

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 5342 - L2 Version 4  
Chandra X-Ray Center

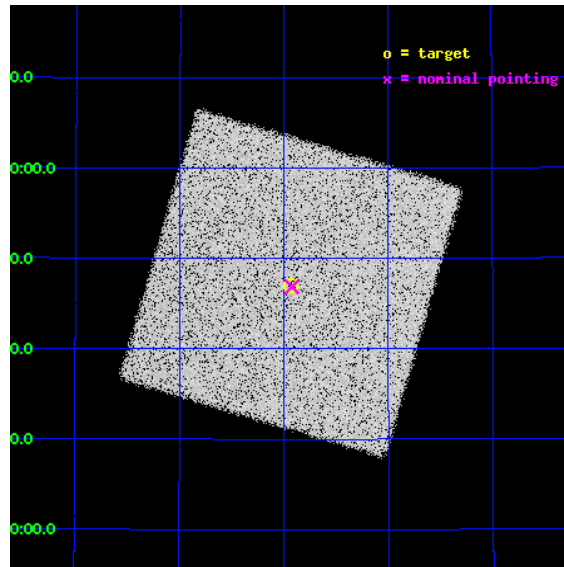
L2 Processing Date : Dec 8 2012

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# 1 Front

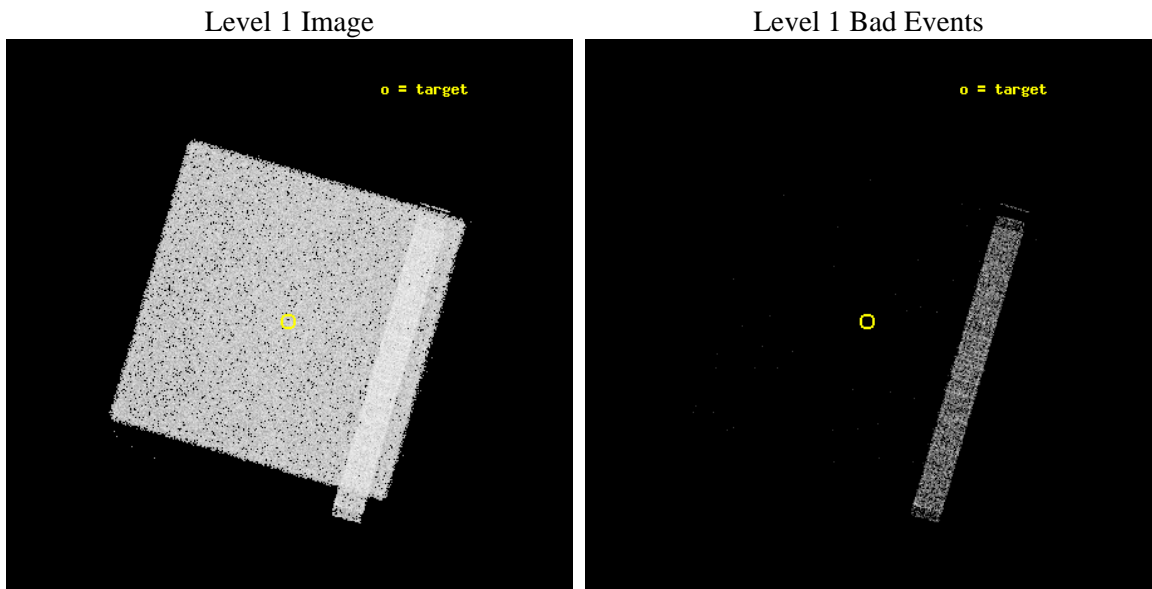
seq_num	290439	Sequence number
obs_id	5342	Observation id
title	Monitoring the health of the HRC UV Ion shield	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	Vega	Source name
ra_targ	279.235	Observer's specified target RA [deg]
dec_targ	38.783778	Observer's specified target Dec [deg]
ra_nom	279.23093558551	Nominal RA [deg]
dec_nom	38.781278116592	Nominal Dec [deg]
roll_nom	241.38268571756	Nominal Roll [deg]
revision	4	Processing version of data
ontime	3160.3313908577	[s]
livetime	3139.3230326723	Ontime multiplied by DTCOR
l2events	108947	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	2	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	3160.3313908577	[s]
caldbver	4.5.4	&#160	l1events	233534	Number of level 1 events
date	2012-12-08T07:24:14	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

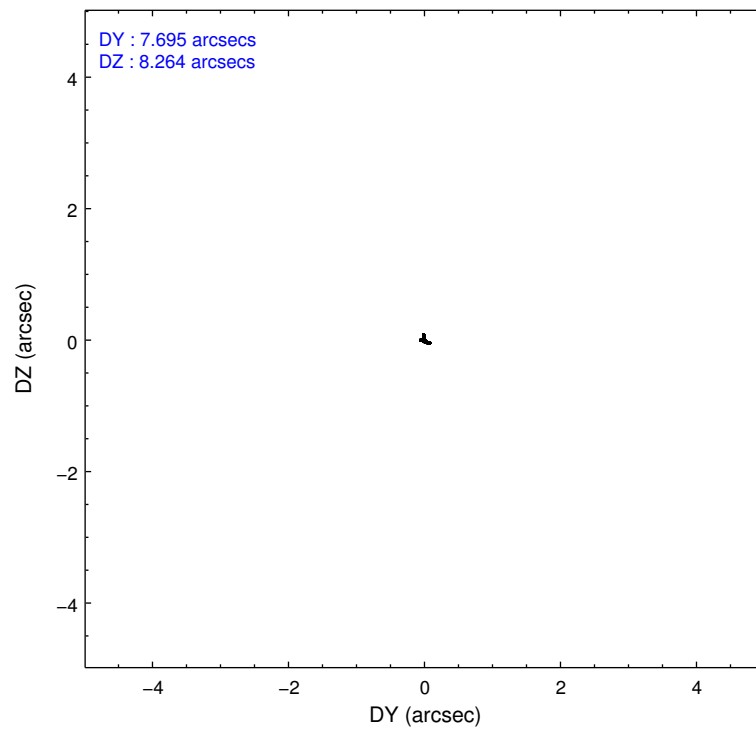
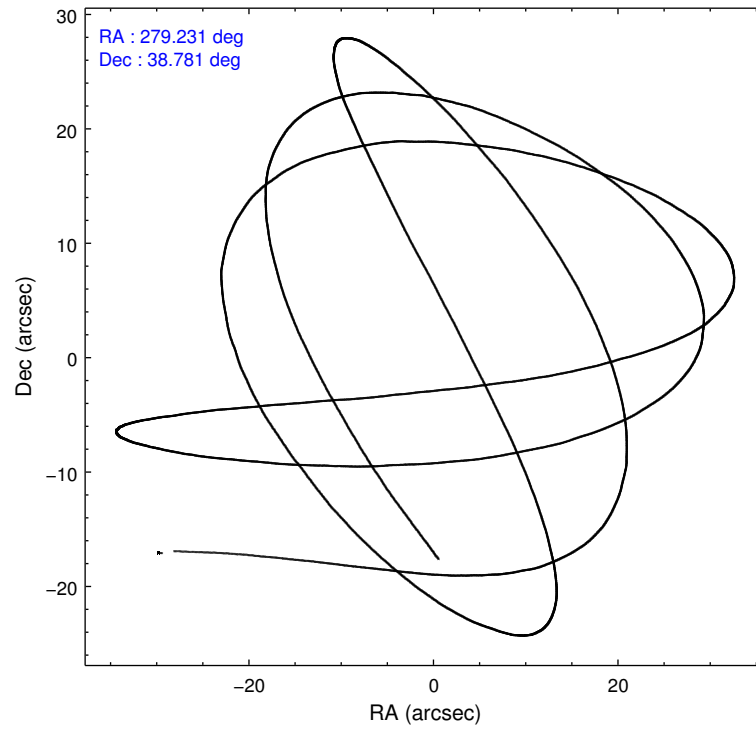
#### Level 1 Events

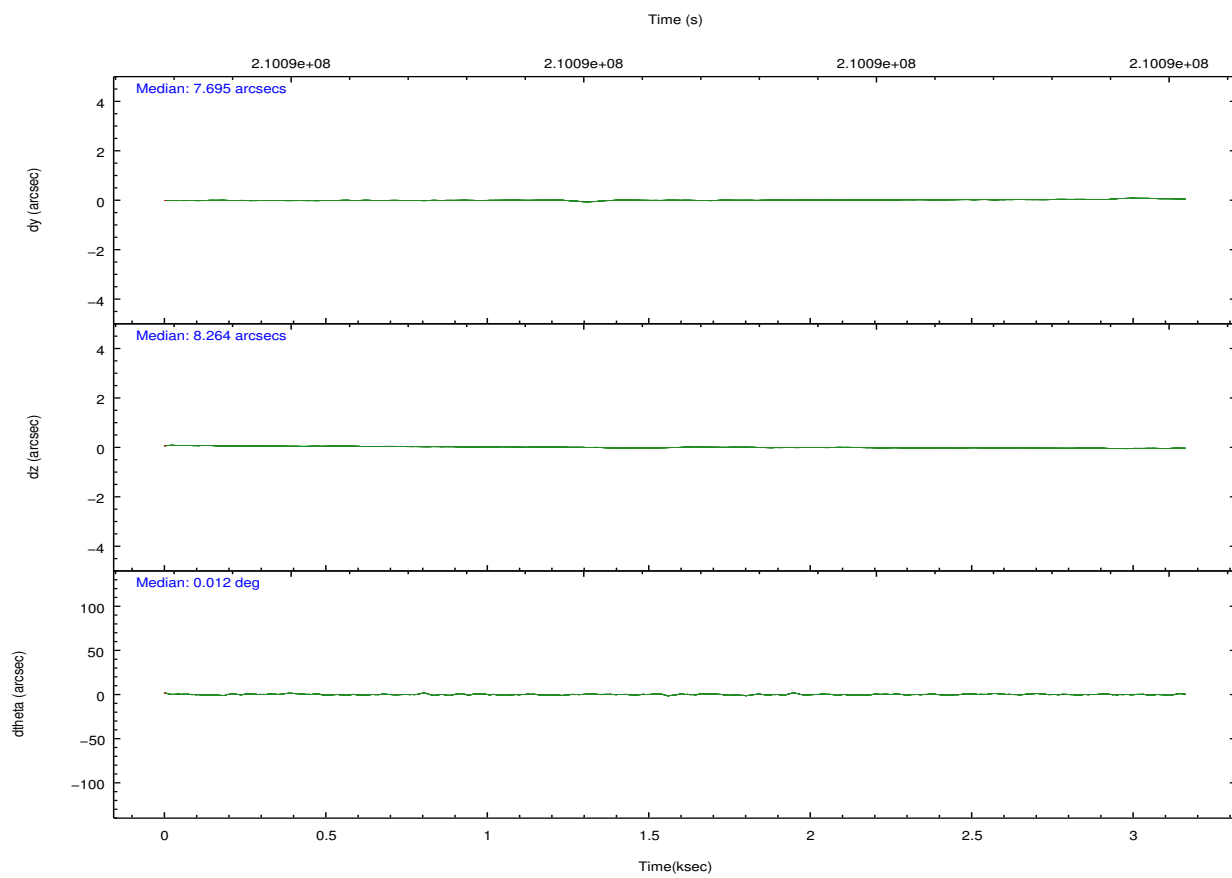
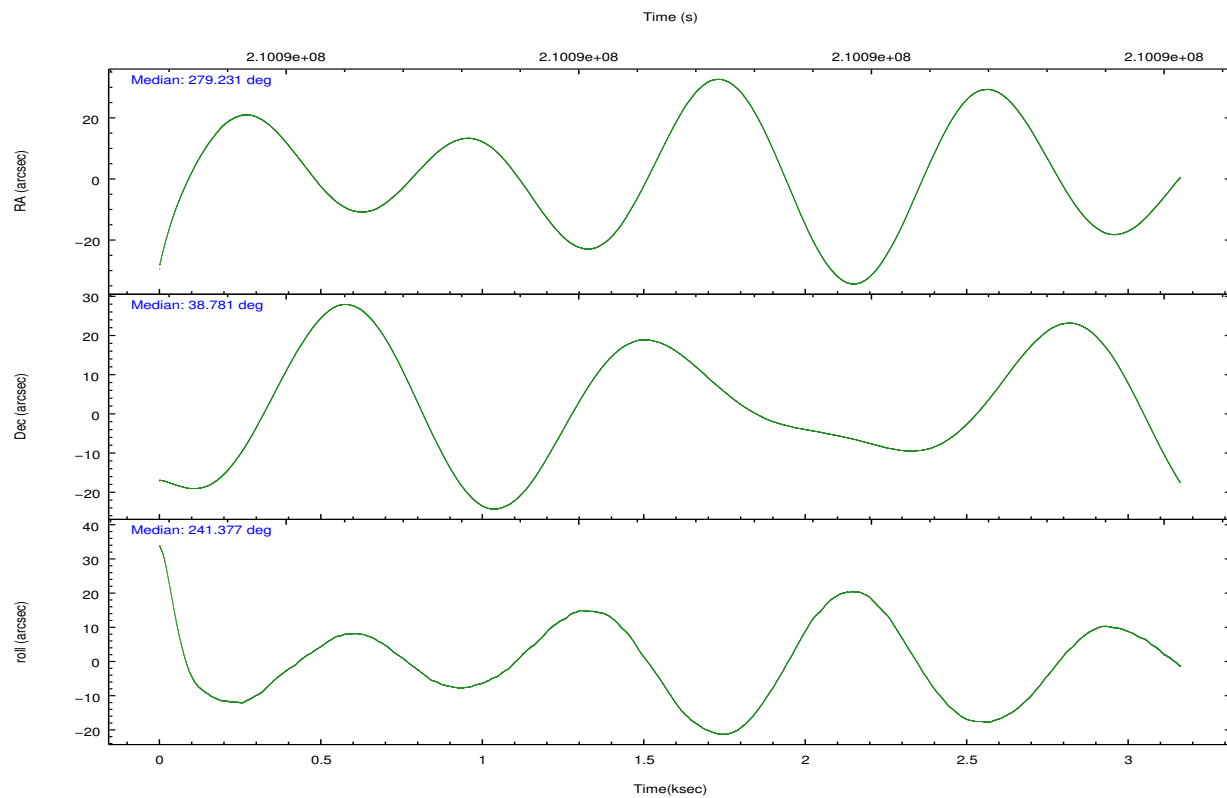
	<b>segment 0</b>
level 1 events	233534
rejected events	70599
rejected %	30%

## 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	279.229185	279.2309355855114			
[deg] Pointing Dec	38.808254	38.7812781165916			
[deg] Pointing Roll	241.479186	241.3826857175592			
[s] Window start time (MET)	207705664.184000	207705664.184000			
[s] Window stop time (MET)	210384004.184000	210384004.184000			
[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)	210089891.184000	210088814.28891			
Observation start date	2004-08-28T14:17:07	2004-08-28T14:00:14			
[s] Observation end time (MET)	210092891.184000	210093907.51413			
Observation end date	2004-08-28T15:07:07	2004-08-28T15:25:07			

## 2.3 Aspect



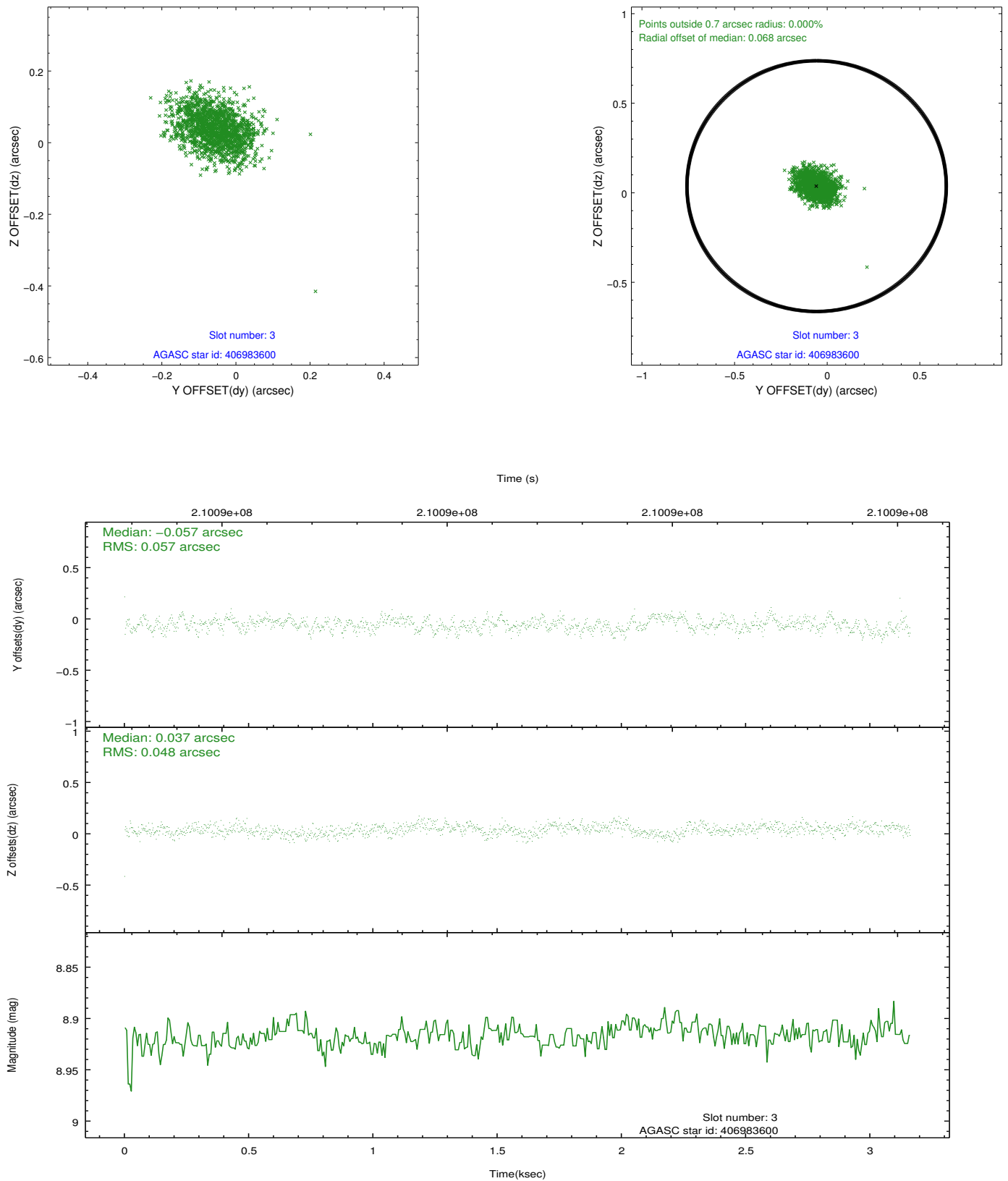


### Slot Statistics

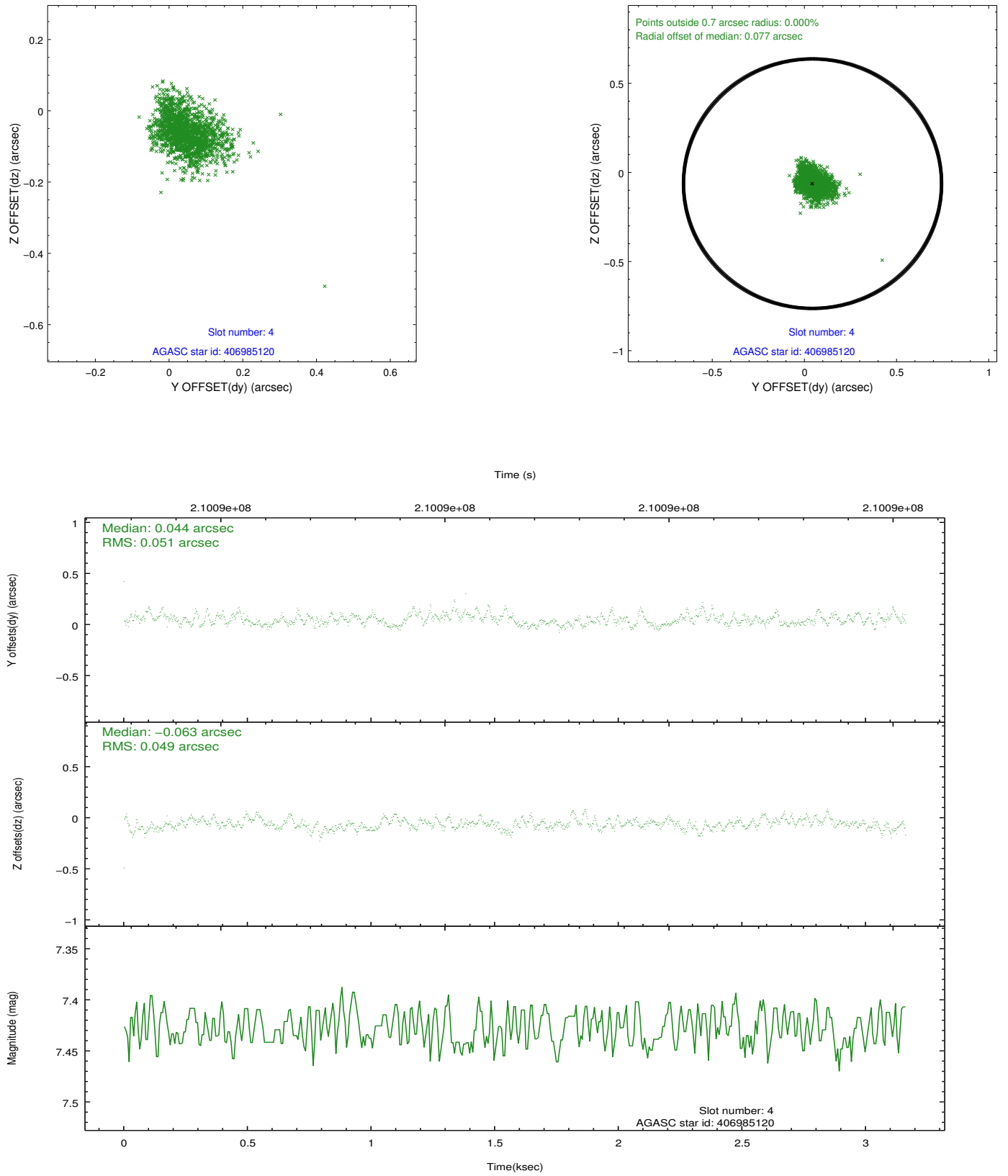
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.98	772	-0.007	0.015	0.006	0.010	0.000000	0.000000	-763.40	-1296.08
1	FID	HRC-I-2	7.01	772	0.120	-0.078	0.007	0.012	0.000000	0.000000	848.37	-1299.53
2	FID	HRC-I-4	7.00	772	0.004	-0.030	0.005	0.010	0.000000	0.000000	1280.65	1004.22
3	GUIDE	406983600	8.92	1543	-0.057	0.037	0.080	0.126	279.940957	39.020708	-1628.58	1380.90
4	GUIDE	406985120	7.43	1543	0.044	-0.063	0.072	0.123	278.839732	38.894839	245.07	-1107.69
5	GUIDE	406989616	8.22	1542	0.041	-0.037	0.074	0.118	279.202881	38.520843	945.50	428.44
6	GUIDE	406990192	9.00	1542	0.145	0.092	0.082	0.138	278.510952	38.533654	1829.15	-1308.22
7	GUIDE	407510432	8.13	1542	-0.176	-0.034	0.085	0.135	278.762778	39.530640	-1667.49	-2382.14

## 2.4 Star Slots

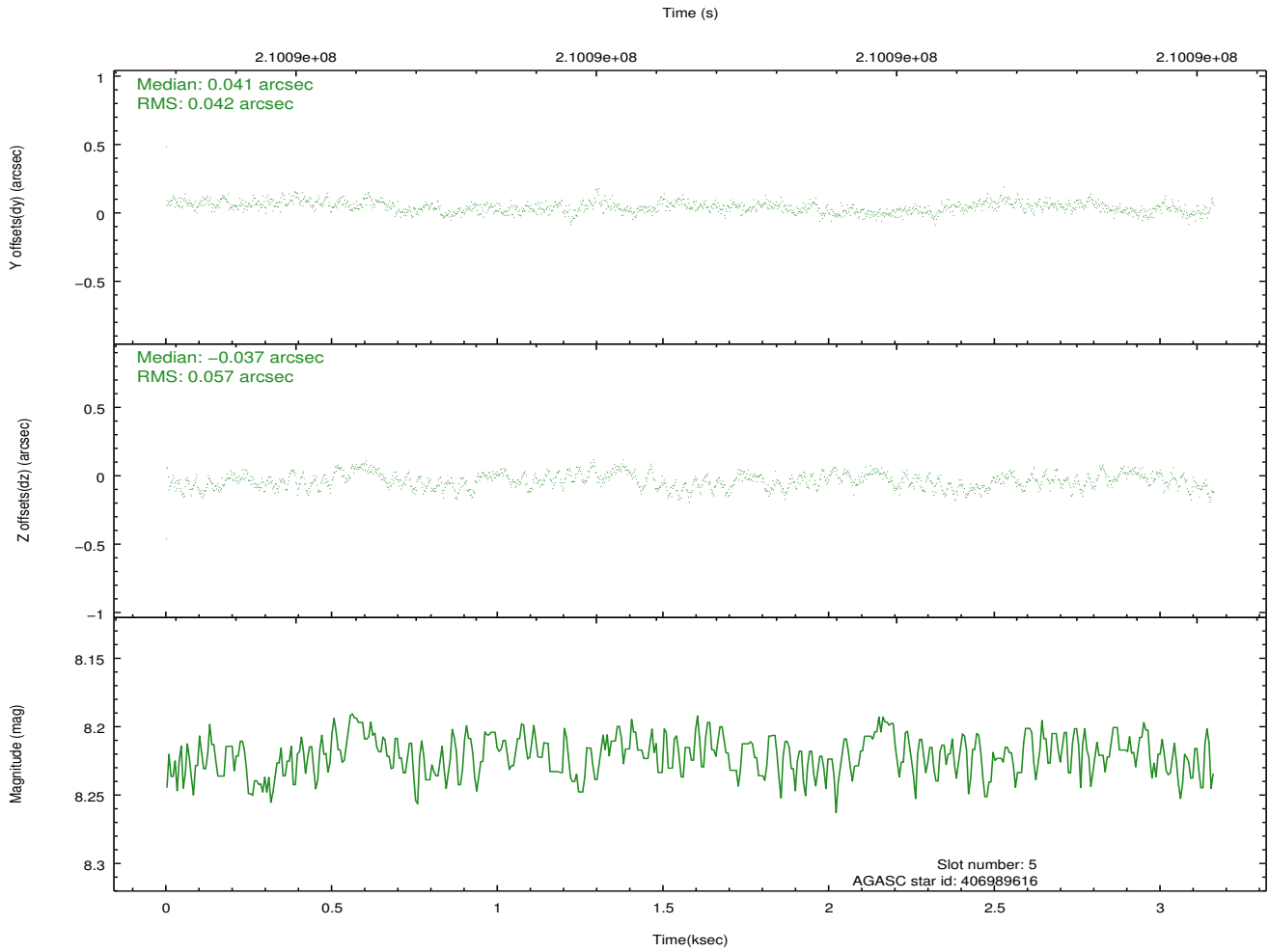
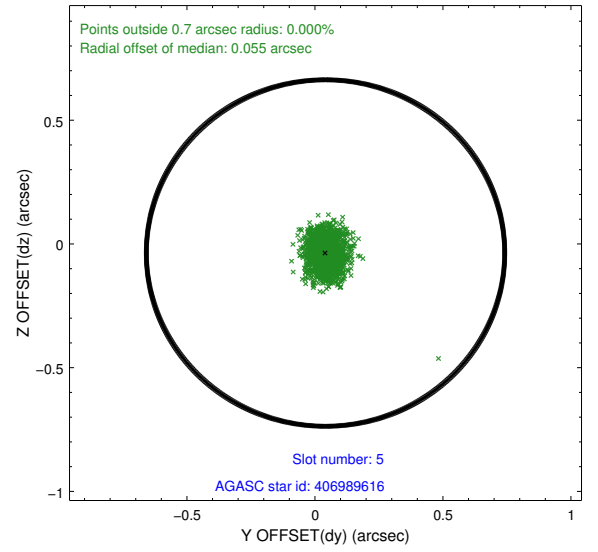
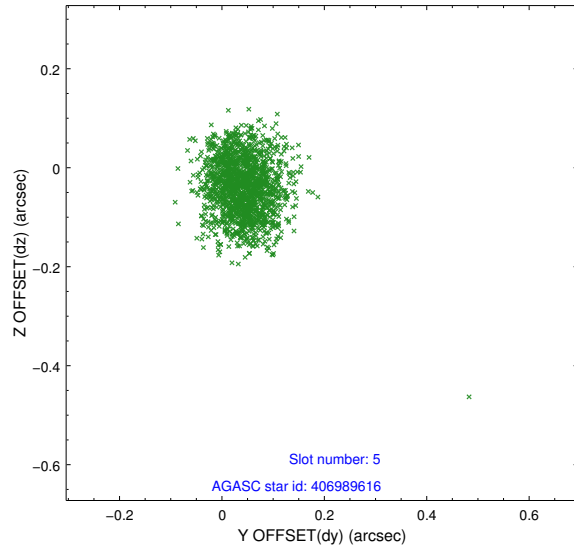
### 2.4.1 Slot 3



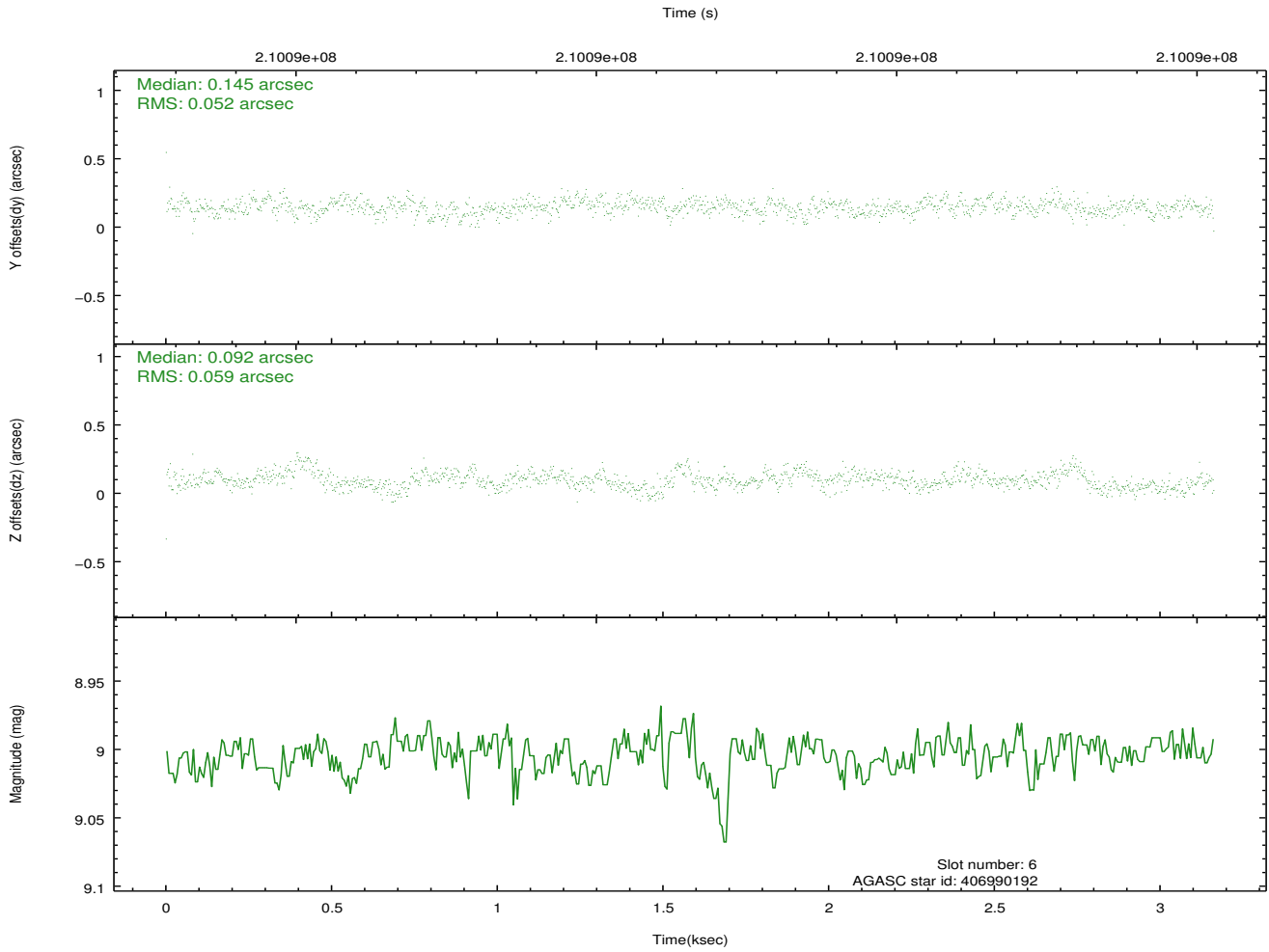
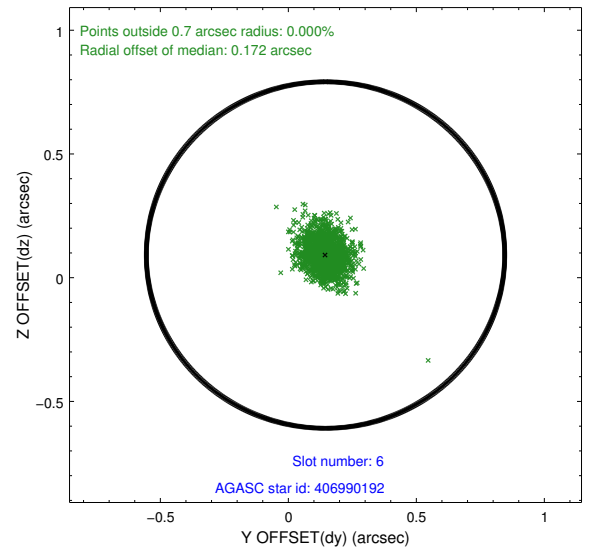
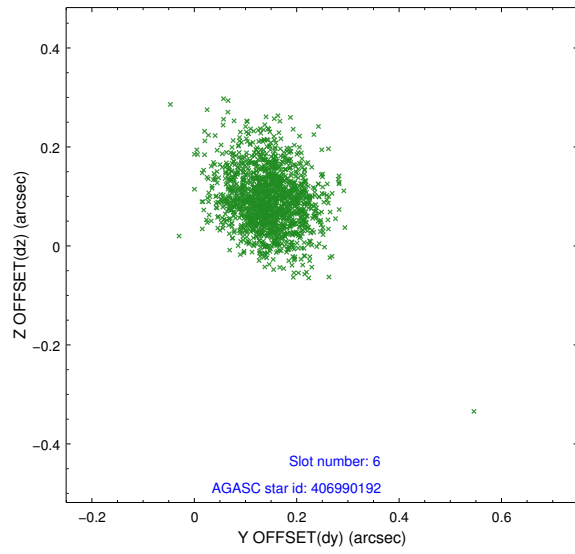
## 2.4.2 Slot 4



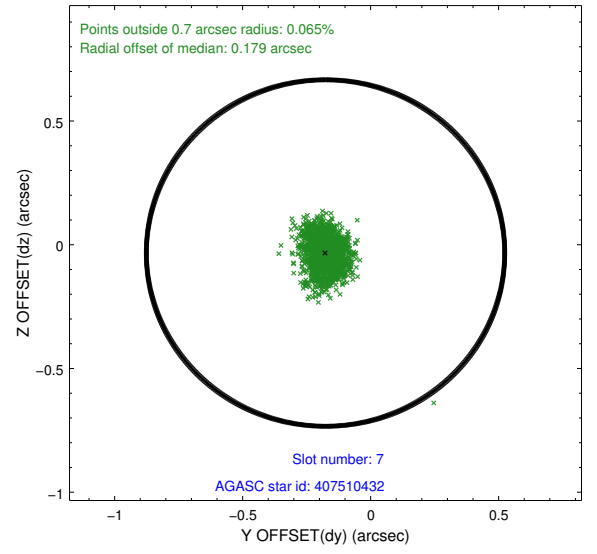
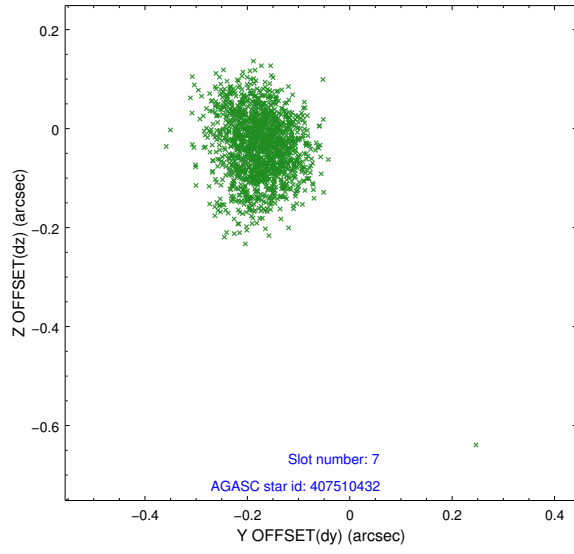
### 2.4.3 Slot 5



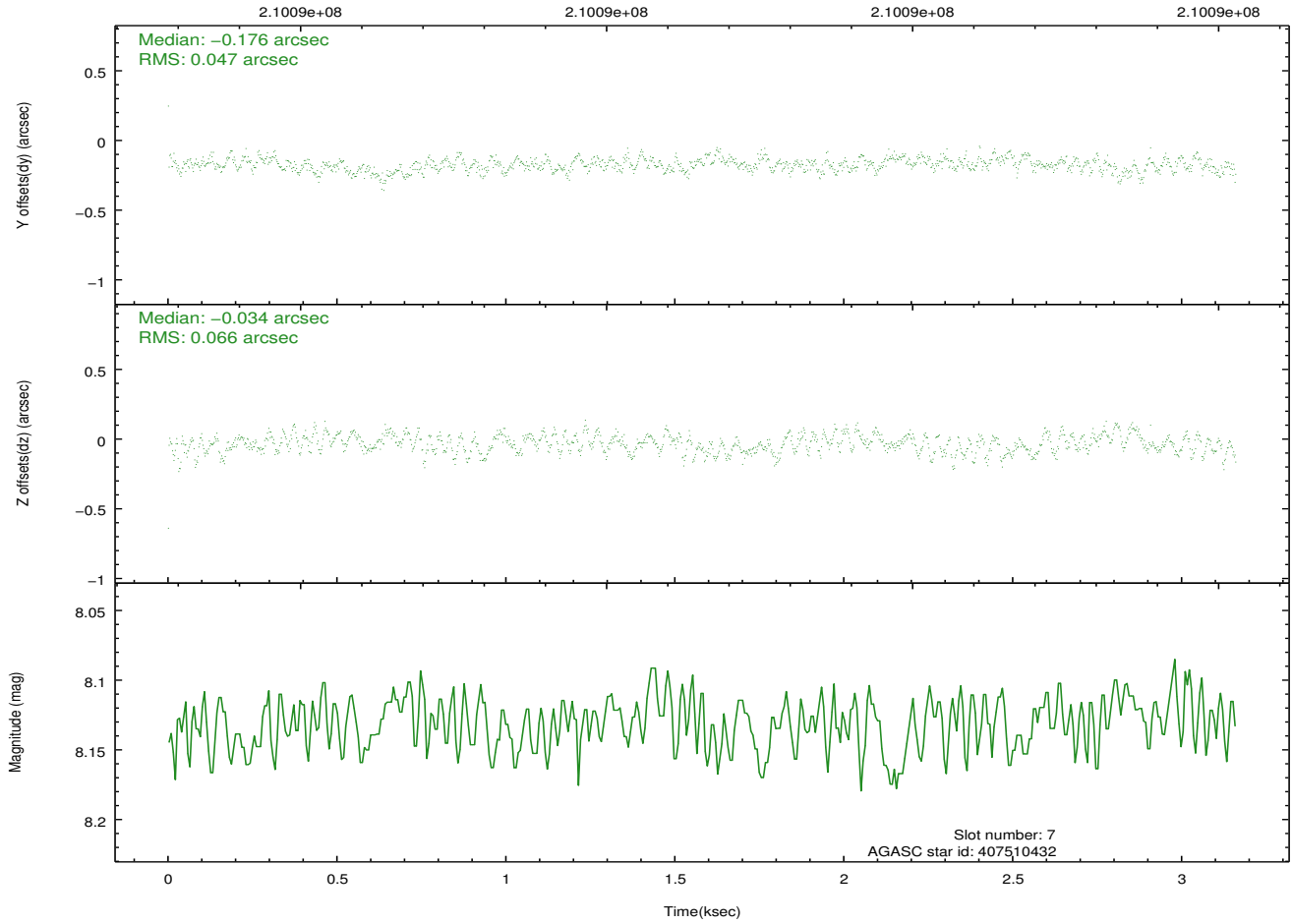
## 2.4.4 Slot 6



## 2.4.5 Slot 7

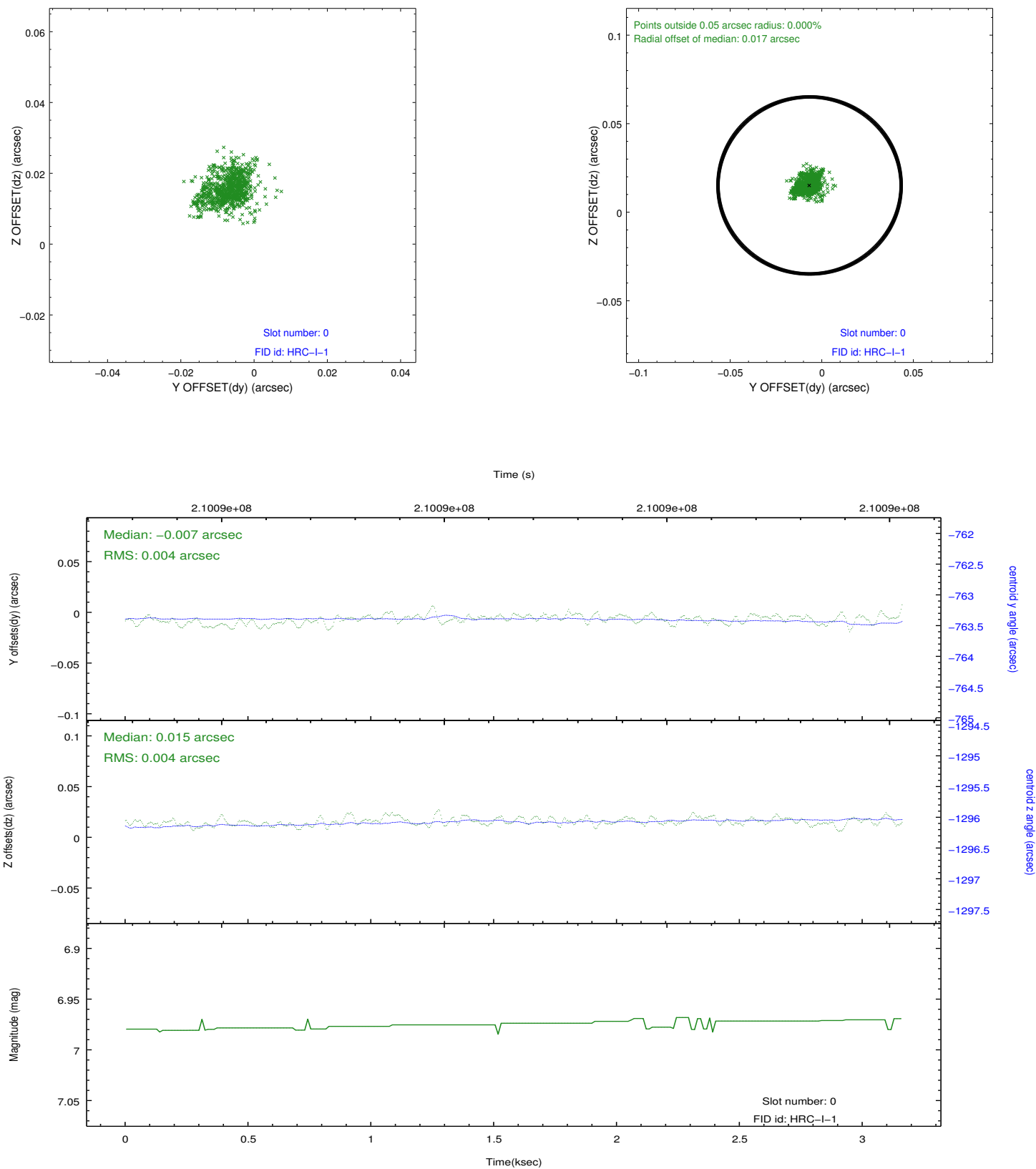


Time (s)

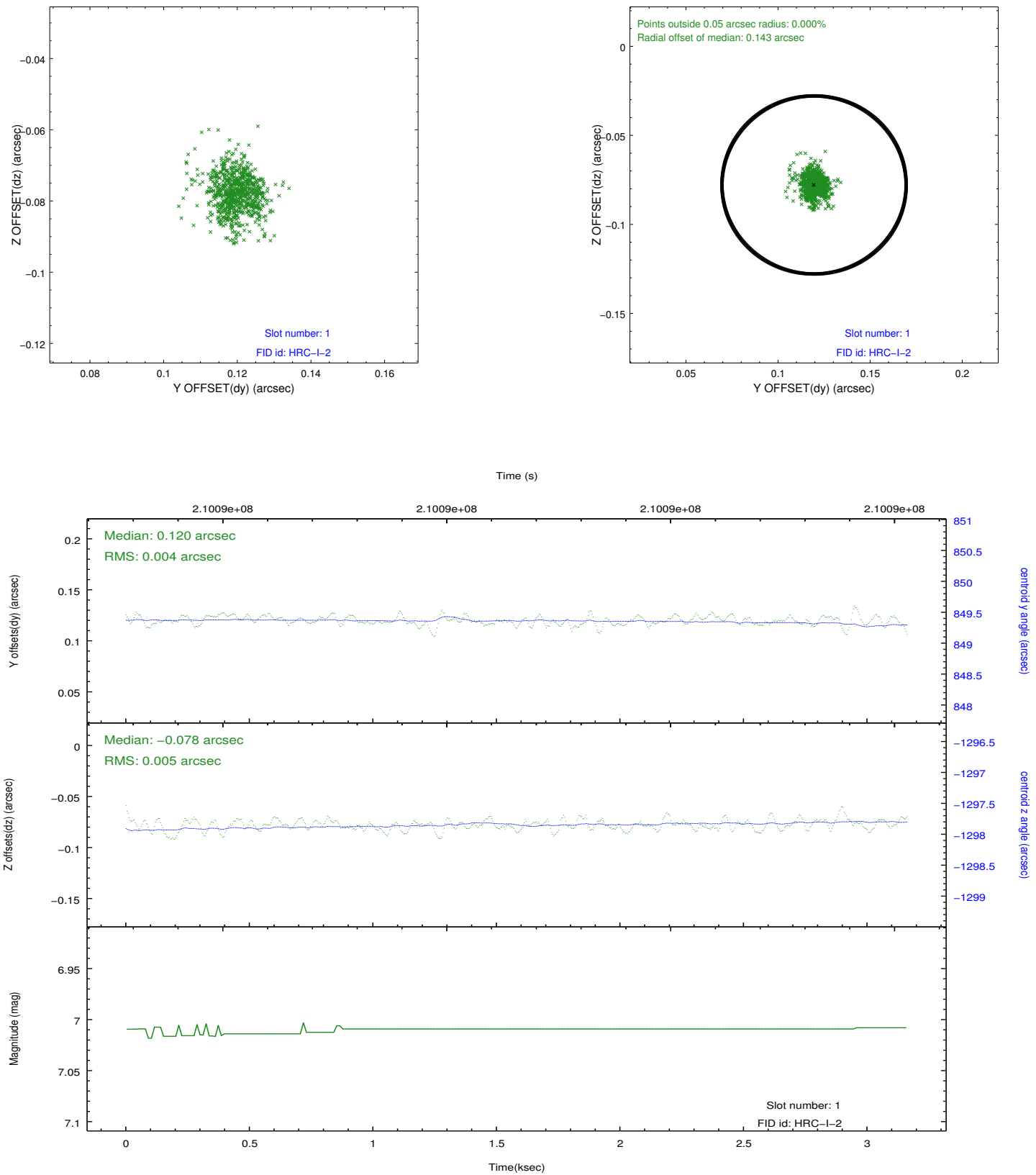


## 2.5 FID Slots

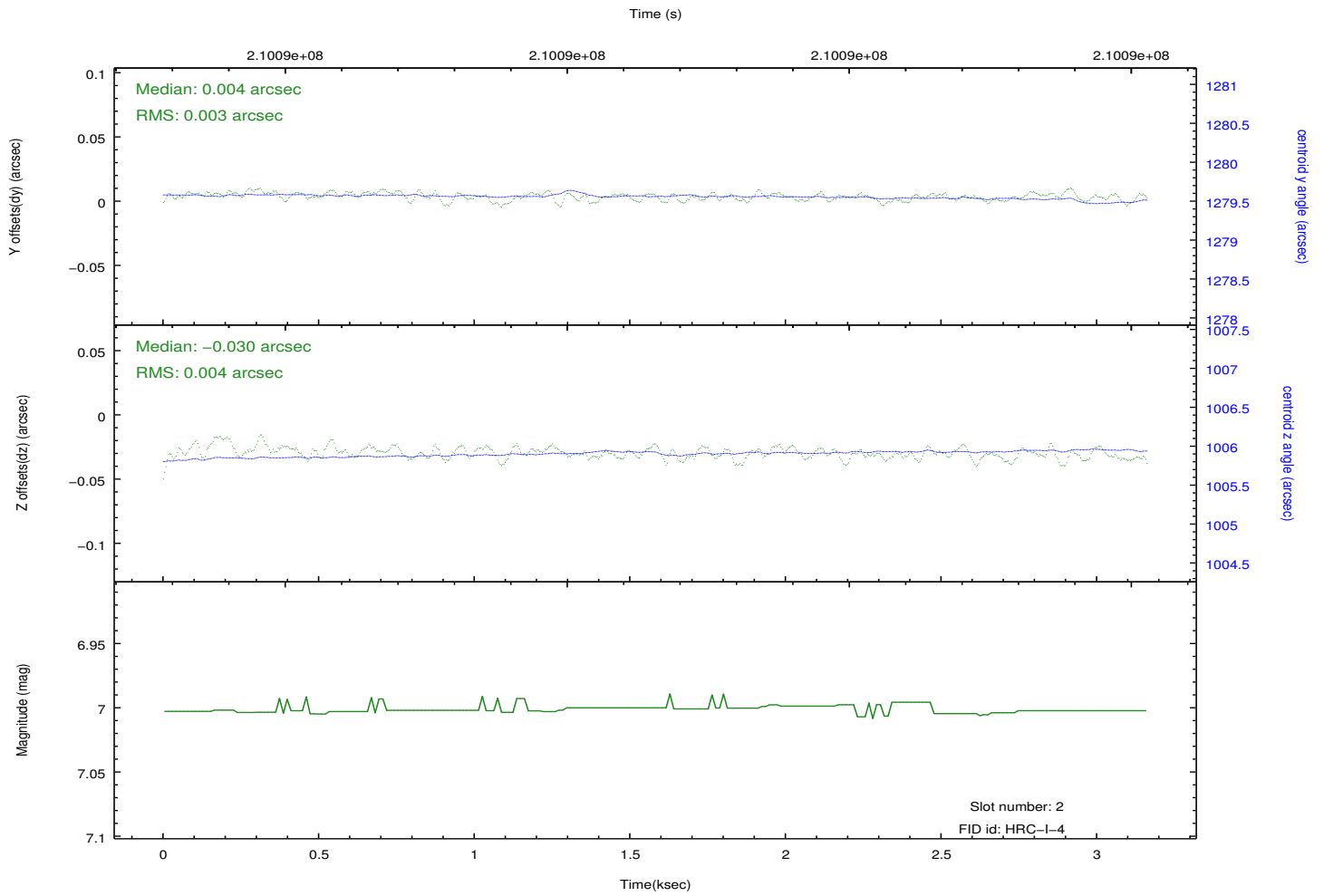
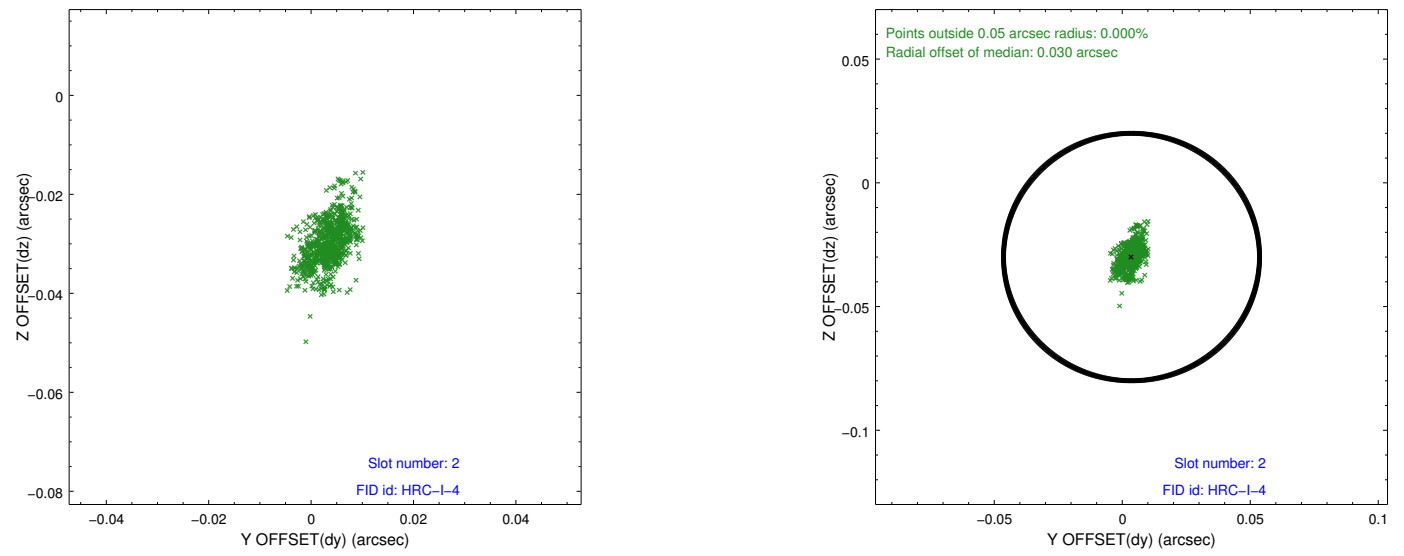
### 2.5.1 Slot 0



## 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)	2012.12.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.16

### A.2 Comments

Window constraint met.