

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5981 - L2 Version 5  
Chandra X-Ray Center

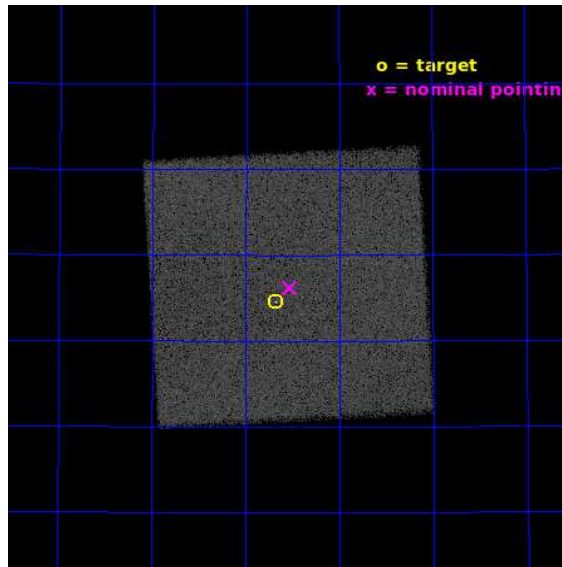
L2 Processing Date : Oct 10 2020

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# 1 Front

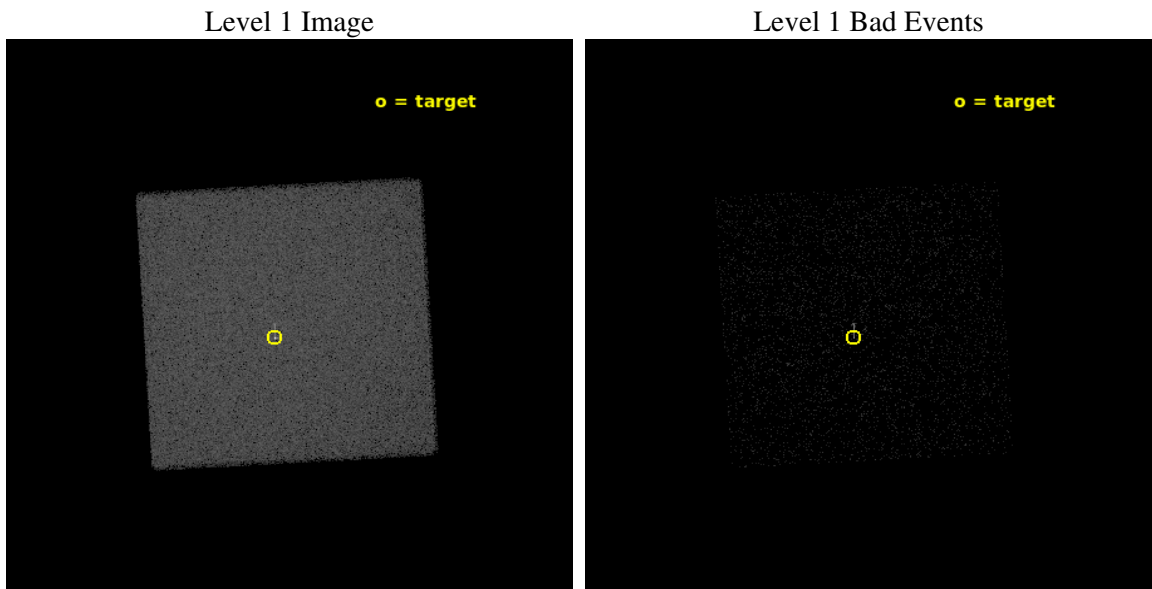
seq_num	290473	Sequence number
obs_id	5981	Observation id
title	AO6 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.13205165542	Nominal RA [deg]
dec_nom	45.7701792312	Nominal Dec [deg]
roll_nom	221.73502865891	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1180.0313042998	[s]
livetime	550.63421422511	Ontime multiplied by DTCOR
l2events	167651	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	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	1180.0313042998	[s]
caldbver	4.9.2	&#160	l1events	278069	Number of level 1 events
date	2020-10-10T13:56:41	Date and time of file creation			
revision	5	Processing version of data			

### 2.1.3 Events

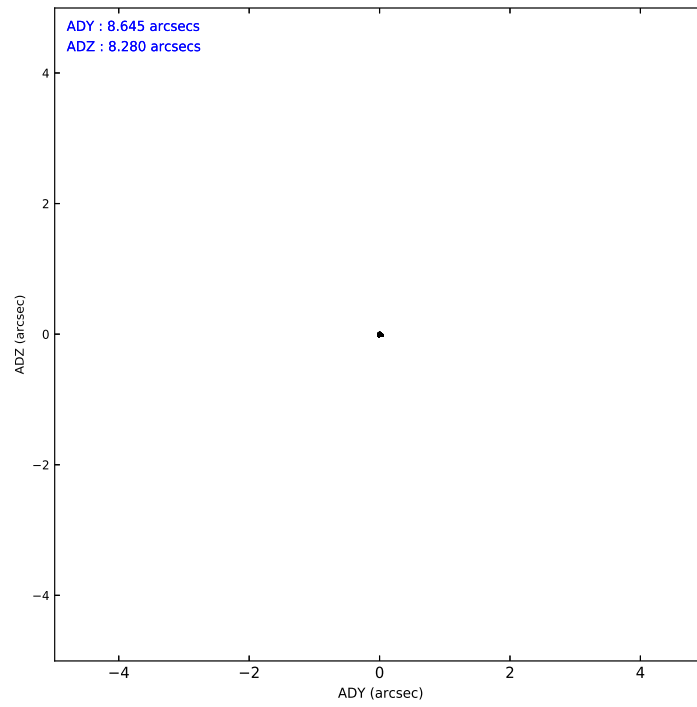
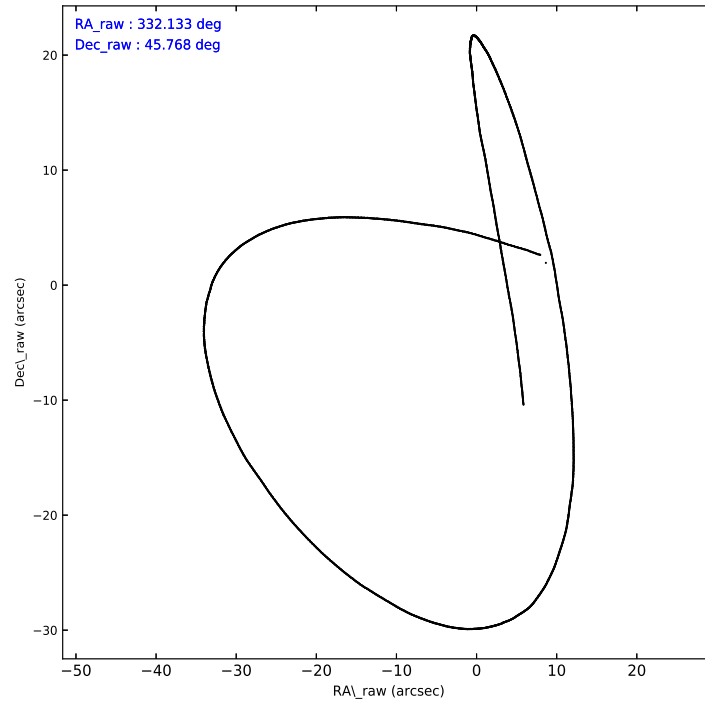
#### Level 1 Events

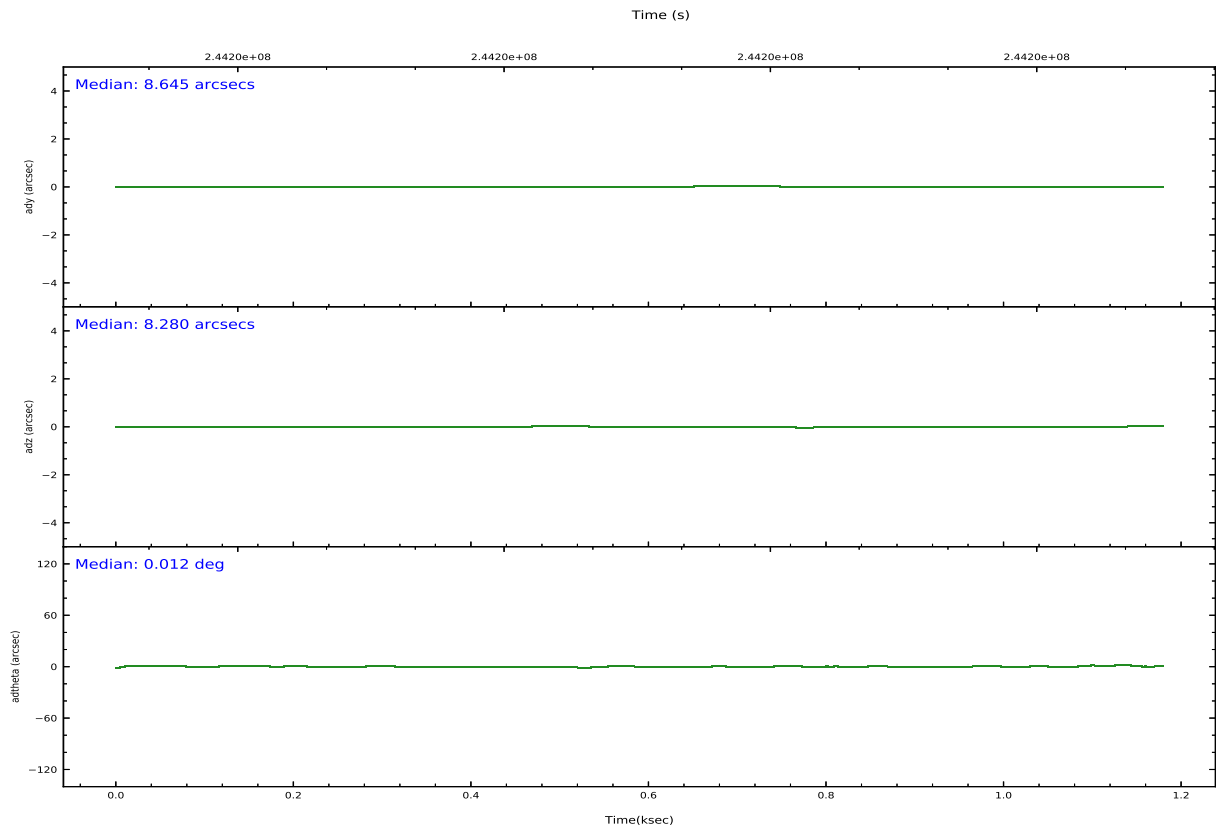
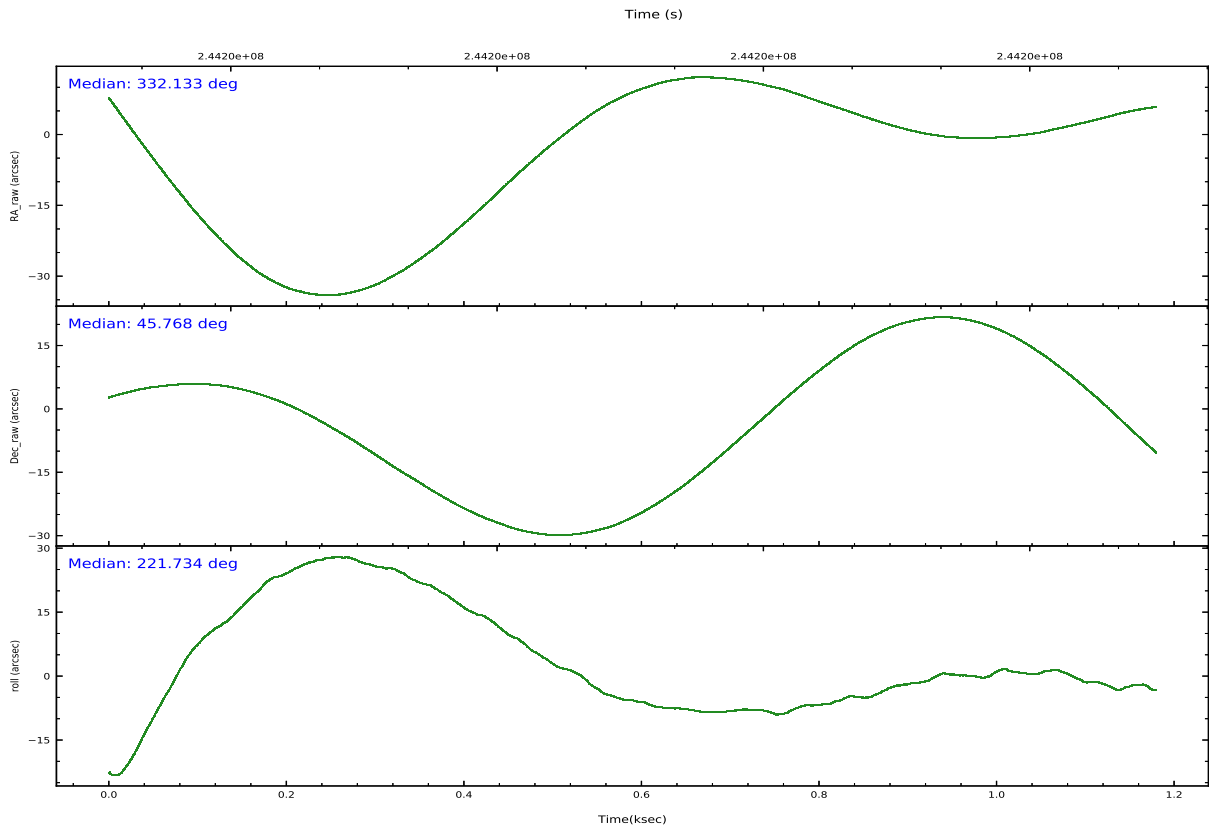
	<b>segment 0</b>
level 1 events	278069
rejected events	60485
rejected %	<b>21%</b>

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar version number	8	8
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.143818	332.13205165542			
[deg] Pointing Dec	45.791706	45.7701792312			
[deg] Pointing Roll	221.833031	221.73502865891			
[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)	244202242.184000	244201866.45972			
Observation start date	2005-09-27T09:56:18	2005-09-27T09:51:06			
[s] Observation end time (MET)	244203242.184000	244203376.28479			
Observation end date	2005-09-27T10:12:58	2005-09-27T10:16:16			

## 2.3 Aspect



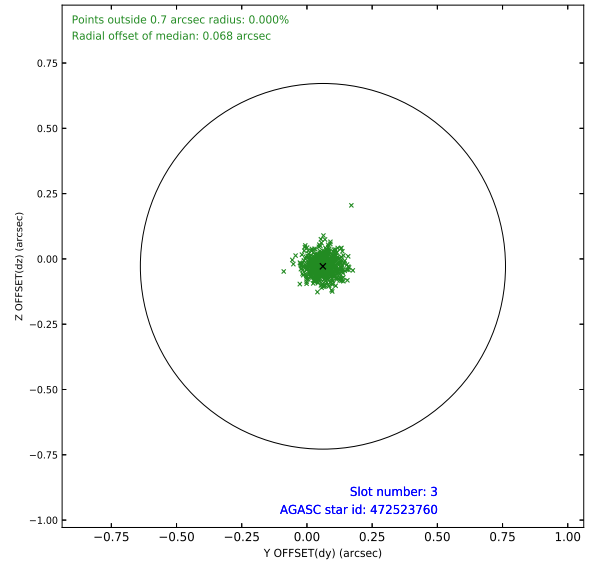
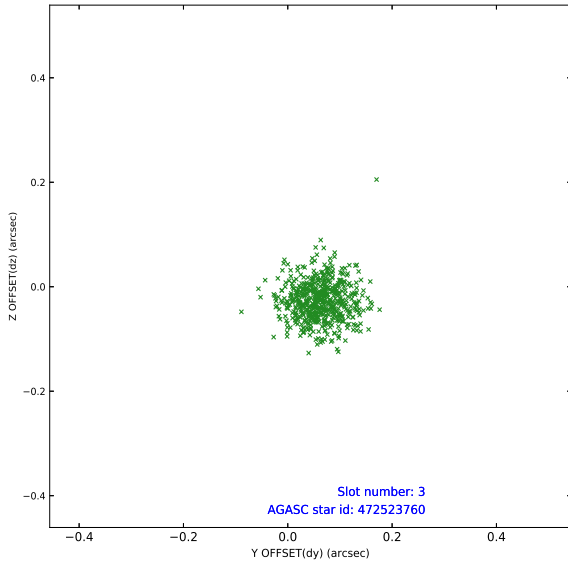


### Slot Statistics

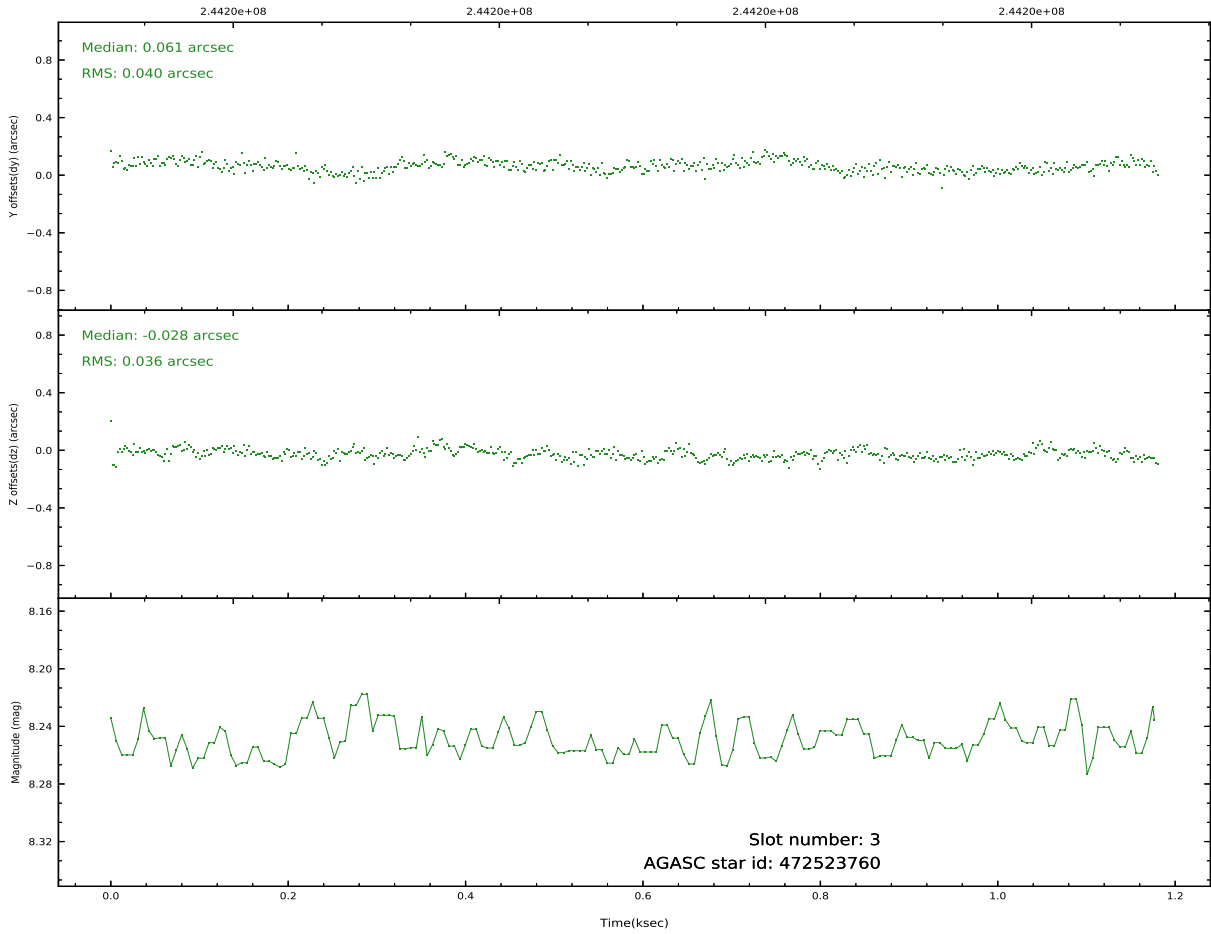
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		HRC-I-1	6.99	288	1.000	-0.065	-0.016	0.005	0.009	0.000000	0.000000	-764.42	-1296
1	FID		HRC-I-2	7.02	288	1.000	0.146	-0.101	0.007	0.011	0.000000	0.000000	845.77	-1302
2	FID		HRC-I-4	7.01	288	1.000	0.036	0.025	0.005	0.009	0.000000	0.000000	1281.54	1001
3	GUIDE	used	472523760	8.25	577	1.000	0.061	-0.028	0.057	0.092	331.645363	45.403260	1869.84	202
4	GUIDE	used	472533912	9.16	577	1.000	-0.011	0.045	0.122	0.204	331.791136	46.368695	-729.83	-2129
5	GUIDE	used	472655152	9.43	577	1.000	0.052	0.002	0.107	0.193	332.504239	45.862991	-846.06	410
6	GUIDE	used	472525528	6.66	577	1.000	-0.117	0.013	0.067	0.114	331.551102	45.248694	2418.65	455
7	GUIDE	used	472659832	9.46	575	1.000	0.010	-0.024	0.080	0.138	332.780399	46.098139	-1918.94	238

## 2.4 Star Slots

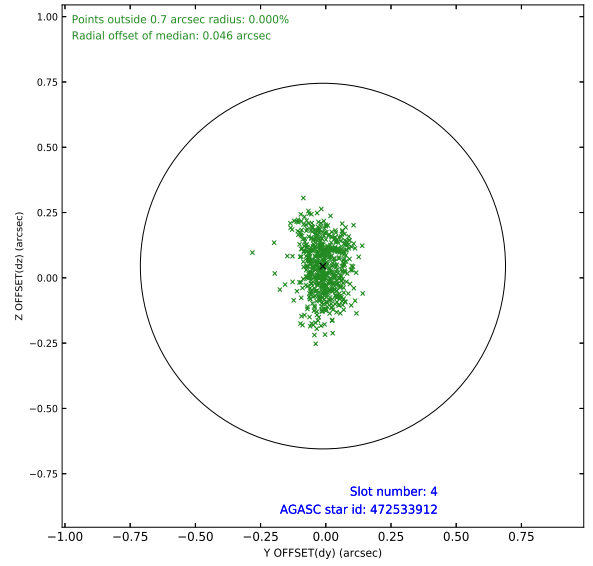
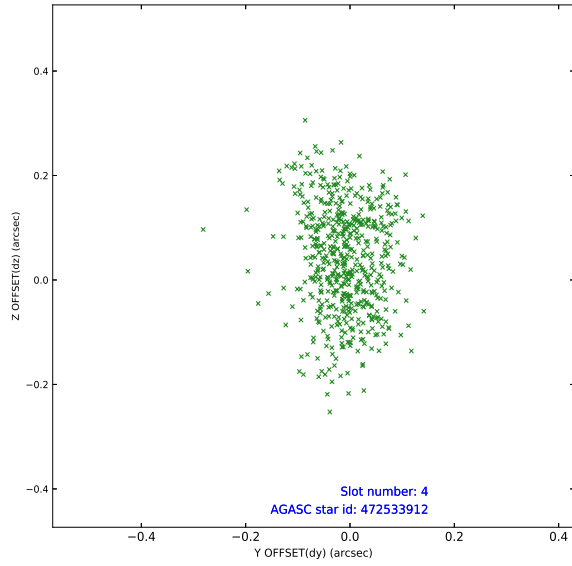
### 2.4.1 Slot 3



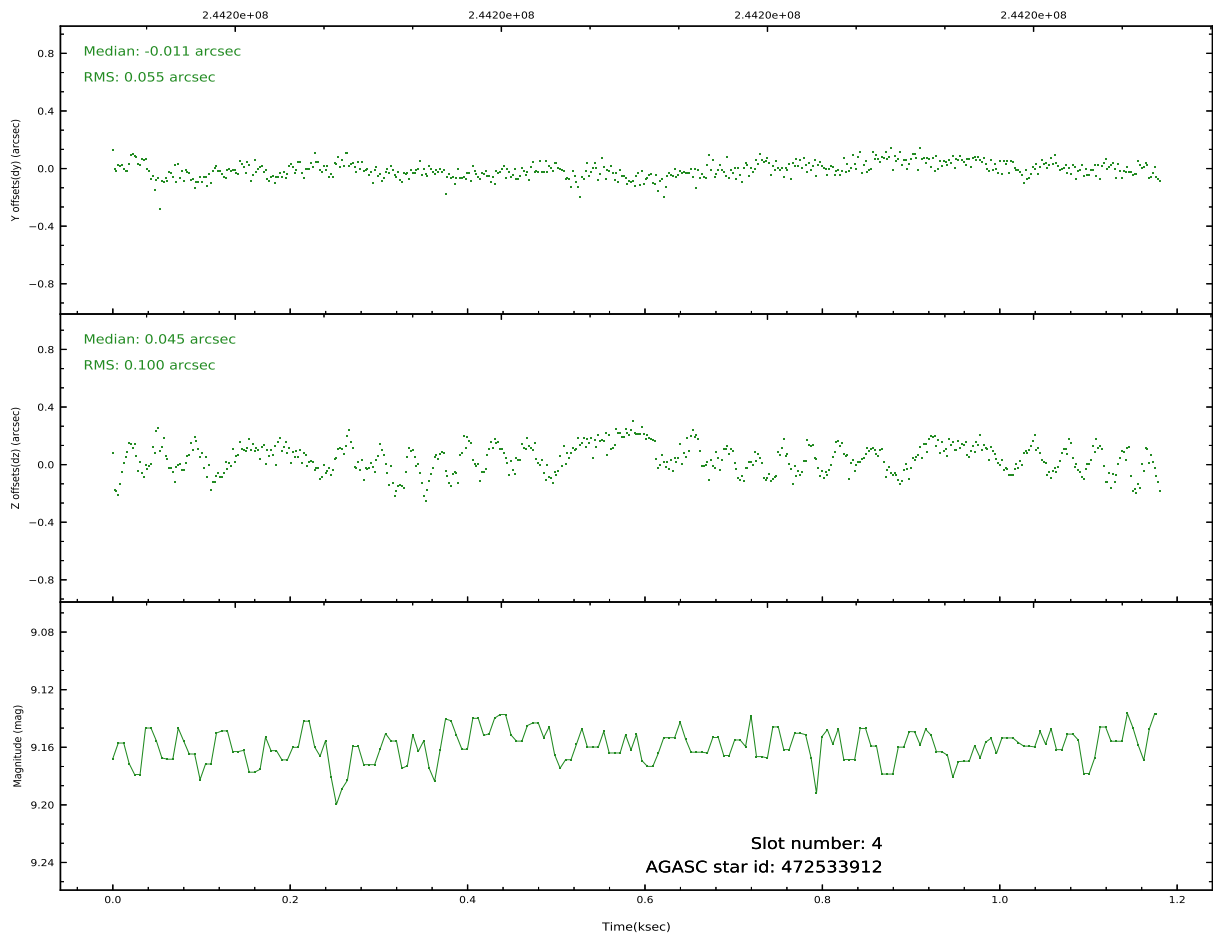
Time (s)



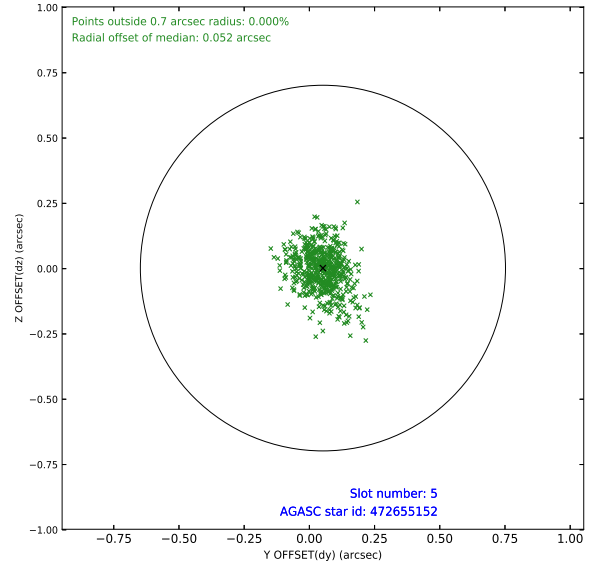
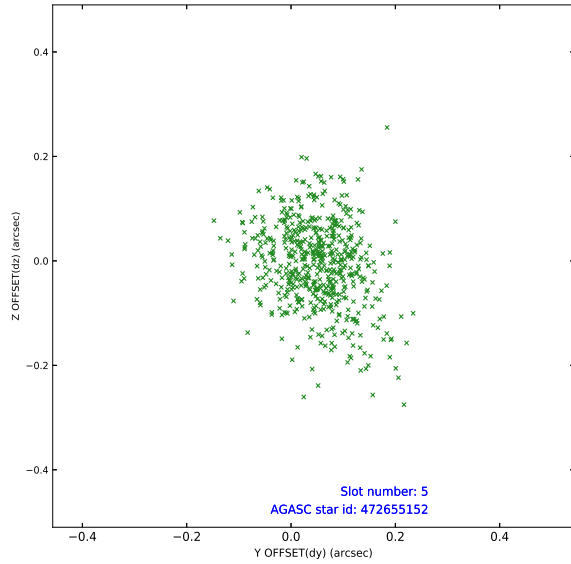
## 2.4.2 Slot 4



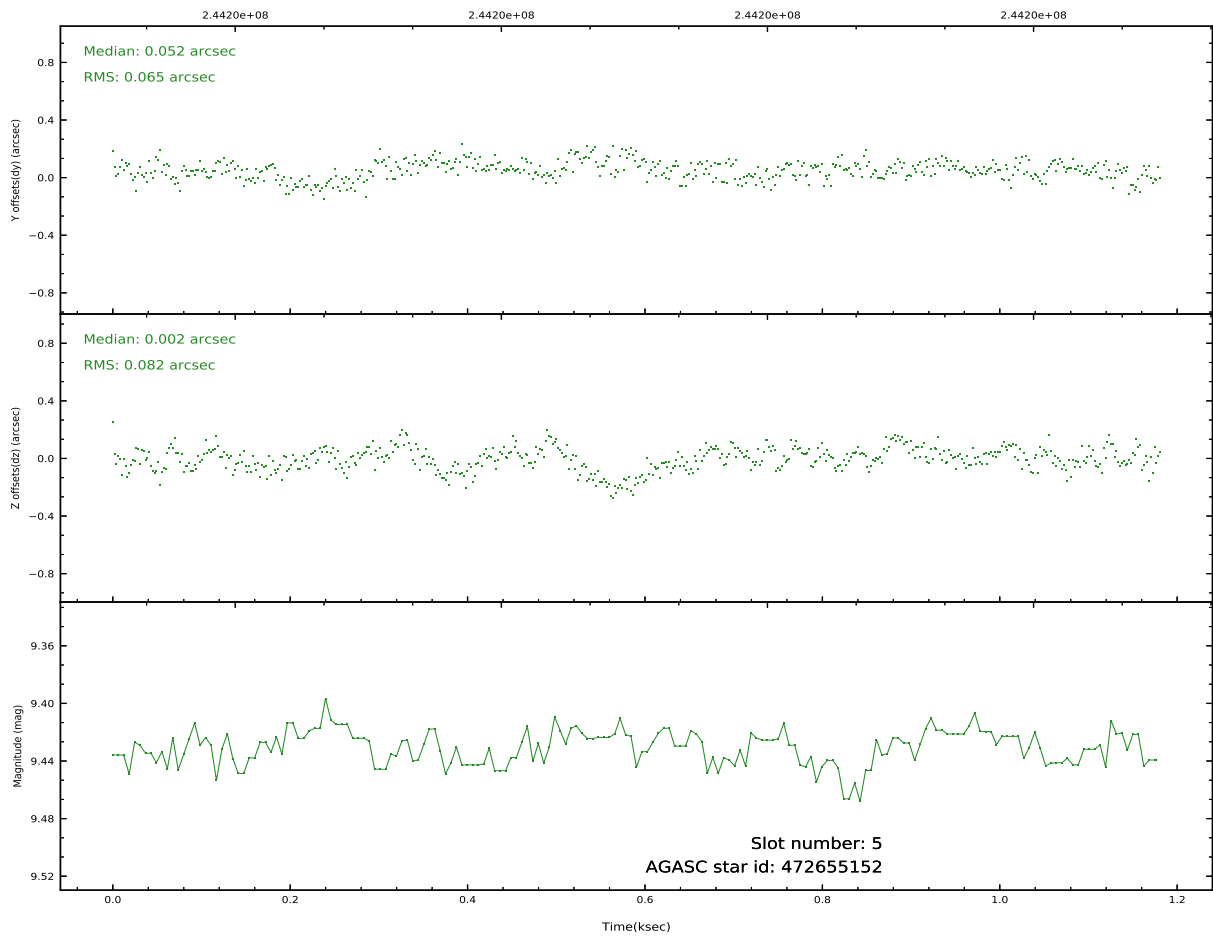
Time (s)



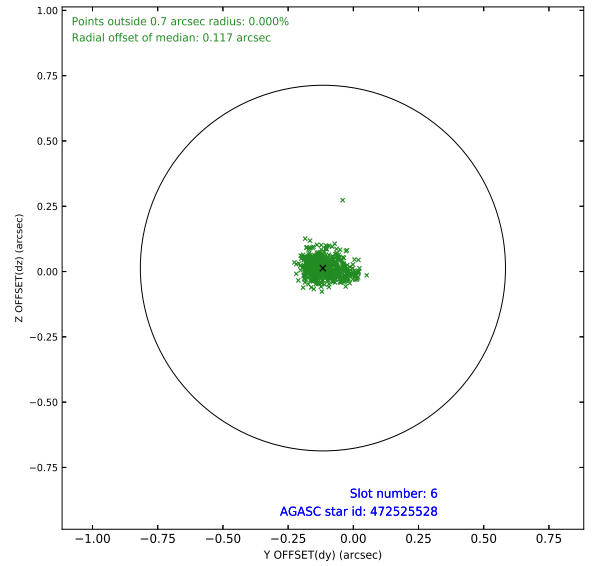
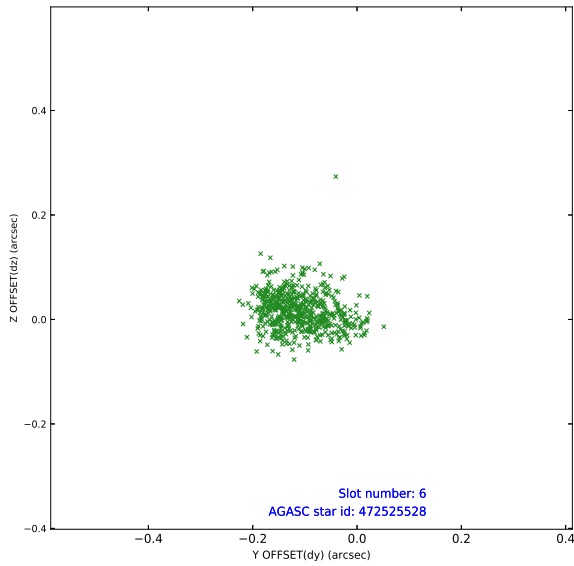
### 2.4.3 Slot 5



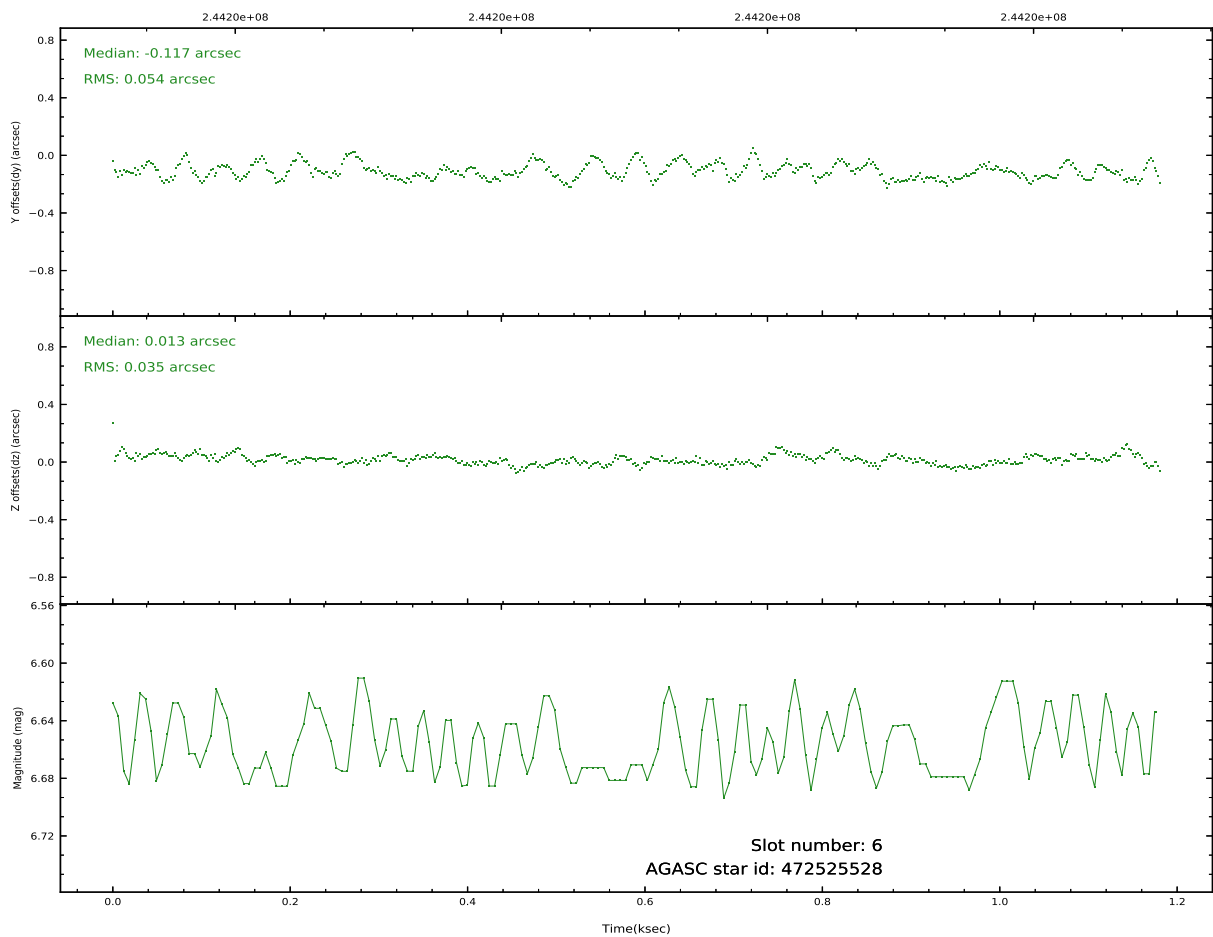
Time (s)



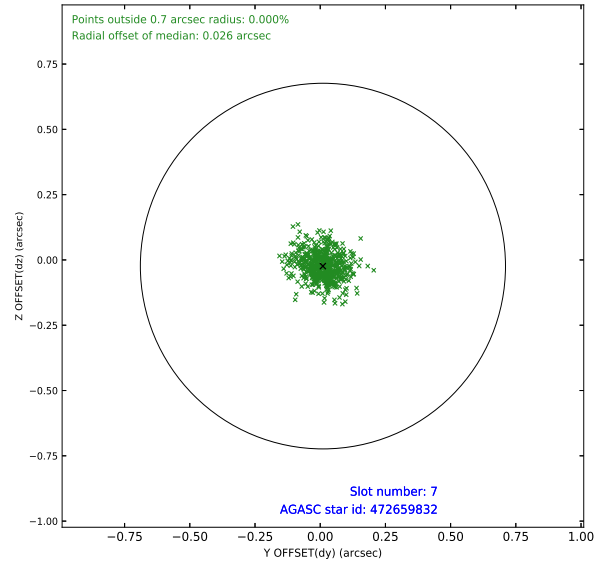
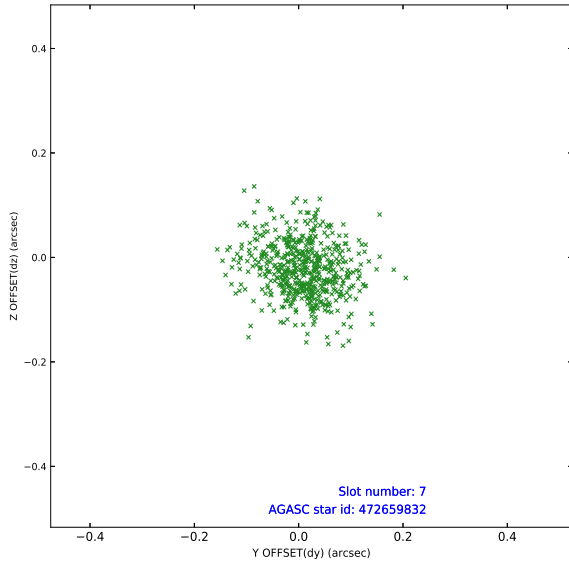
## 2.4.4 Slot 6



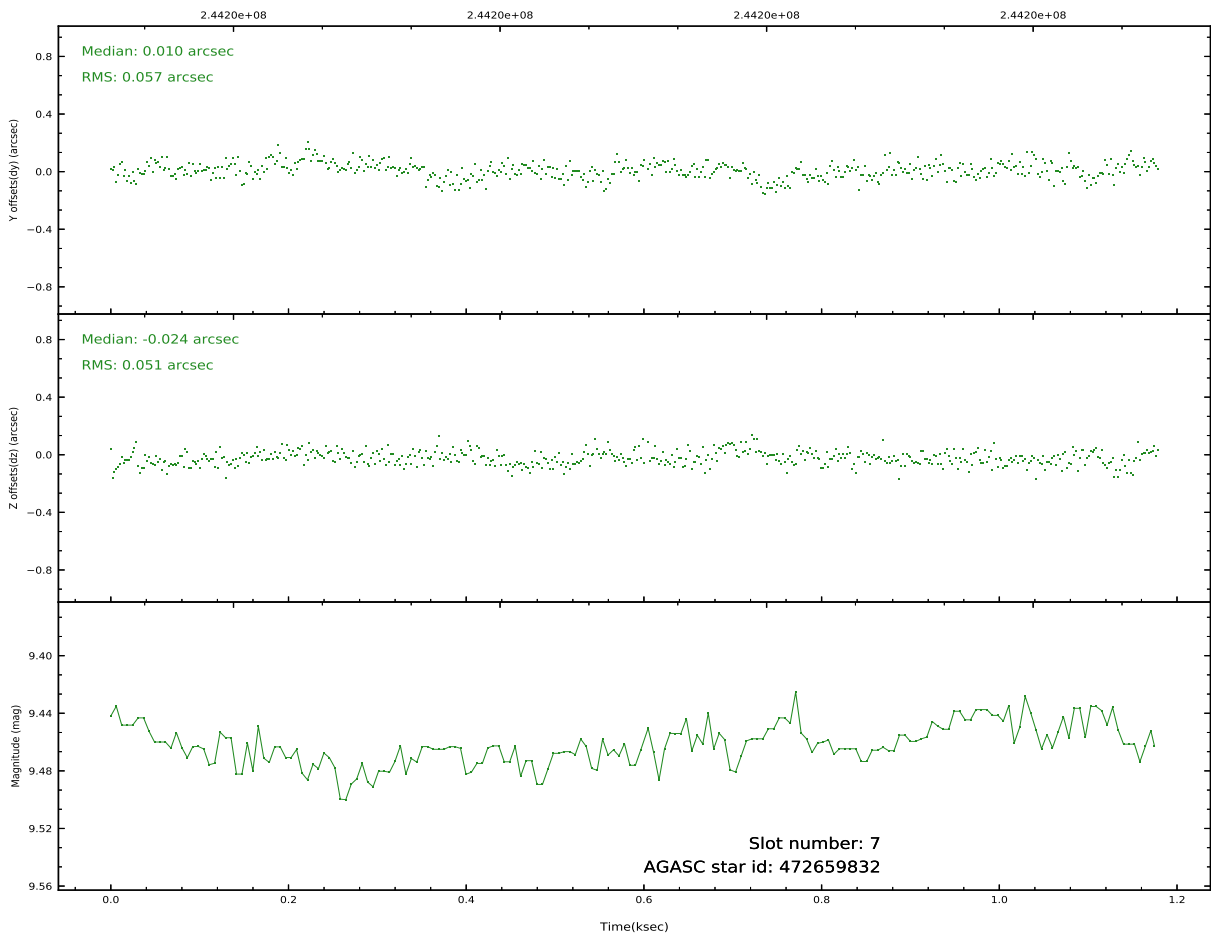
Time (s)



## 2.4.5 Slot 7

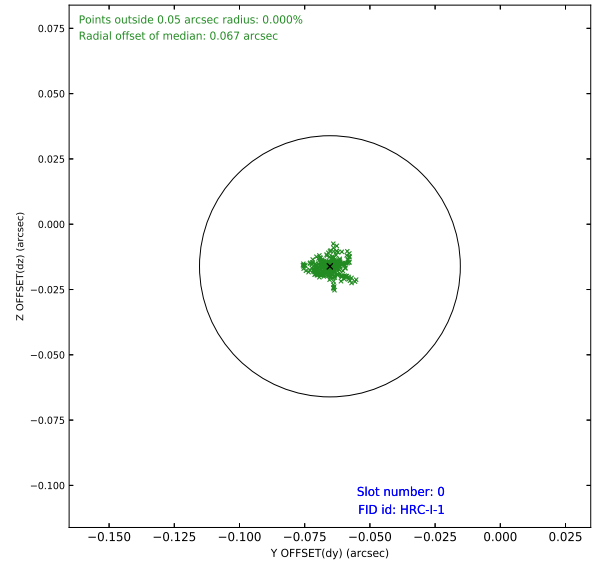
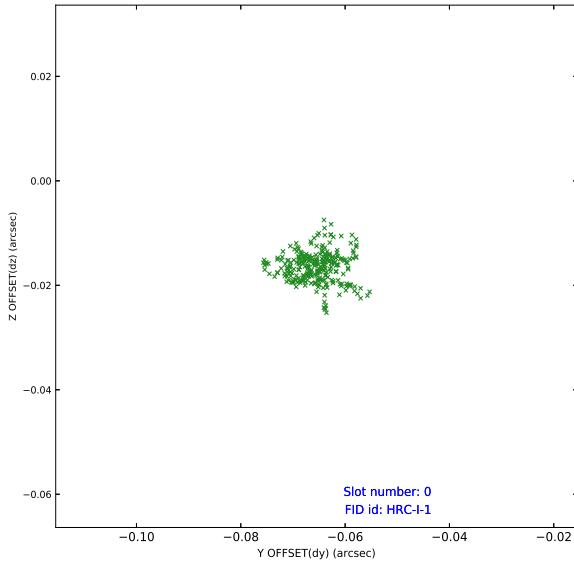


Time (s)

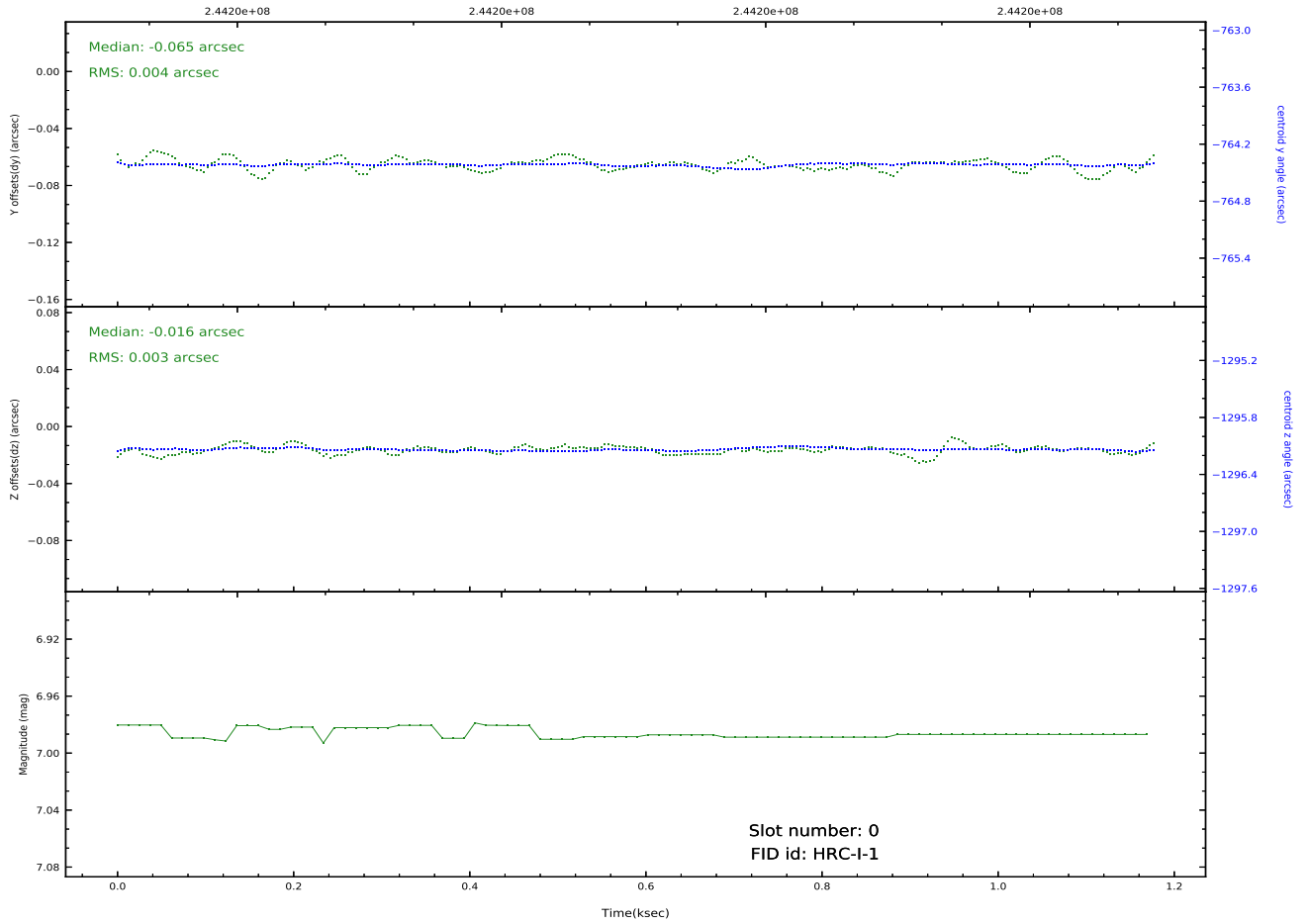


## 2.5 FID Slots

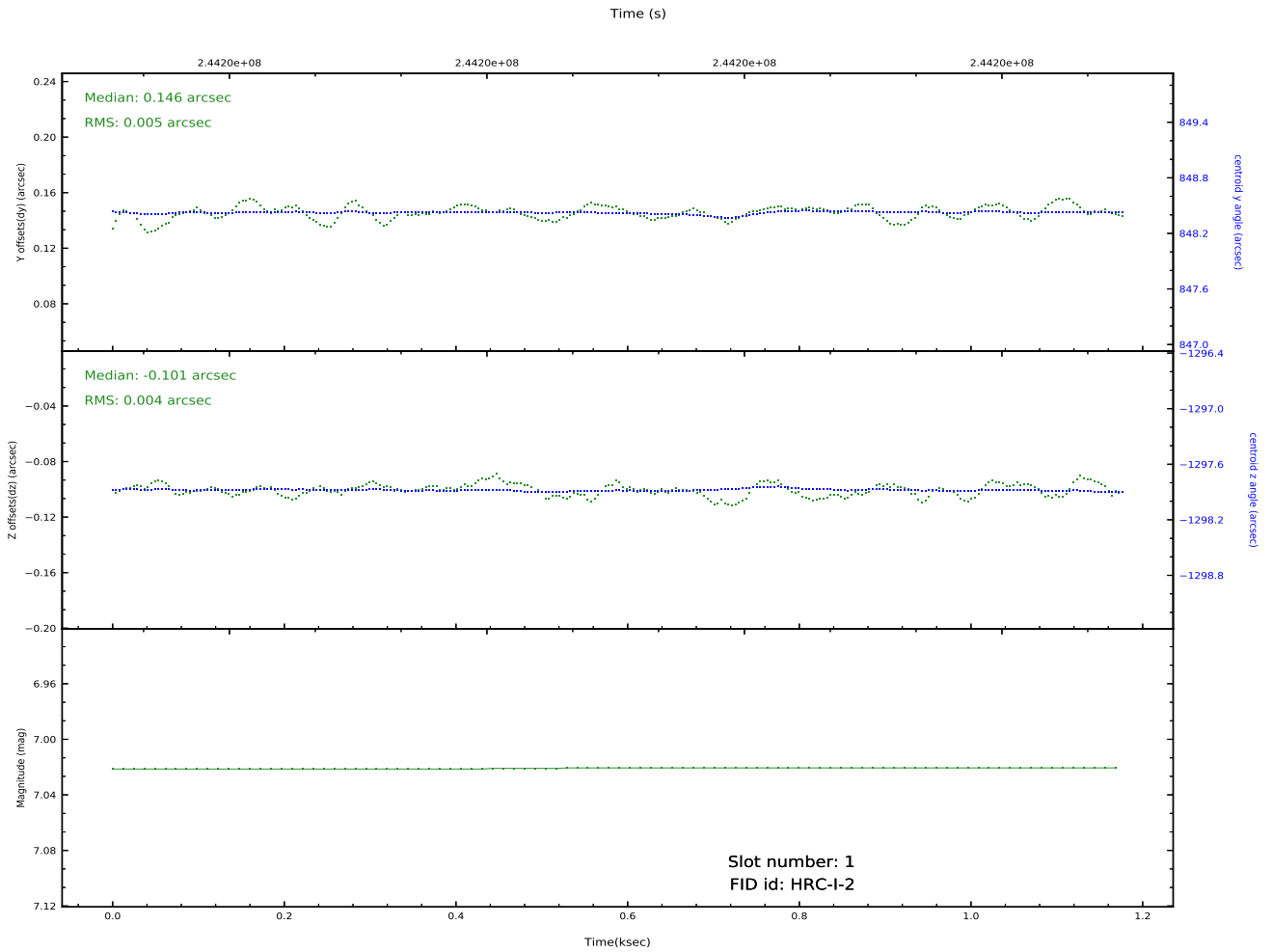
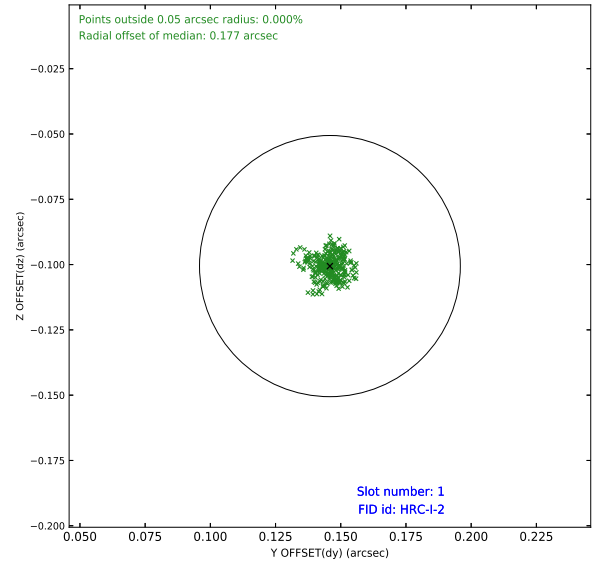
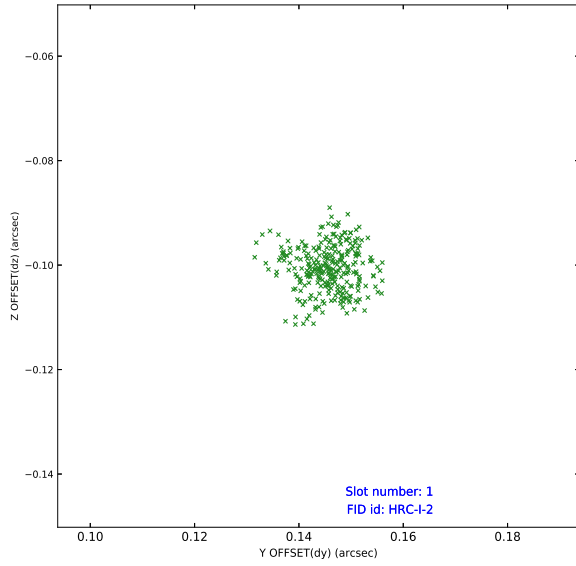
### 2.5.1 Slot 0



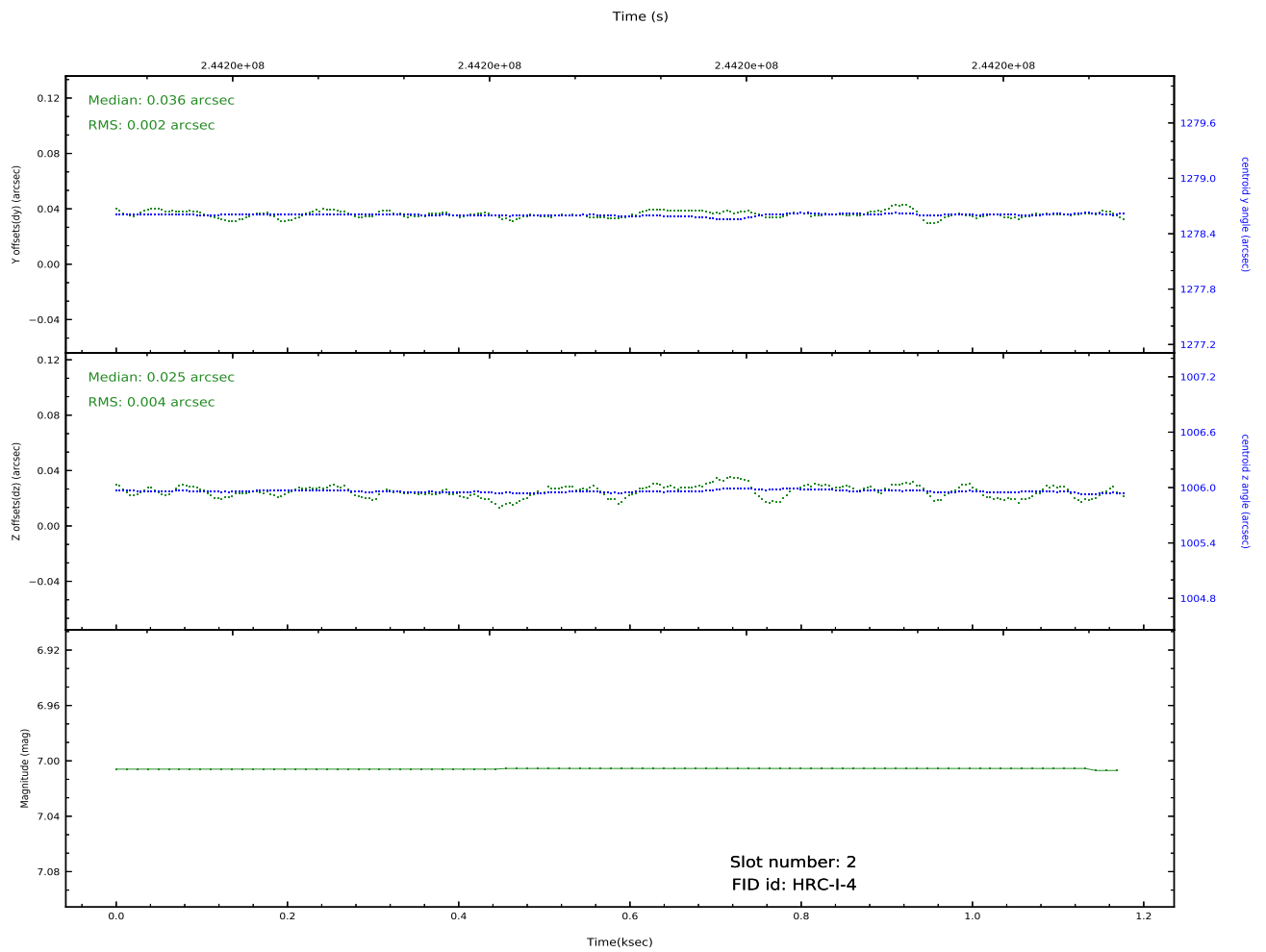
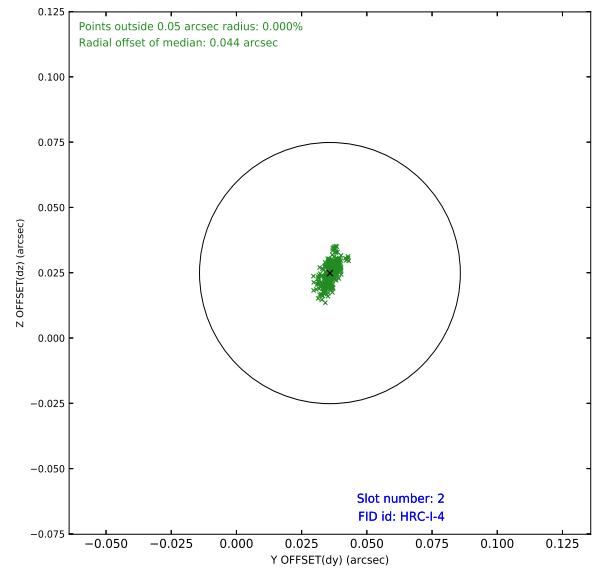
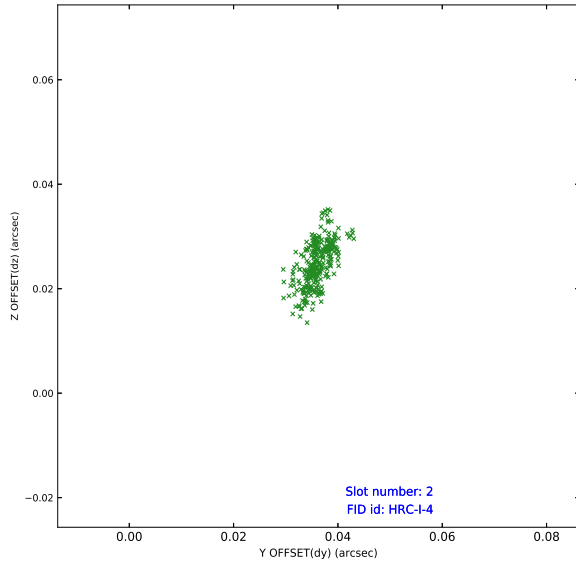
Time (s)



## 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)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.180031

## A.2 Comments