

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5997 - L2 Version 5  
Chandra X-Ray Center

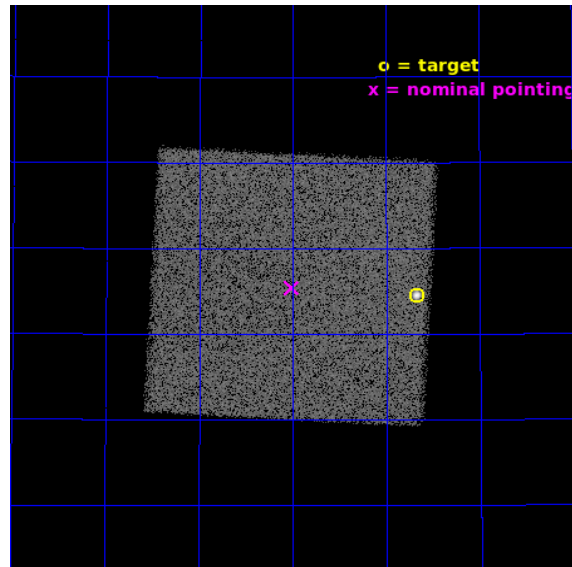
L2 Processing Date : Oct 10 2020

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# 1 Front

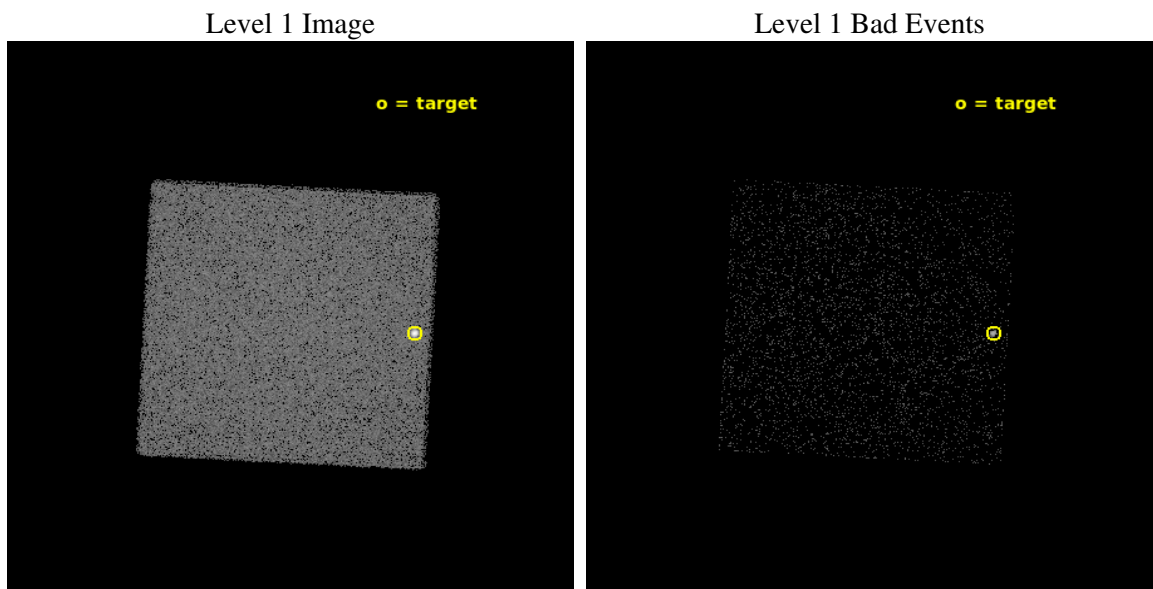
seq_num	290489	Sequence number
obs_id	5997	Observation id
title	AO6 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.50272956066	Nominal RA [deg]
dec_nom	45.756990780997	Nominal Dec [deg]
roll_nom	228.01666750551	Nominal Roll [deg]
revision	5	Processing version of data
ontime	1169.525053829	[s]
livetime	1157.5206311198	Ontime multiplied by DTCOR
l2events	91751	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	988.751000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	1169.525053829	[s]
caldbver	4.9.2	&#160	l1events	170142	Number of level 1 events
date	2020-10-11T01:05:24	Date and time of file creation			
revision	5	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

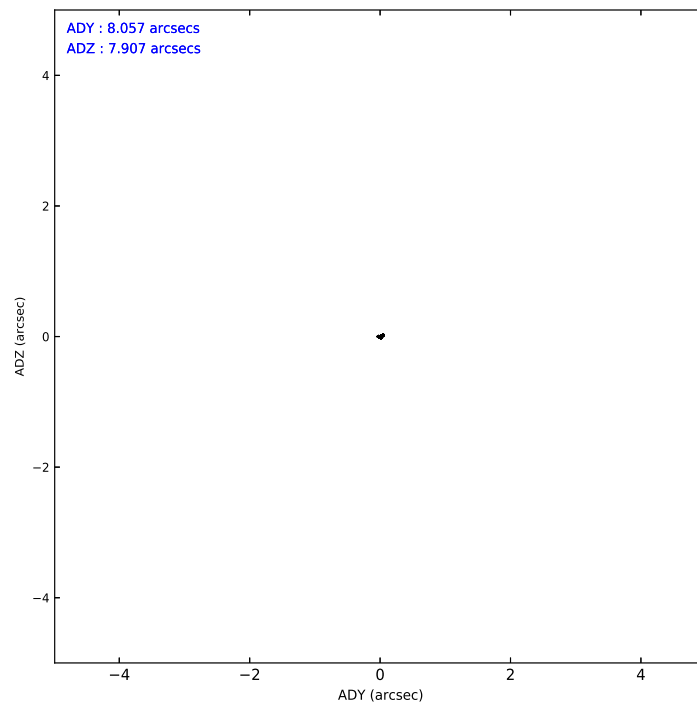
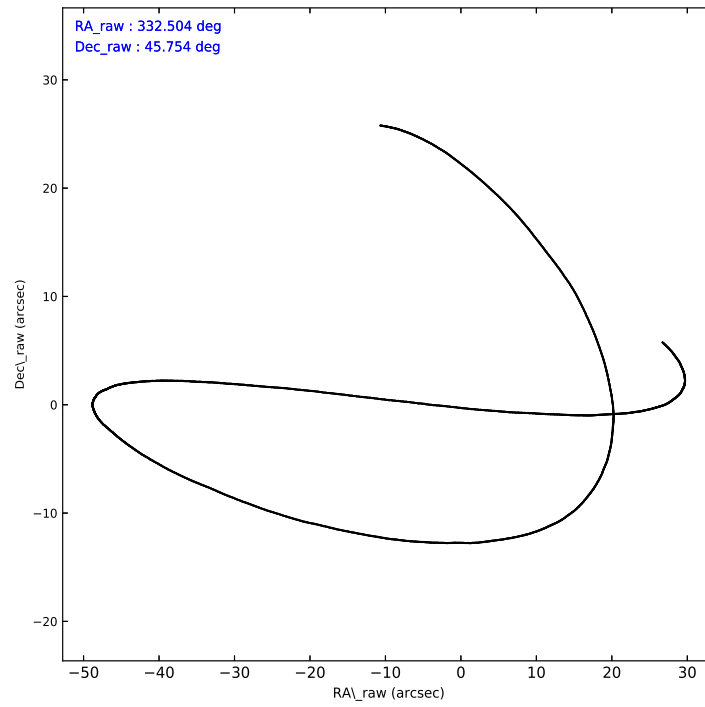
	<b>segment 0</b>
level 1 events	170142
rejected events	46071
rejected %	27%

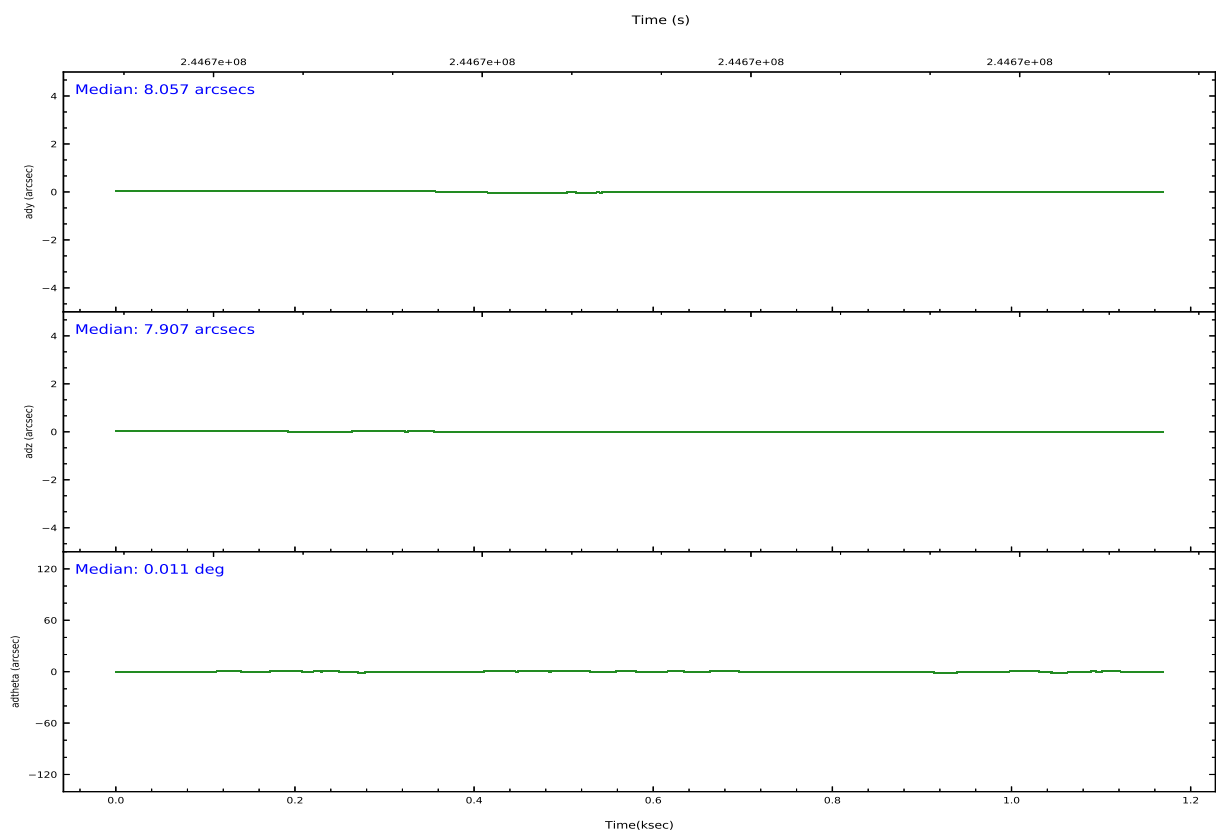
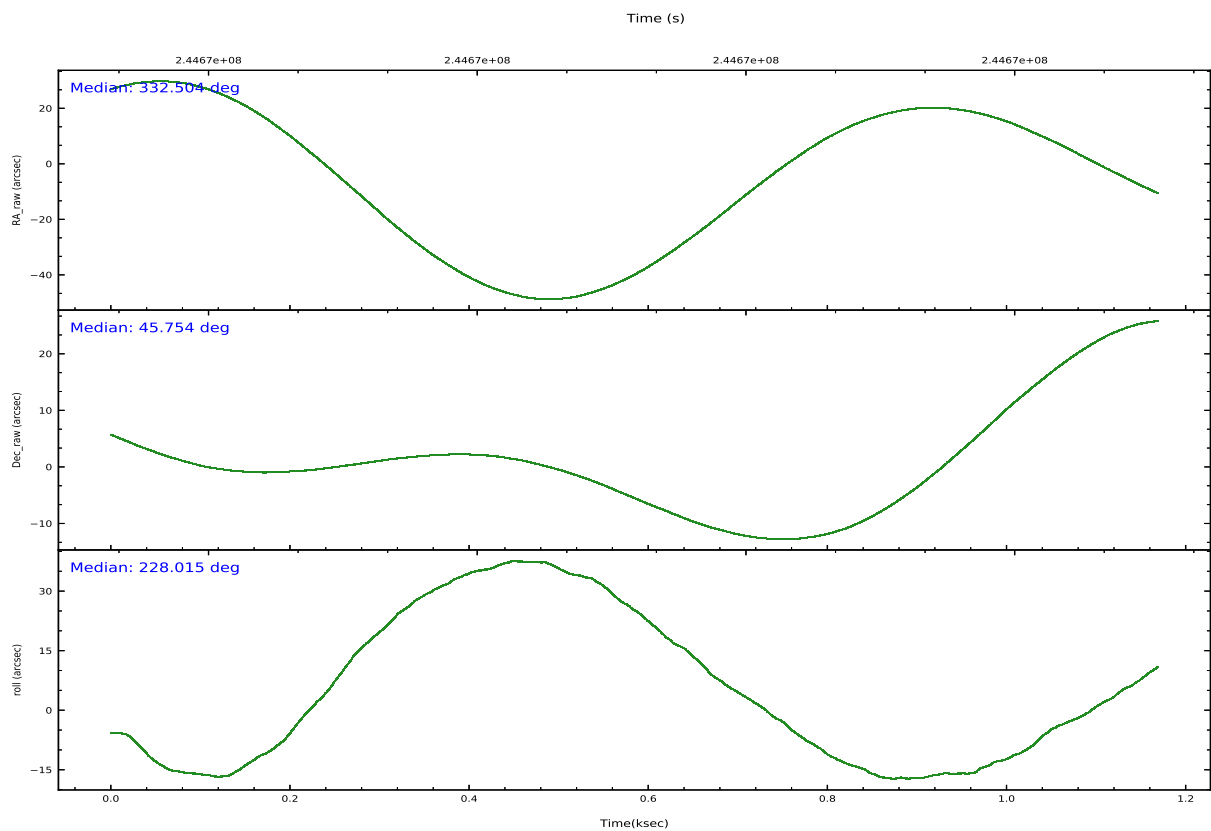
## 2.2 Compared Parameters

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	332.509012	332.50272956066
[deg] Pointing Dec	45.780496	45.756990780997
[deg] Pointing Roll	228.121797	228.01666750551
[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)	244669971.184000	244669595.50624
Observation start date	2005-10-02T19:51:47	2005-10-02T19:46:35
[s] Observation end time (MET)	244670960.184000	244671155.04381
Observation end date	2005-10-02T20:08:16	2005-10-02T20:12:35

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

## 2.3 Aspect





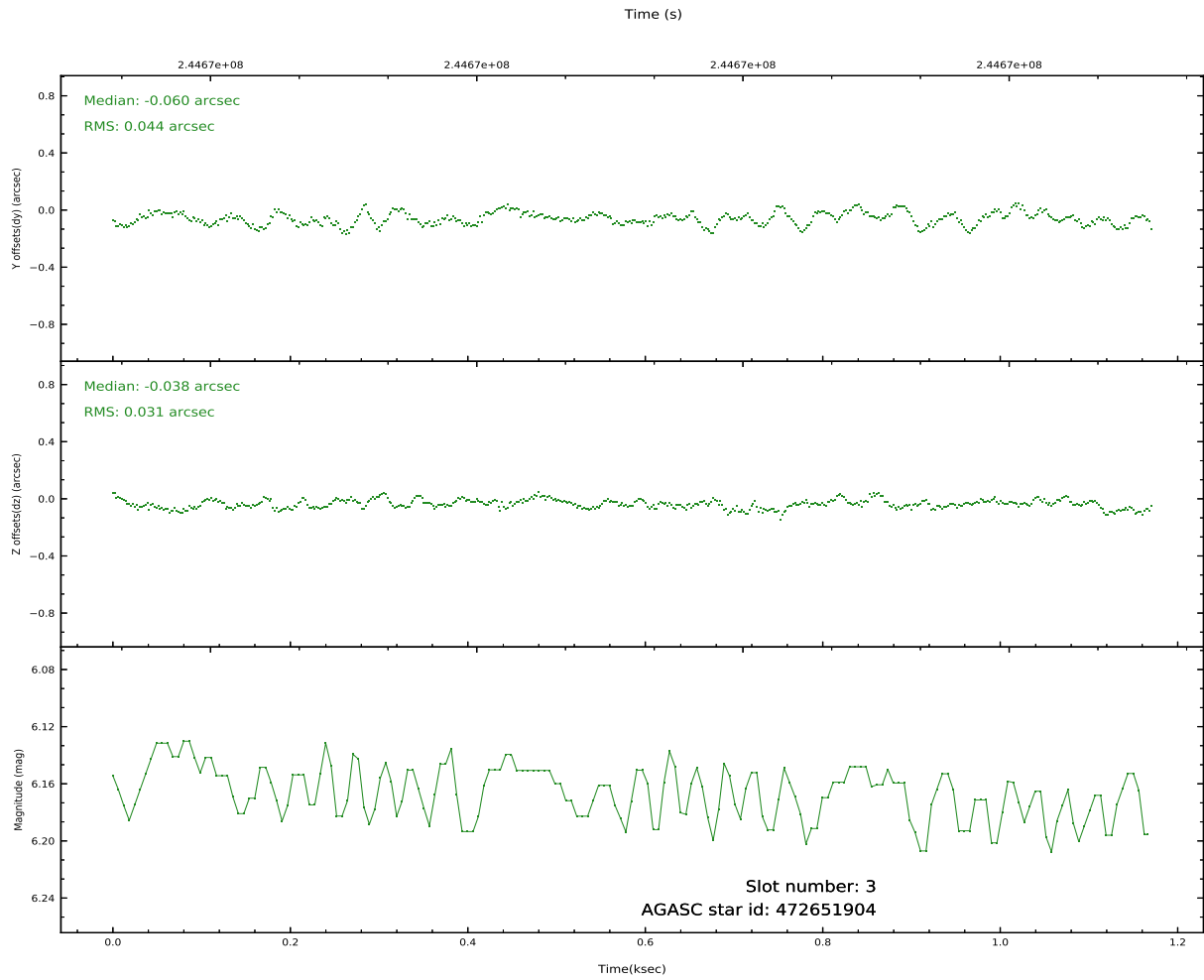
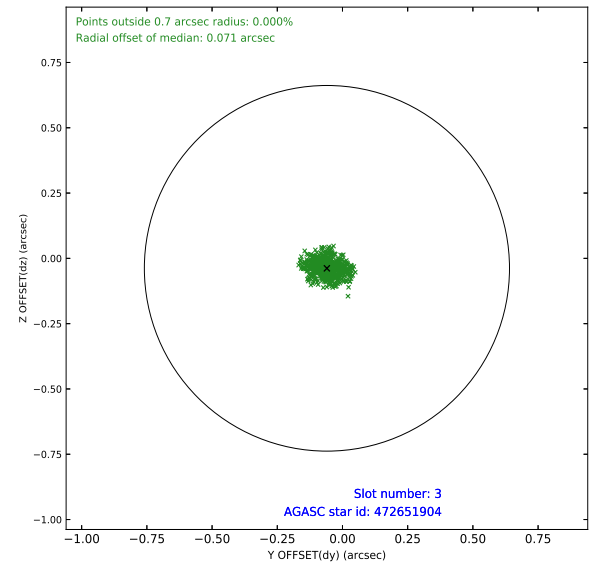
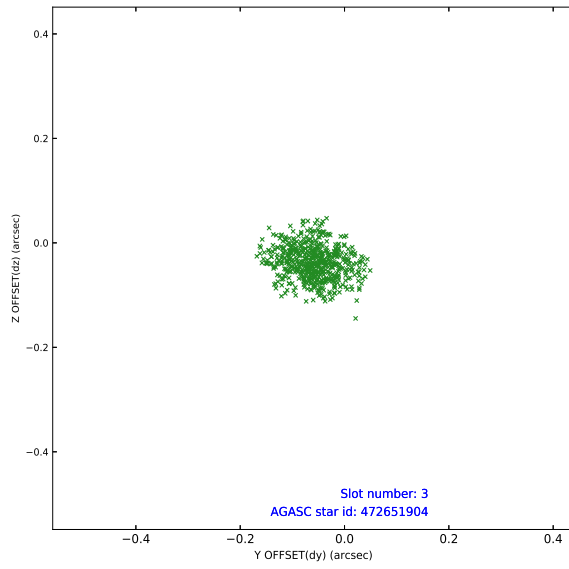
Slot Statistics

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	6.99	286	1.000	0.019	-0.025	0.006	0.009	0.000000	0.000000	-763.71	-1295
1	FID		HRC-I-3	7.08	286	1.000	-0.078	-0.051	0.007	0.011	0.000000	0.000000	-1194.87	1004
2	FID		HRC-I-4	7.02	286	1.000	0.173	-0.014	0.006	0.009	0.000000	0.000000	1275.15	1009
3	GUIDE	used	472651904	6.16	572	1.000	-0.060	-0.038	0.059	0.090	332.170077	45.742257	671.24	-546
4	GUIDE	used	472655152	9.44	572	1.000	0.114	0.020	0.138	0.236	332.504239	45.862991	-210.14	-210
5	GUIDE	used	472663080	9.42	572	1.000	0.017	-0.017	0.098	0.159	332.652741	46.473840	-2095.21	-1403
6	GUIDE	used	472665256	9.02	572	1.000	-0.014	-0.003	0.076	0.122	332.808125	46.195041	-1611.75	-447
7	GUIDE	used	472662552	9.79	571	1.000	-0.061	0.050	0.144	0.249	333.514552	45.981196	-2230.30	1376

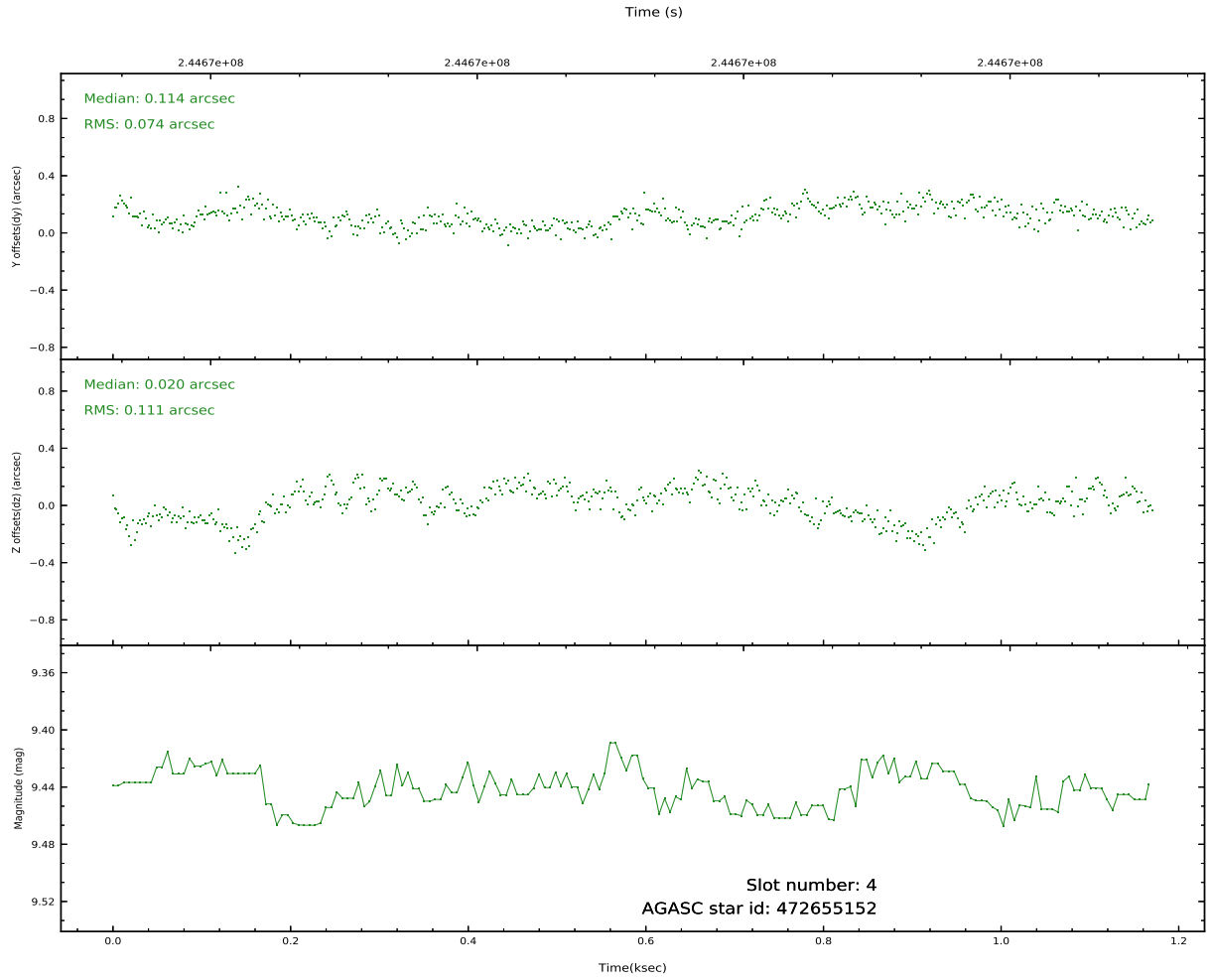
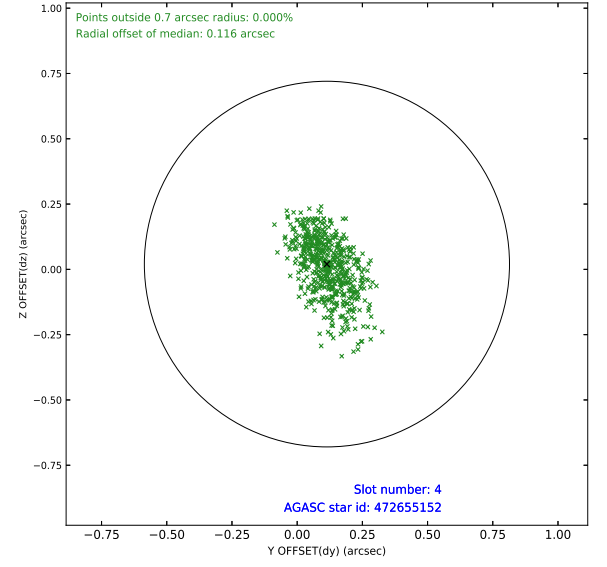
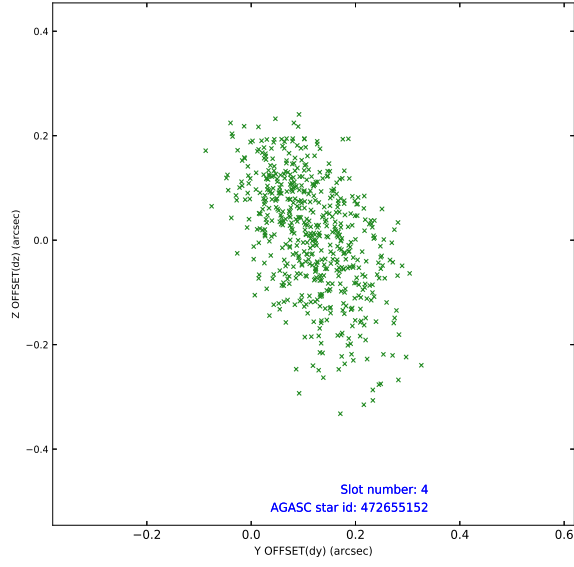


## 2.4 Star Slots

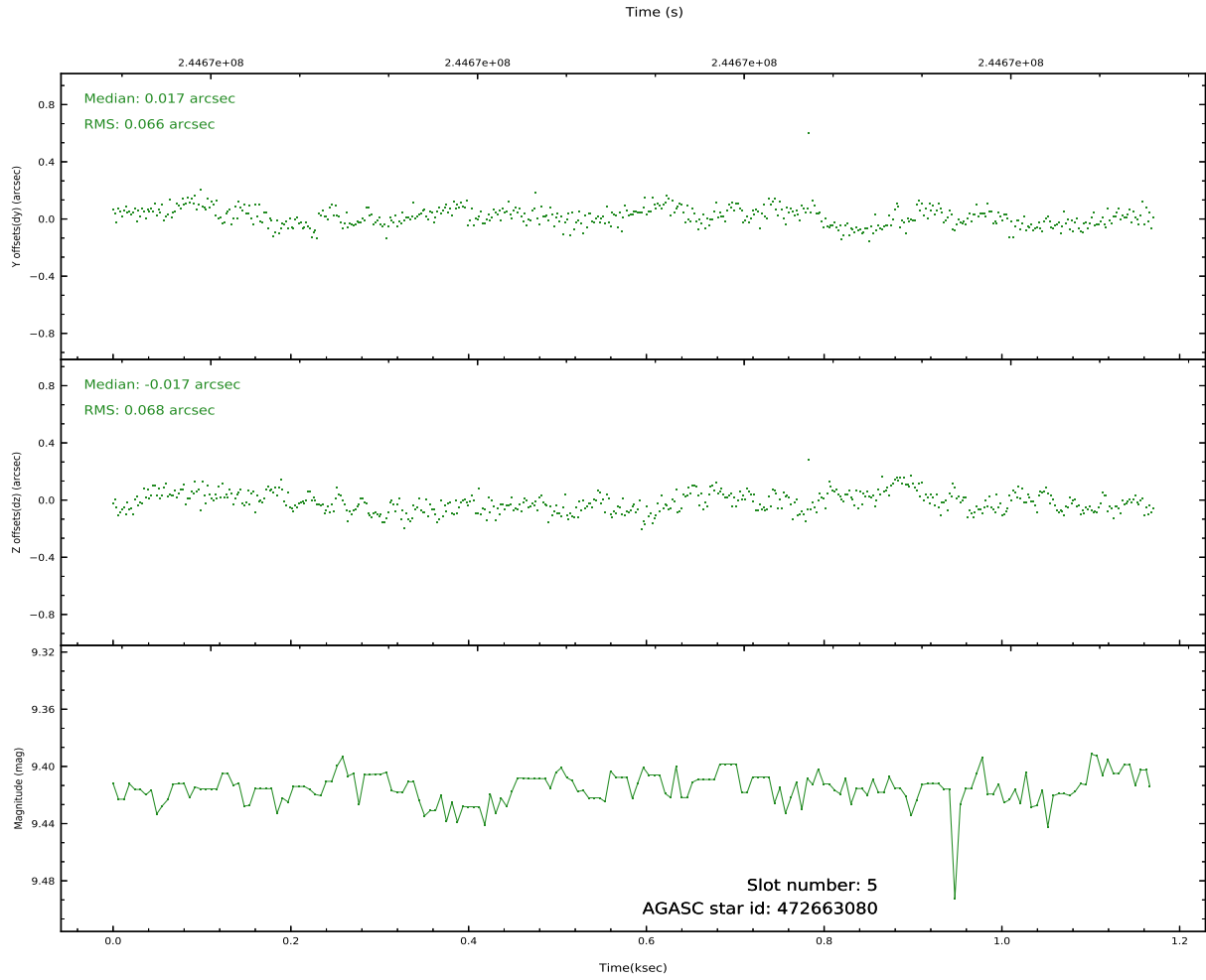
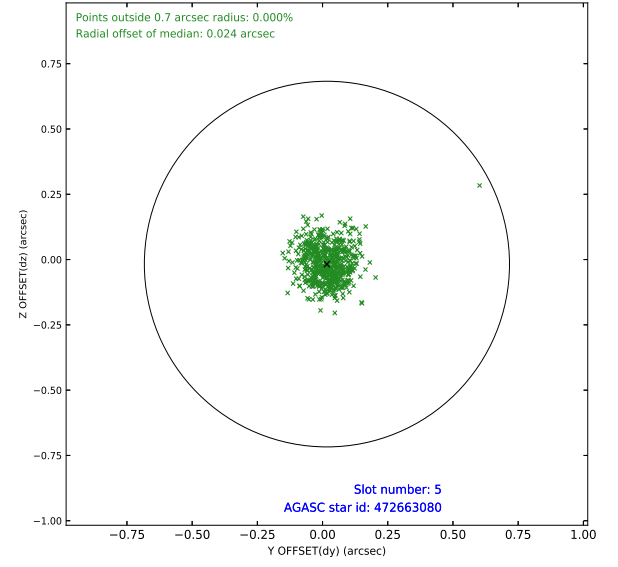
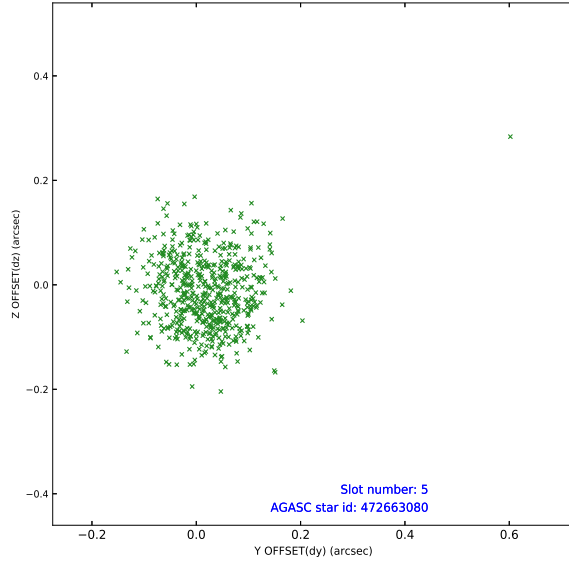
### 2.4.1 Slot 3



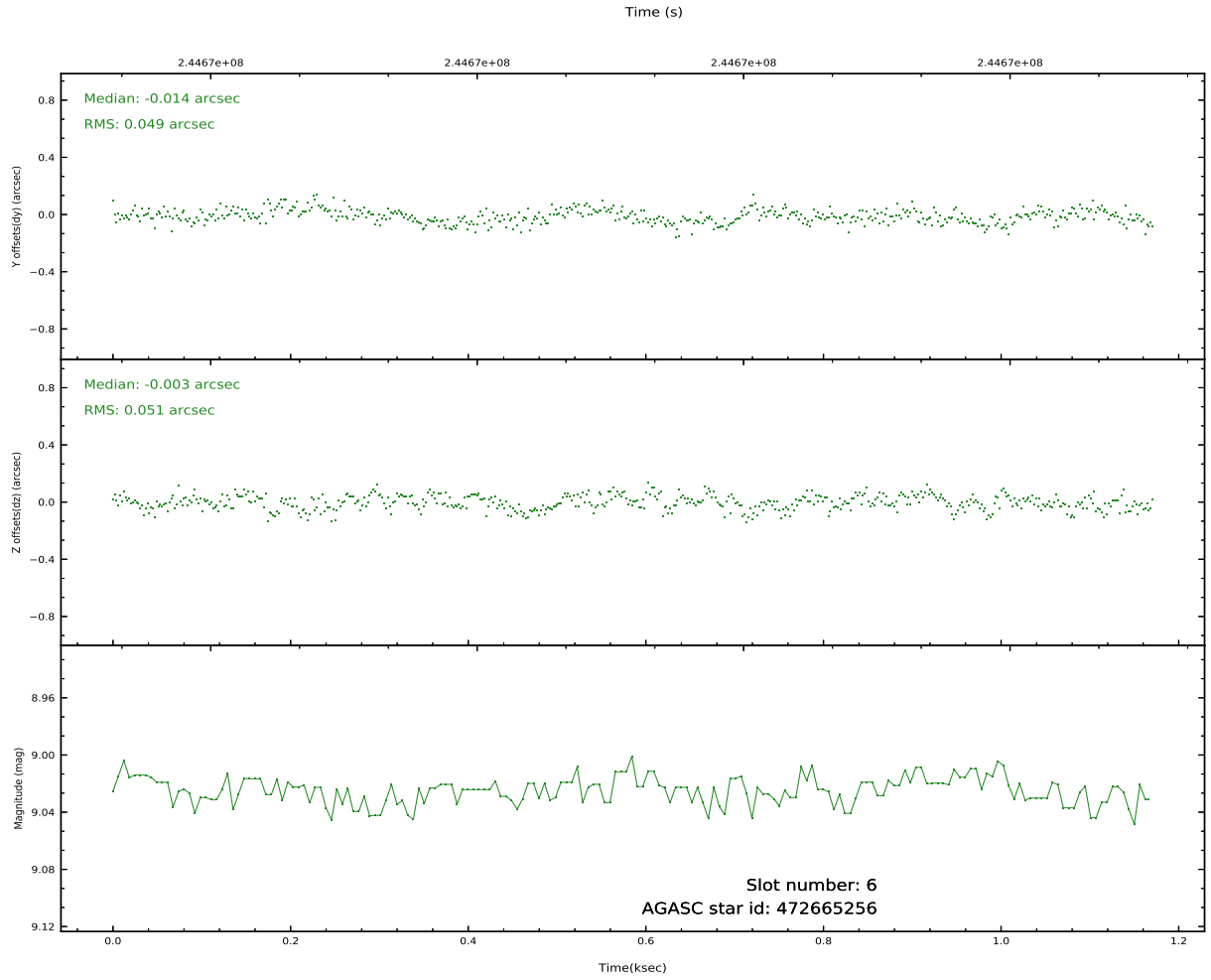
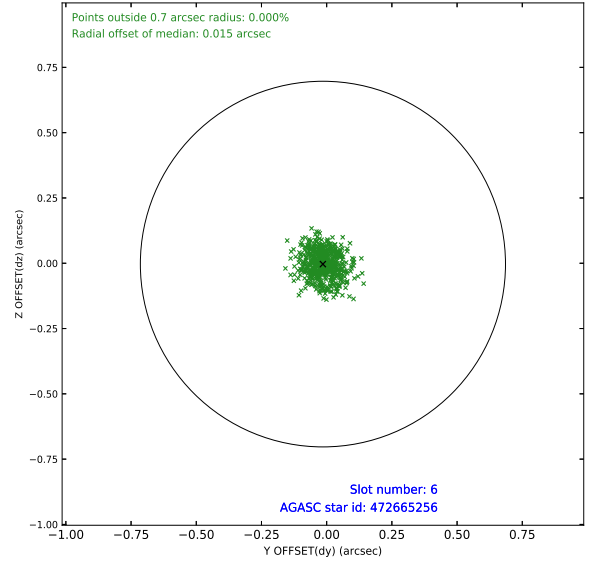
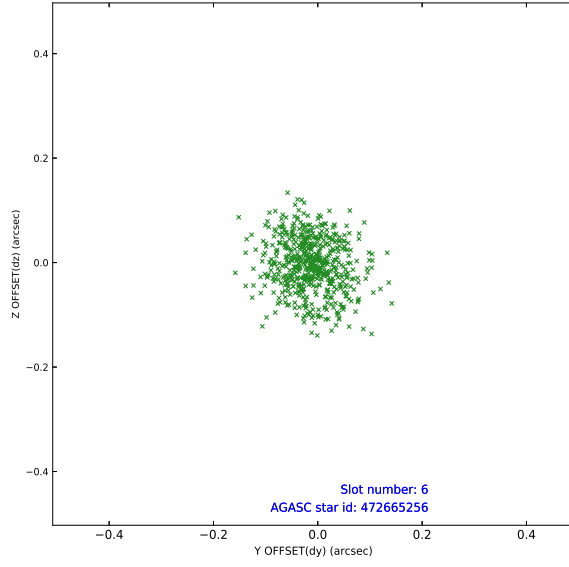
## 2.4.2 Slot 4



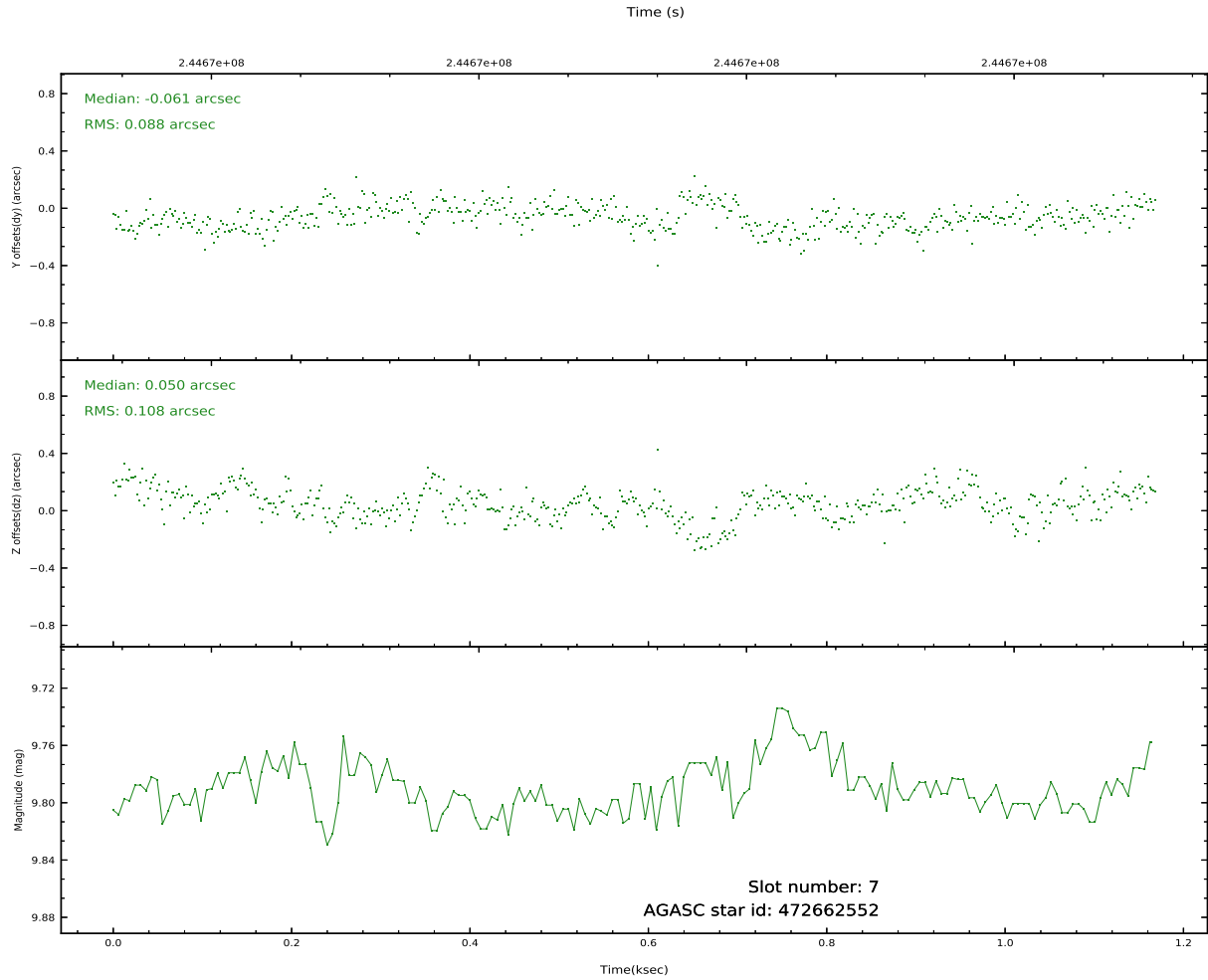
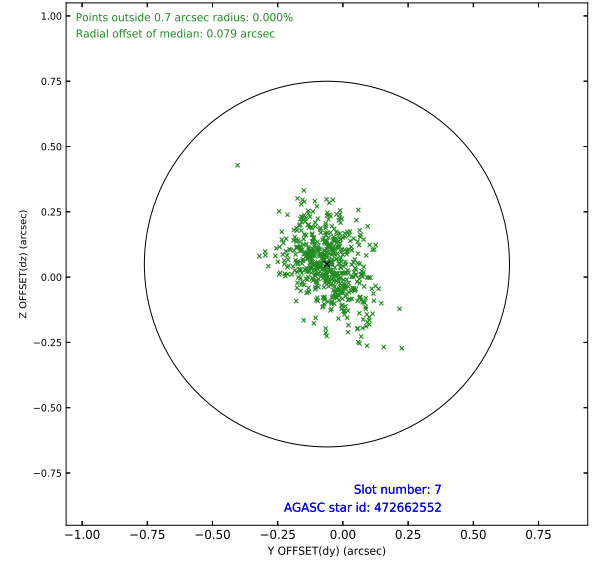
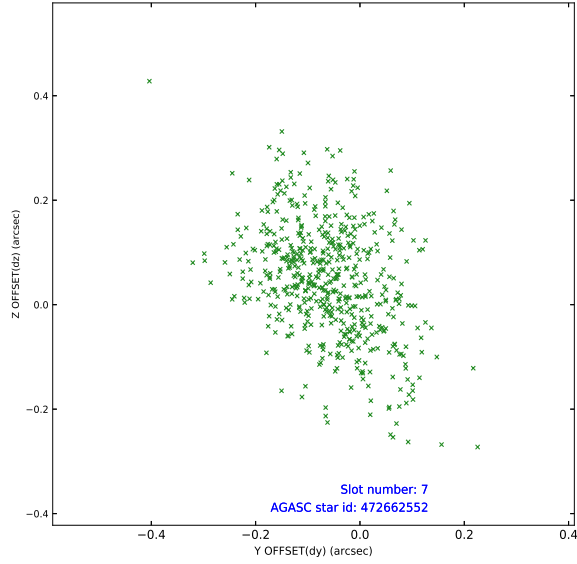
### 2.4.3 Slot 5



## 2.4.4 Slot 6

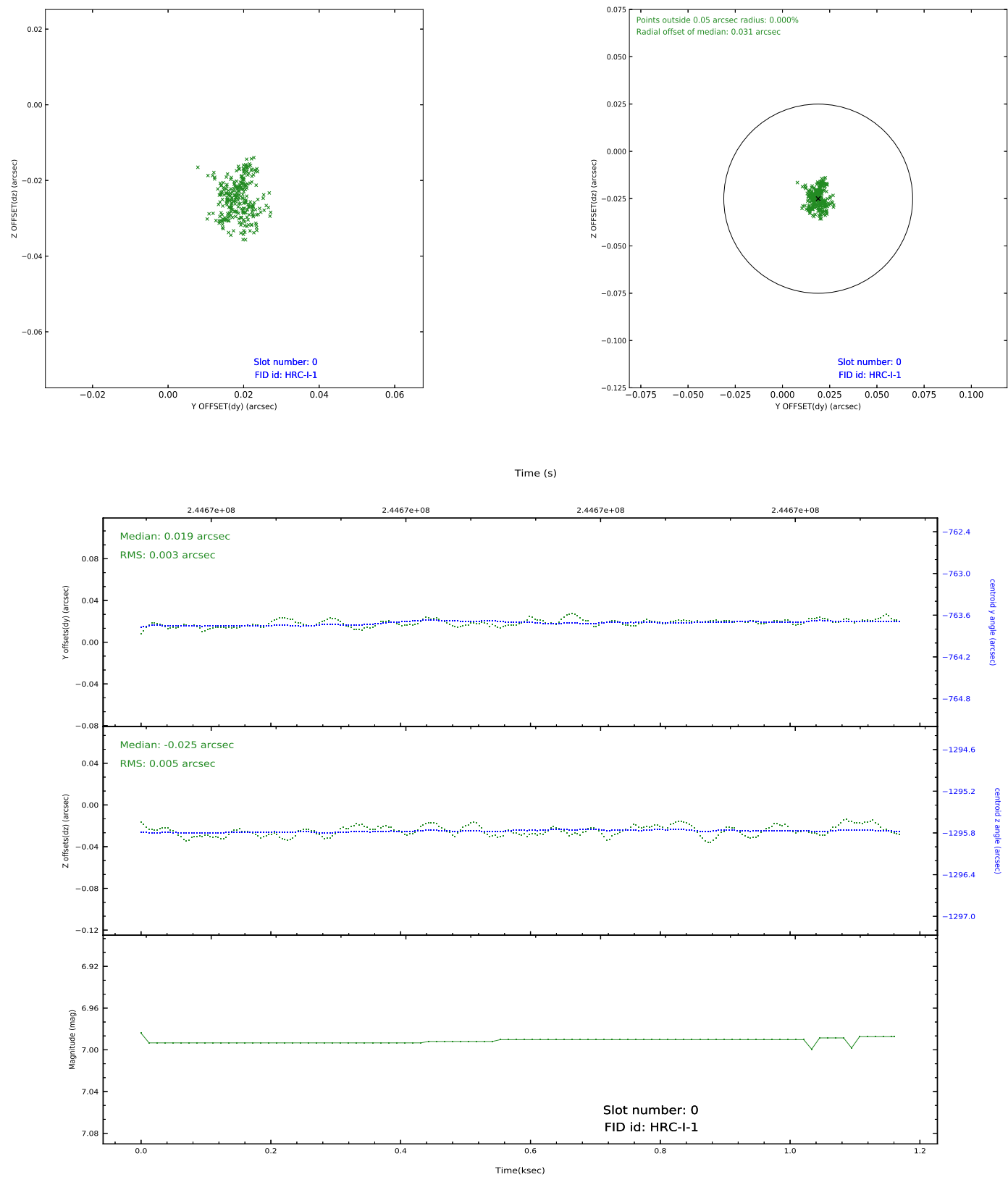


## 2.4.5 Slot 7

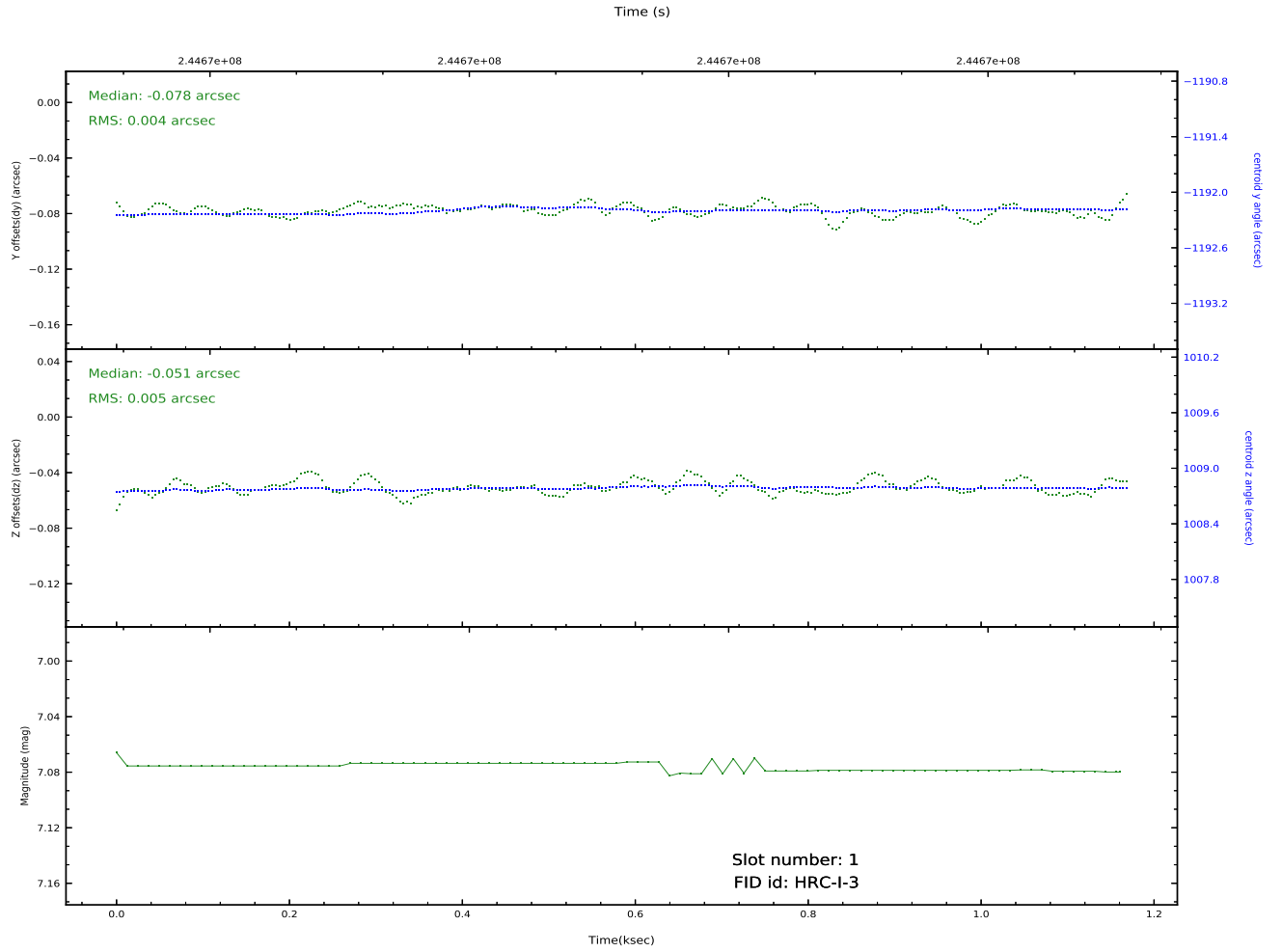
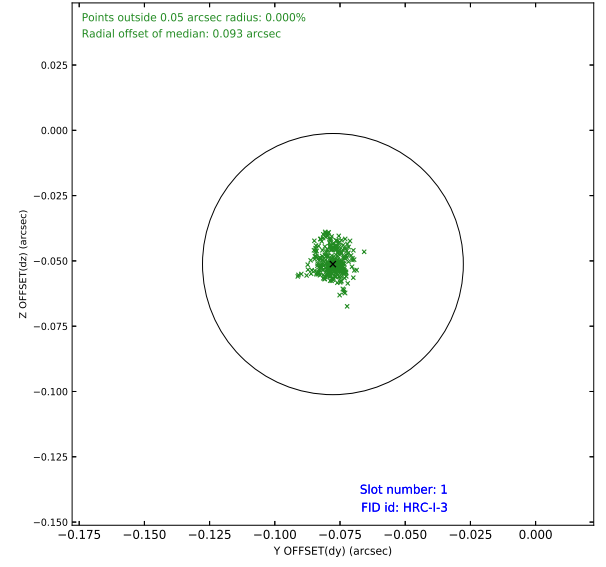
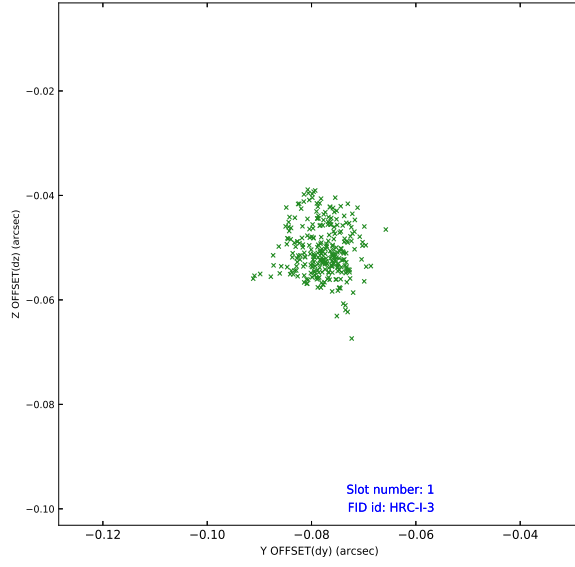


## 2.5 FID Slots

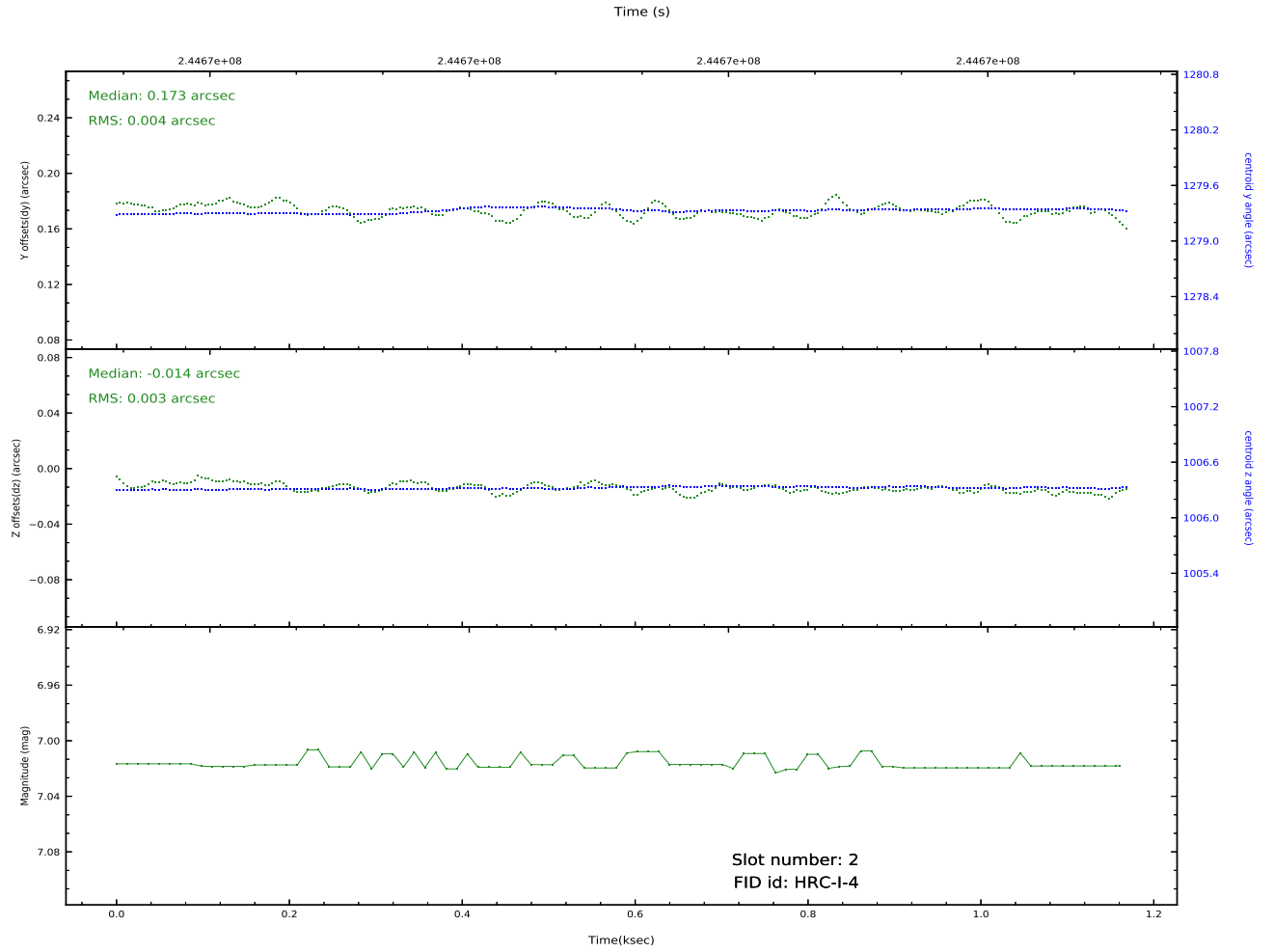
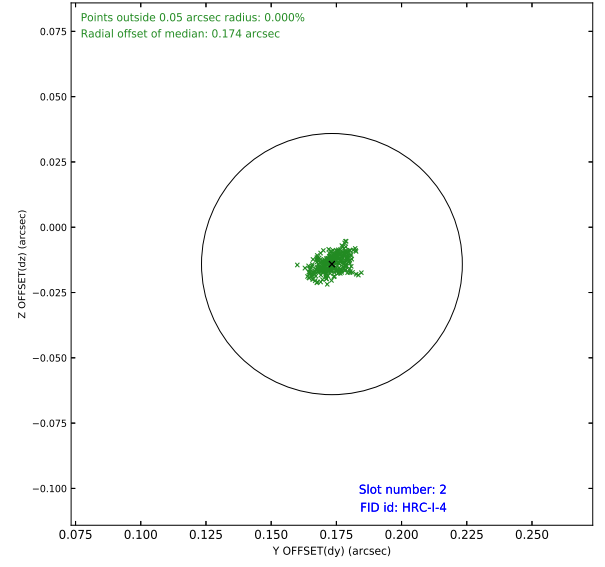
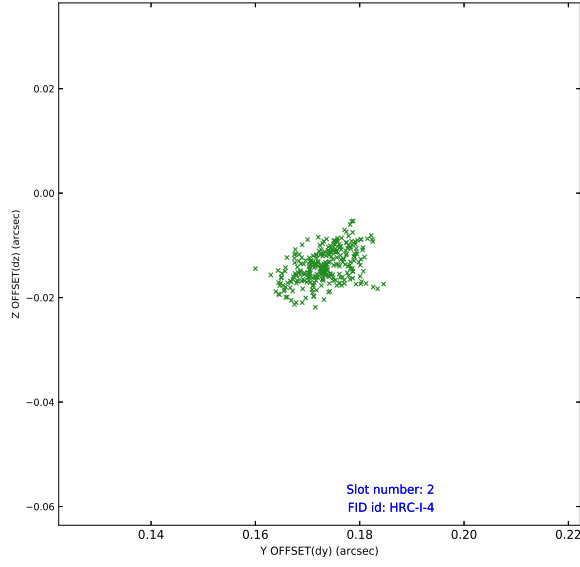
### 2.5.1 Slot 0



## 2.5.2 Slot 1



## 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.169525

### A.2 Comments