

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5414 - L2 Version 5  
Chandra X-Ray Center

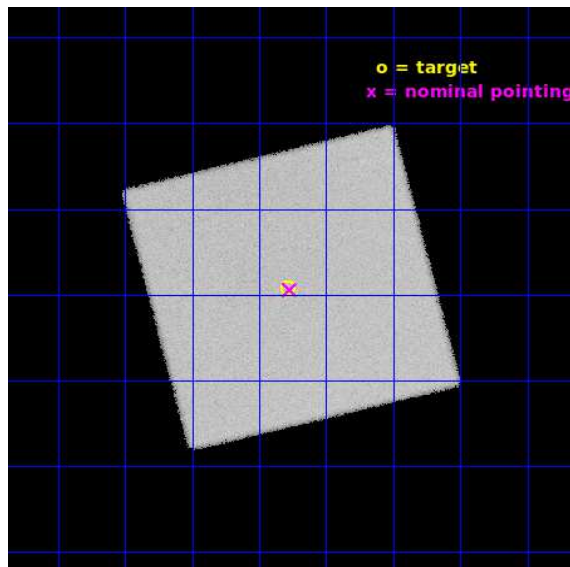
L2 Processing Date : Oct 5 2020

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# 1 Front

seq_num	200347	Sequence number
obs_id	5414	Observation id
title	Resolving the Puzzle of Hybrid Star Coronal X-rays	Proposal title
observer	THOMAS AYRES	Principal investigator
object	HD 209750	Source name
ra_targ	331.445833	Observer's specified target RA [deg]
dec_targ	-0.319861	Observer's specified target Dec [deg]
ra_nom	331.442899547	Nominal RA [deg]
dec_nom	-0.32346782525988	Nominal Dec [deg]
roll_nom	300.90048176696	Nominal Roll [deg]
revision	5	Processing version of data
ontime	20148.682158172	[s]
livetime	20005.739239734	Ontime multiplied by DTCOR
l2events	747784	Number of level 2 events

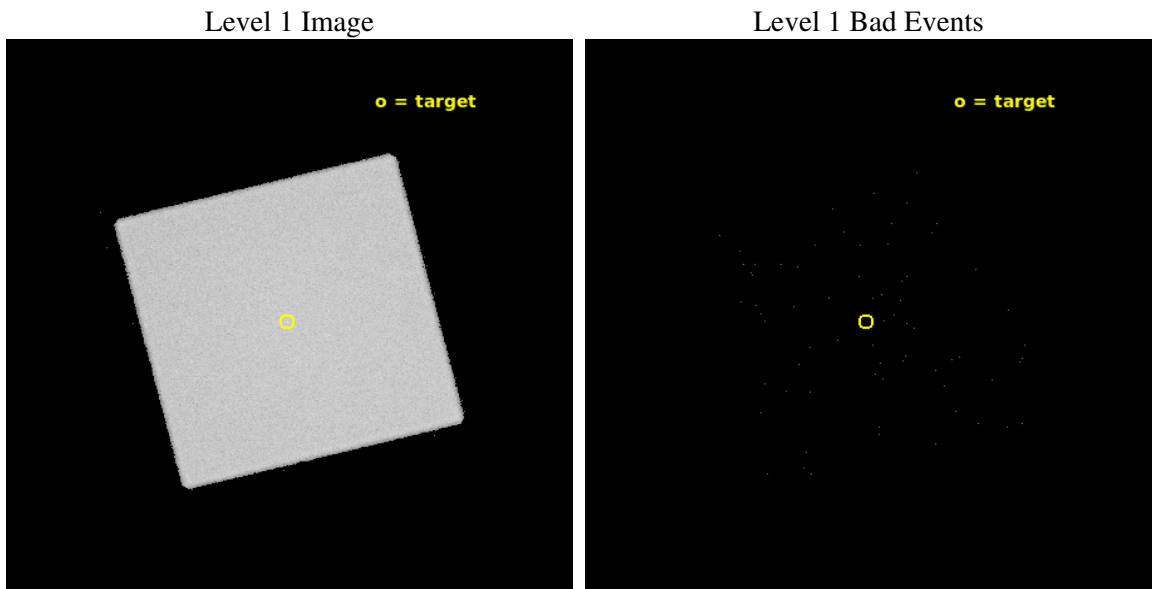




## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	20148.682158172	[s]
caldsver	4.9.2	&#160	l1events	1149778	Number of level 1 events
date	2020-10-06T02:42:52	Date and time of file creation			
revision	5	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

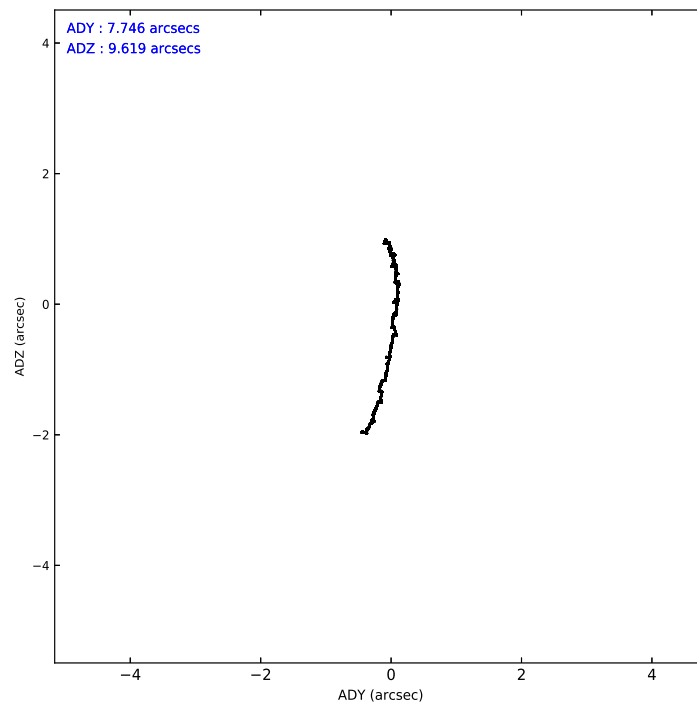
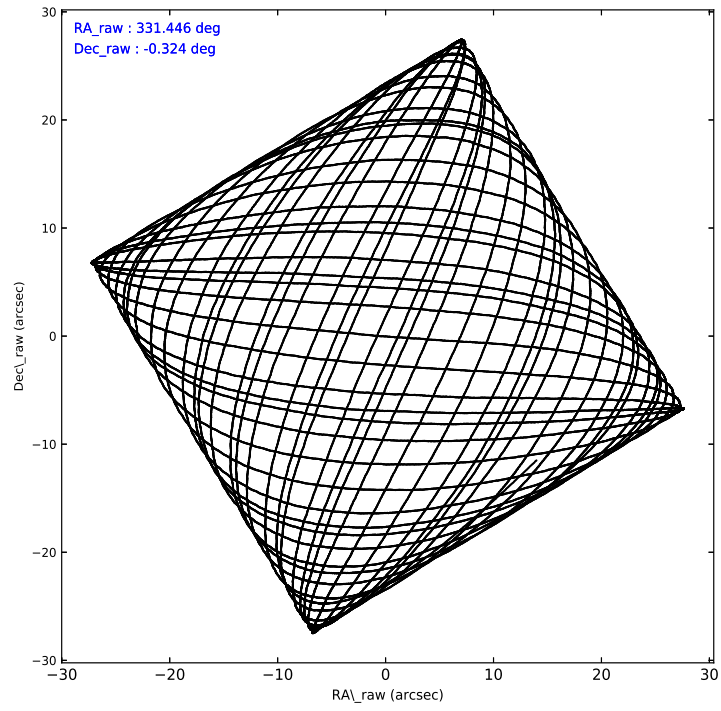
	<b>segment 0</b>
level 1 events	1149778
rejected events	42911
rejected %	3%

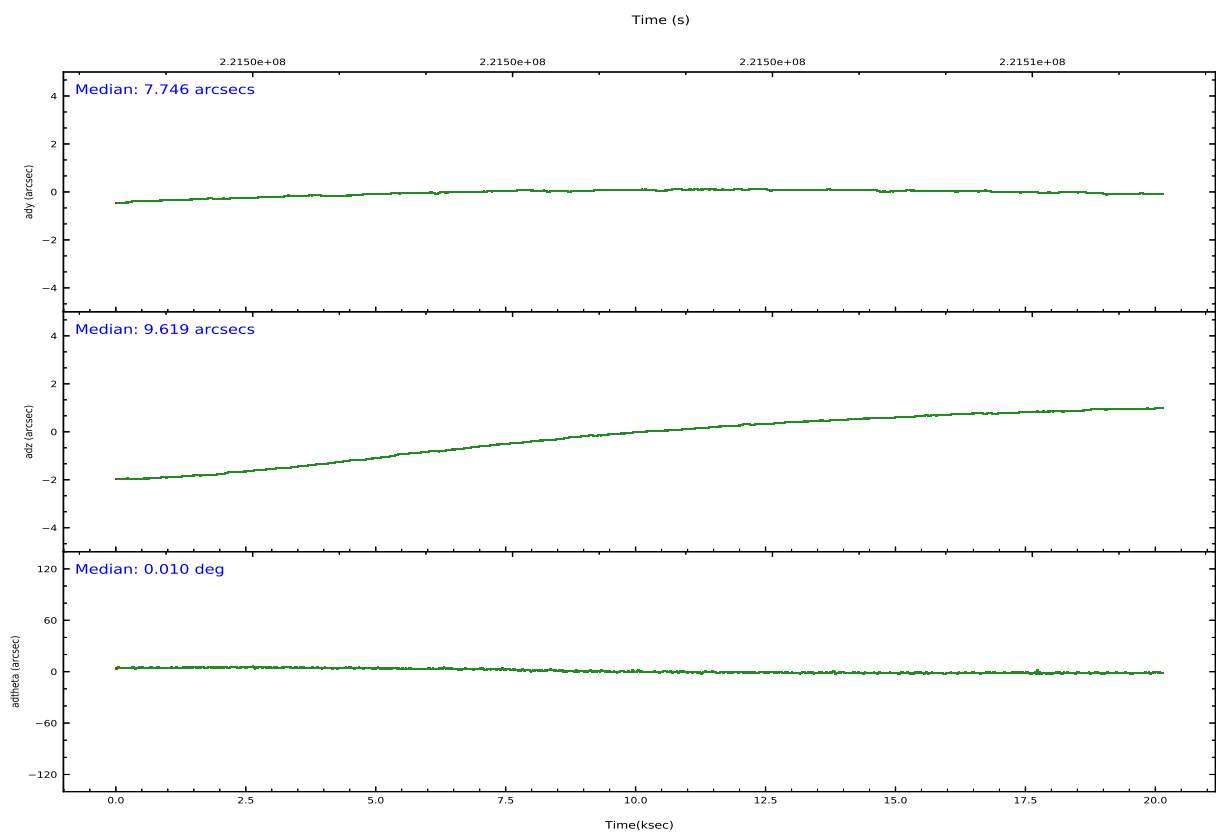
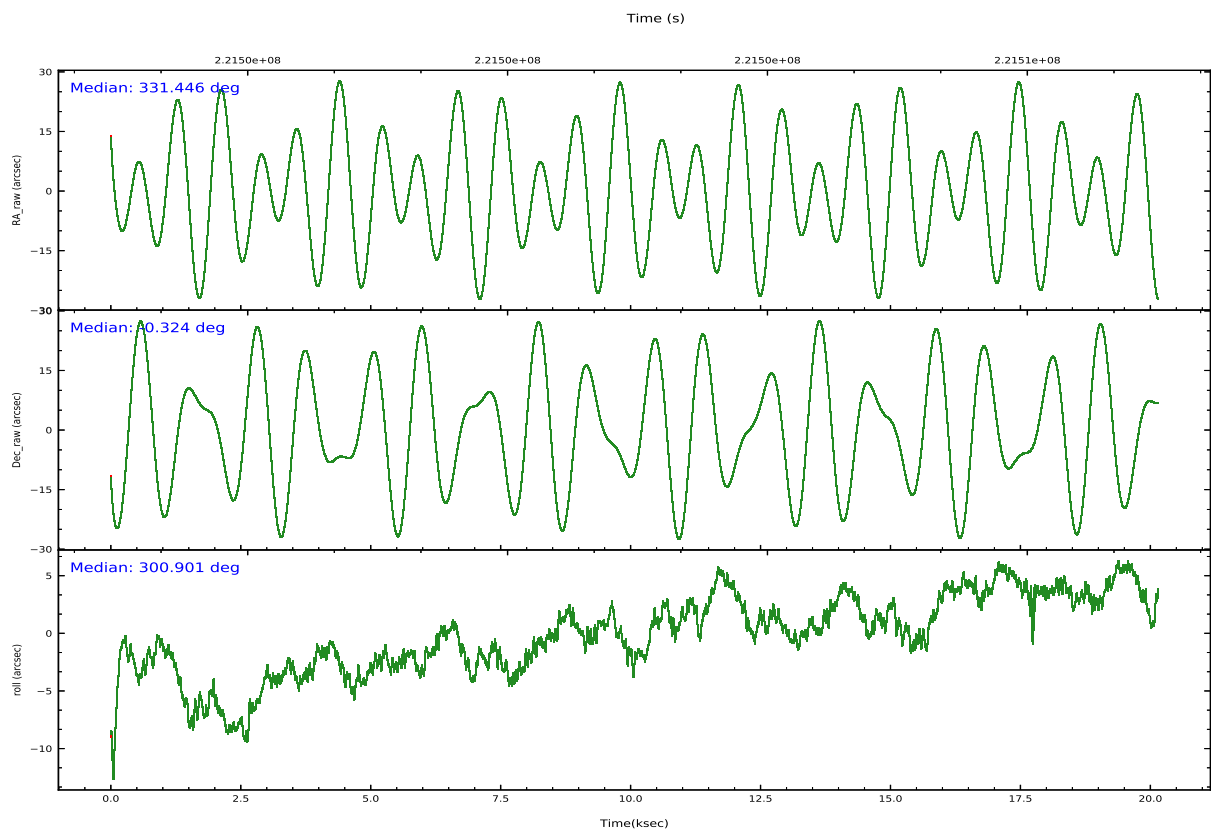
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	331.422439	331.442899547
[deg] Pointing Dec	-0.311364	-0.32346782525988
[deg] Pointing Roll	301.010777	300.90048176696
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9829799899862
[mm] SIM translation stage offset	0	0.002508901615314585
[s] Observation start time (MET)	221492516.184000	221491538.00005
Observation start date	2005-01-07T13:40:52	2005-01-07T13:25:38
[s] Observation end time (MET)	221512516.184000	221513028.15102
Observation end date	2005-01-07T19:14:12	2005-01-07T19:23:48

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect



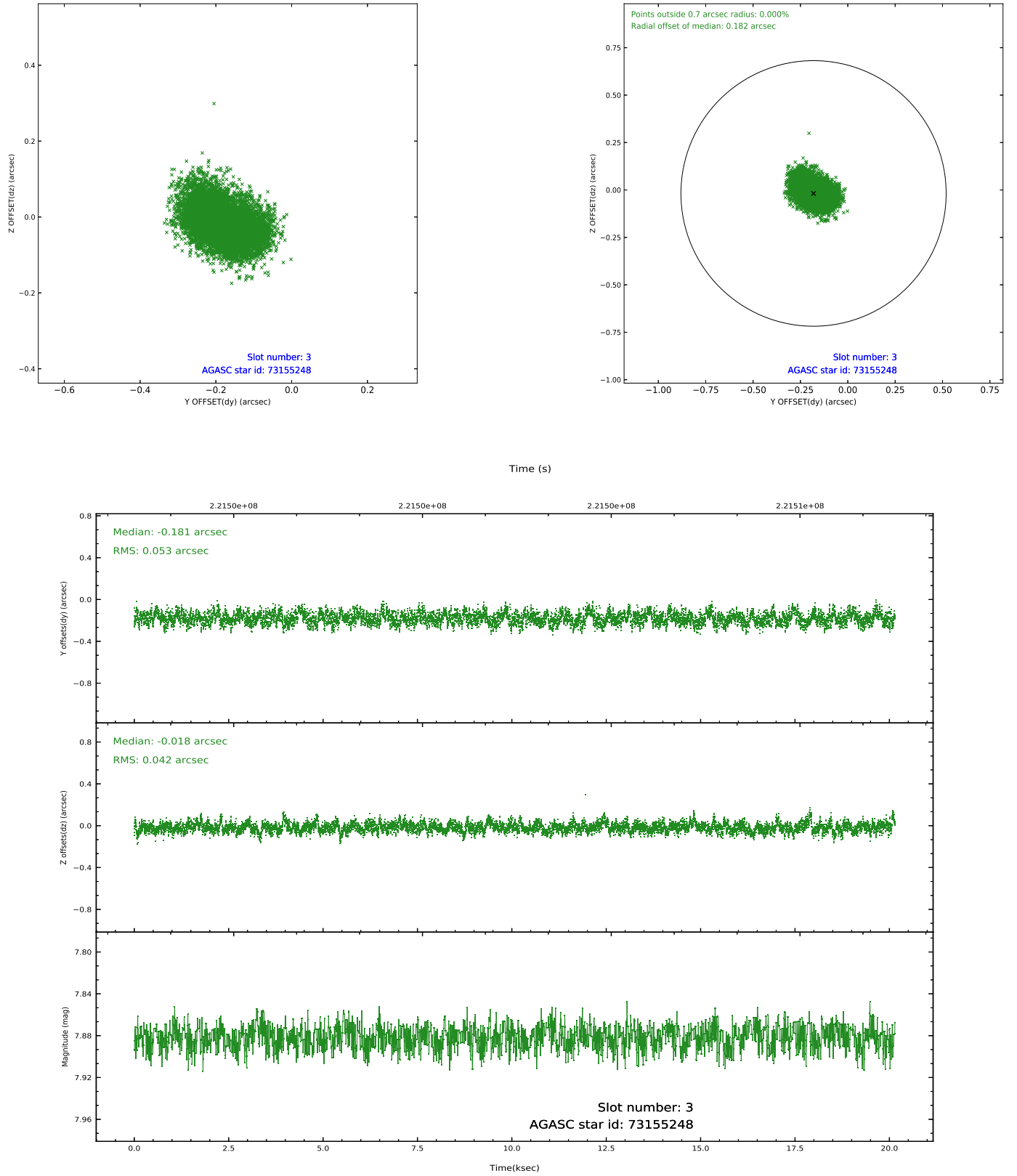


Slot Statistics

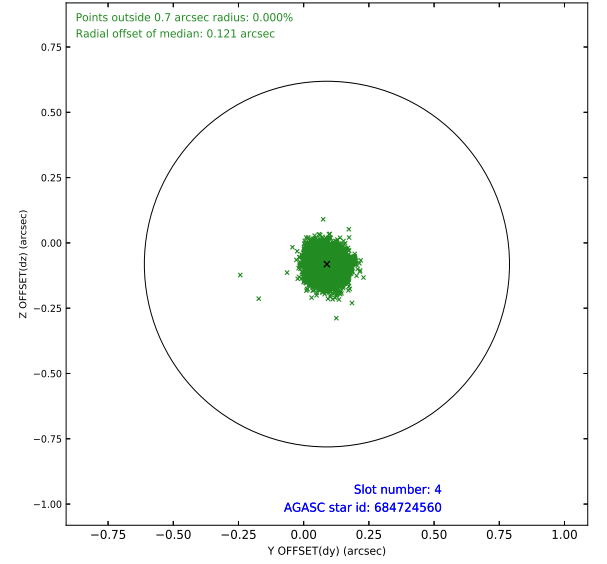
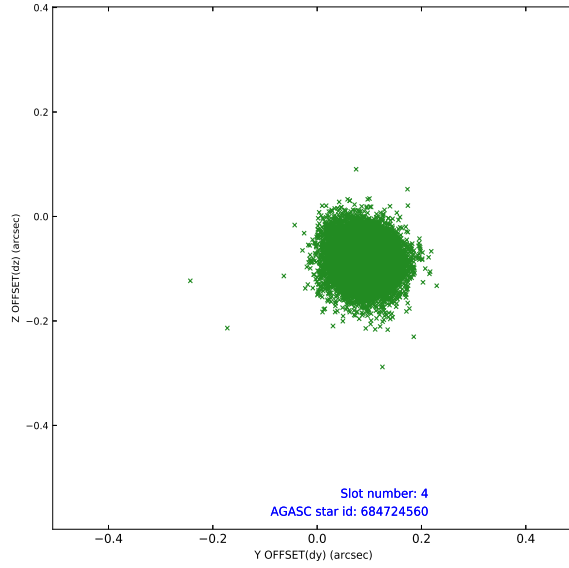
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	6.96	4914	1.000	-0.013	-0.011	0.027	0.038	0.000000	0.000000	-763.34	-1297
1	FID		HRC-I-3	7.05	4914	1.000	-0.039	-0.091	0.014	0.042	0.000000	0.000000	-1191.97	1006
2	FID		HRC-I-4	6.99	4914	1.000	0.165	0.012	0.021	0.038	0.000000	0.000000	1279.43	1005
3	GUIDE	used	73155248	7.88	9830	1.000	-0.181	-0.018	0.072	0.119	331.348846	0.261149	-1902.93	834
4	GUIDE	used	684724560	7.66	9829	1.000	0.089	-0.081	0.054	0.086	331.712195	-0.748932	1887.67	82
5	GUIDE	used	684725424	9.54	9826	1.000	0.128	-0.011	0.101	0.178	331.313843	-0.700069	998.79	-1055
6	GUIDE	used	684726104	9.13	9826	1.000	0.043	-0.020	0.083	0.137	331.127859	-0.834413	1068.22	-1878
7	GUIDE	used	684731584	10.00	9812	1.000	-0.077	0.131	0.136	0.226	331.170044	-0.028510	-1340.53	-254

## 2.4 Star Slots

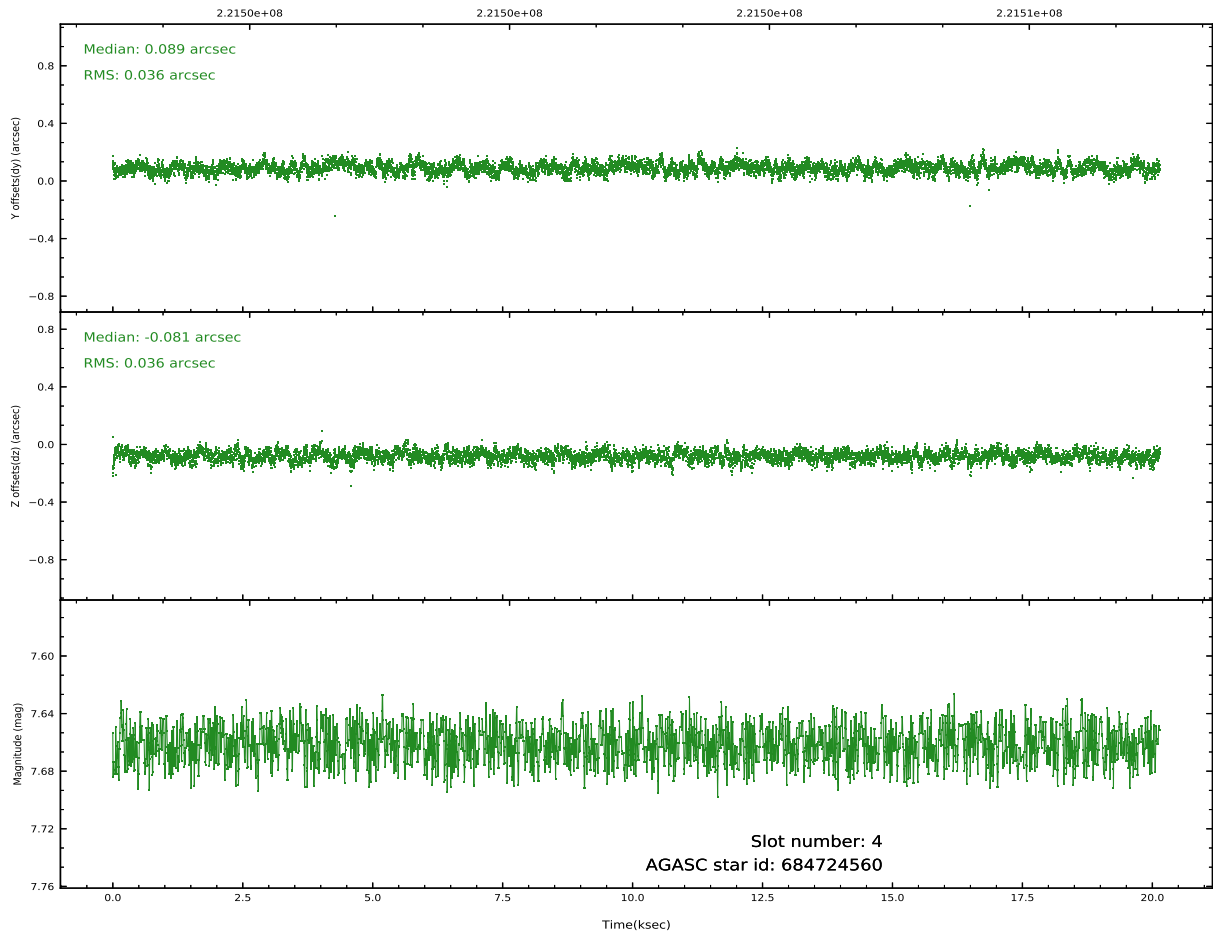
### 2.4.1 Slot 3



## 2.4.2 Slot 4

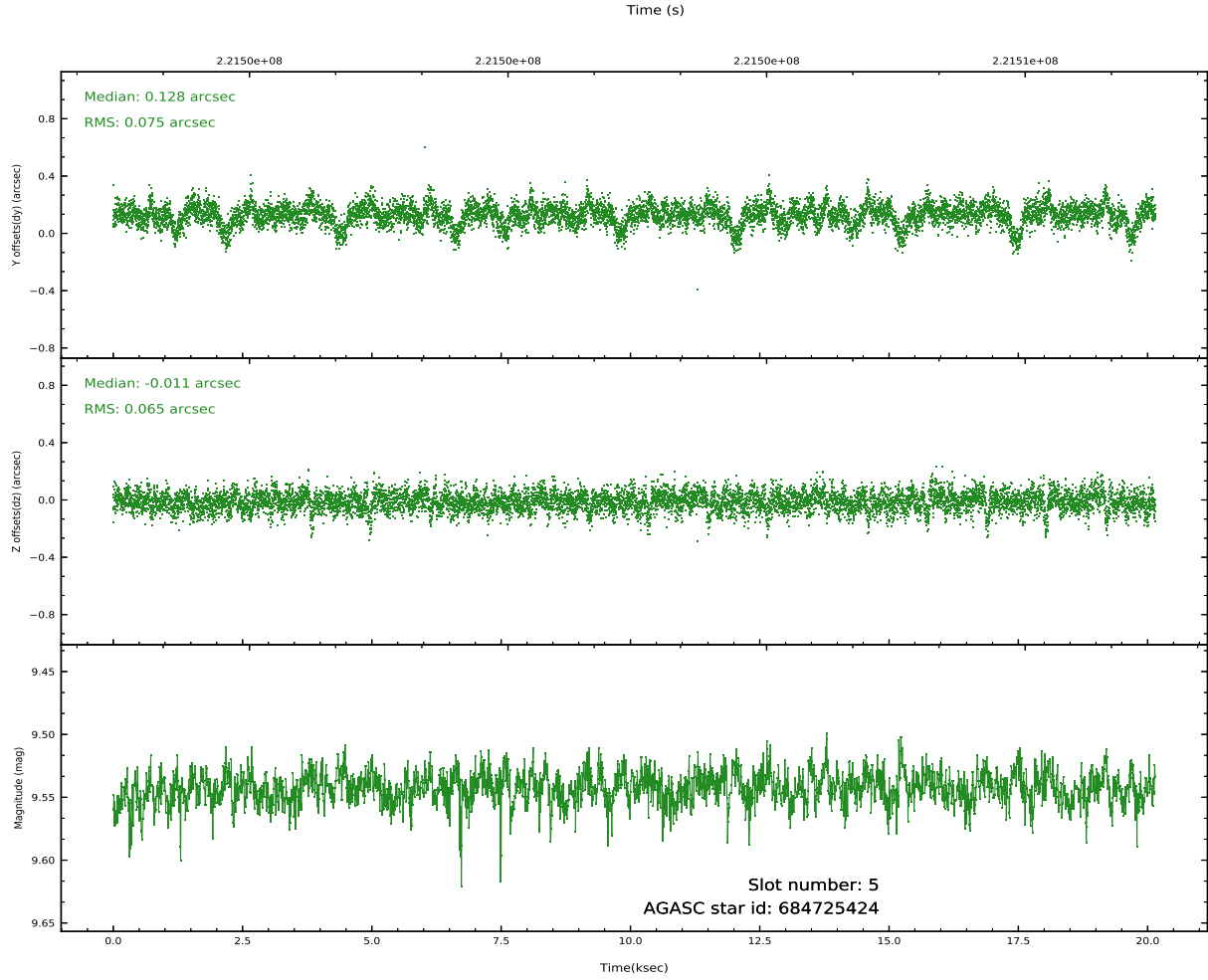
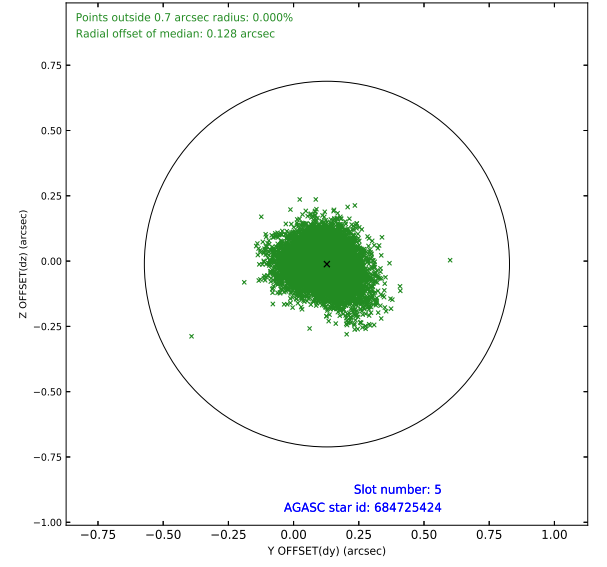
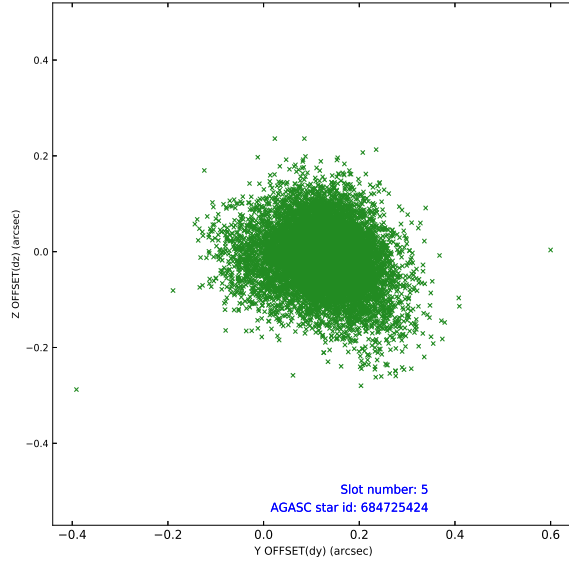


Time (s)

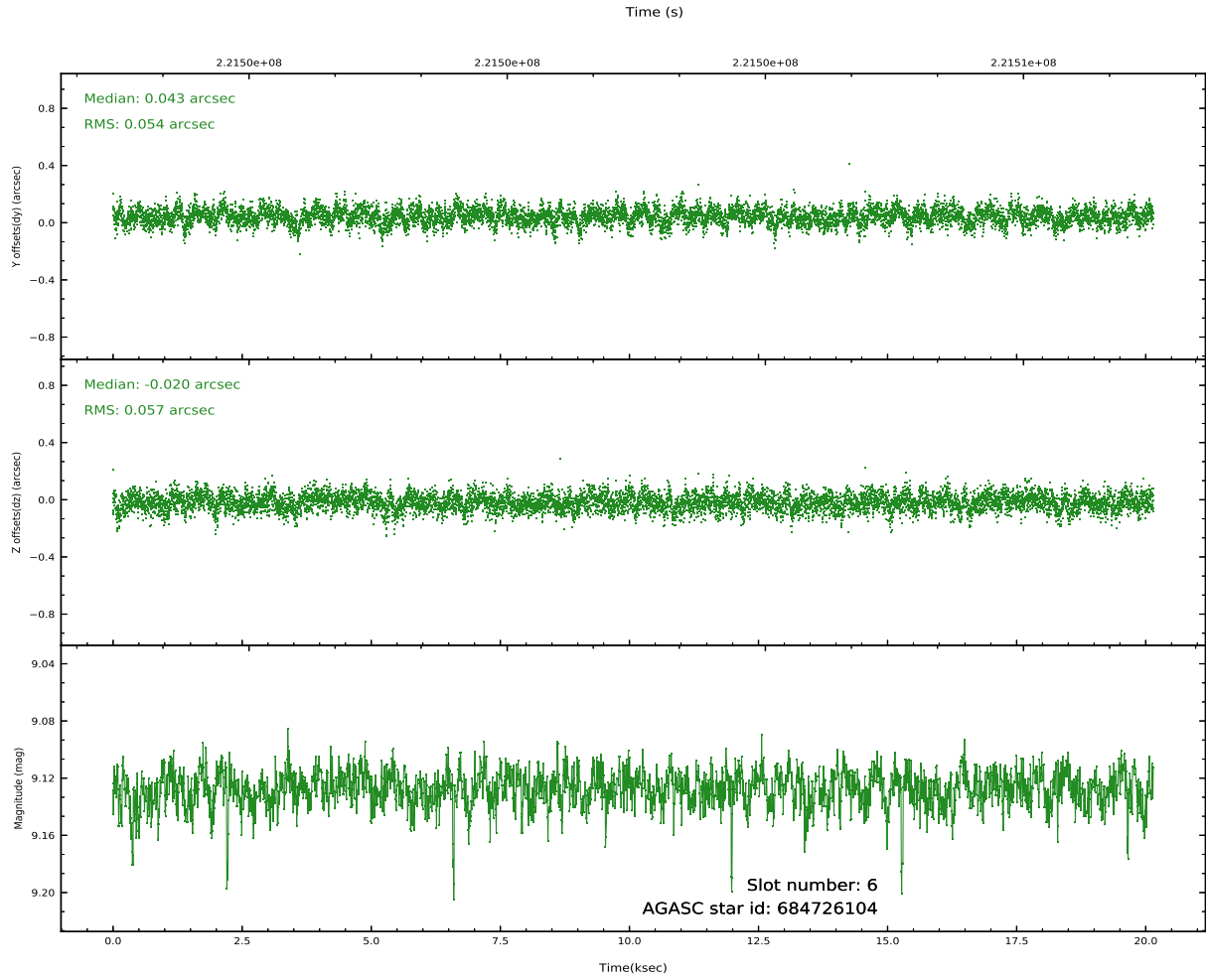
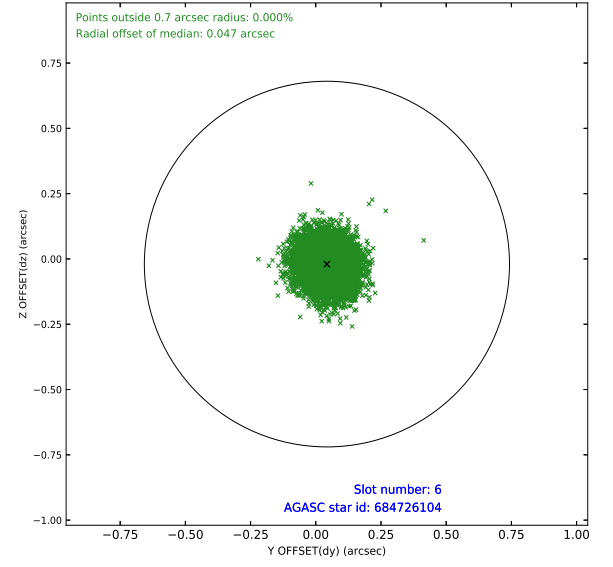
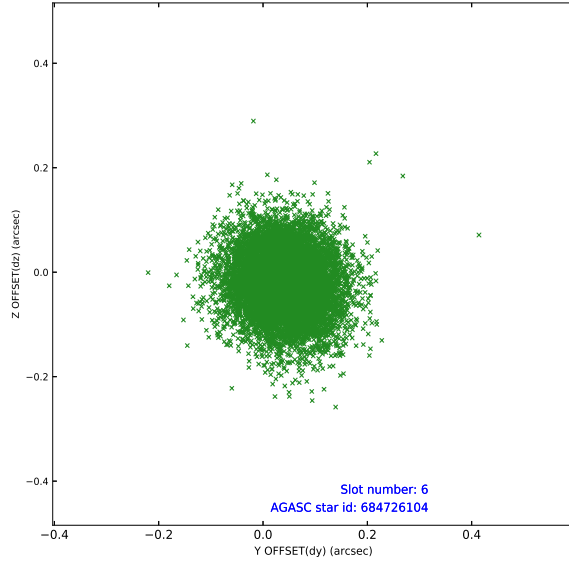




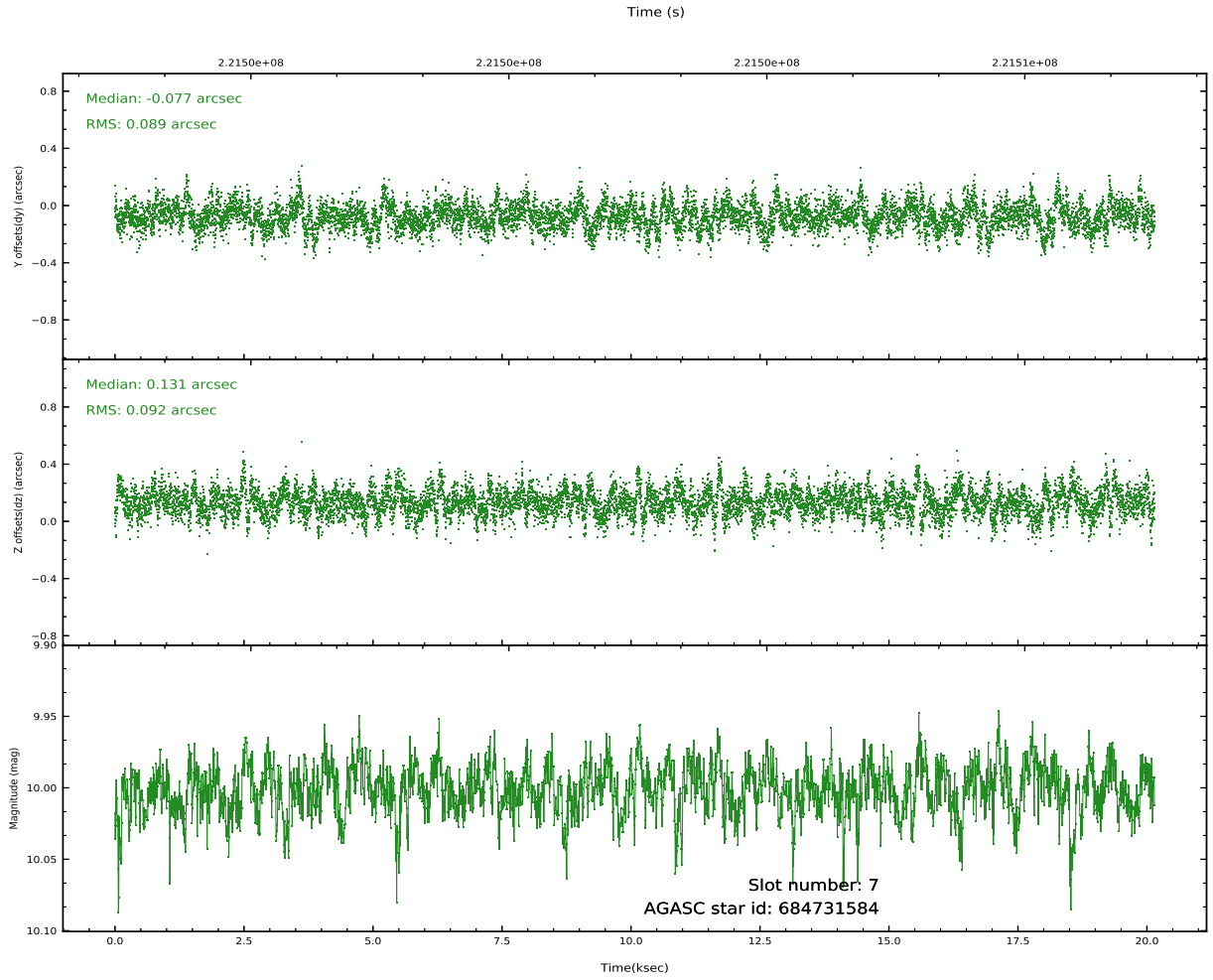
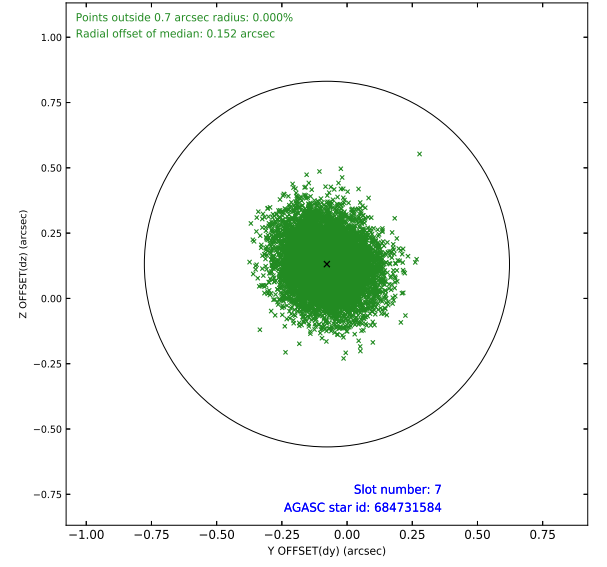
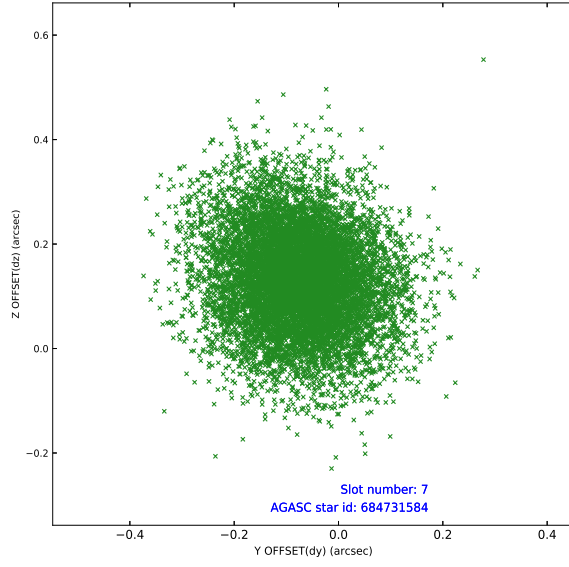
### 2.4.3 Slot 5



## 2.4.4 Slot 6

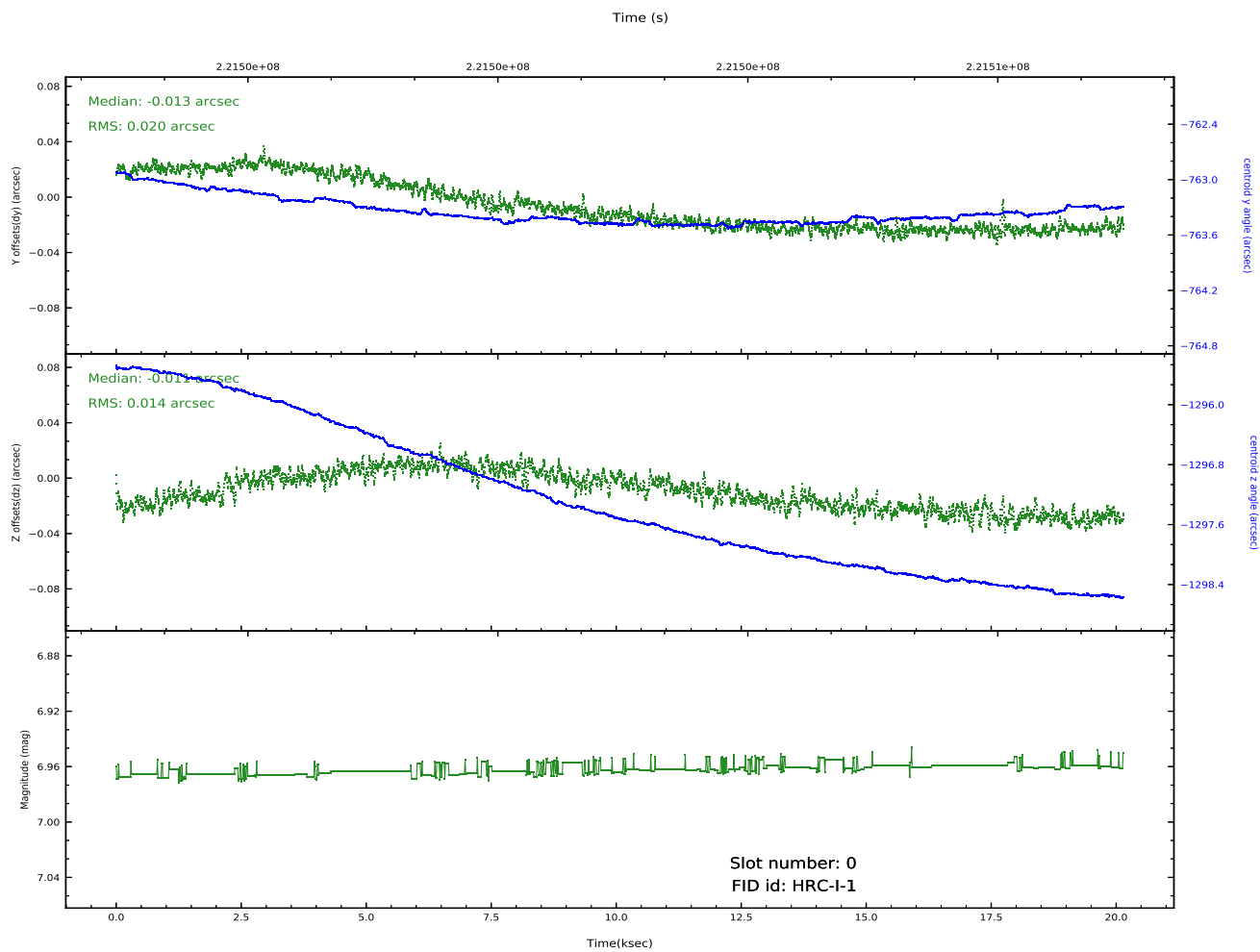
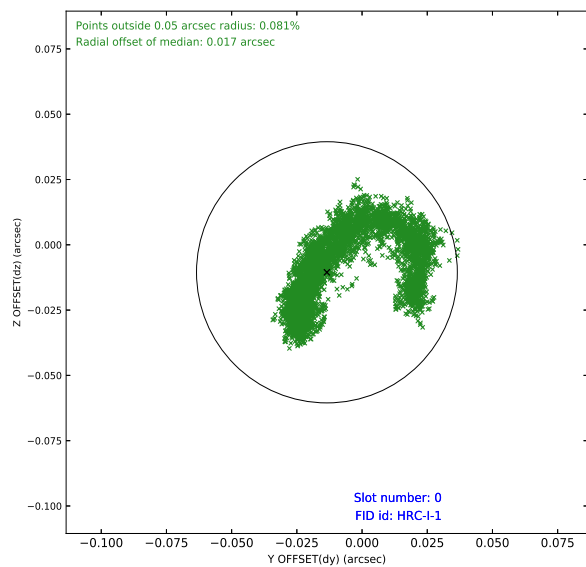
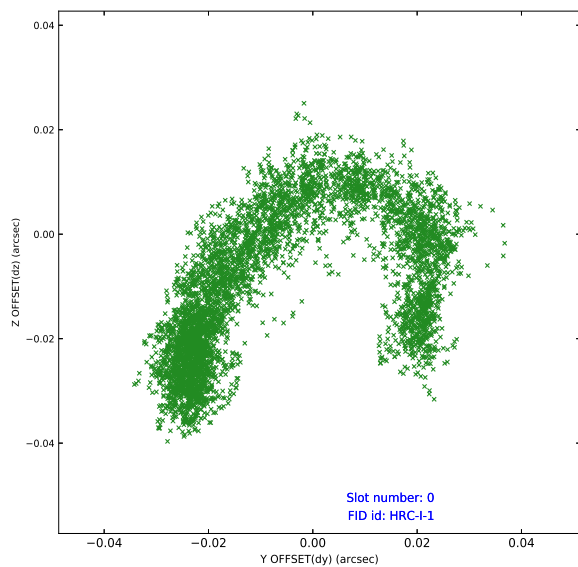


## 2.4.5 Slot 7

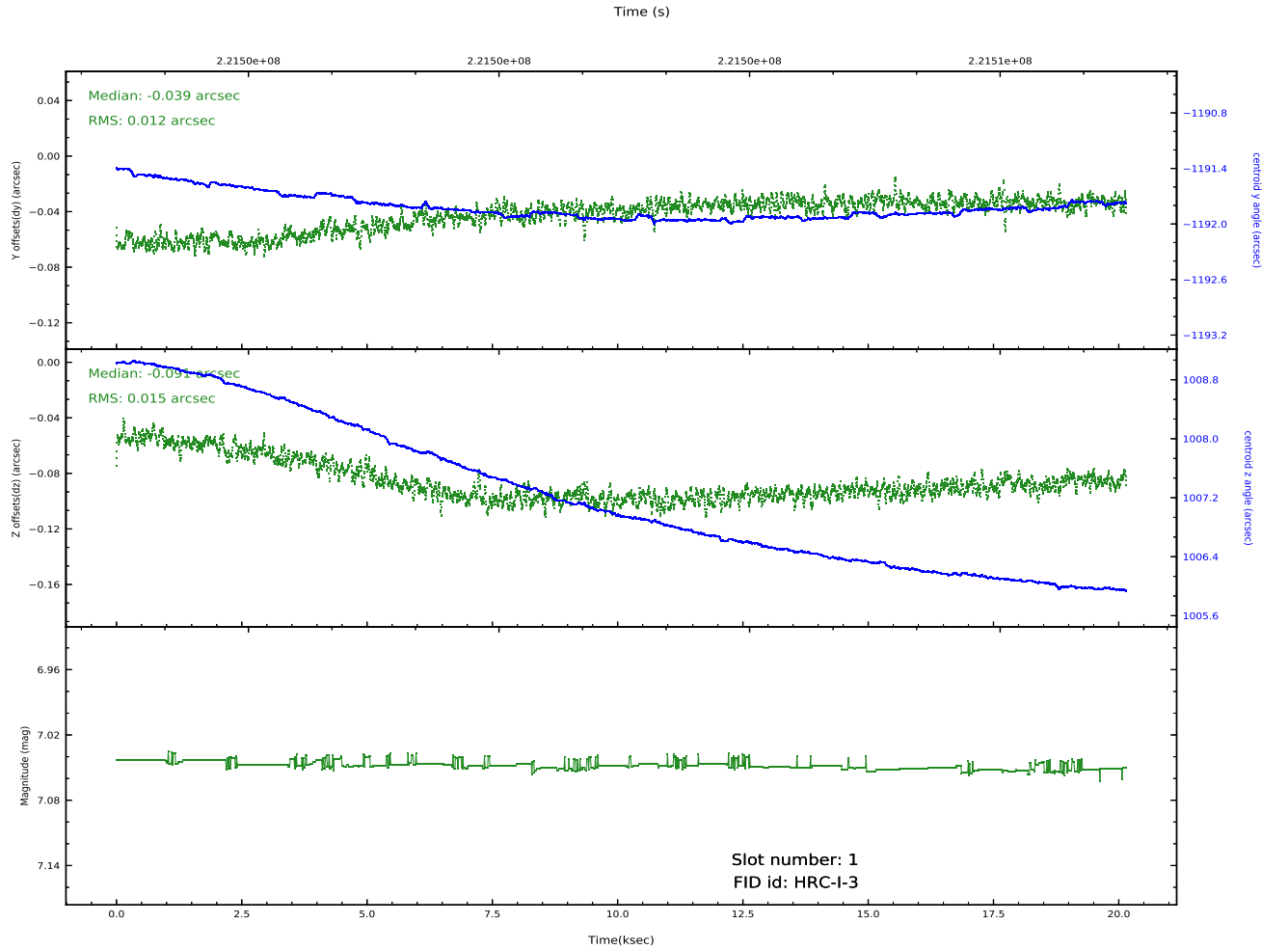
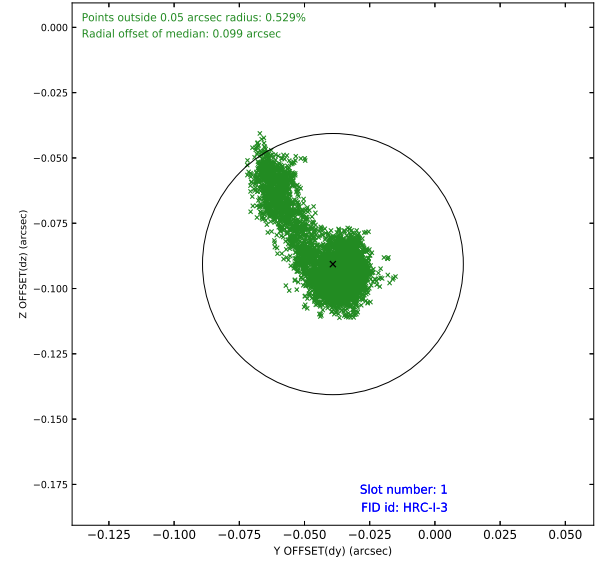
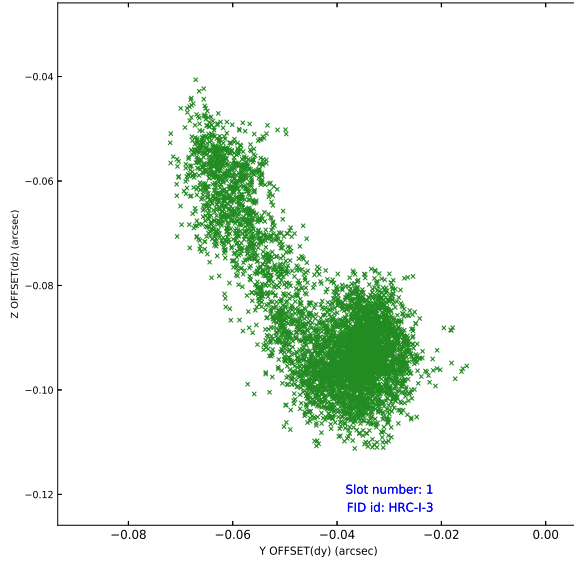


## 2.5 FID Slots

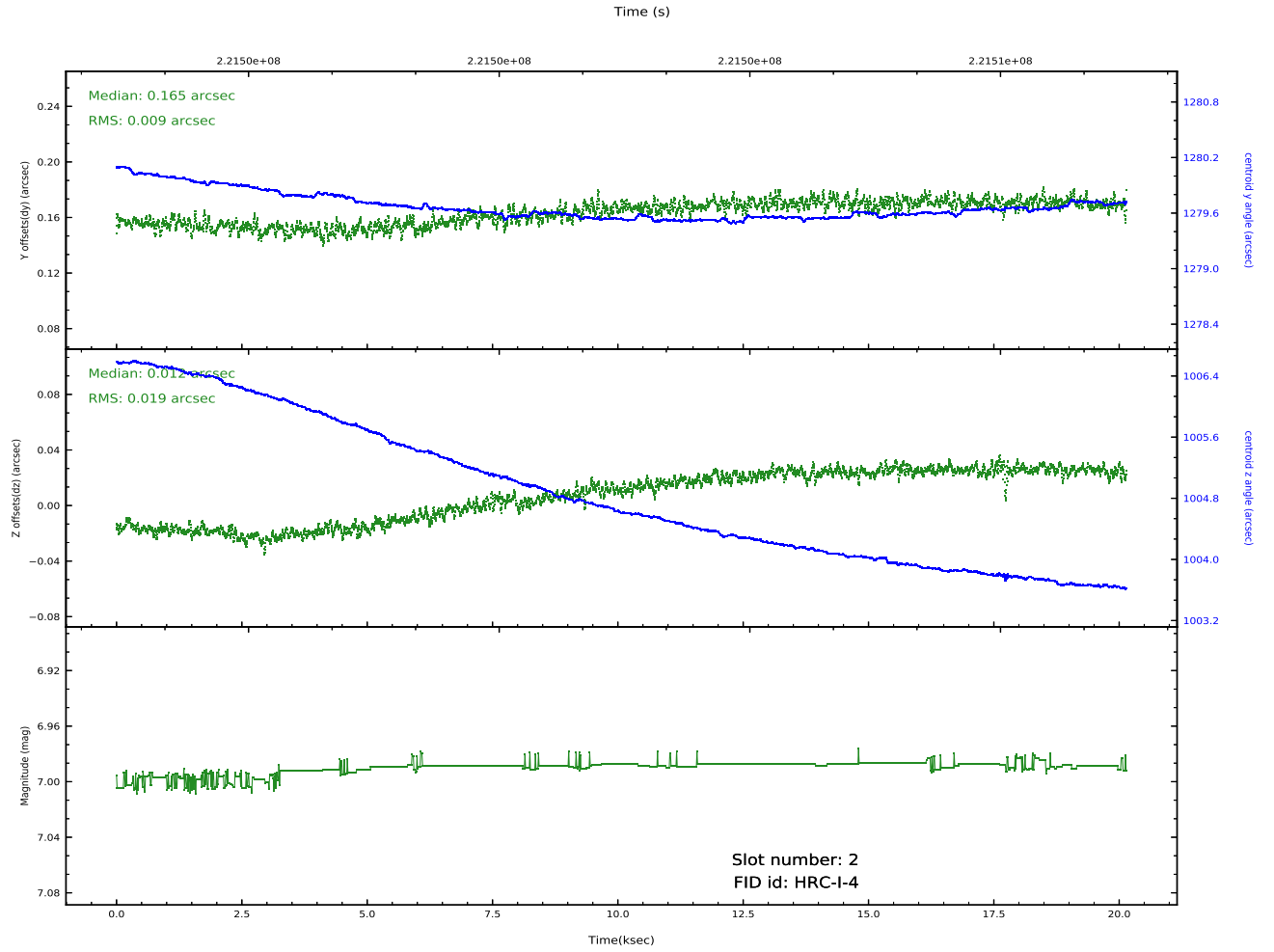
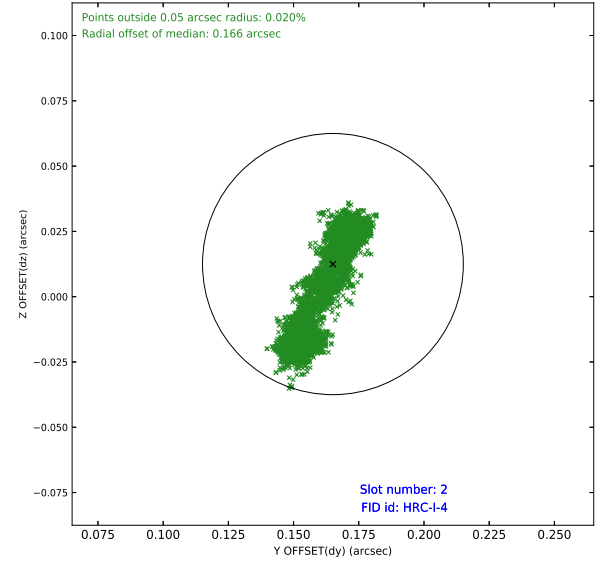
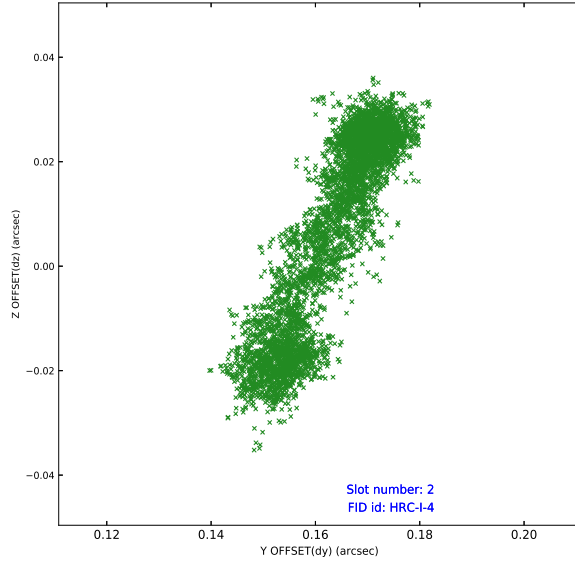
### 2.5.1 Slot 0



## 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)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.14868

## A.2 Comments

Joint Proposal: HST