

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4332 - L2 Version 3  
Chandra X-Ray Center

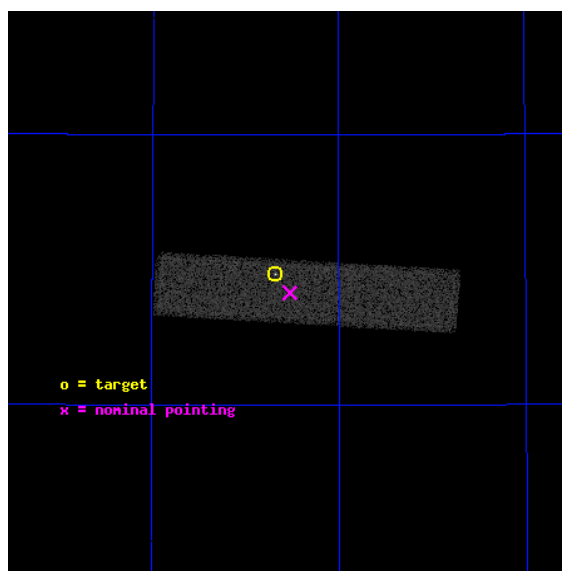
L2 Processing Date : Oct 23 2012

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# 1 Front

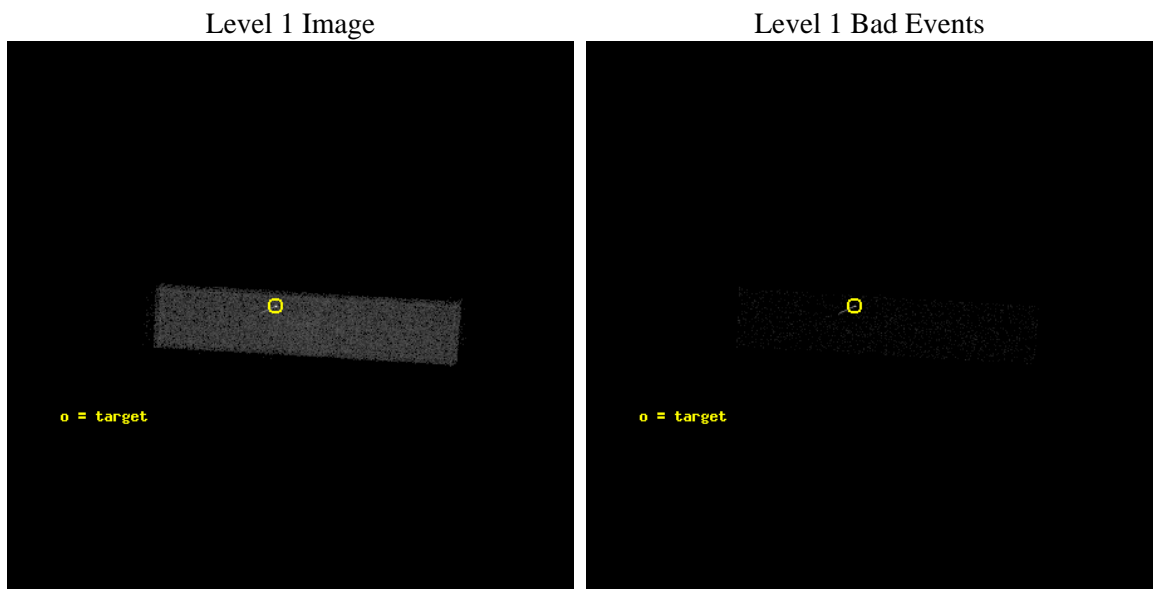
seq_num	290292	Sequence number
obs_id	4332	Observation id
title	AO4A CALIBRATION OBSERVATIONS TO MONITOR SPATIAL VARIATIONS IN THE HRC-S GAIN	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ARLAC	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.13129279704	Nominal RA [deg]
dec_nom	45.708246819811	Nominal Dec [deg]
roll_nom	3.3263533510377	Nominal Roll [deg]
revision	3	Processing version of data
ontime	819.23128446937	[s]
livetime	815.09407711532	Ontime multiplied by DTCOR
l2events	28487	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	8.4.5	Processing system revision	ontime	819.23128446937	[s]
caldsver	4.5.2	&#160	l1events	42977	Number of level 1 events
date	2012-10-23T09:05:52	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

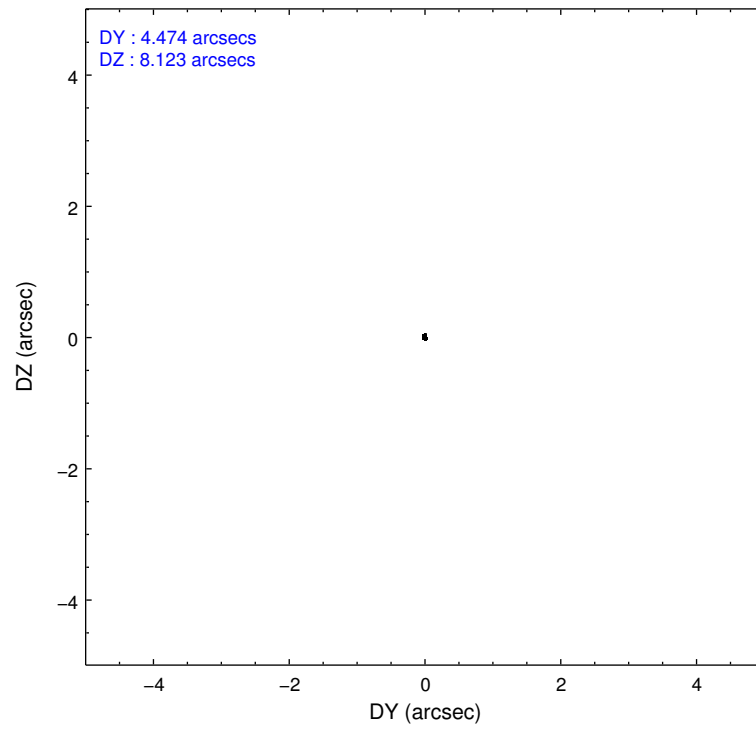
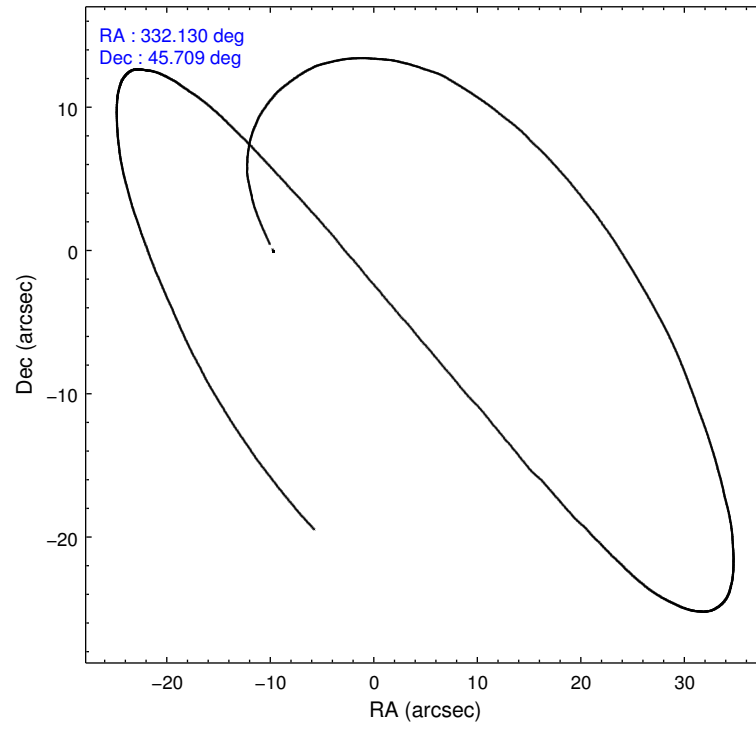
Level 1 Events

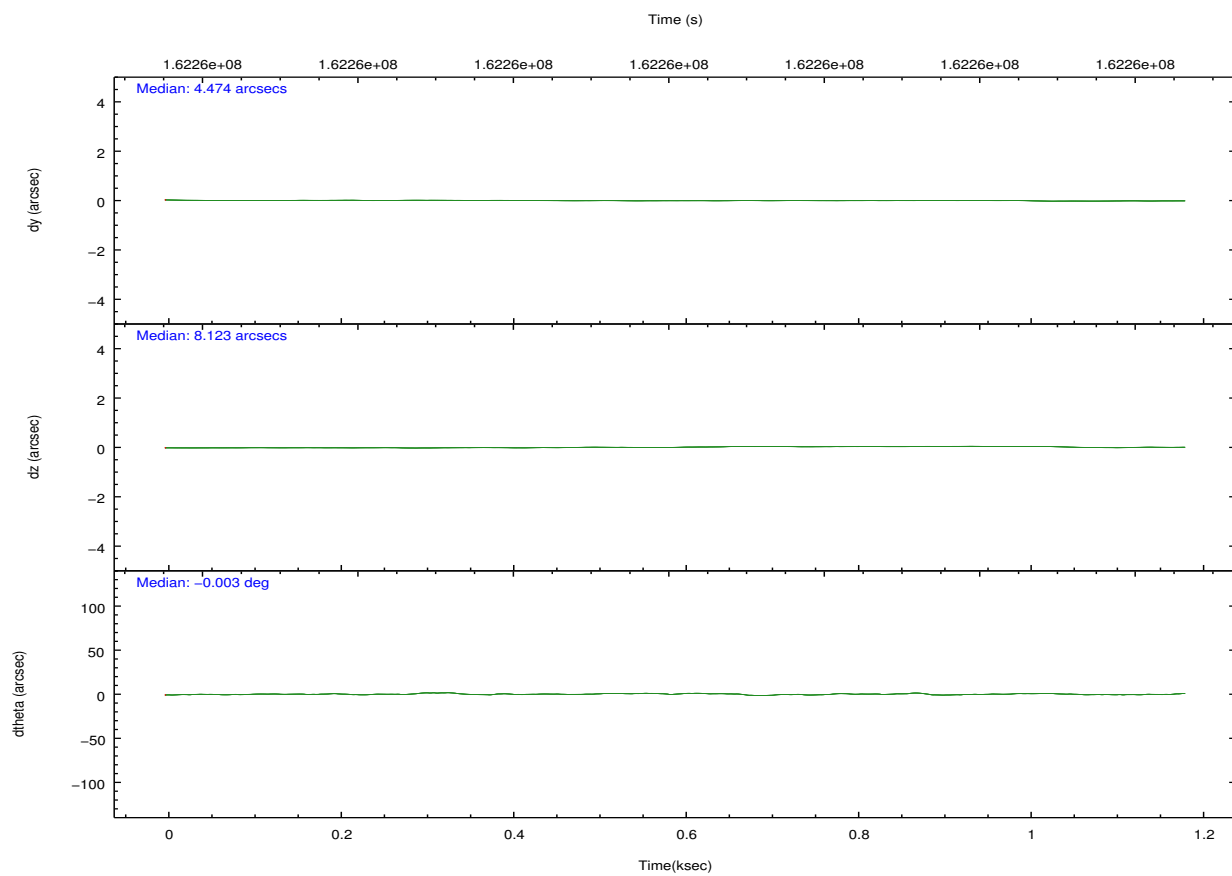
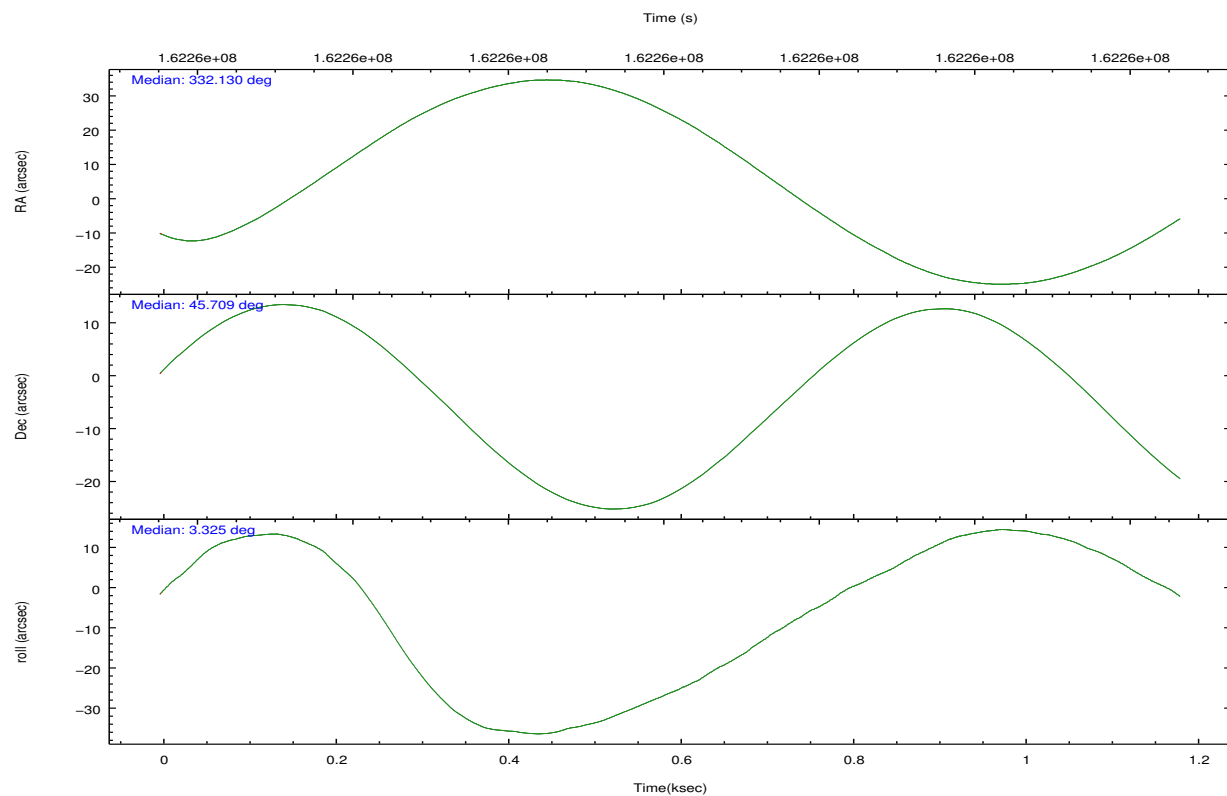
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	0	42977	0
rejected events	0	7688	0
rejected %	0%	17%	0%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.098679	332.1312927970415			
[deg] Pointing Dec	45.690385	45.70824681981057			
[deg] Pointing Roll	3.282450	3.32635335103768			
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	162261795.184000	162260768.05568			
Observation start date	2003-02-22T00:42:11	2003-02-22T00:26:08			
[s] Observation end time (MET)	162262795.184000	162262929.26827			
Observation end date	2003-02-22T00:58:51	2003-02-22T01:02:09			

## 2.3 Aspect



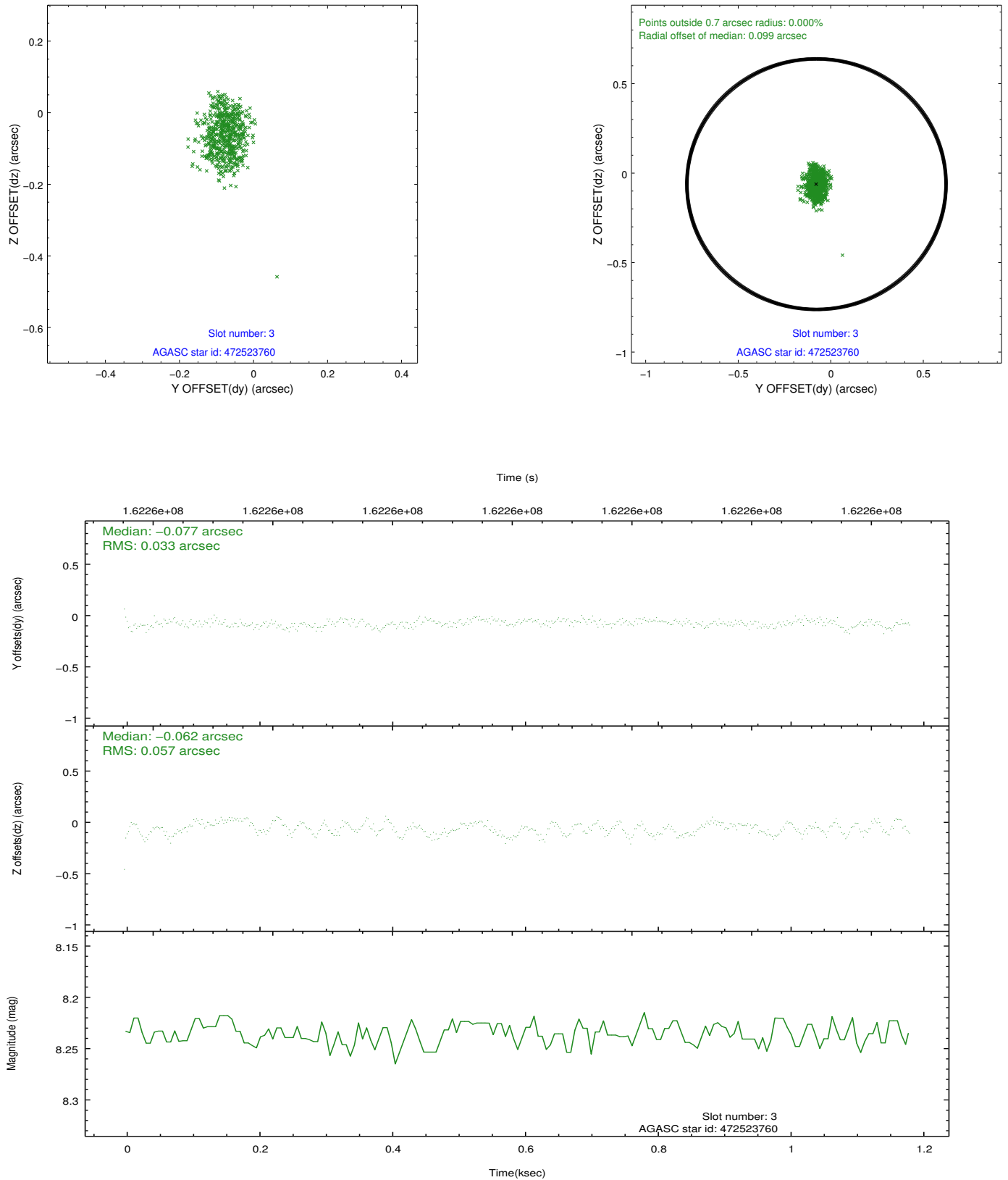


### Slot Statistics

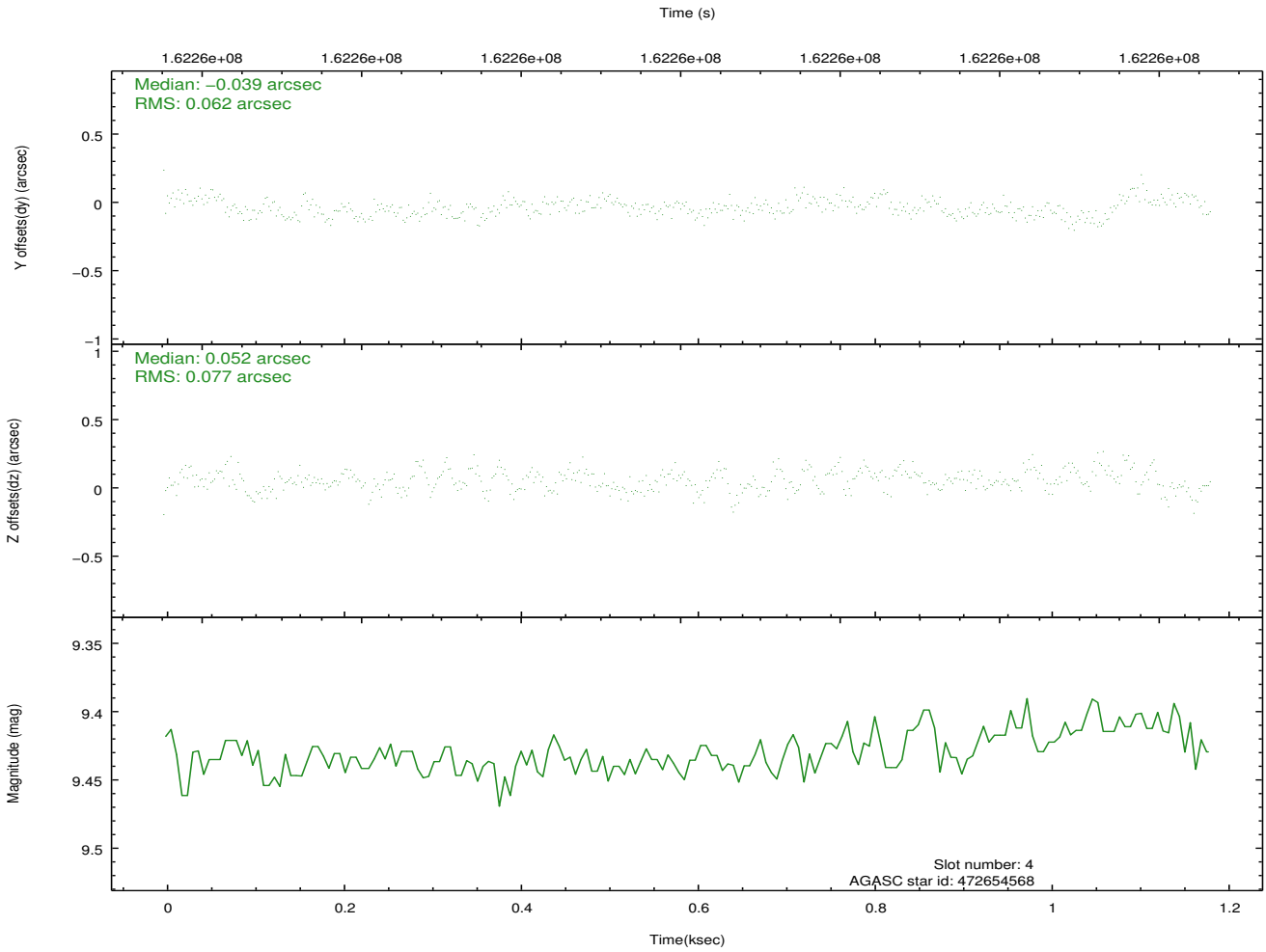
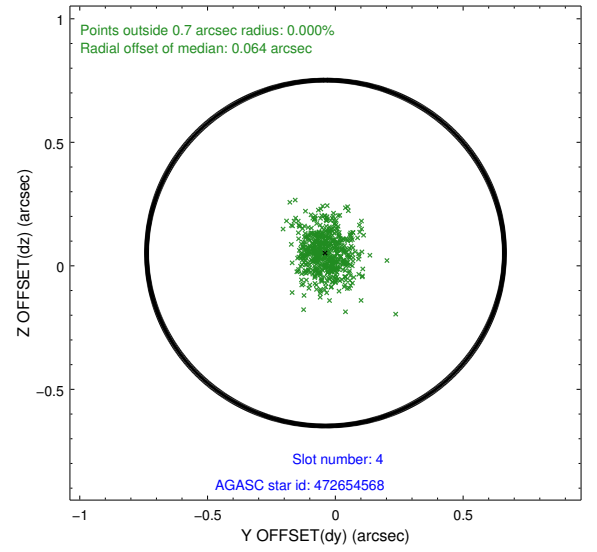
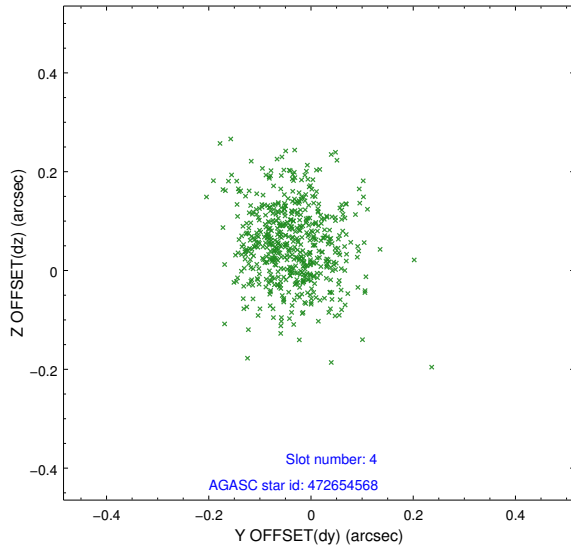
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.02	289	0.158	-0.130	0.008	0.014	0.000000	0.000000	-1158.53	-456.72
1	FID	HRC-S-2	7.01	289	0.066	-0.085	0.005	0.009	0.000000	0.000000	1237.05	-450.90
2	FID	HRC-S-3	7.04	289	0.166	-0.087	0.008	0.014	0.000000	0.000000	-1156.96	571.29
3	GUIDE	472523760	8.24	578	-0.077	-0.062	0.070	0.108	331.645363	45.403260	-1201.81	-966.64
4	GUIDE	472654568	9.43	577	-0.039	0.052	0.099	0.171	332.194449	45.063576	113.14	-2271.57
5	GUIDE	472659832	9.46	578	0.006	0.063	0.093	0.161	332.780399	46.098139	1784.78	1368.23
6	GUIDE	472527720	6.99	578	-0.042	-0.066	0.071	0.109	331.460205	45.112509	-1733.90	-1978.84
7	GUIDE	472655152	9.43	575	0.148	0.018	0.088	0.146	332.504239	45.862991	1049.07	557.91

## 2.4 Star Slots

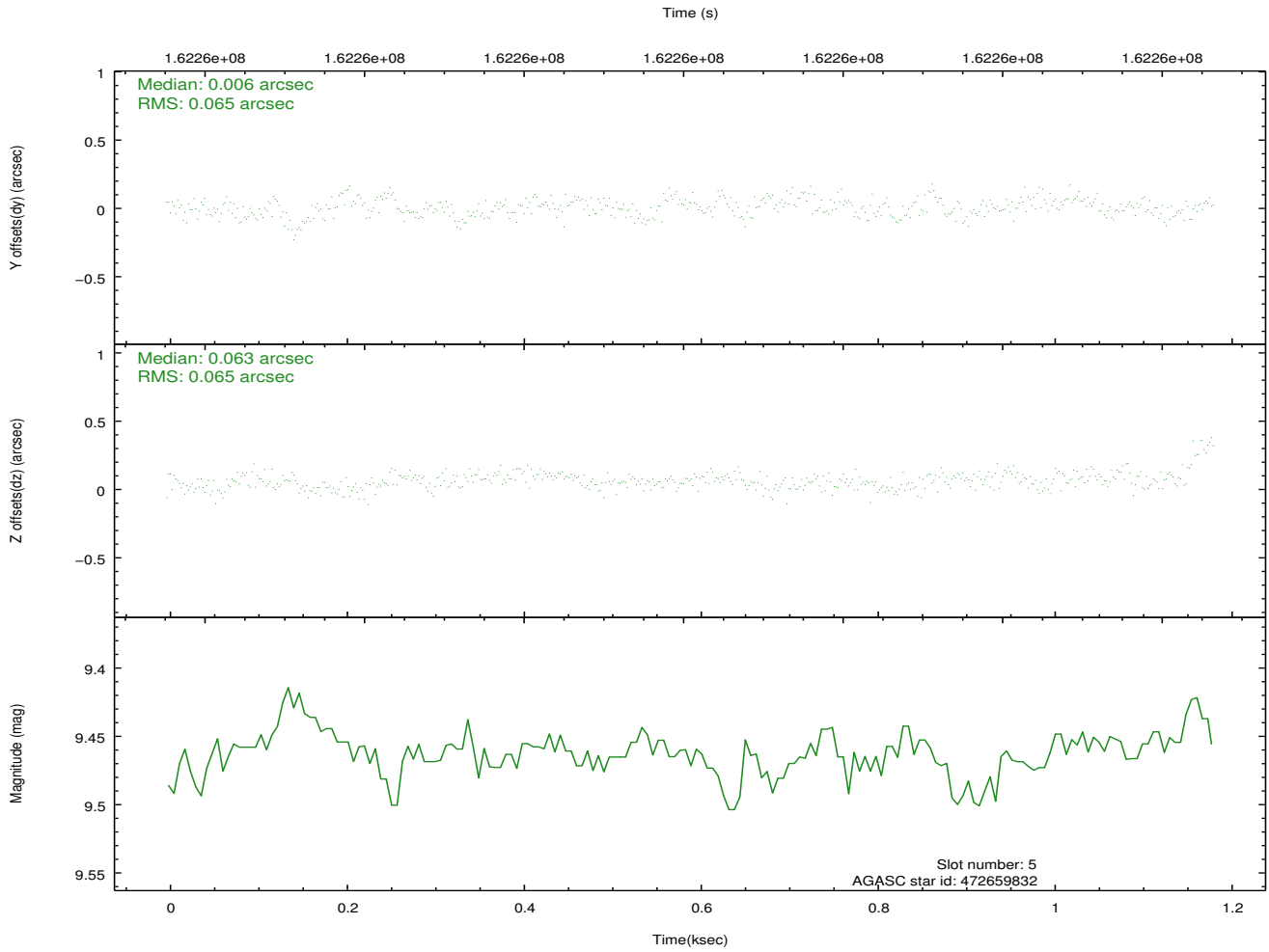
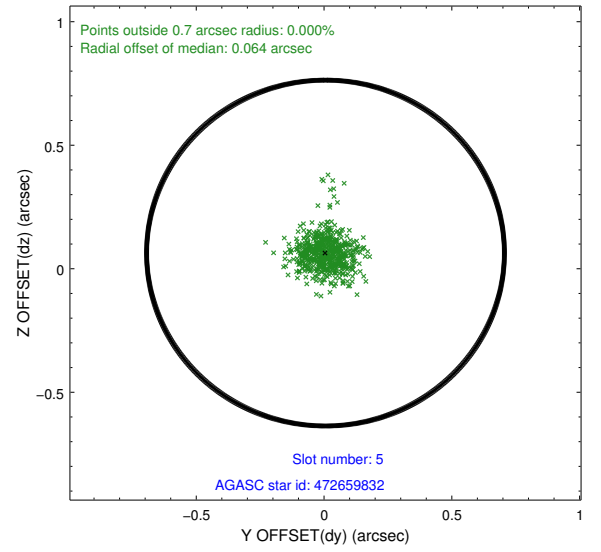
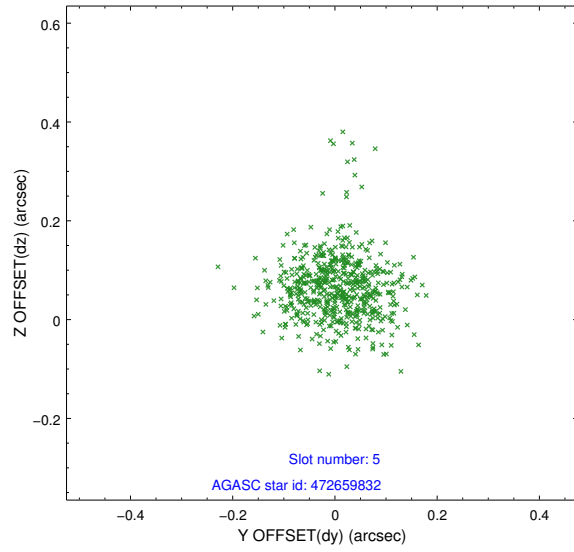
### 2.4.1 Slot 3



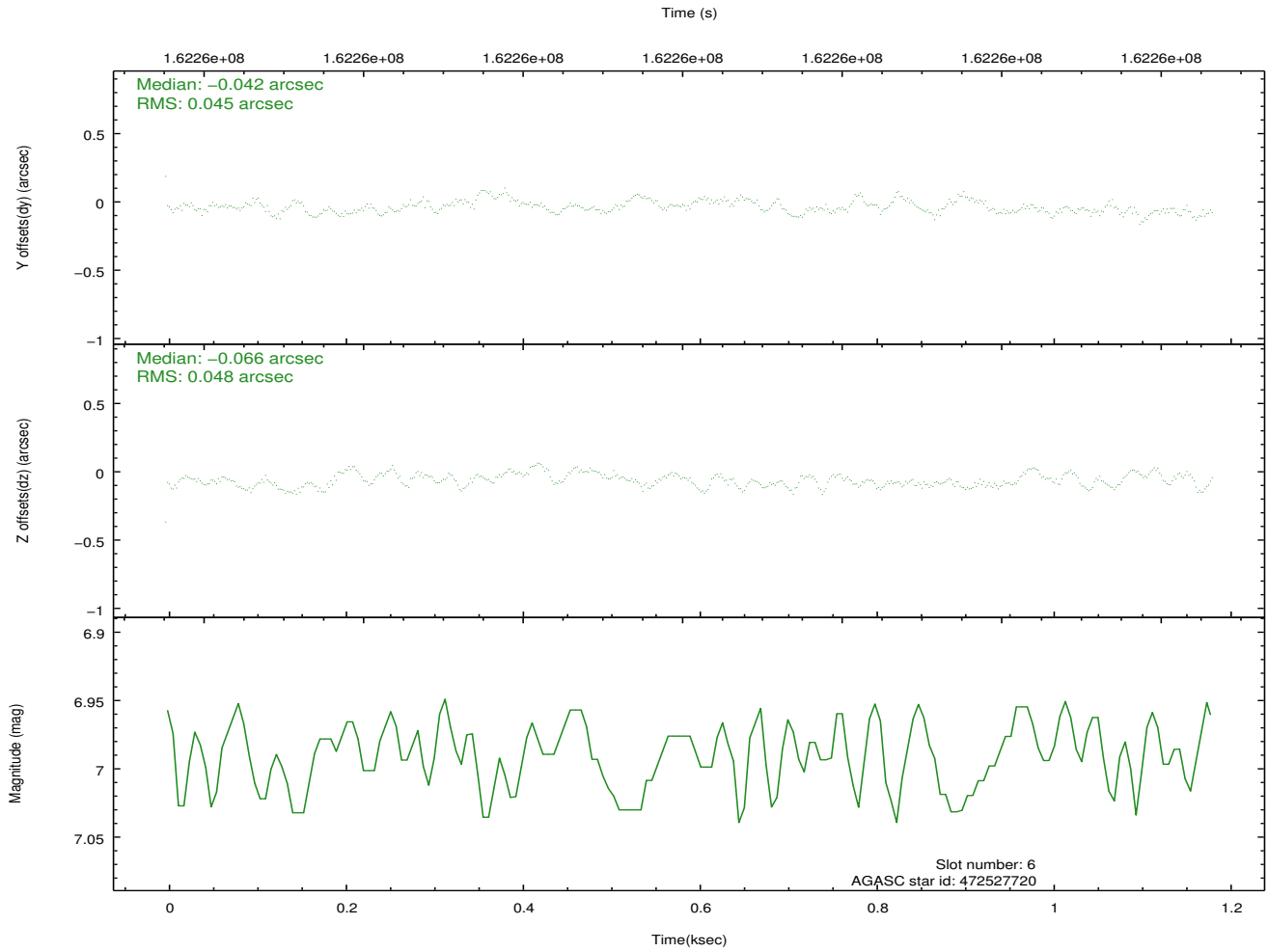
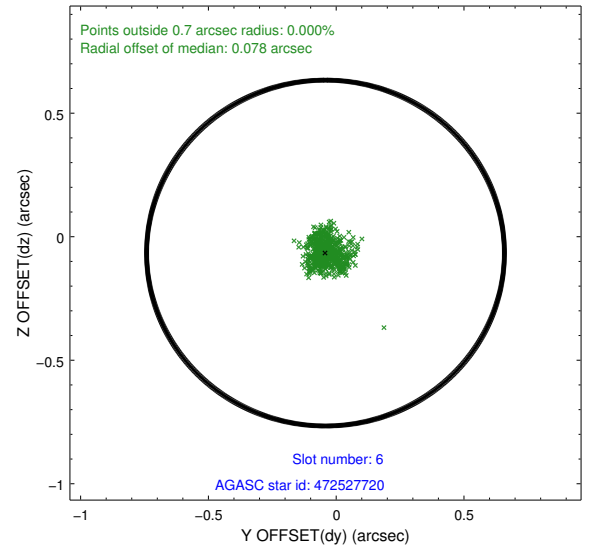
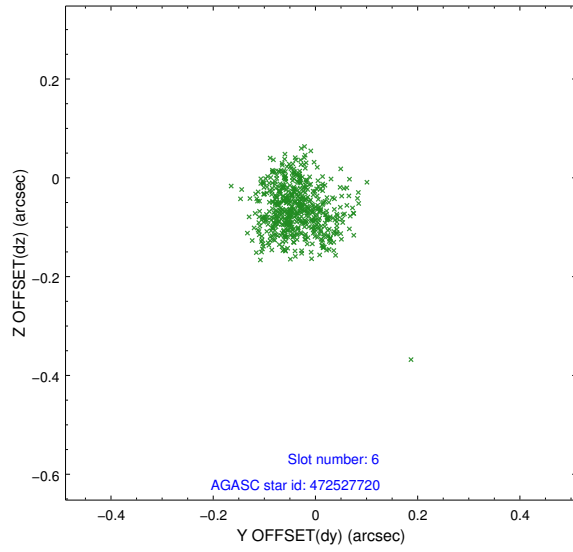
## 2.4.2 Slot 4



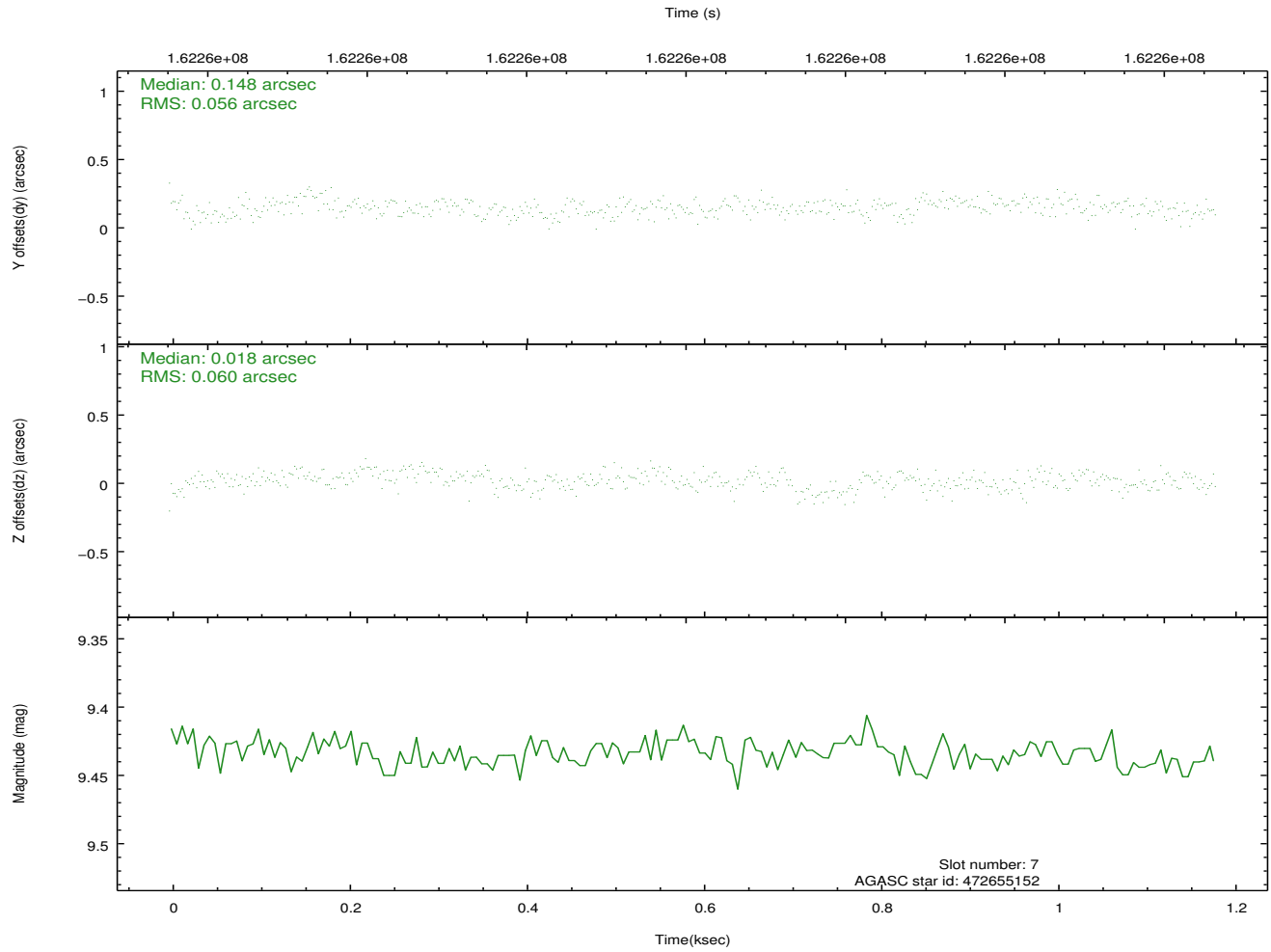
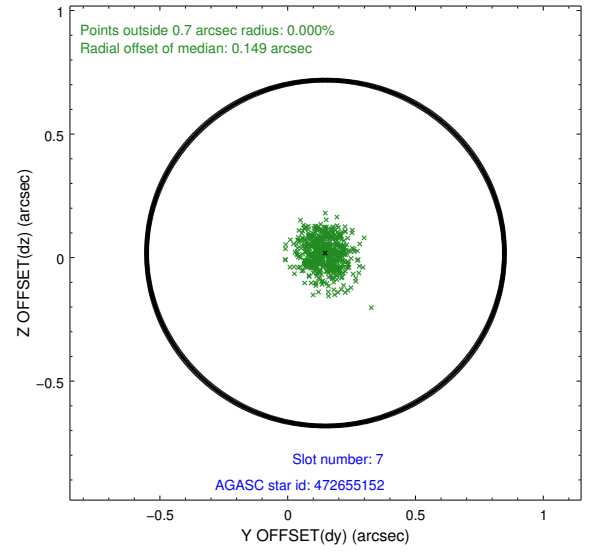
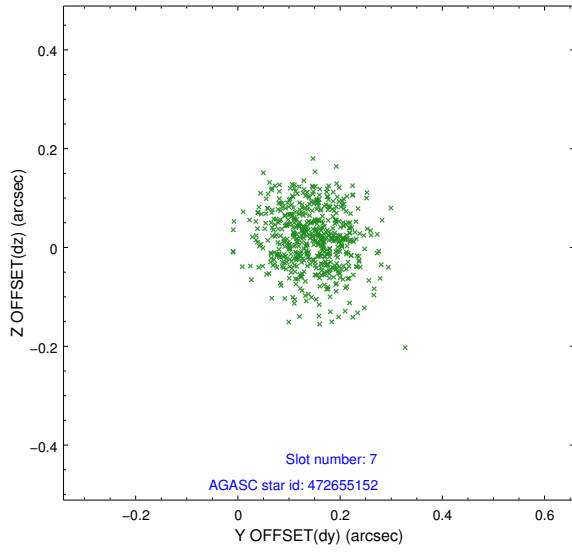
### 2.4.3 Slot 5



## 2.4.4 Slot 6

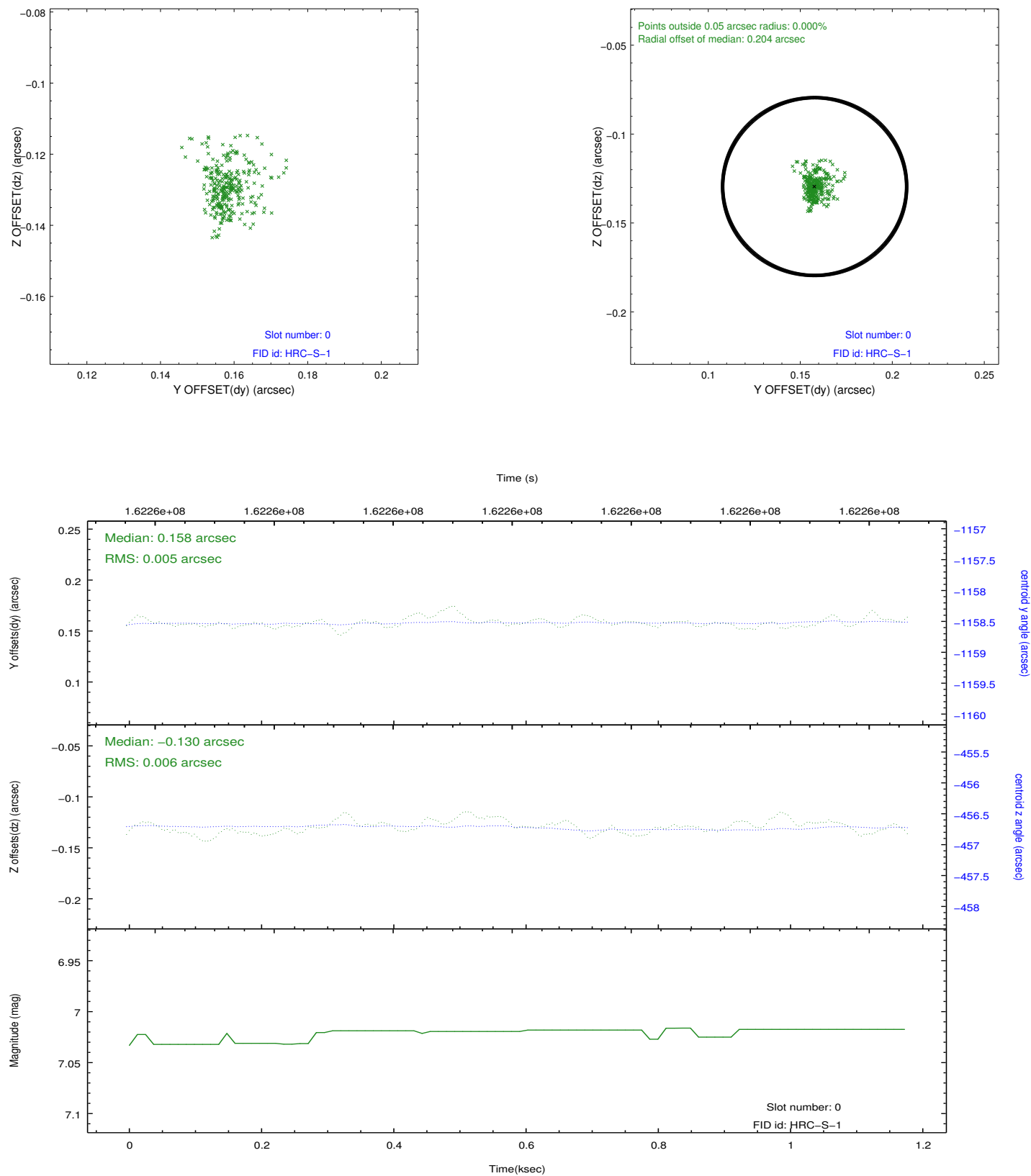


## 2.4.5 Slot 7

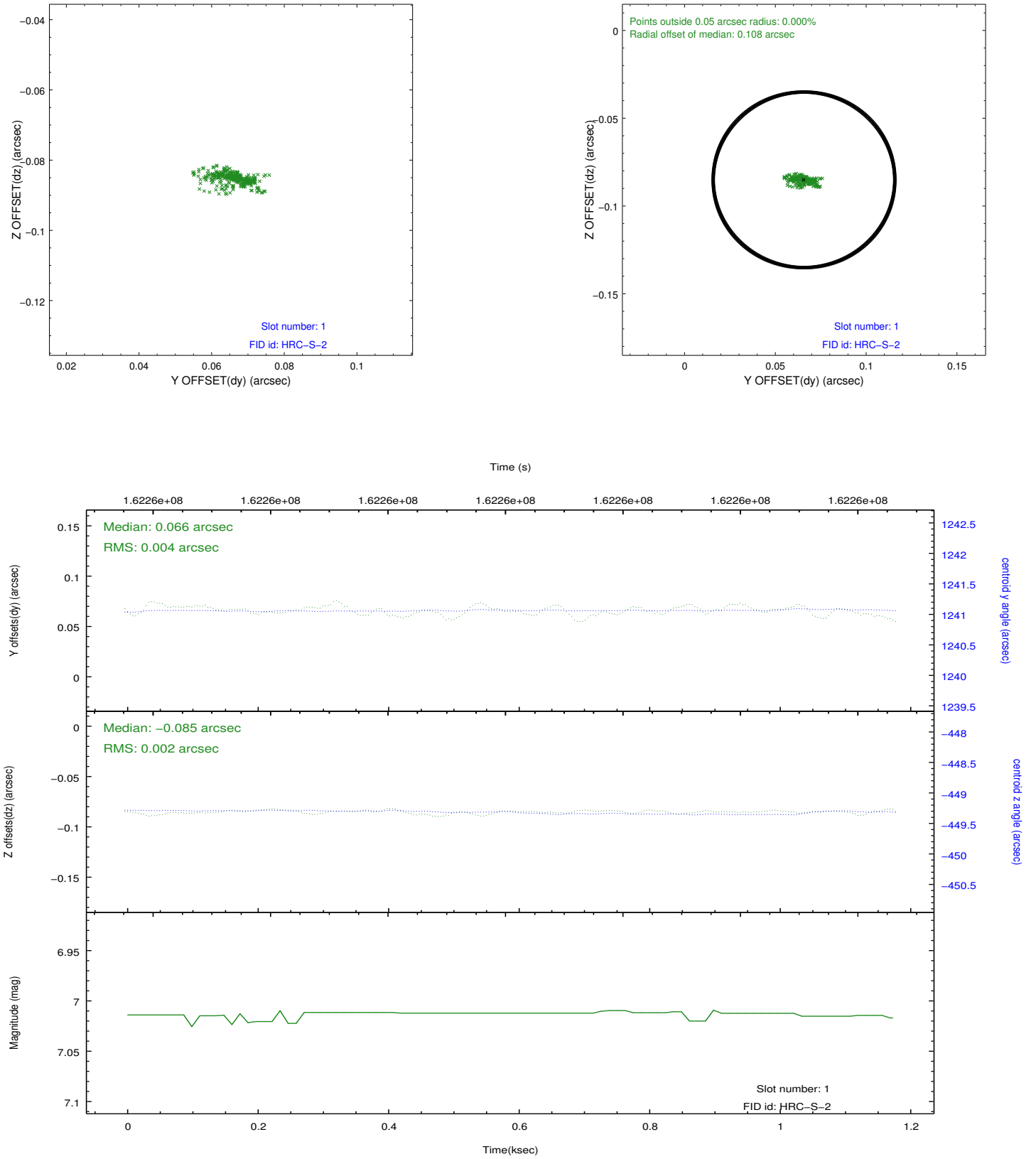


## 2.5 FID Slots

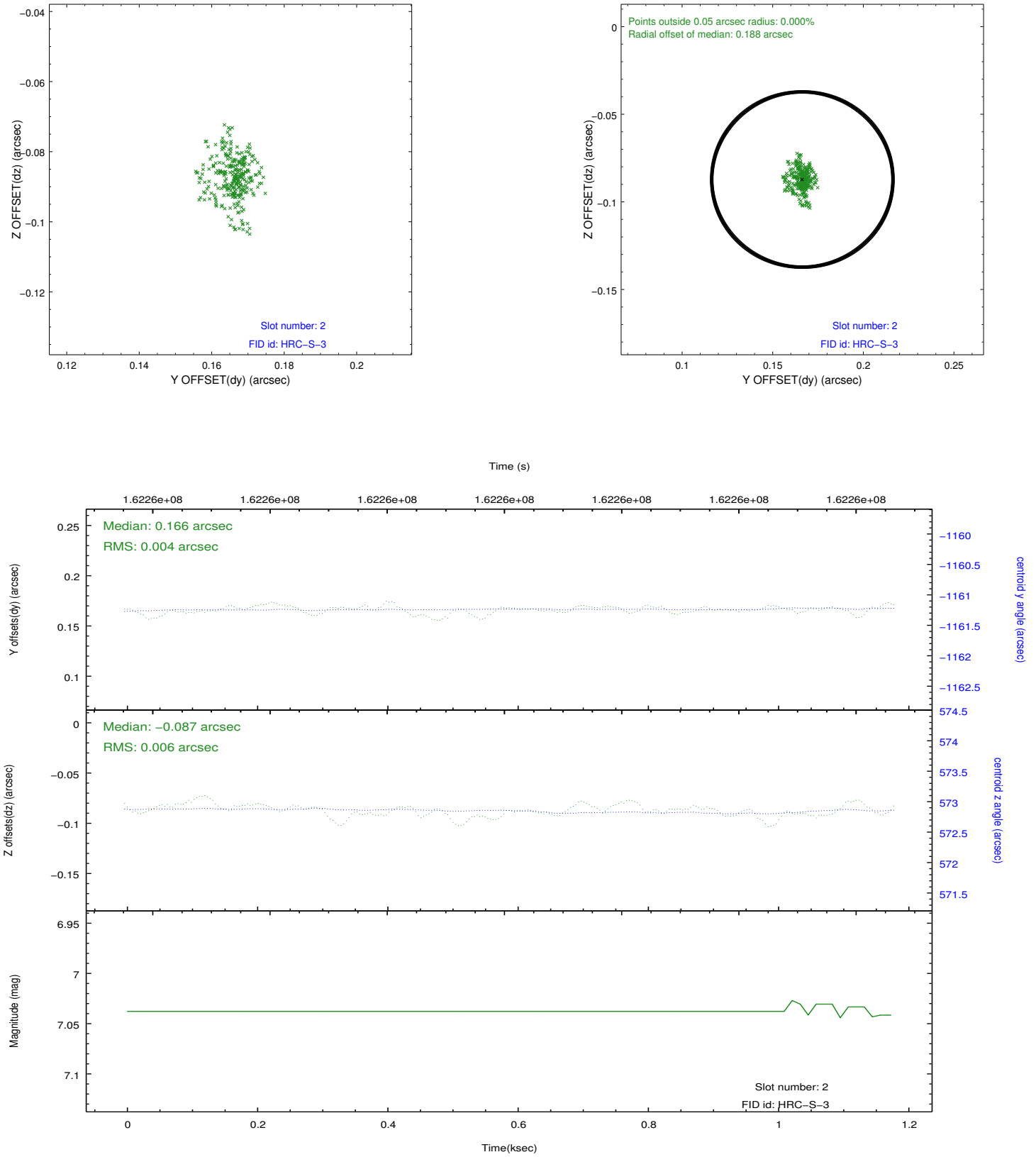
### 2.5.1 Slot 0



## 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)	2012.11.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.819

### A.2 Comments

Monitor constraint not met--starts before obs4339 rather than after.