

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2867 - L2 Version 4  
Chandra X-Ray Center

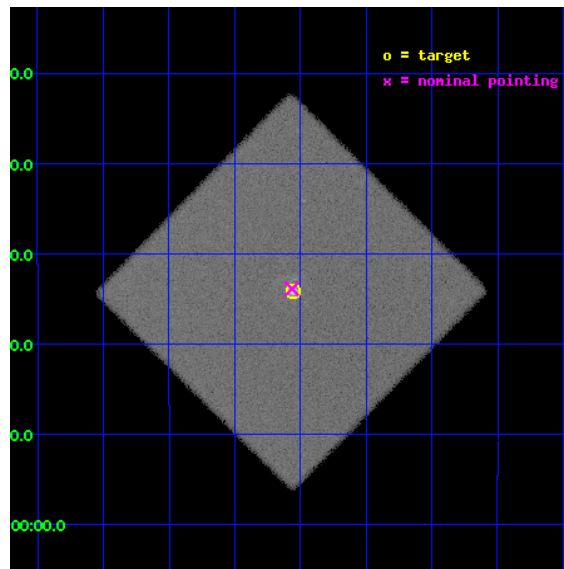
L2 Processing Date : Oct 4 2012

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# 1 Front

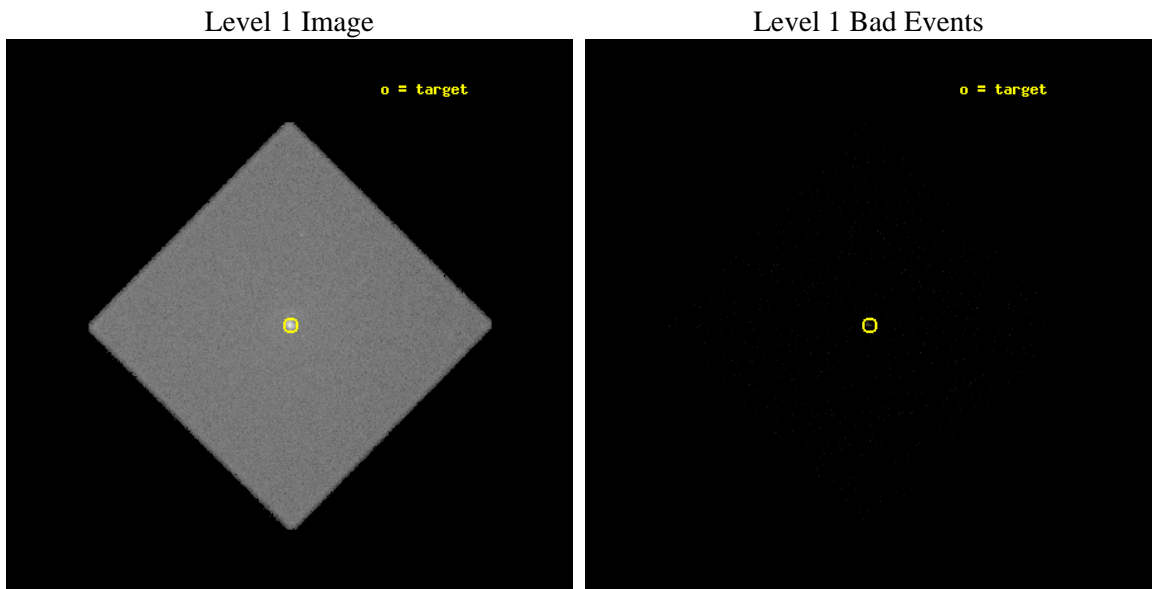
seq_num	590256	Sequence number
obs_id	2867	Observation id
title	AO3A CALIBRATION OBSERVATIONS THE STANDARD CANDLES CAS A AND G21.5-09	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	G21.5-0.9 [HRC-I, Offsets=0,0,0]	Source name
ra_targ	278.389583	Observer's specified target RA [deg]
dec_targ	-10.568528	Observer's specified target Dec [deg]
ra_nom	278.39131439406	Nominal RA [deg]
dec_nom	-10.564659580942	Nominal Dec [deg]
roll_nom	89.626034925809	Nominal Roll [deg]
revision	4	Processing version of data
ontime	19182.107026711	[s]
livetime	19076.177877128	Ontime multiplied by DTCOR
l2events	552448	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	19200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	19182.107026711	[s]
caldbver	4.5.2	&#160	l1events	831376	Number of level 1 events
date	2012-10-04T11:26:53	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

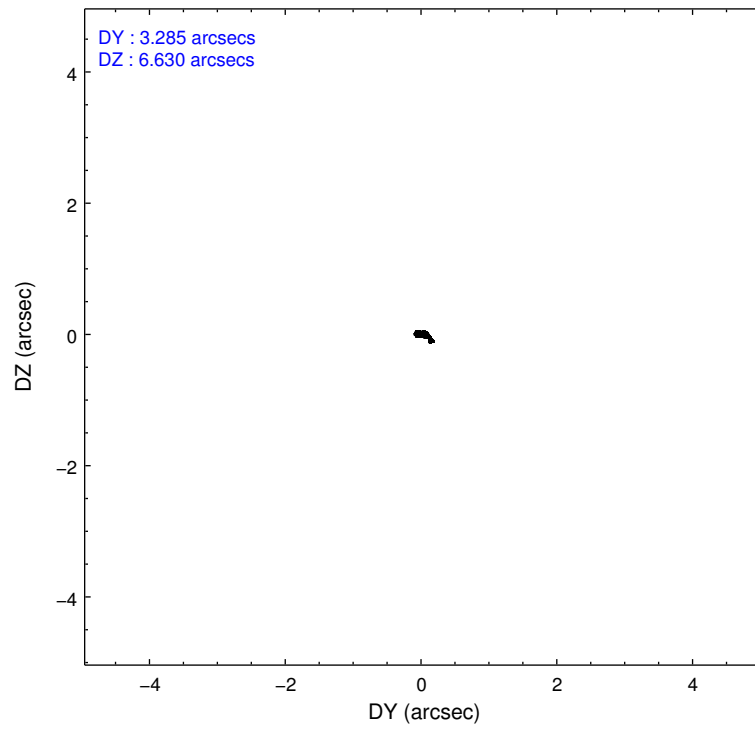
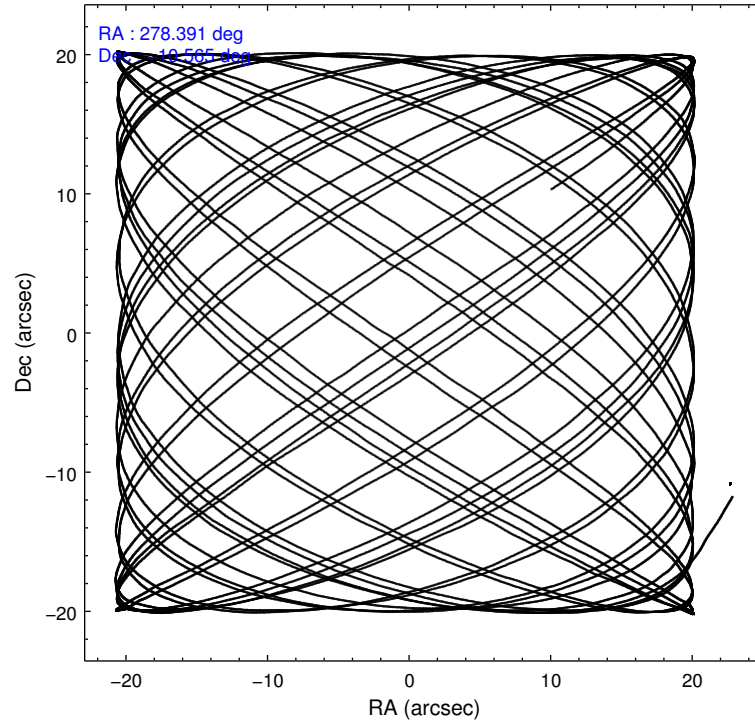
#### Level 1 Events

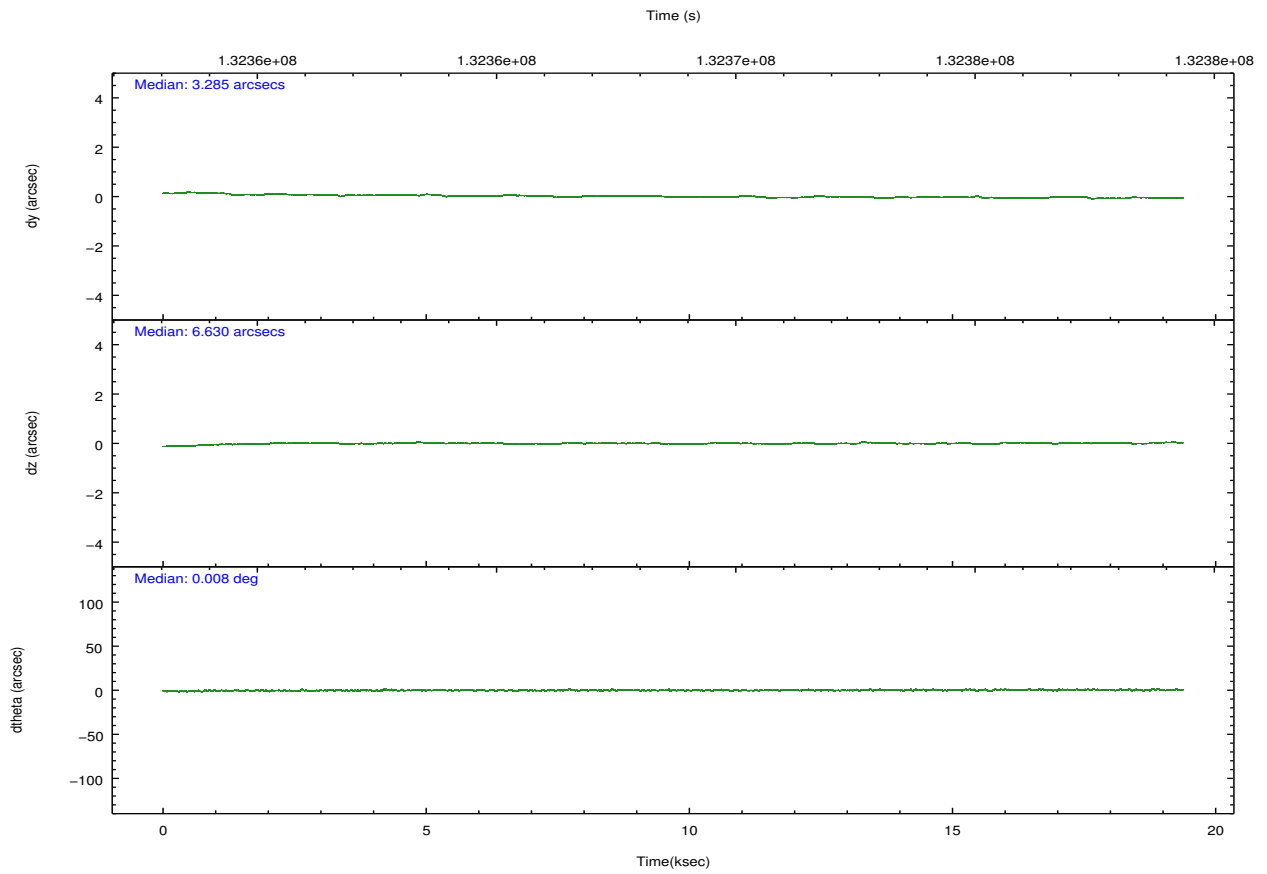
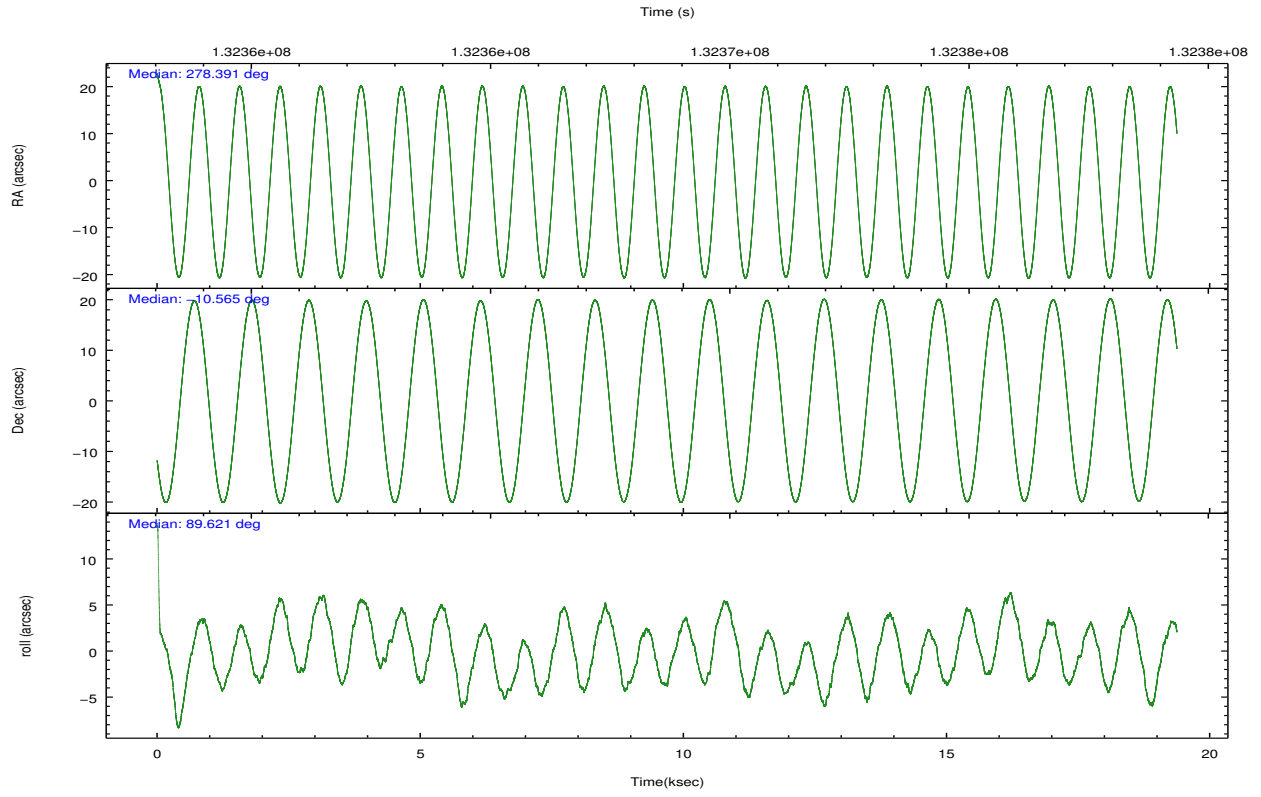
	<b>segment 0</b>
level 1 events	831376
rejected events	8429
rejected %	1%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
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	278.405427	278.3913143940561			
[deg] Pointing Dec	-10.587930	-10.56465958094158			
[deg] Pointing Roll	89.724114	89.62603492580877			
[s] Window start time (MET)	131328064.184000	131328064.184000			
[s] Window stop time (MET)	133920064.184000	133920064.184000			
[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)	132359178.184000	132358768.79648			
Observation start date	2002-03-12T22:25:14	2002-03-12T22:19:28			
[s] Observation end time (MET)	132378378.184000	132378518.49728			
Observation end date	2002-03-13T03:45:14	2002-03-13T03:48:38			

## 2.3 Aspect



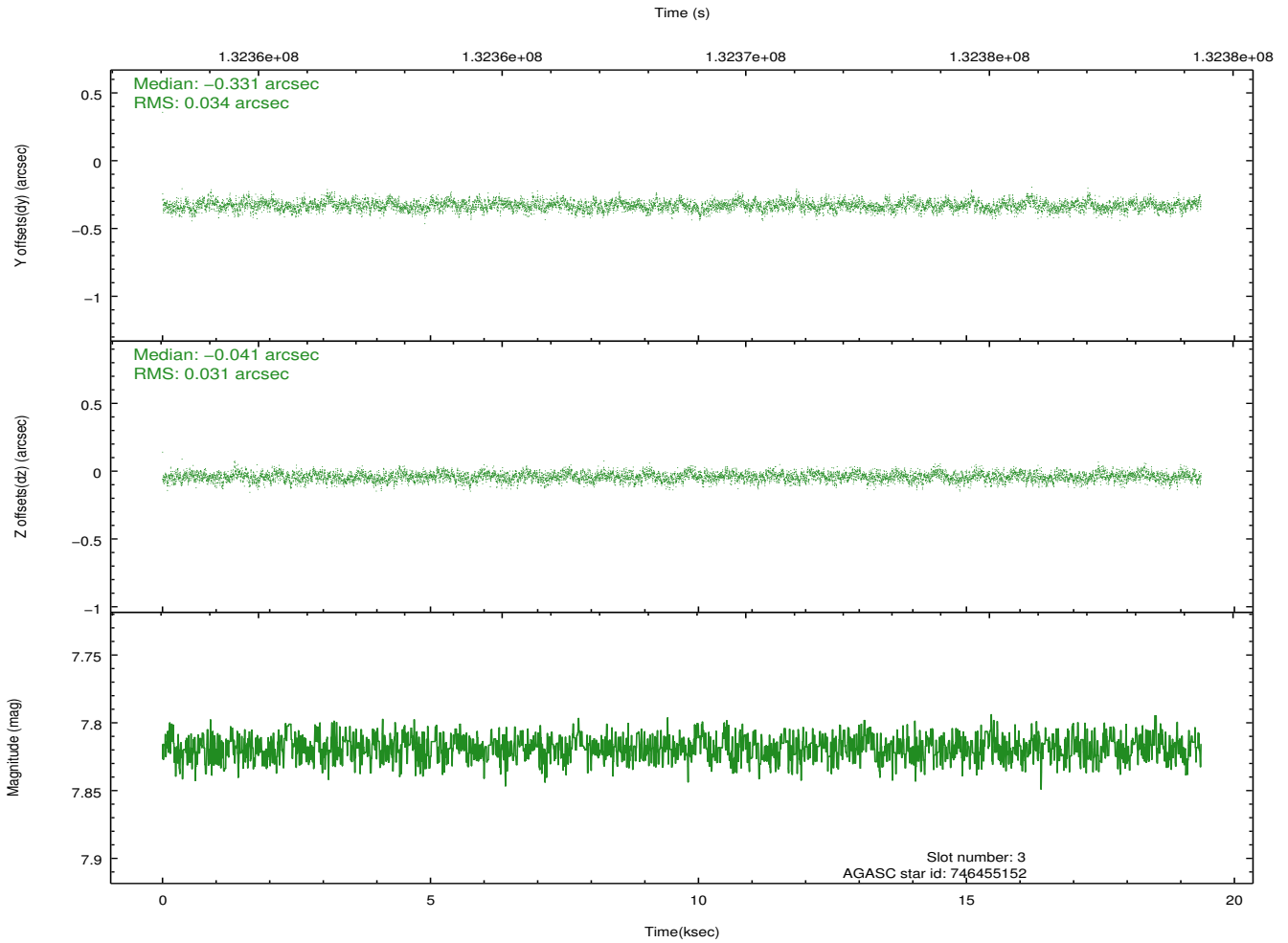
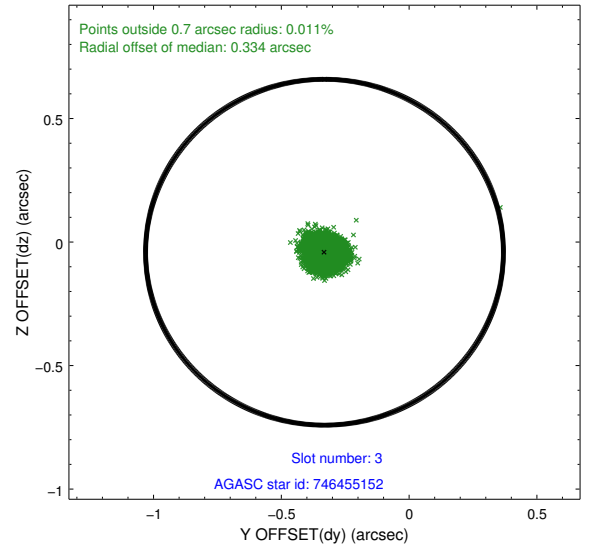
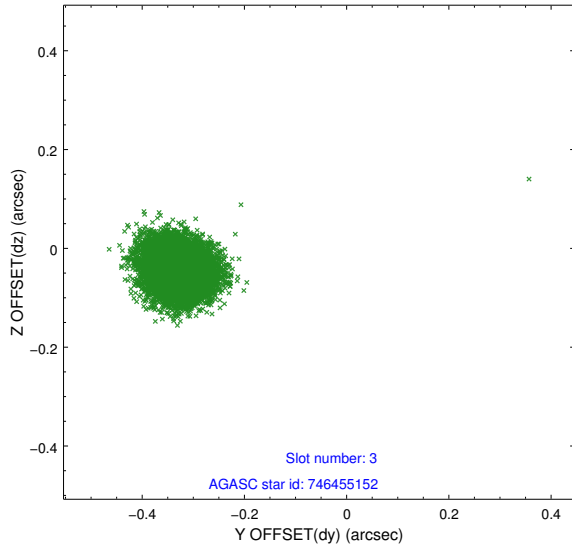


### Slot Statistics

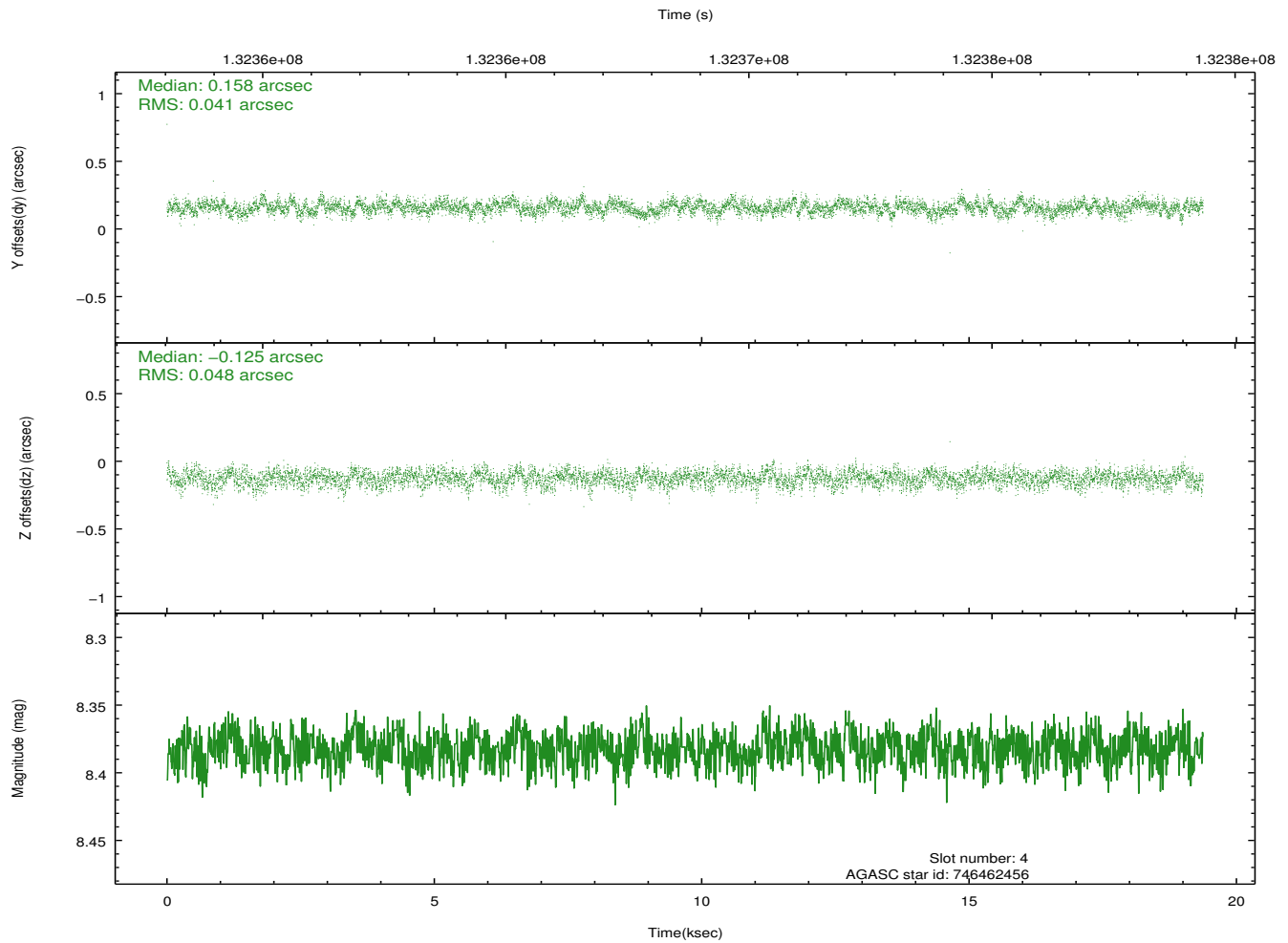
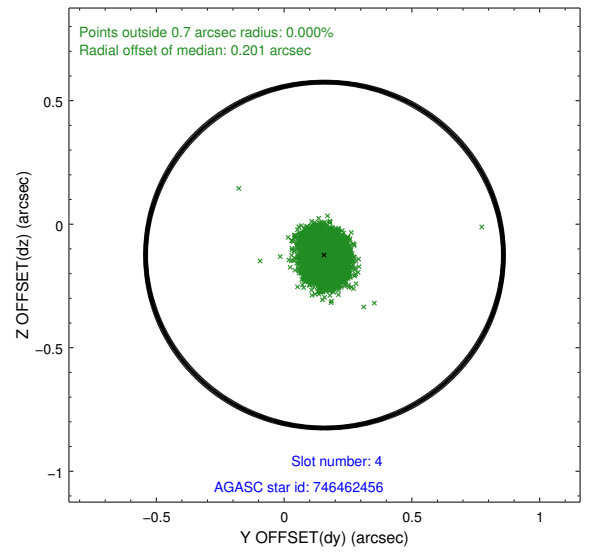
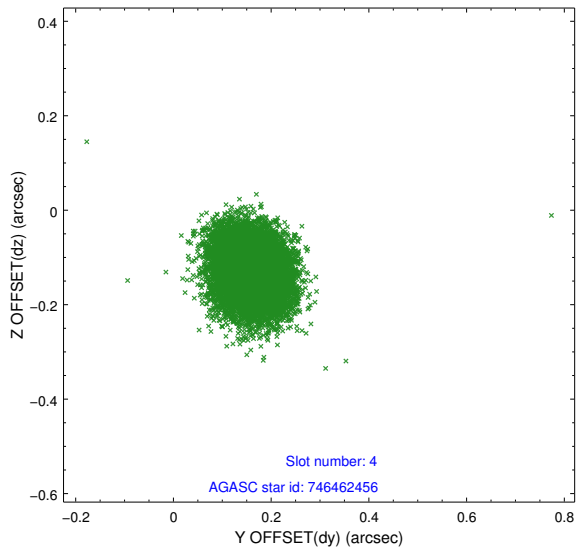
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.97	4726	0.024	0.009	0.007	0.012	0.000000	0.000000	-758.73	-1294.46
1	FID	HRC-I-2	7.01	4725	0.064	-0.049	0.006	0.011	0.000000	0.000000	853.78	-1296.34
2	FID	HRC-I-3	7.05	4726	0.031	-0.050	0.006	0.011	0.000000	0.000000	-1187.07	1009.76
3	GUIDE	746455152	7.82	9453	-0.331	-0.041	0.049	0.079	278.447893	-9.976732	2201.46	-139.92
4	GUIDE	746462456	8.38	9449	0.158	-0.125	0.067	0.108	278.652171	-10.530173	212.73	-872.60
5	GUIDE	746462392	8.54	9448	0.177	0.131	0.085	0.132	279.038421	-10.890715	-1080.82	-2243.44
6	GUIDE	746455112	8.94	9371	0.148	-0.012	0.080	0.131	278.266531	-10.703234	-416.84	488.90
7	GUIDE	746460272	8.92	9451	-0.151	0.051	0.074	0.122	278.847488	-10.152127	1576.08	-1558.84

## 2.4 Star Slots

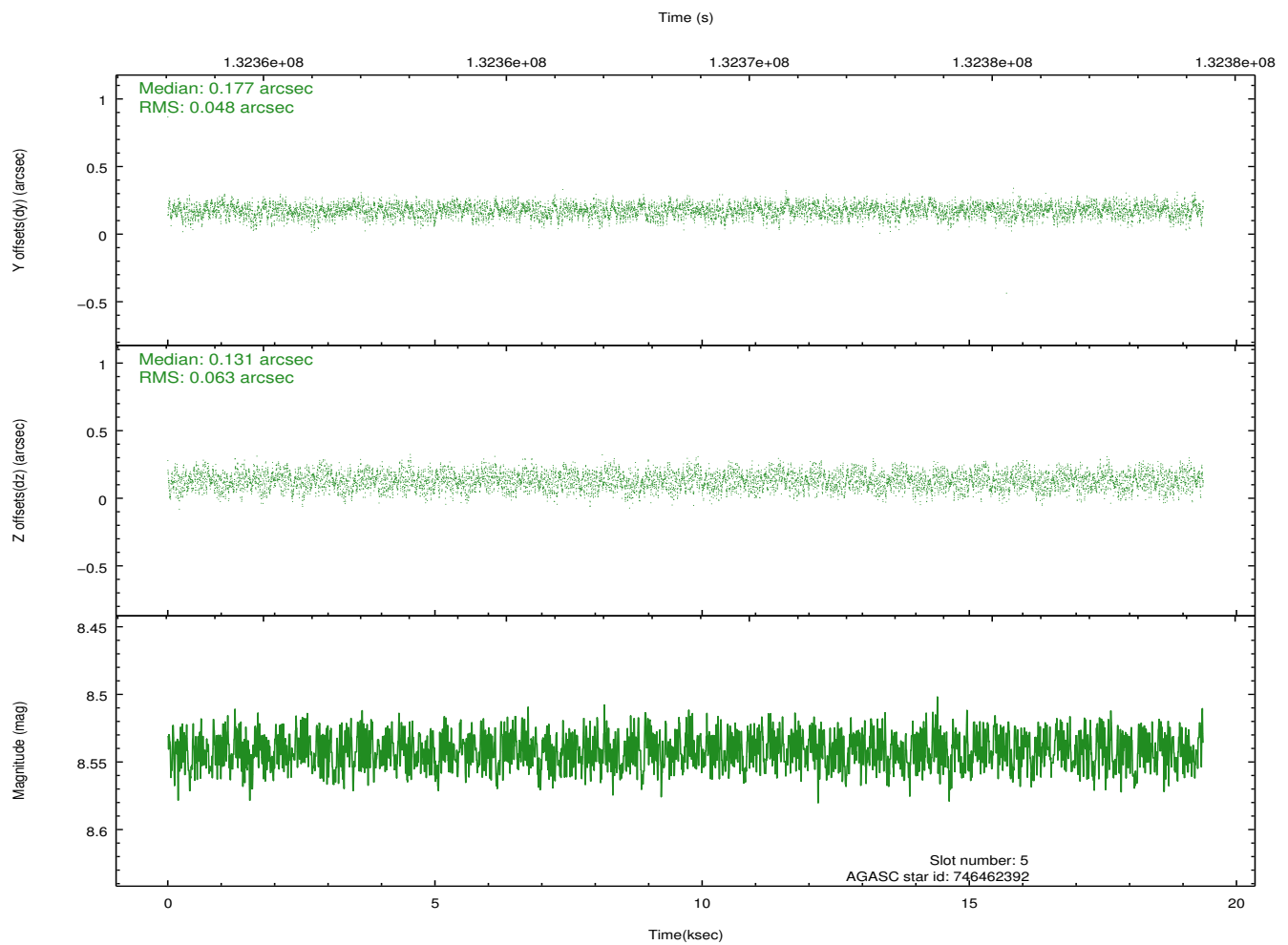
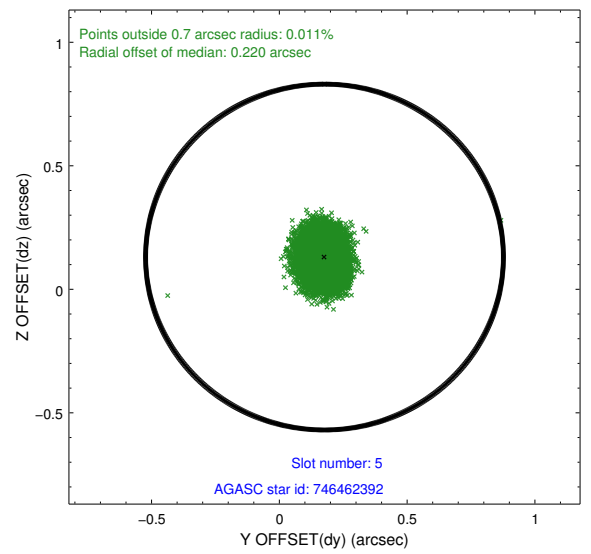
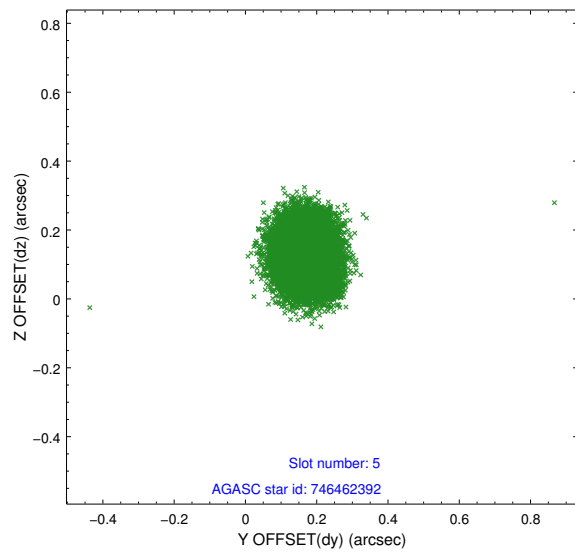
### 2.4.1 Slot 3



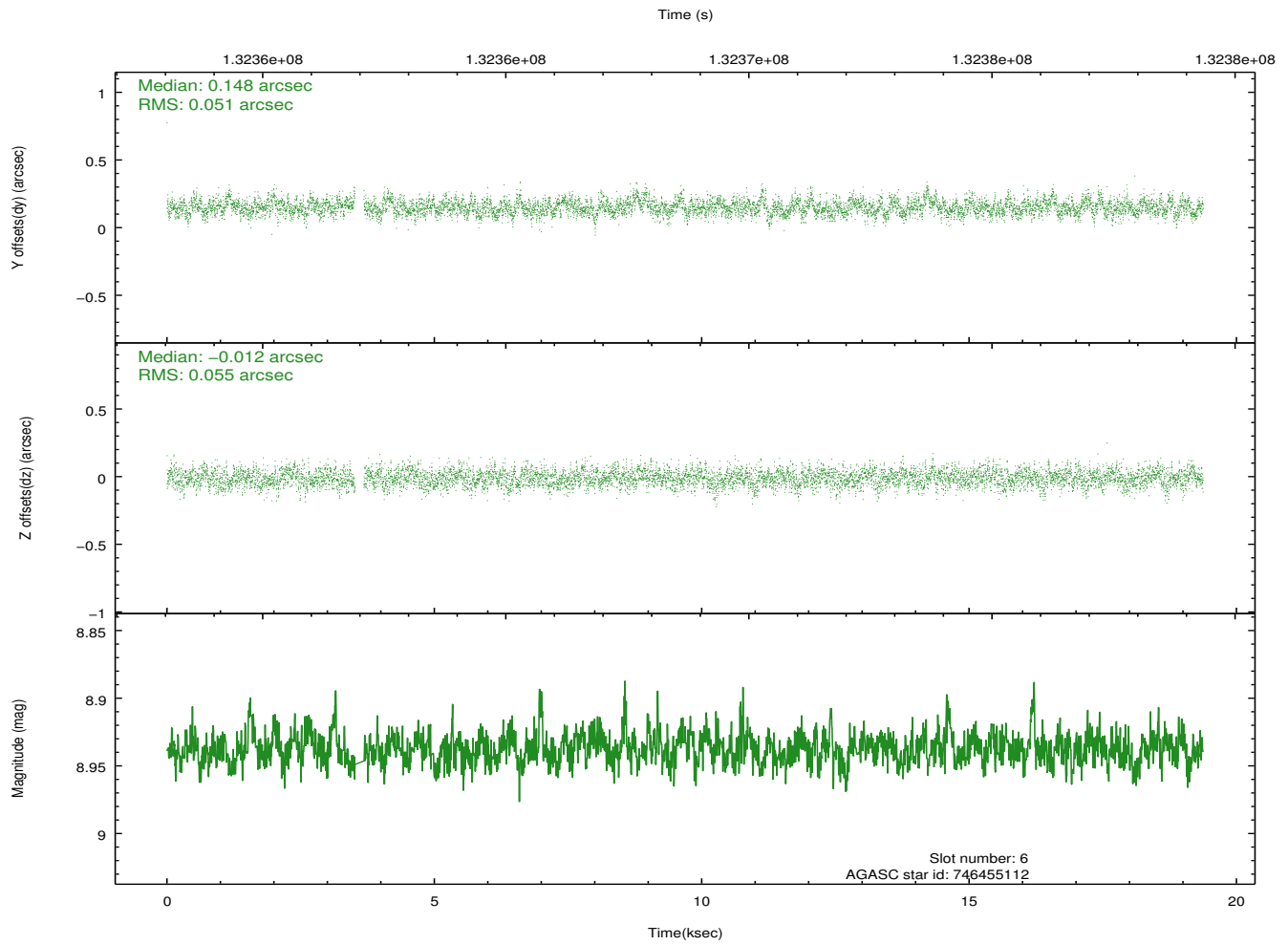
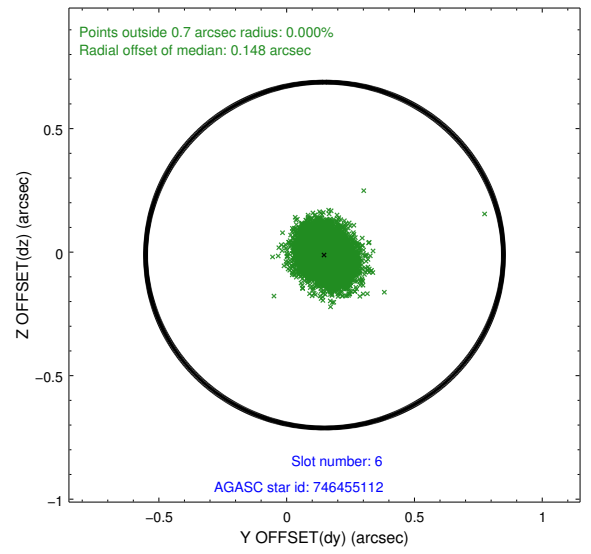
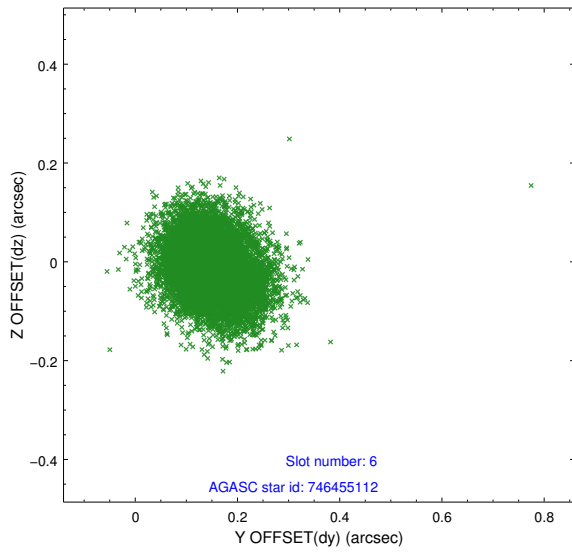
## 2.4.2 Slot 4



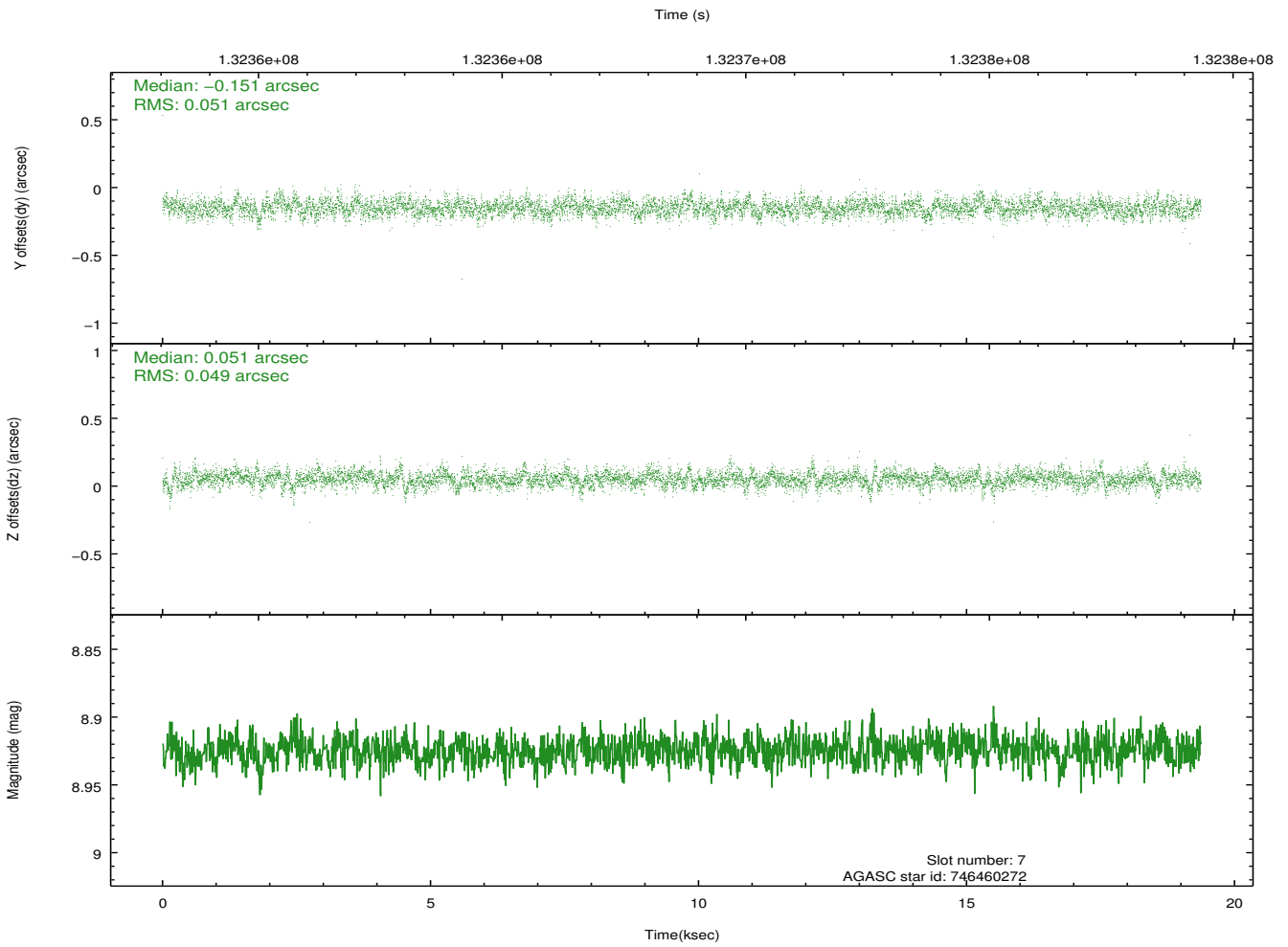
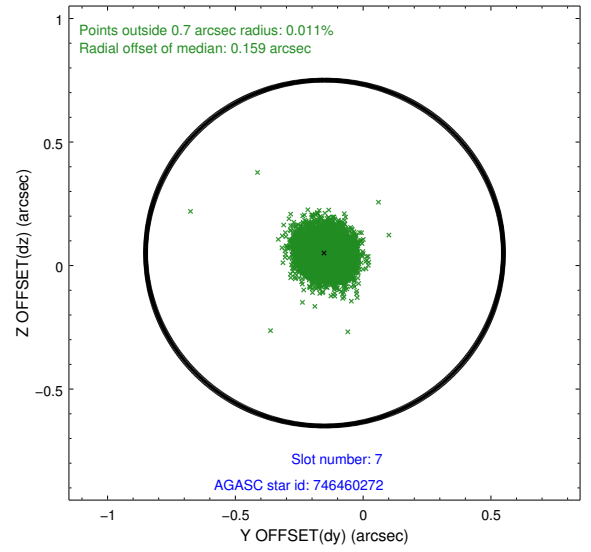
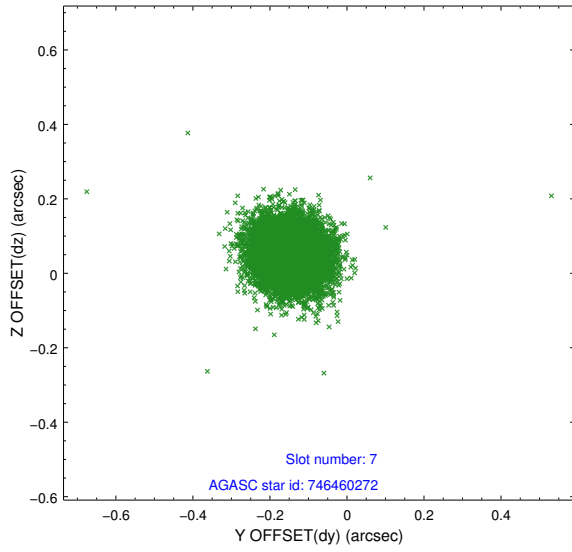
### 2.4.3 Slot 5



## 2.4.4 Slot 6

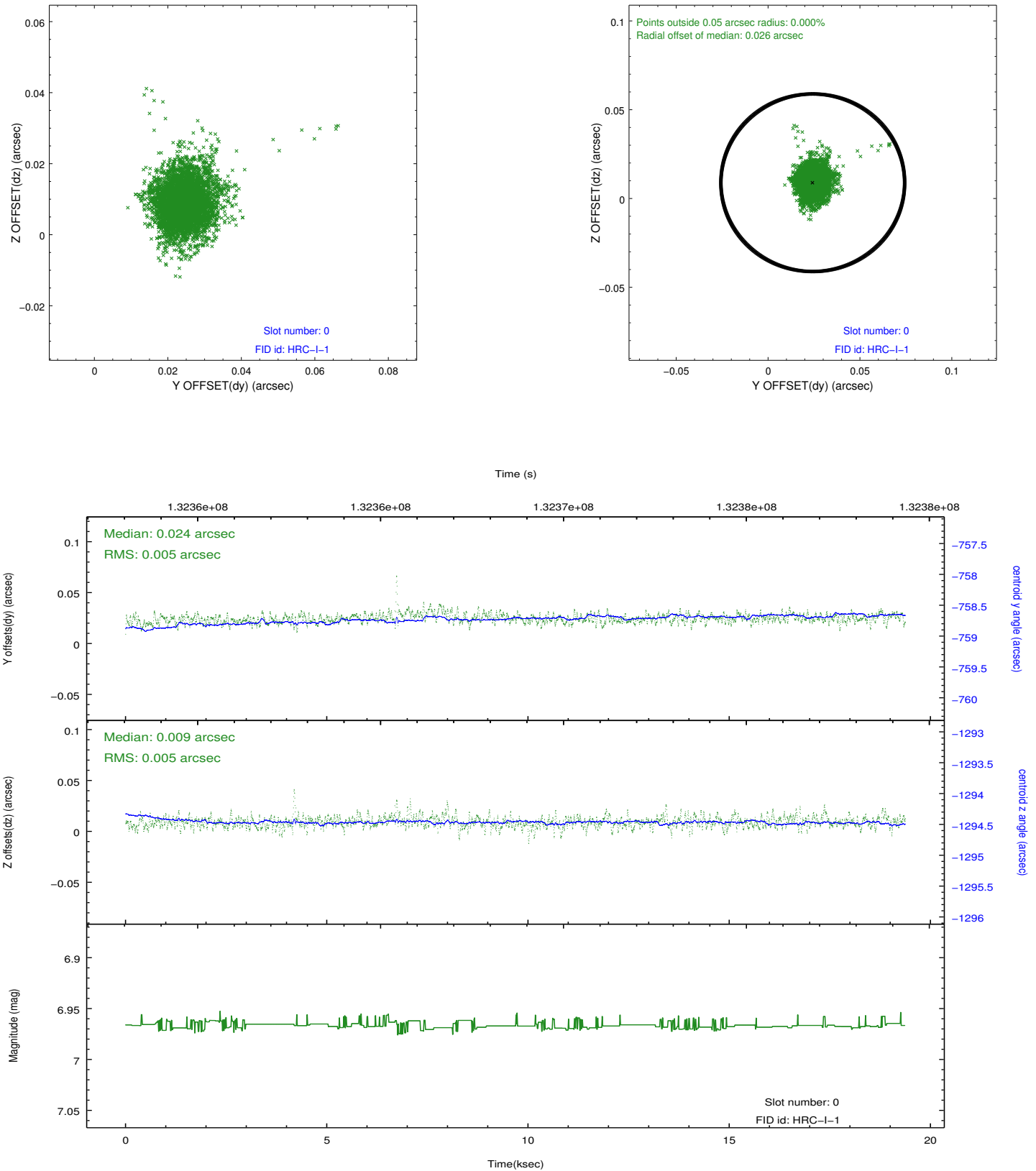


## 2.4.5 Slot 7

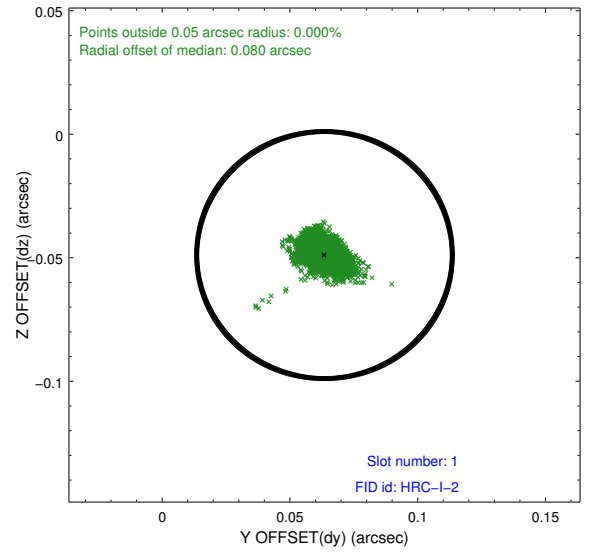
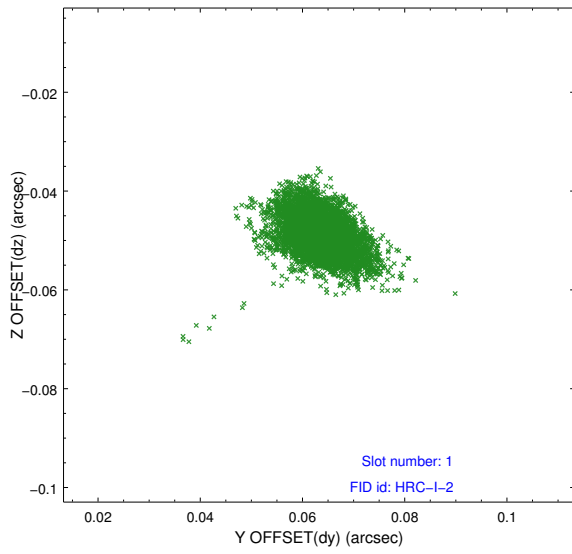


## 2.5 FID Slots

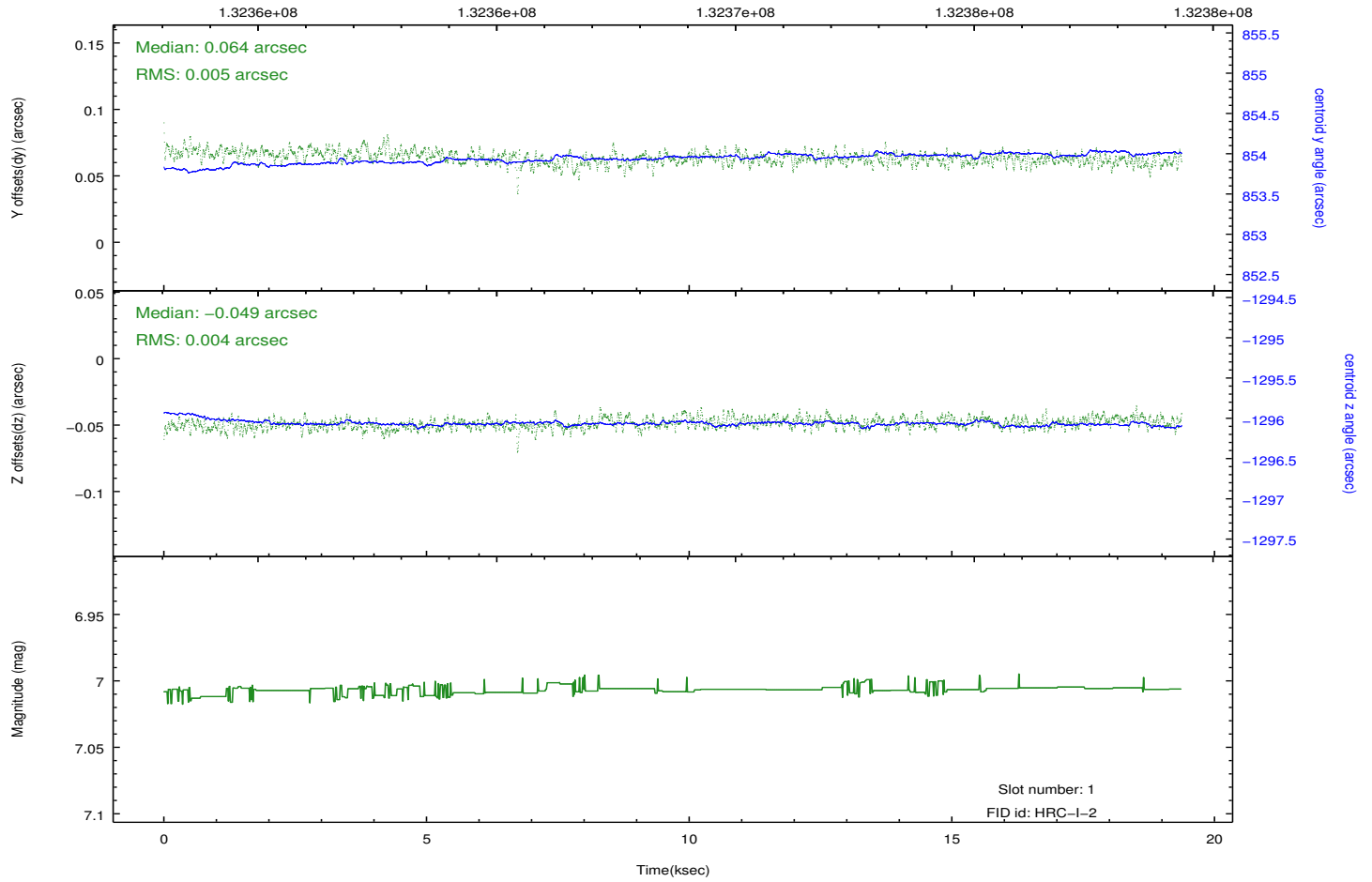
### 2.5.1 Slot 0



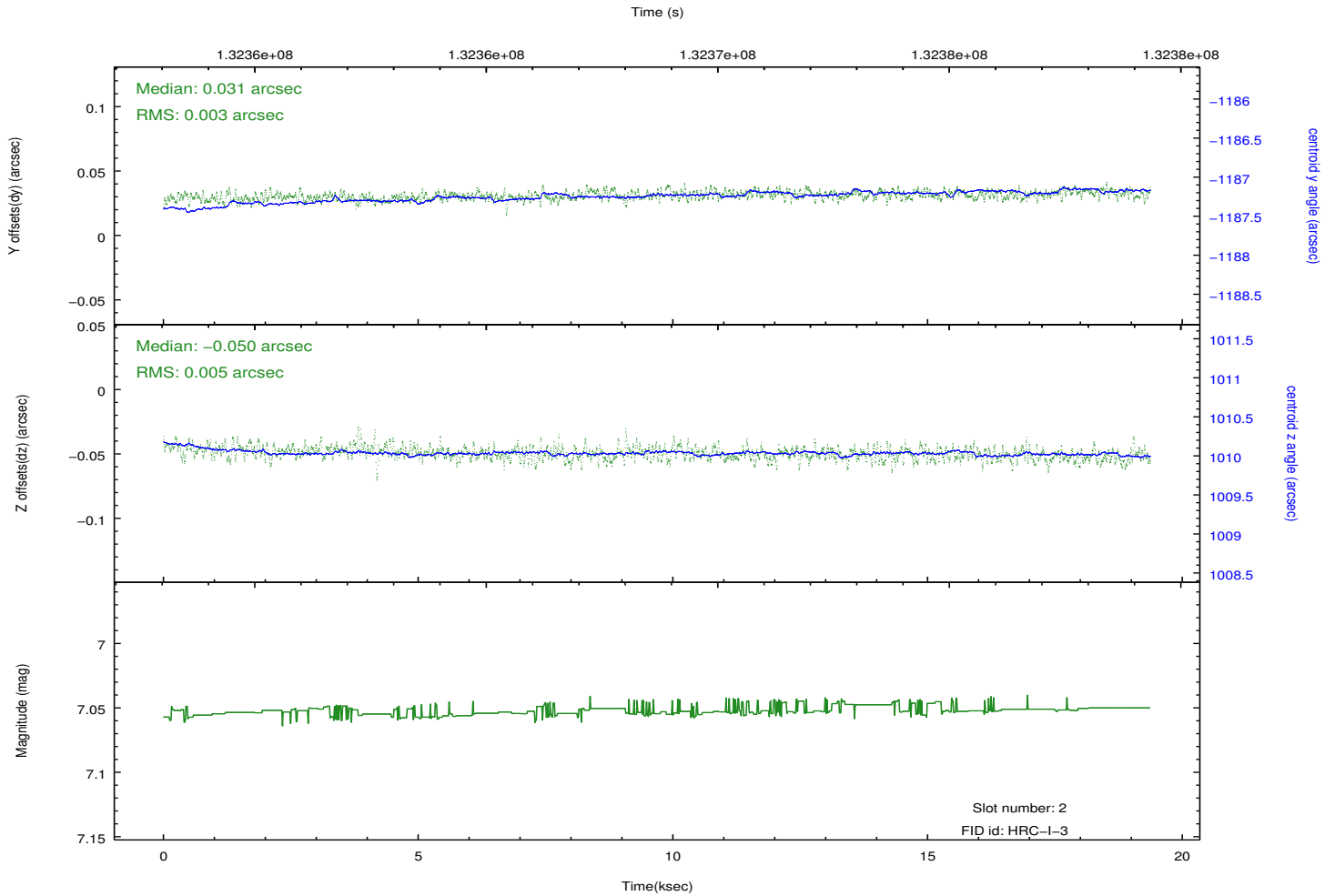
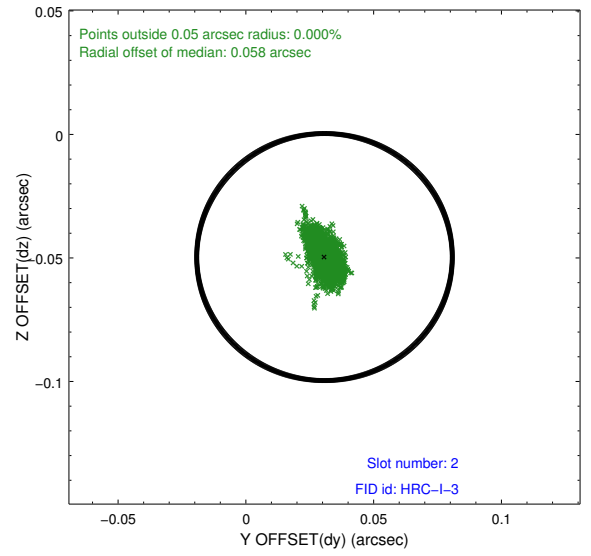
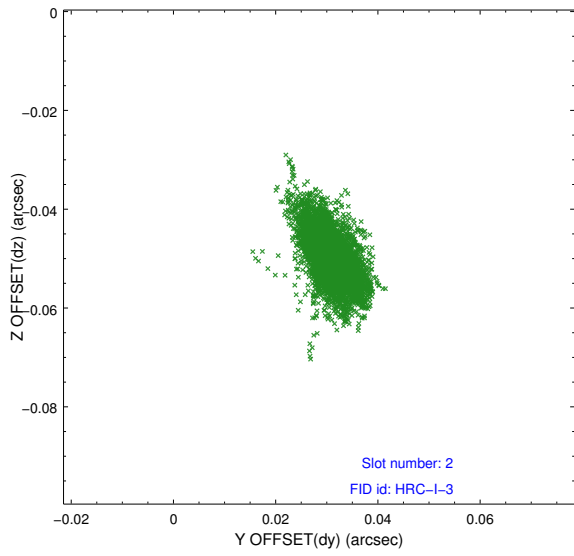
## 2.5.2 Slot 1



Time (s)



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.10.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.182

## A.2 Comments

Window constraint satisfied. There is a small spike in the count rate at ~10 ksec.