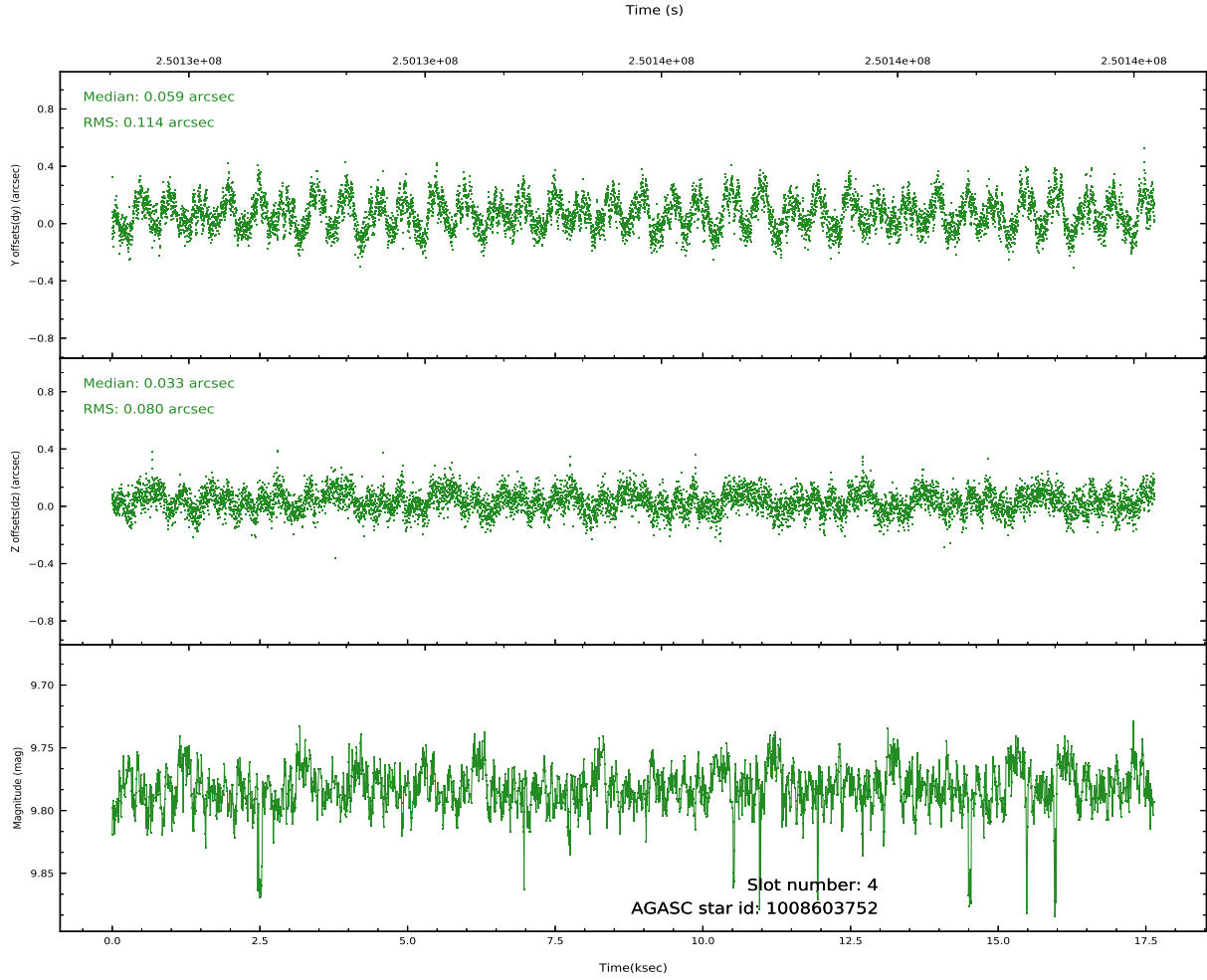
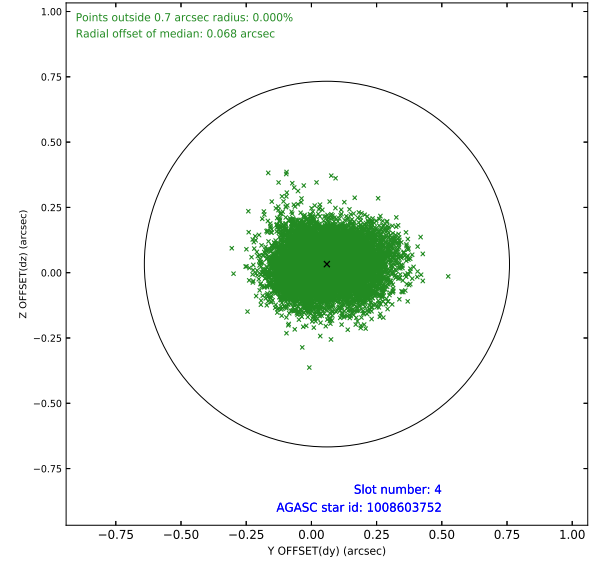
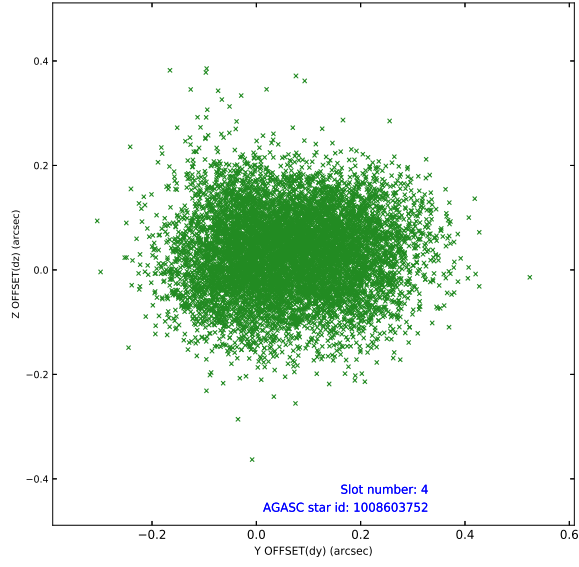
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.19	4303	1.000	0.041	0.195	0.011	0.019	0.000000	0.000000	936.98	-1937
1	FID		ACIS-S-2	7.08	4303	1.000	-0.207	-0.249	0.015	0.028	0.000000	0.000000	-759.03	-1942
2	FID		ACIS-S-6	7.42	4304	1.000	0.146	0.055	0.011	0.017	0.000000	0.000000	402.59	603
3	GUIDE	used	1008106912	9.44	8599	1.000	-0.063	-0.078	0.116	0.188	140.582590	-39.253540	2228.01	1643
4	GUIDE	used	1008603752	9.78	8482	1.000	0.059	0.033	0.149	0.237	141.728820	-39.898451	1795.71	-2270
5	GUIDE	used	1008610064	8.91	8602	1.000	-0.033	0.115	0.082	0.136	141.362695	-40.226184	271.48	-1975
6	GUIDE	used	1008631096	7.54	8607	1.000	-0.063	-0.147	0.073	0.118	140.384695	-39.696088	574.71	1315
7	GUIDE	used	1008618944	8.81	8604	1.000	0.087	0.087	0.069	0.115	140.708087	-40.765098	-2303.81	-1389

## 2.4 Star Slots

### 2.4.1 Slot 3

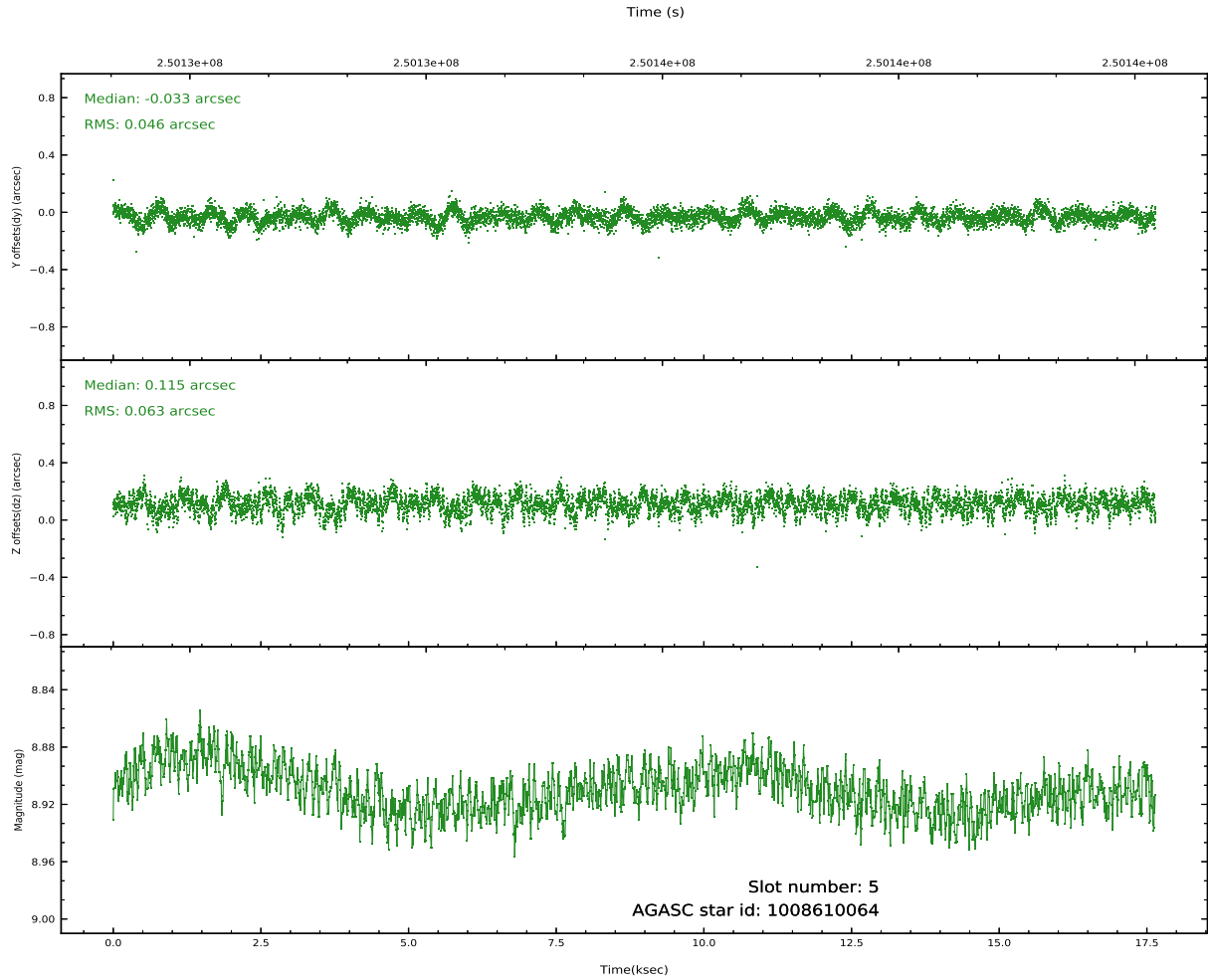
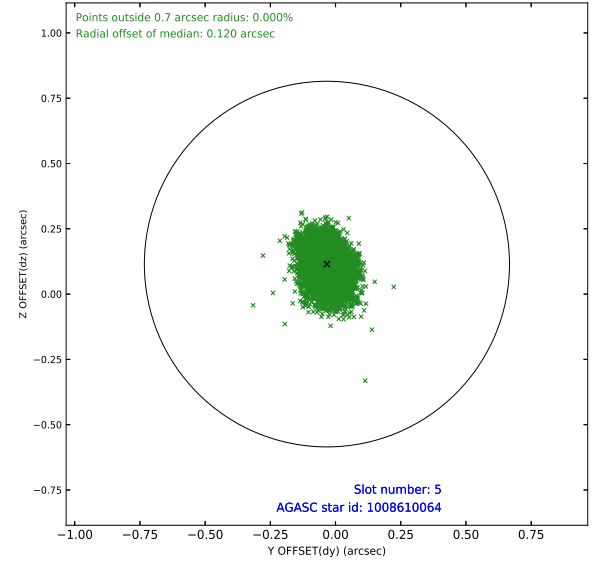
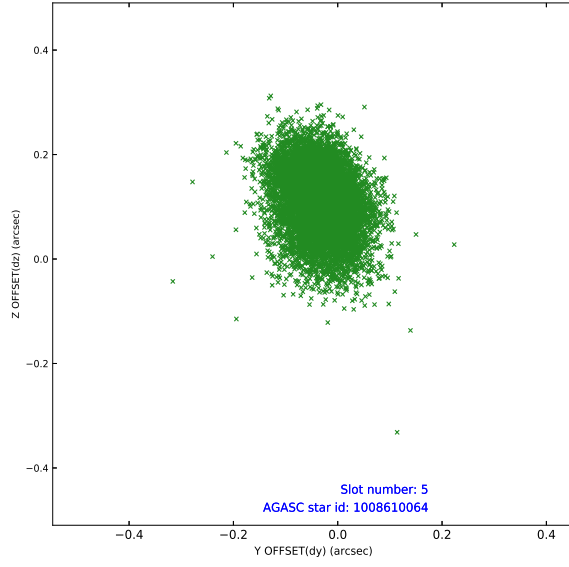


## 2.4.2 Slot 4

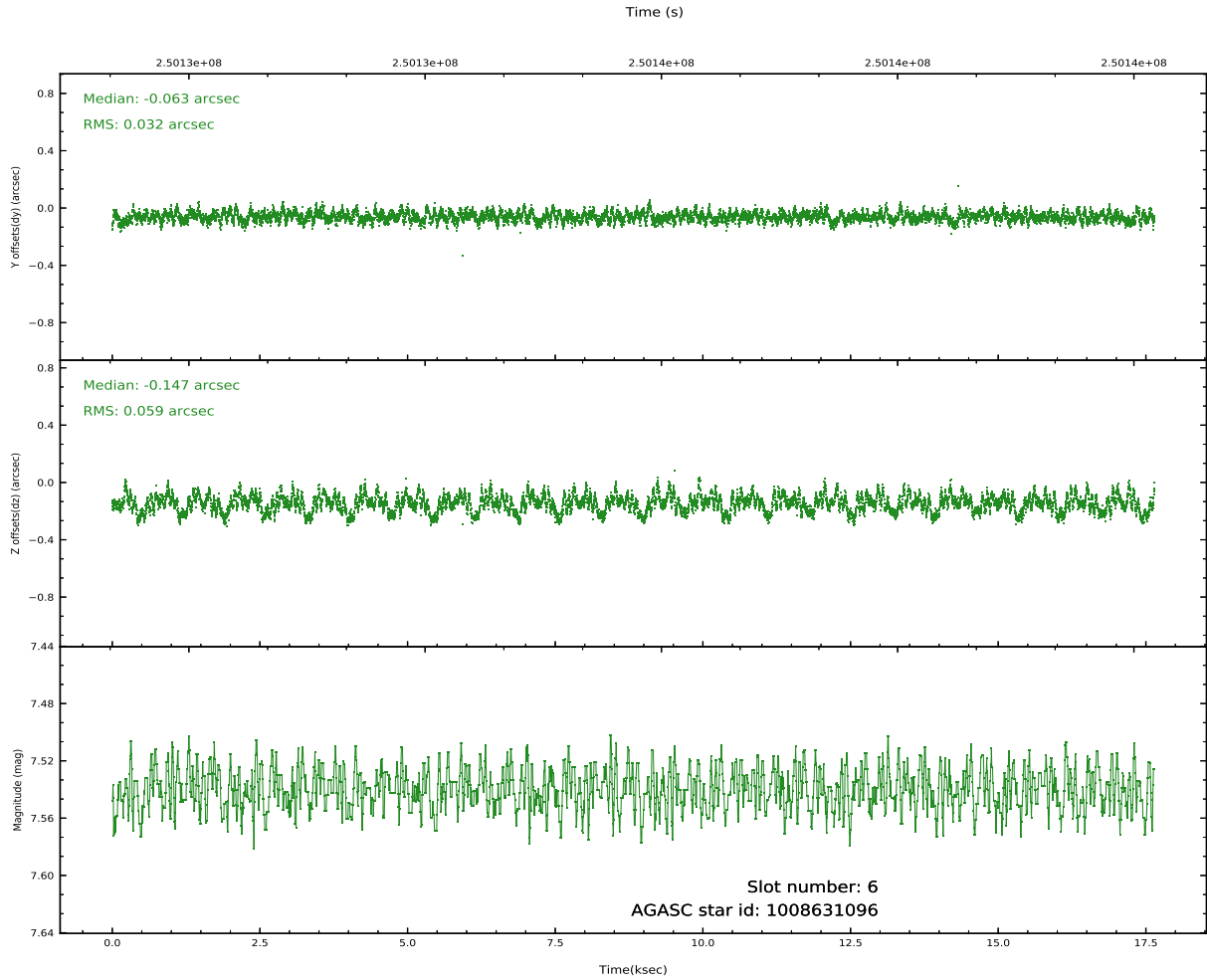
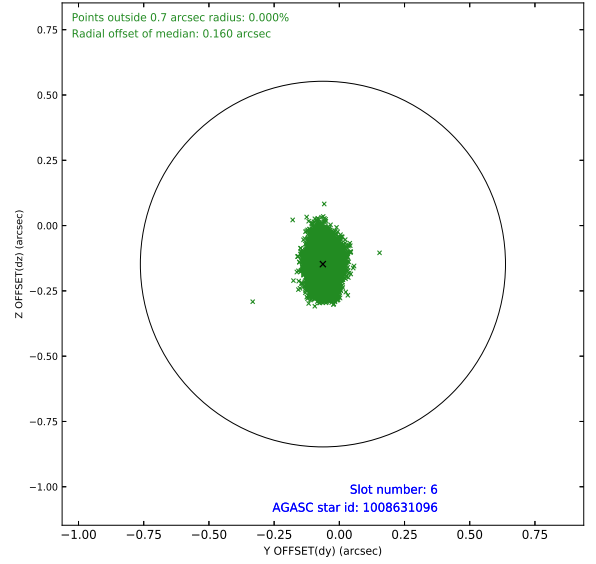
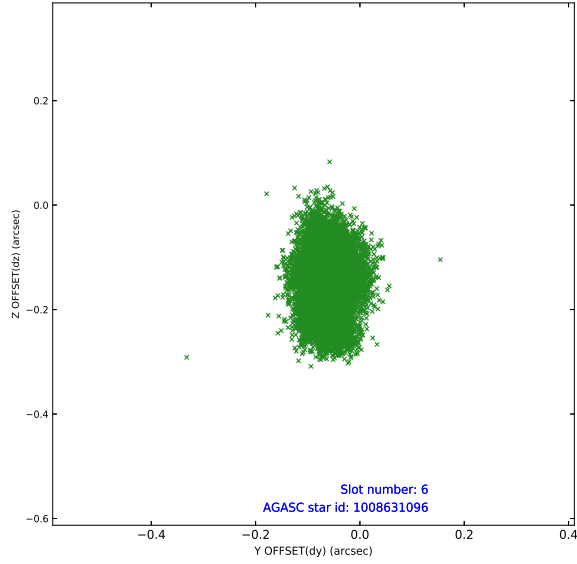




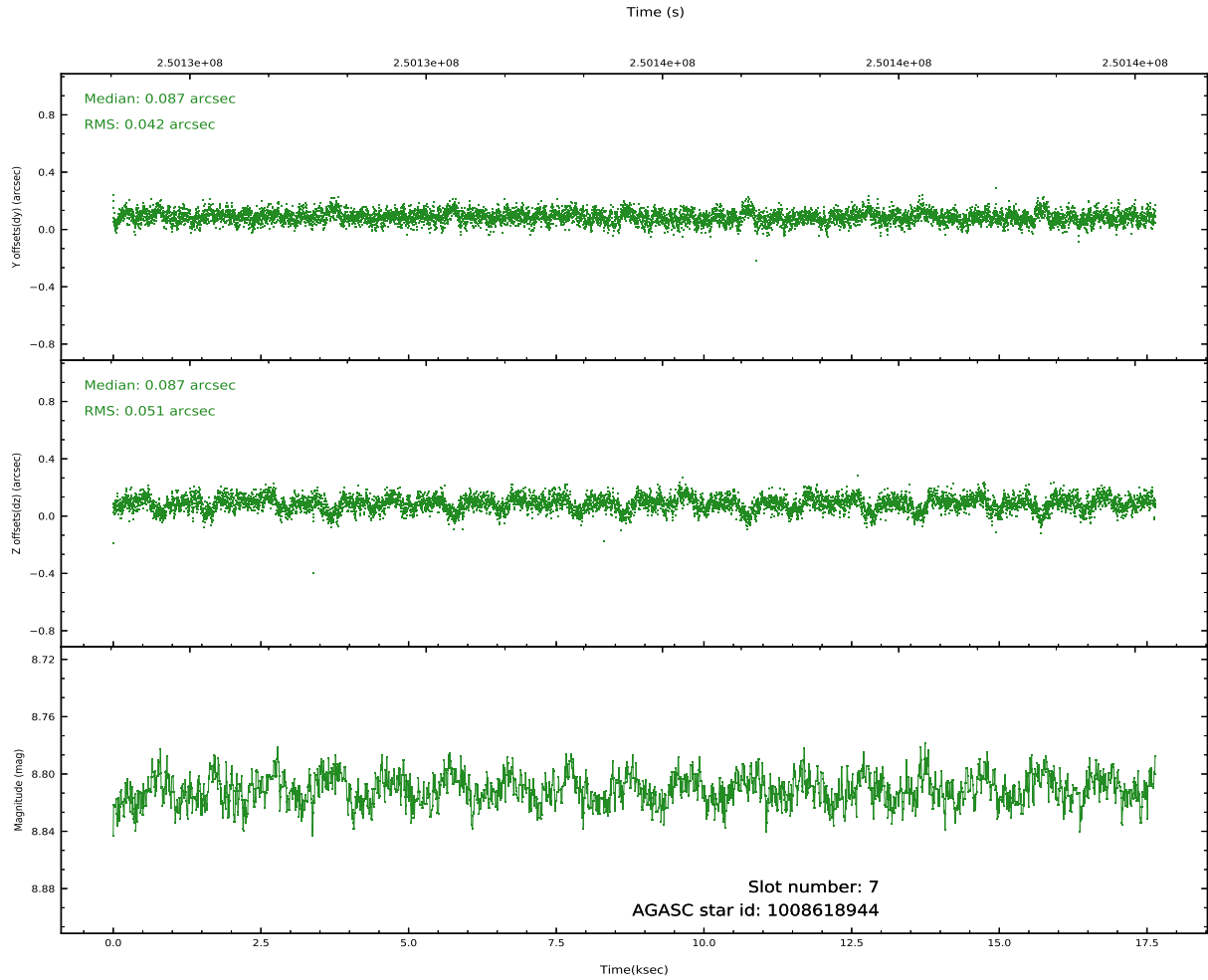
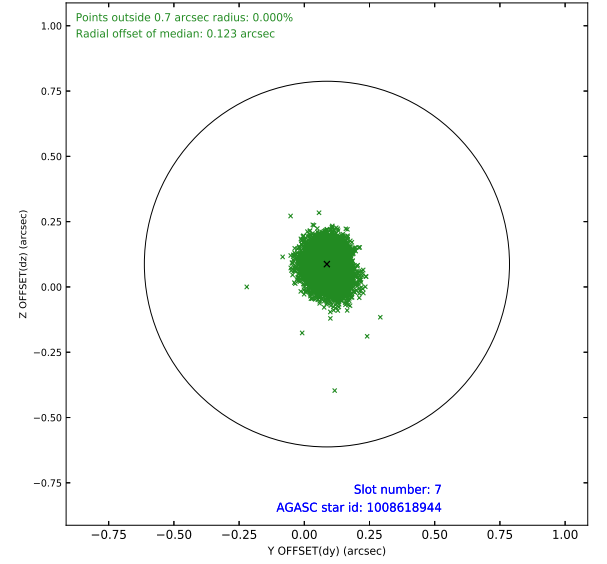
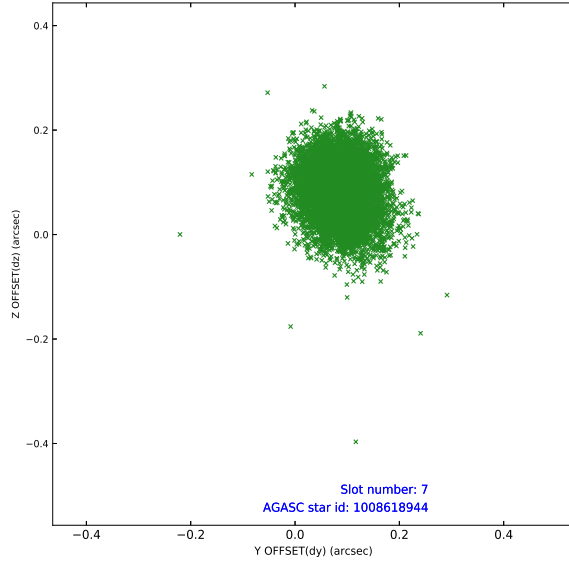
### 2.4.3 Slot 5



## 2.4.4 Slot 6

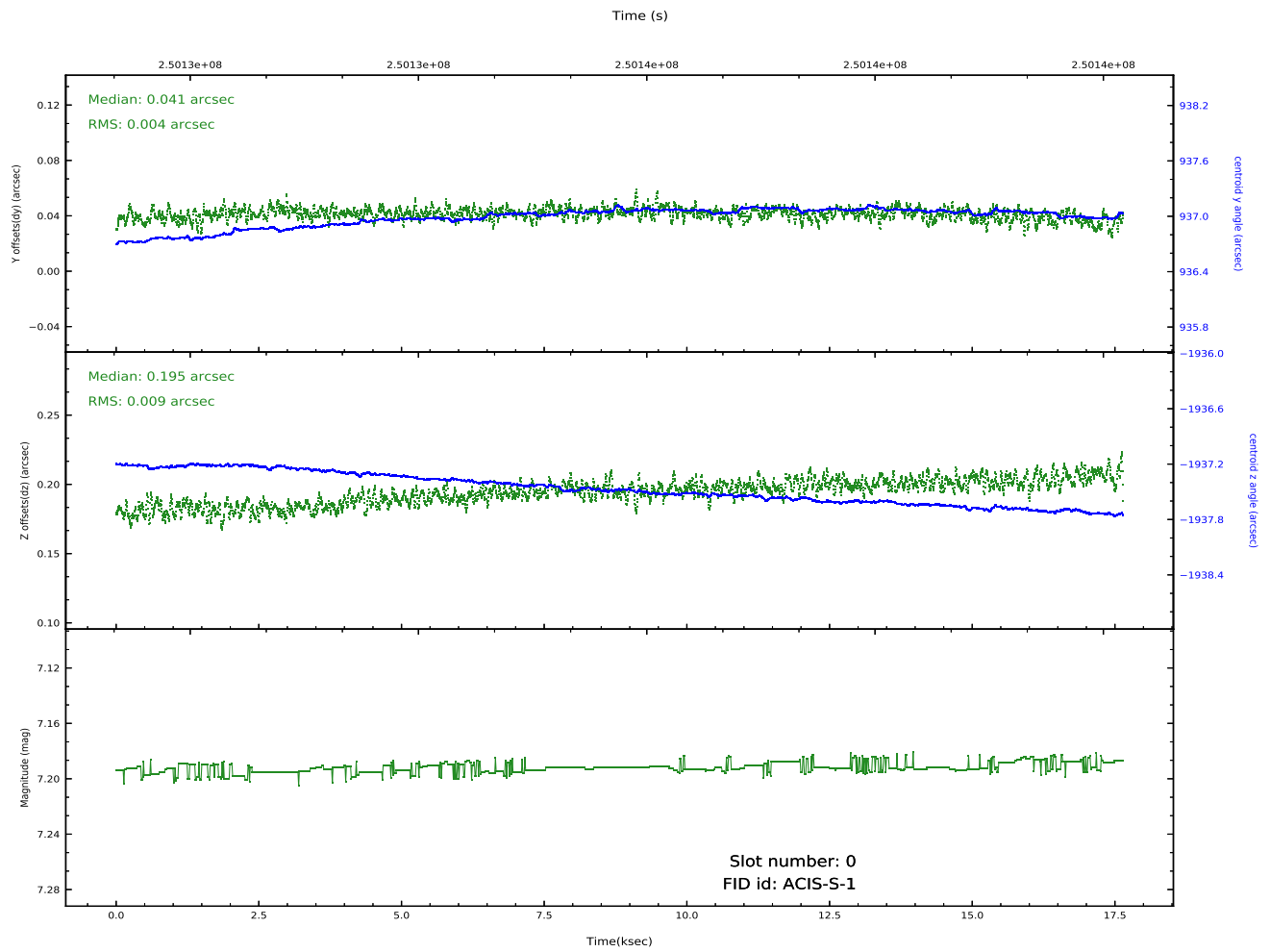
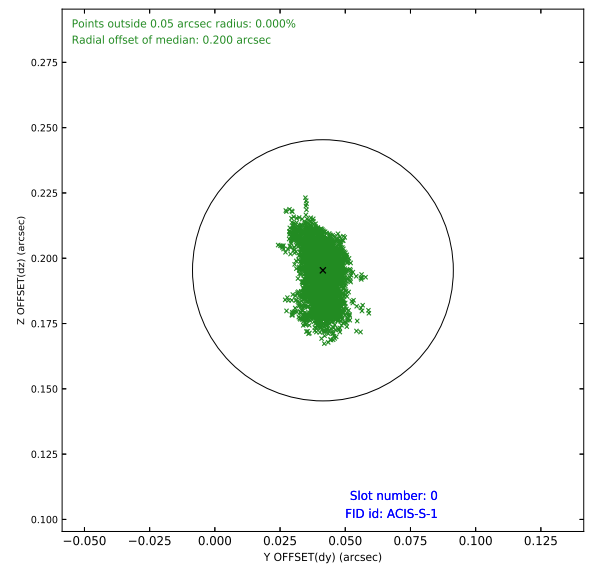
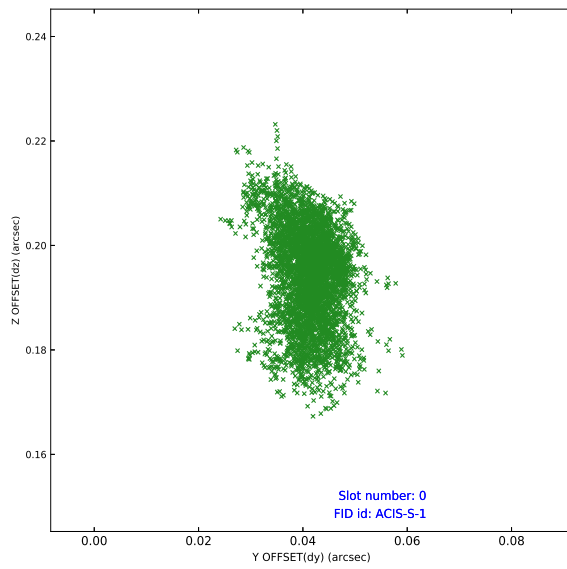


## 2.4.5 Slot 7

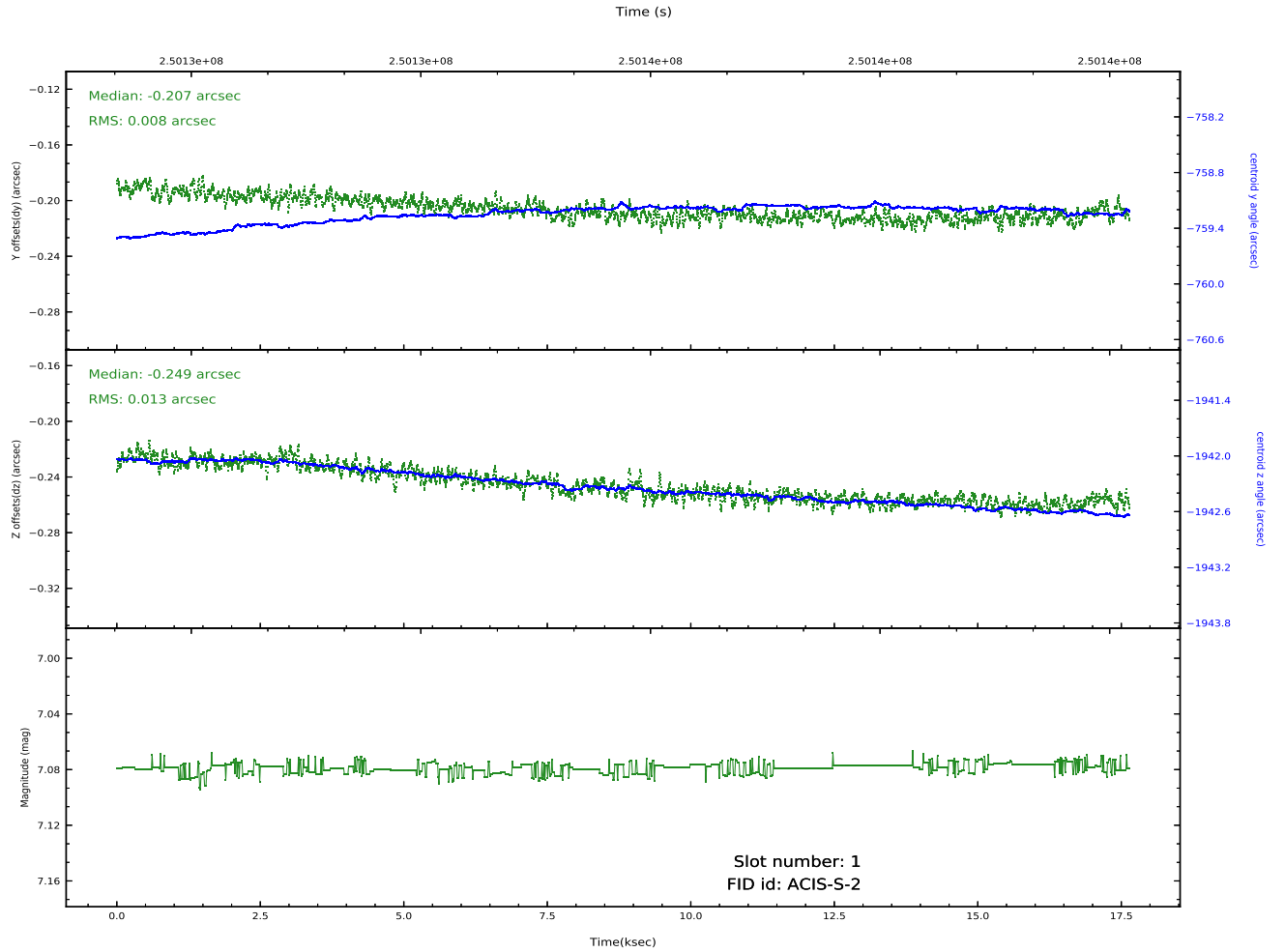
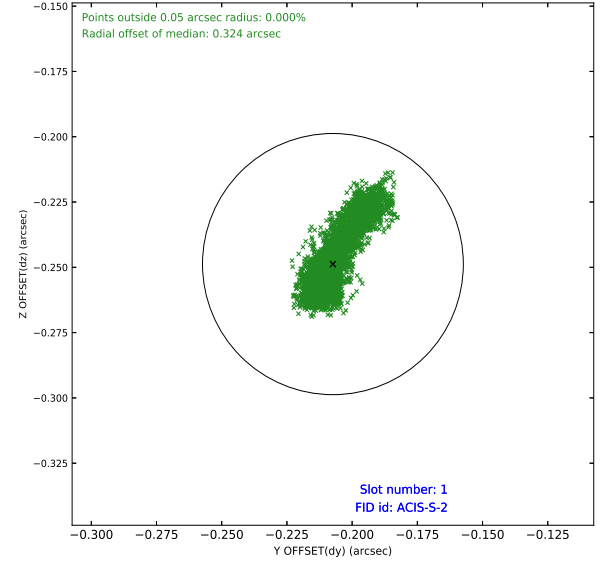
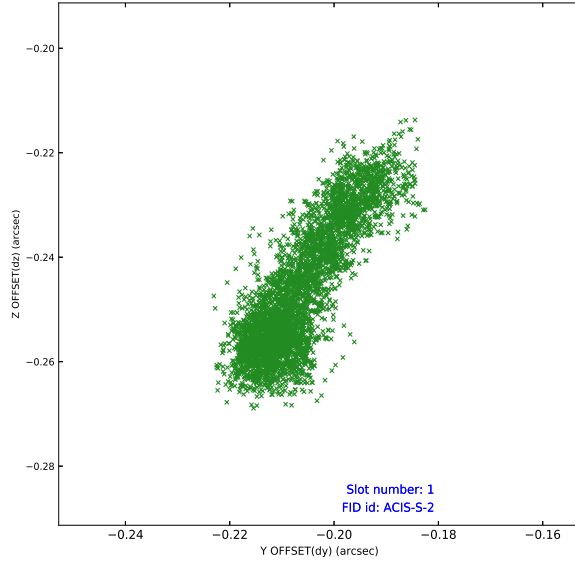


## 2.5 FID Slots

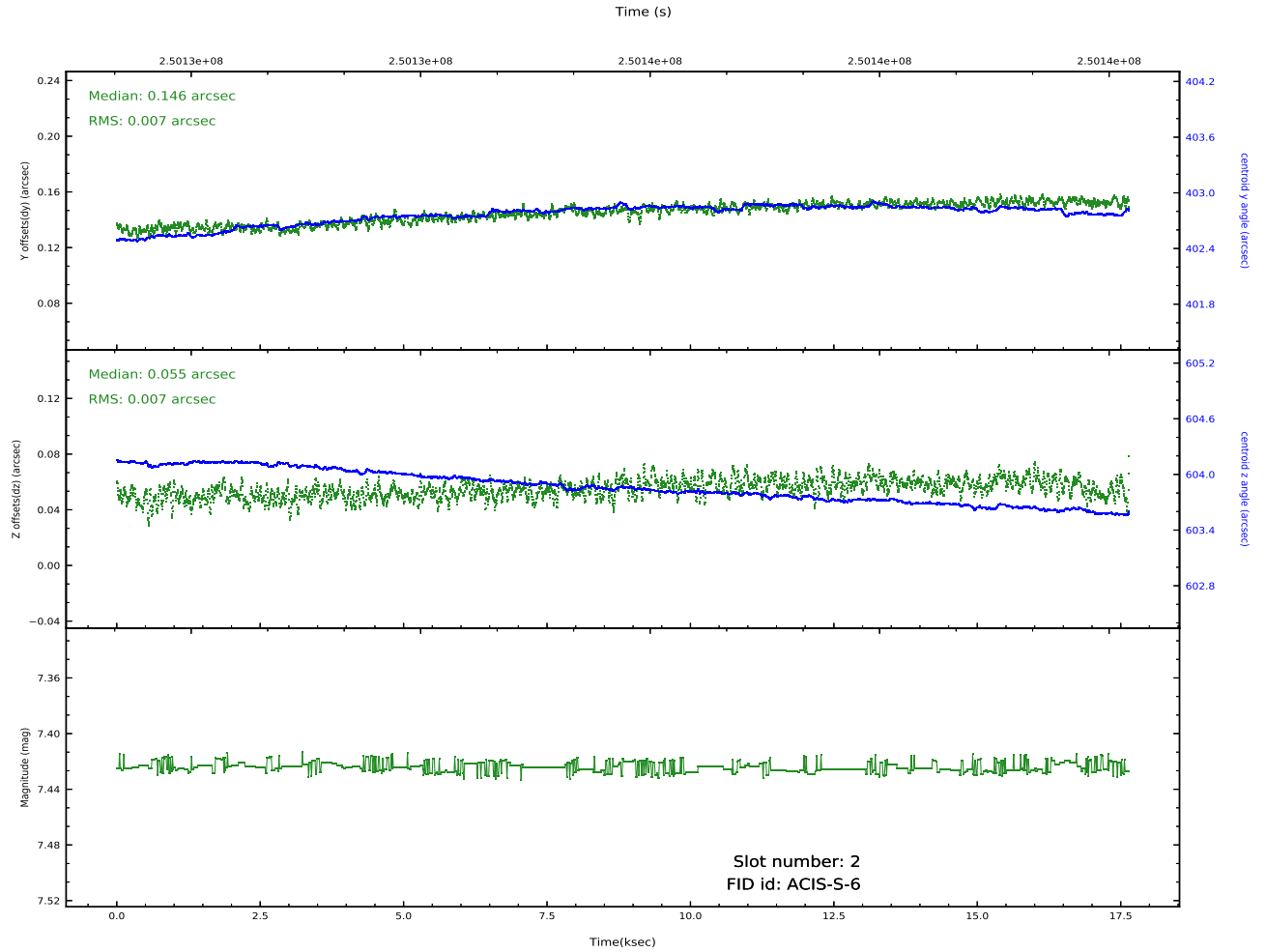
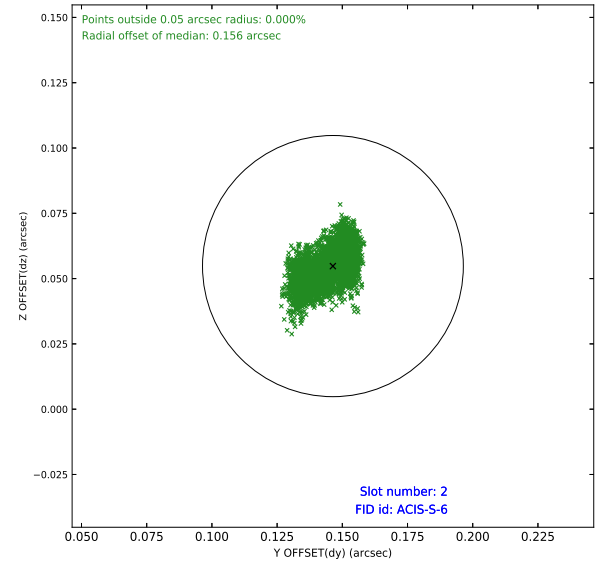
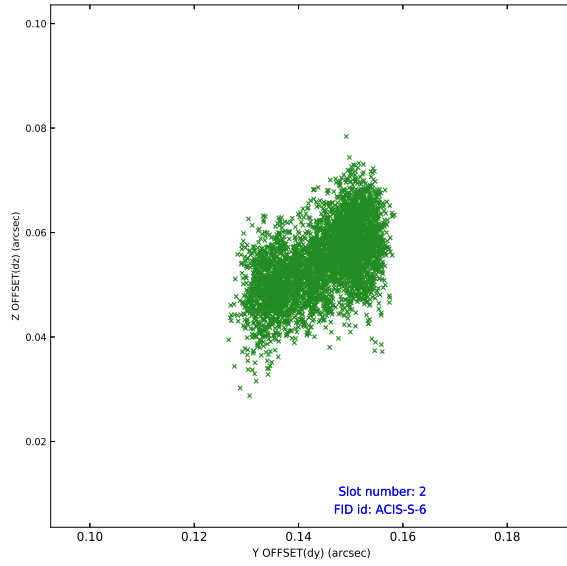
### 2.5.1 Slot 0



## 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	17.6424

### A.2 Comments