

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 4286 - L2 Version 4  
Chandra X-Ray Center

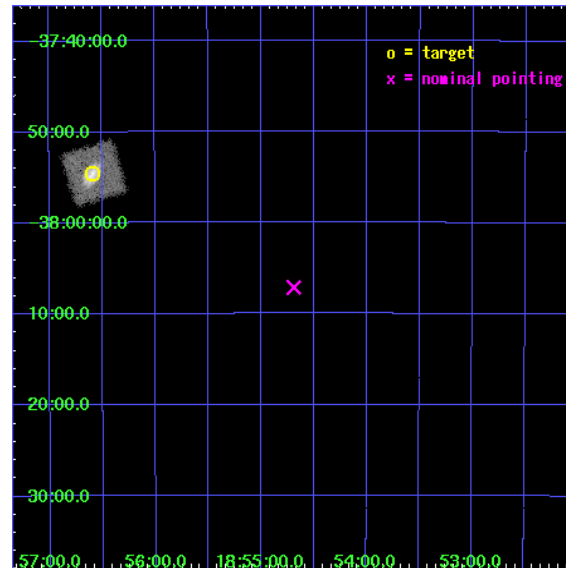
L2 Processing Date : Nov 21 2007

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# 1 Front

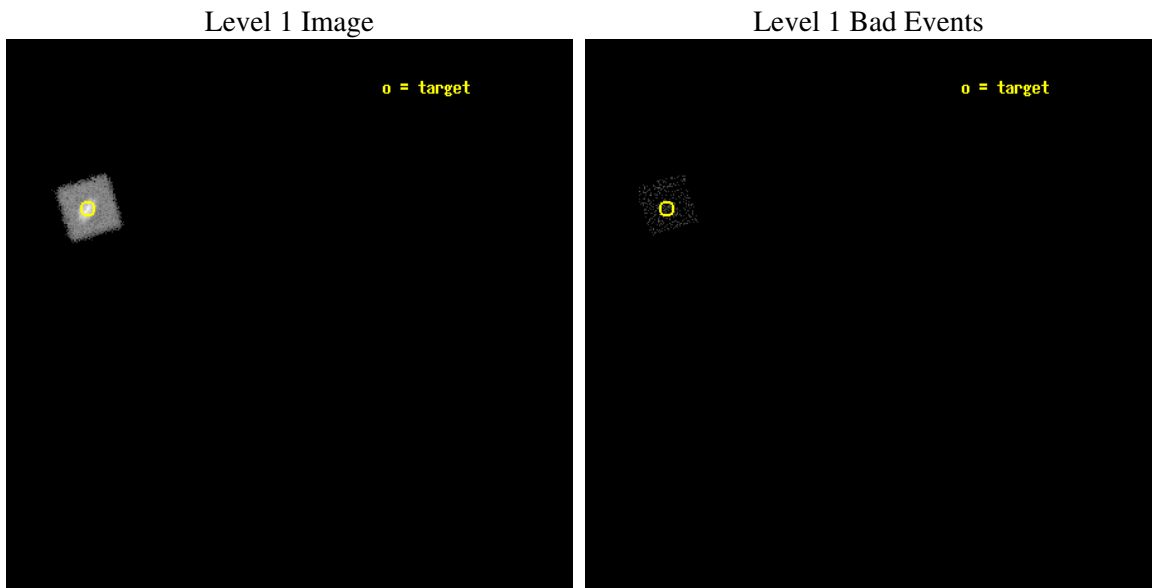
seq_num	490018
obs_id	4286
title	CALIBRATION OF ACIS PARTICLE BACKGROUND AND HRC QUANTUM EFFICIENCY
observer	DR. MAXIM MARKEVITCH
object	RXJ1856.5-3754
ra_targ	284.147083
dec_targ	-37.909611
ra_nom	283.672274
dec_nom	-38.118828
roll_nom	298.458655
revision	4
ontime	9856.656655699
livetime	9829.2127195366
l2events	18122



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0
ascdsver	7.6.11.2
caldbver	3.4.1
date	2007-11-21T23:33:13
revision	4

sched_exp_time	10000.000000
ontime	9856.656655699
l1events	24437

### 2.1.3 Events

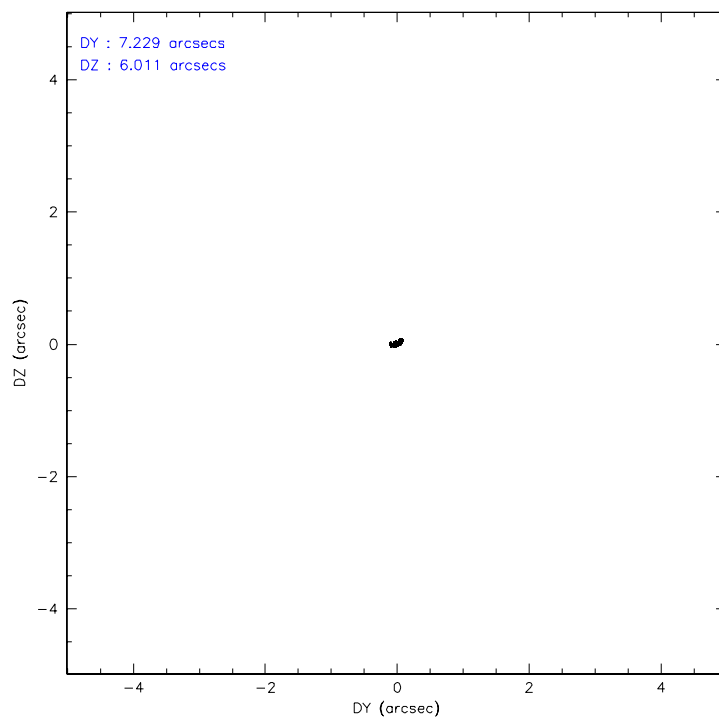
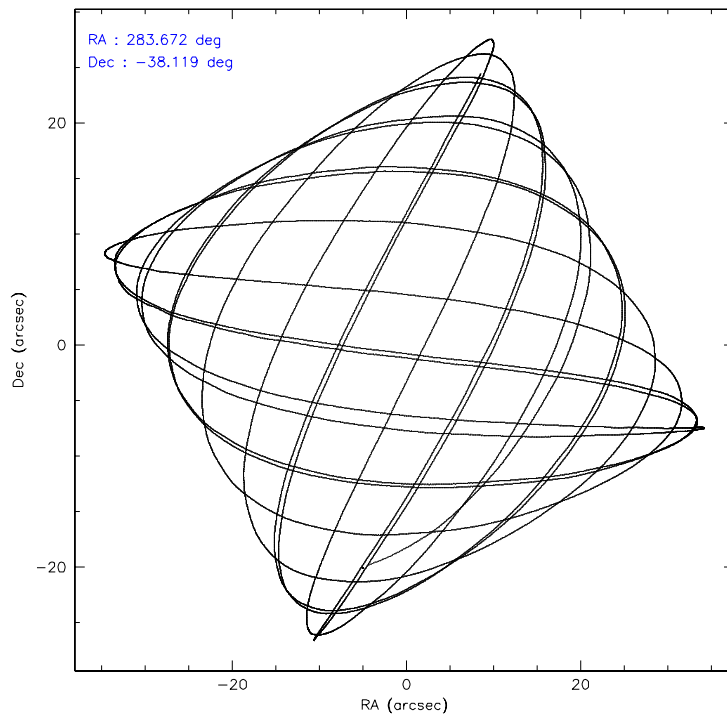
#### Level 1 Events

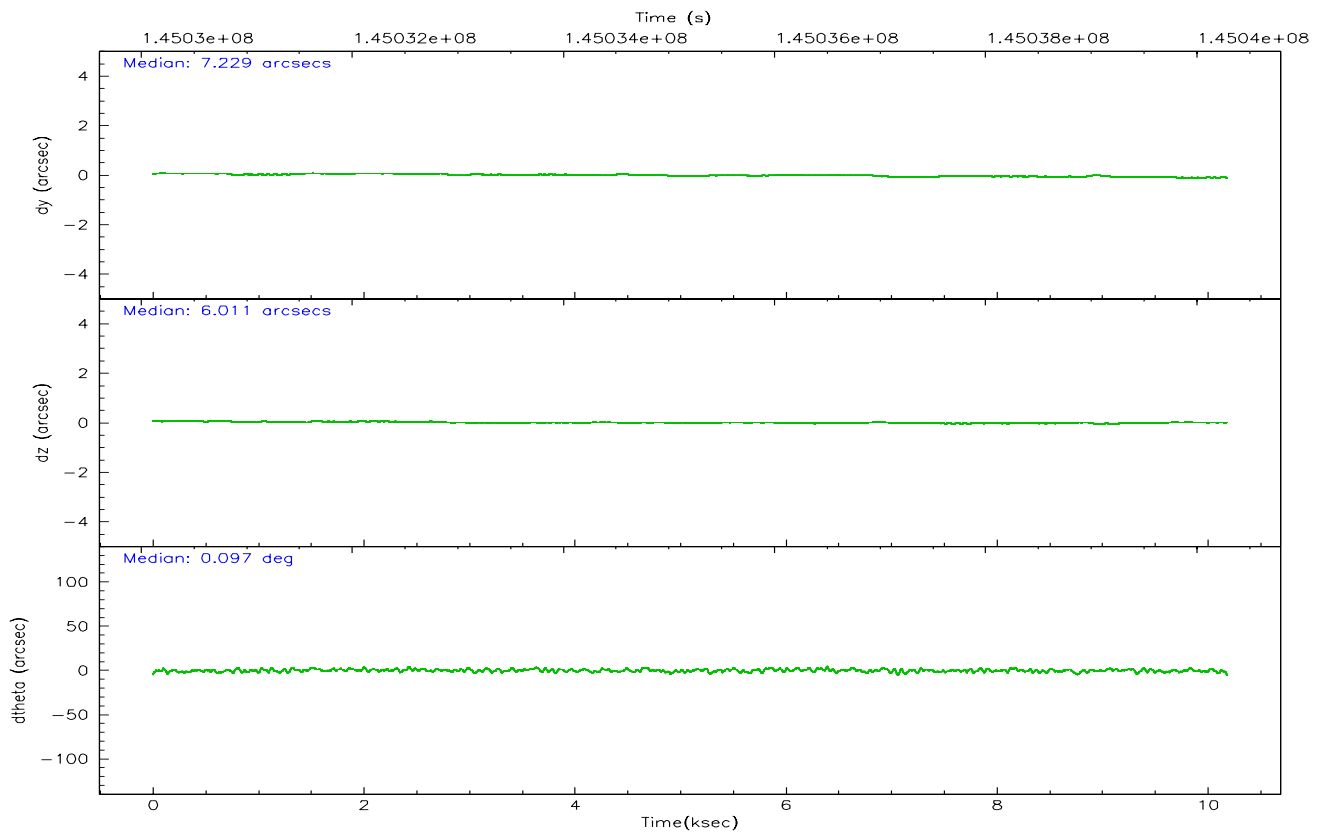
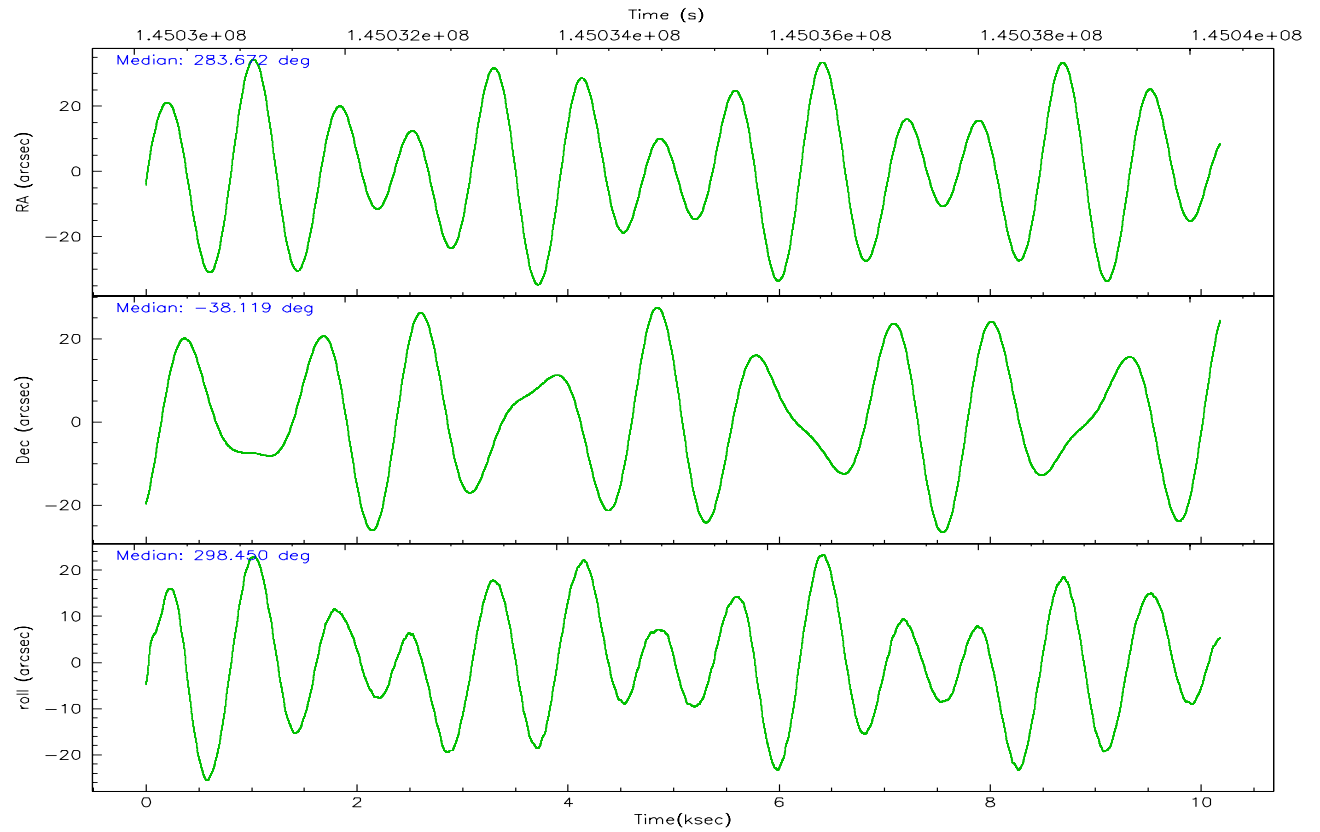
	<b>segment 0</b>
level 1 events	24437
rejected events	1458
rejected %	5%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	6	6
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	NEXT_IN_LINE	NEXT_IN_LINE			
Observation mode	POINTING	POINTING			
Pointing RA	284.147083	283.6722748681833			
Pointing Dec	-37.909611	-38.118828205482			
Pointing Roll	298.535750	298.4586554990342			
SIM focus pos (mm)	-1.040293	-1.038866356238299			
SIM defocus (mm)	0	0.001426264420575141			
SIM translation stage pos (mm)	51.985494	51.99352612095925			
SIM translation stage offset (mm)	75	74.99196277064232			
Observation start time	145030294.184000	145029524.62633			
Observation start date	2002-08-06T14:10:30	2002-08-06T13:58:44			
Observation end time	145040294.184000	145041271.12681			
Observation end date	2002-08-06T16:57:10	2002-08-06T17:14:31			

## 2.3 Aspect





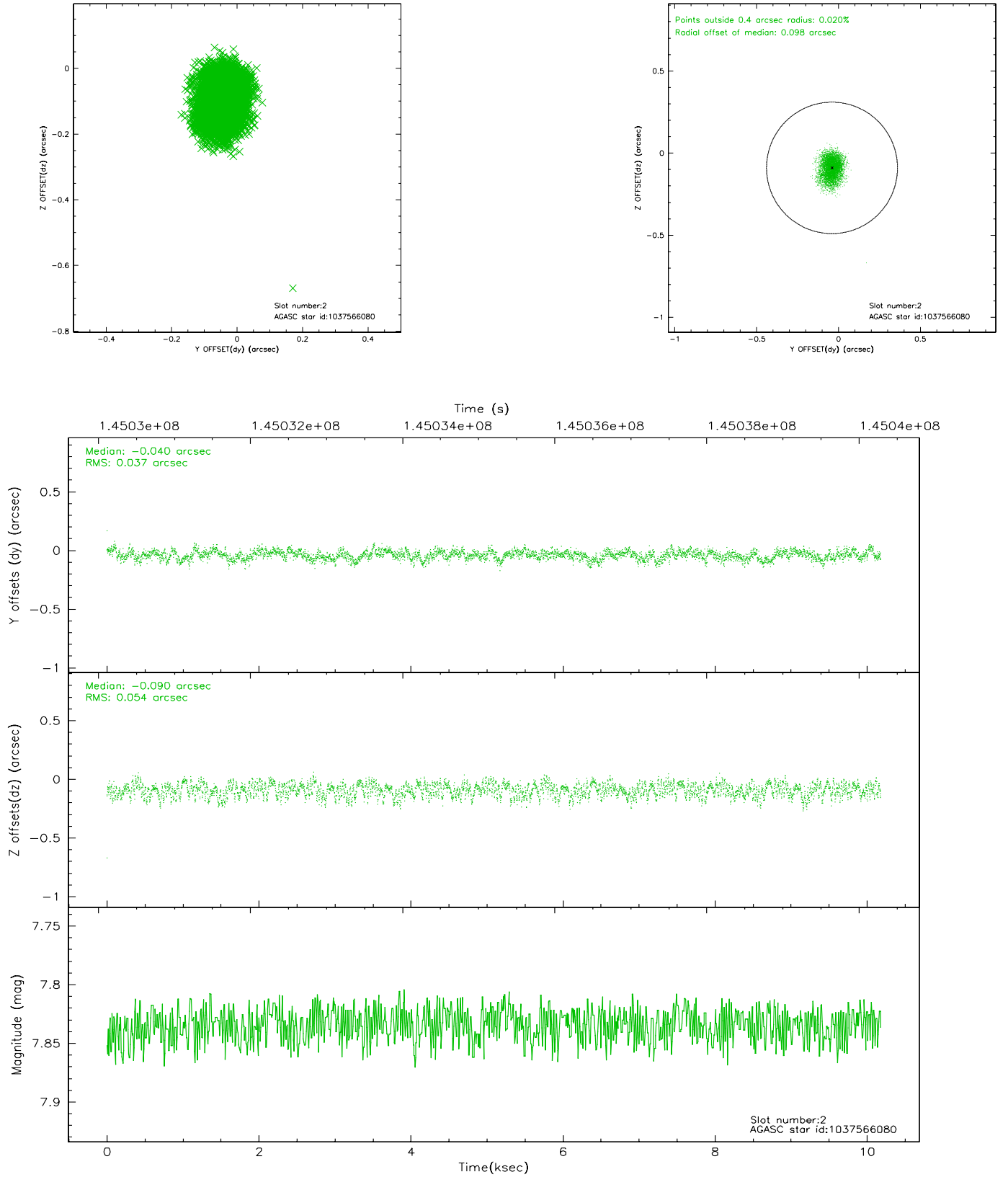
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.78	2484	-0.602	-0.028	0.004	0.008	0.000000	0.000000	-761.48	244.04
1	FID	HRC-I-2	6.91	2484	0.681	-0.026	0.004	0.008	0.000000	0.000000	849.05	245.22
2	GUIDE	1037566080	7.83	4969	-0.040	-0.090	0.070	0.112	283.069097	-37.947159	-1271.83	-1160.99
3	GUIDE	1037582688	8.23	4969	0.071	-0.014	0.058	0.096	284.131110	-38.409051	1623.50	686.60
4	GUIDE	1037567328	8.85	4968	-0.026	-0.032	0.070	0.116	284.052016	-37.647288	-887.17	1811.74
5	GUIDE	1037566152	9.54	4968	-0.039	-0.026	0.134	0.217	282.755263	-38.085809	-1250.30	-2180.86
6	GUIDE	1037567312	8.47	4968	-0.004	0.081	0.063	0.099	283.456056	-37.976515	-658.34	-244.23
7	GUIDE	1037578168	8.11	4968	0.038	0.083	0.071	0.112	284.493659	-38.169059	1363.69	2001.18

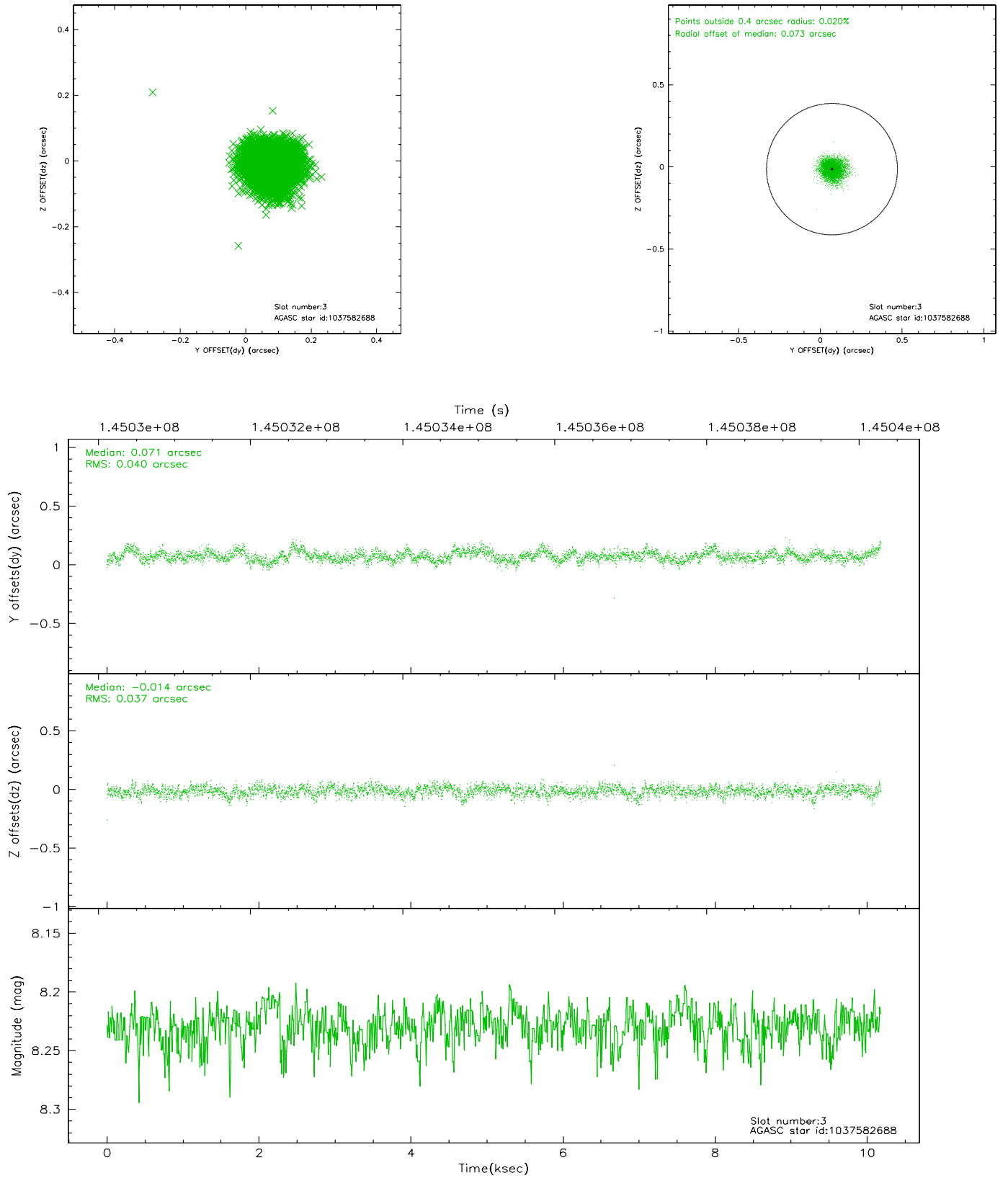


## 2.4 Star Slots

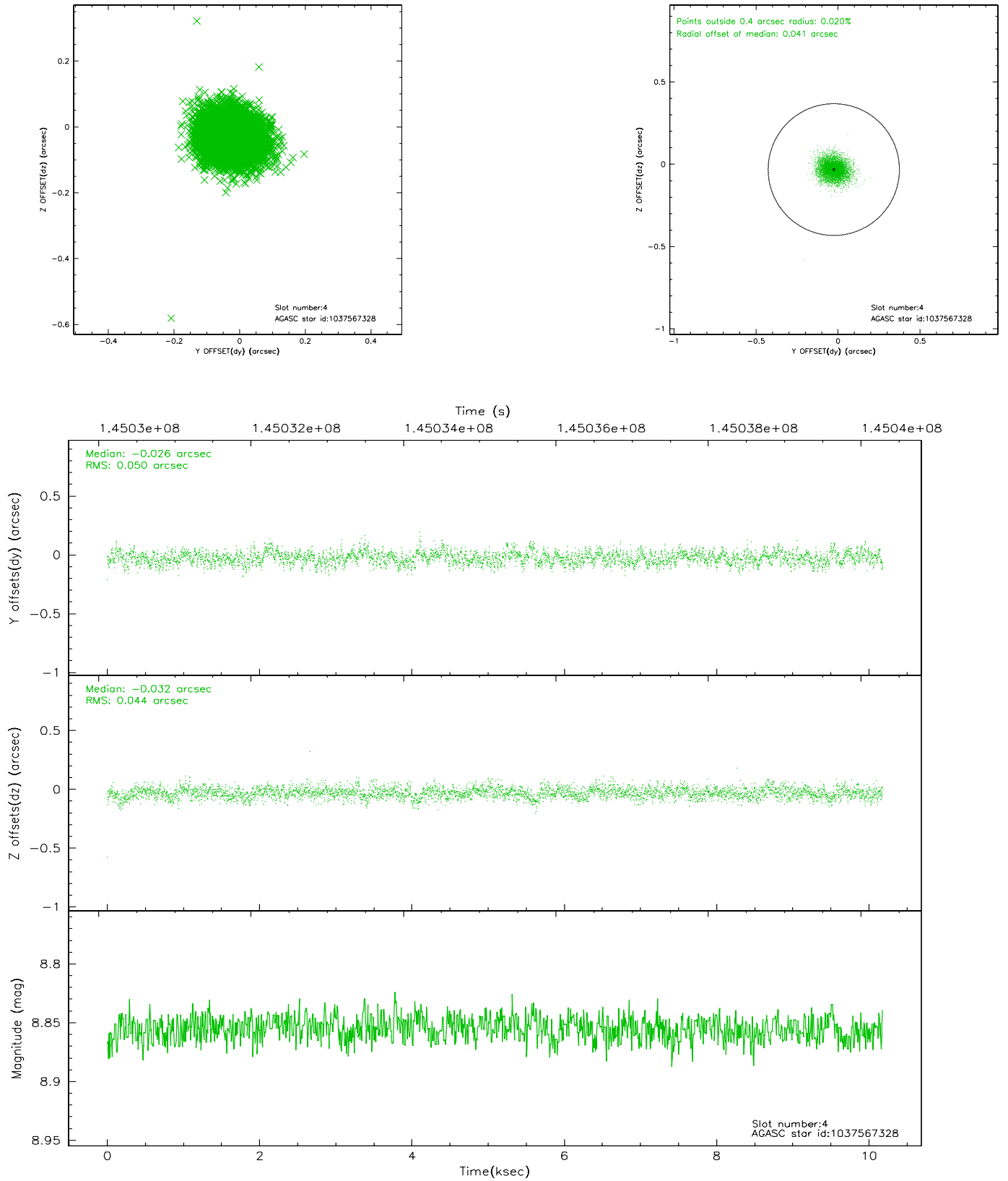
### 2.4.1 Slot 2



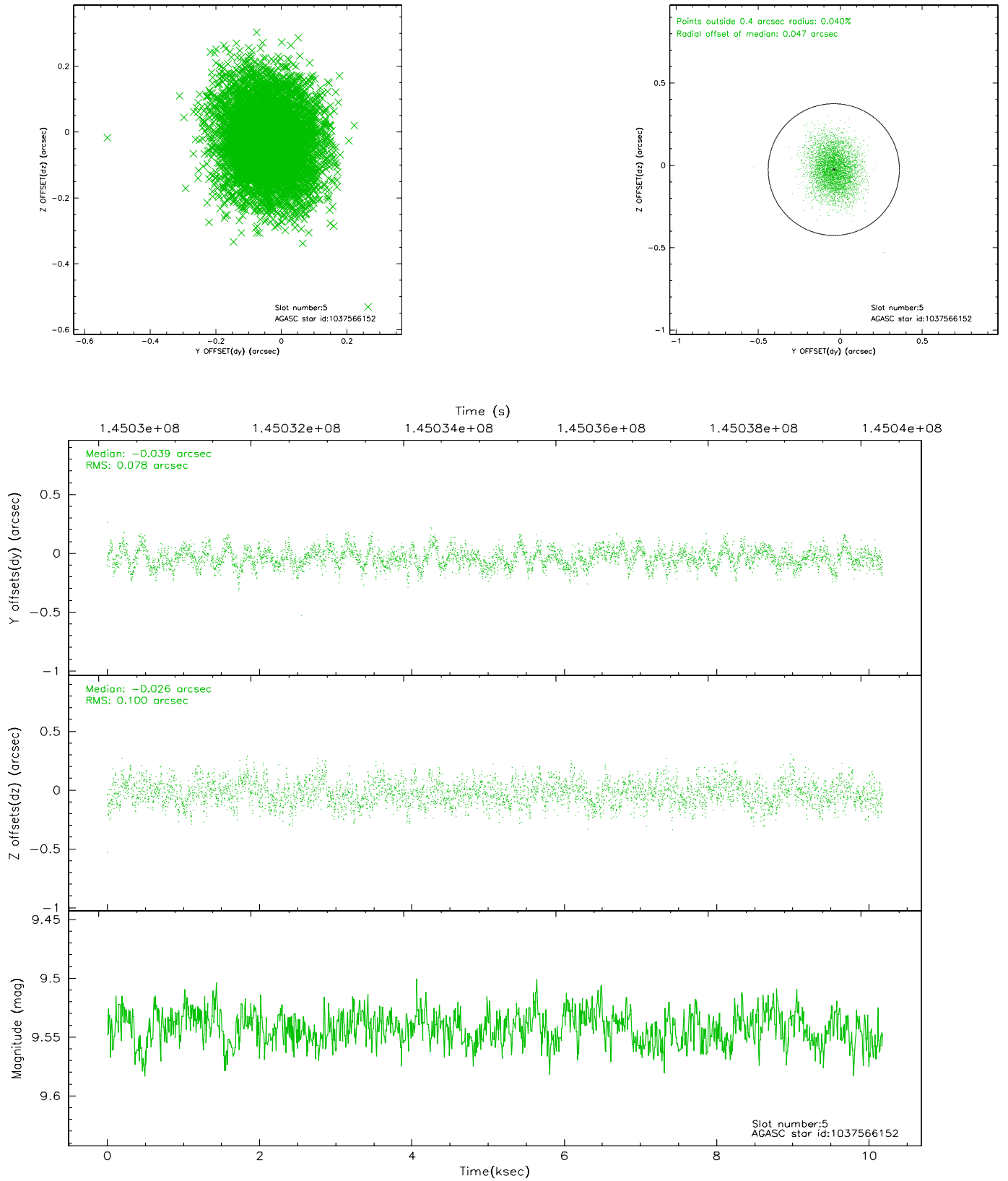
## 2.4.2 Slot 3



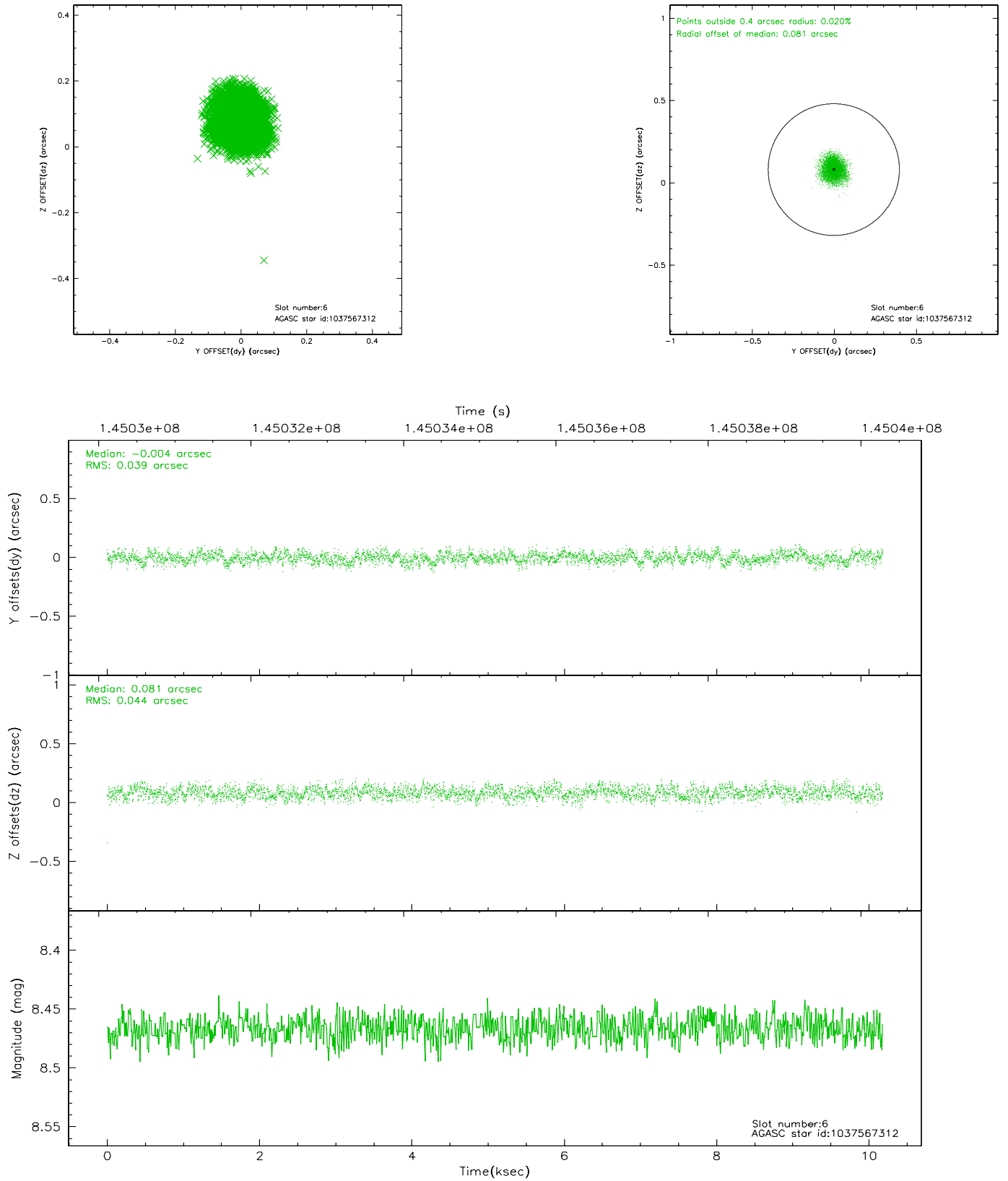
### 2.4.3 Slot 4



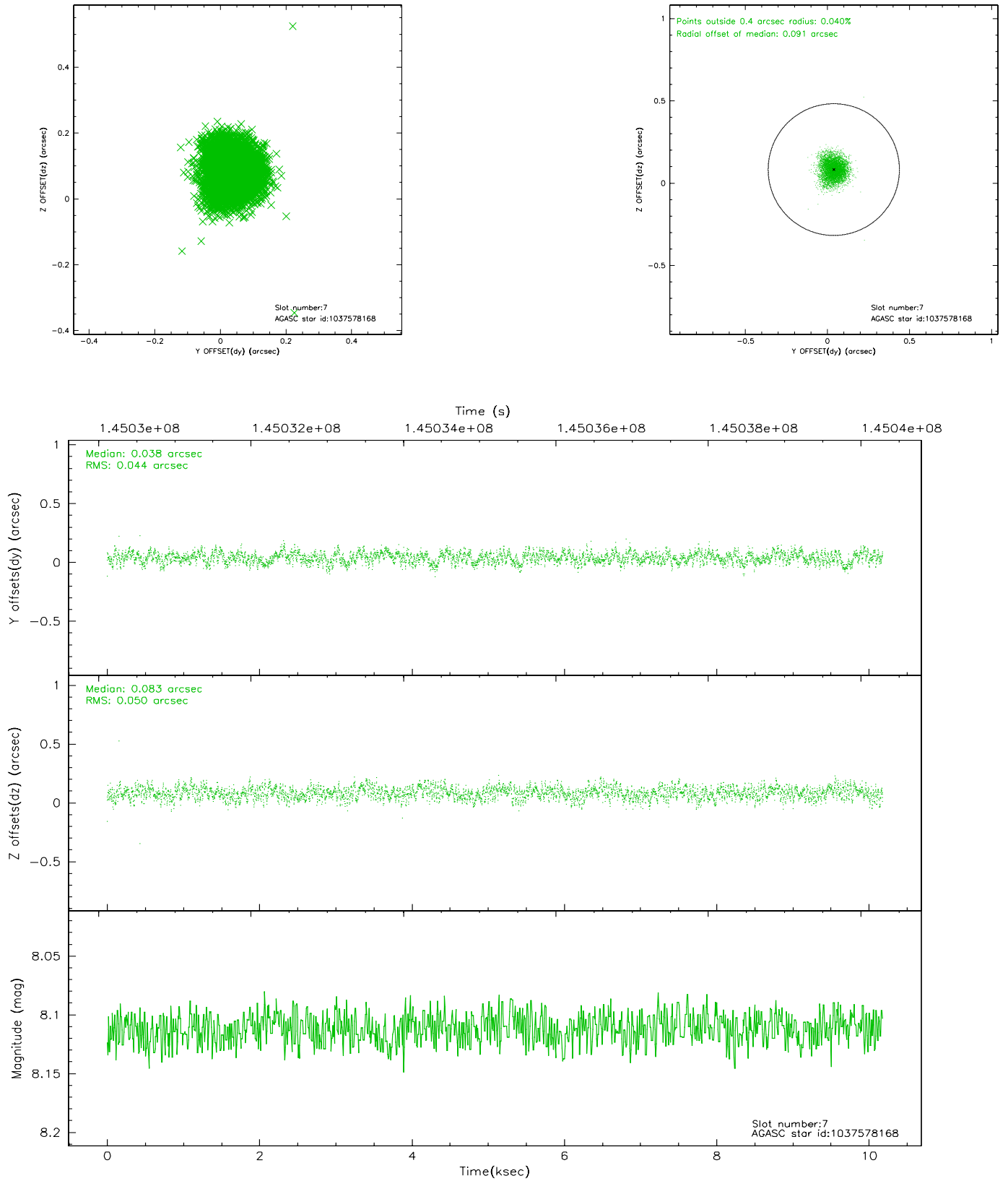
## 2.4.4 Slot 5



## 2.4.5 Slot 6

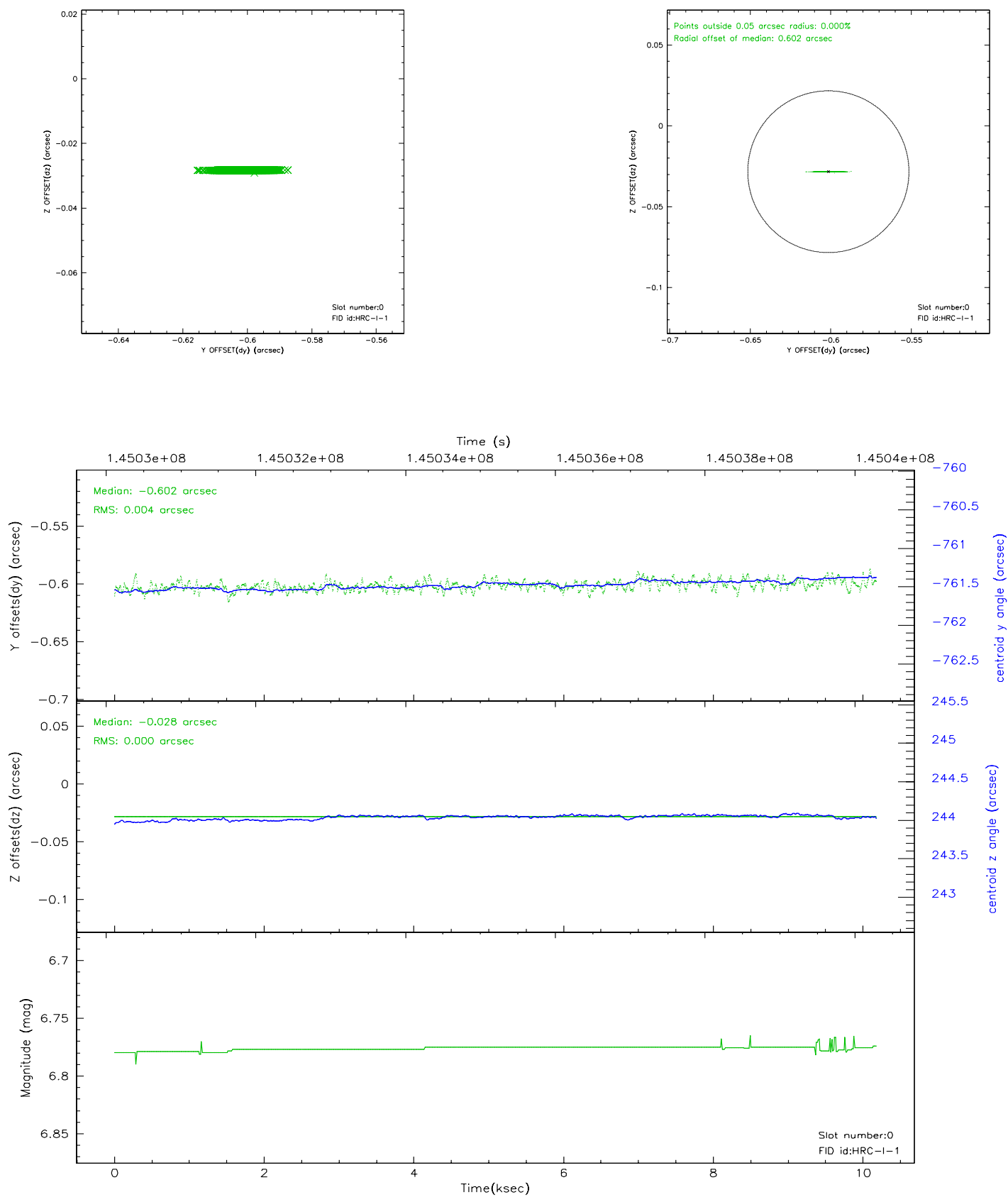


## 2.4.6 Slot 7

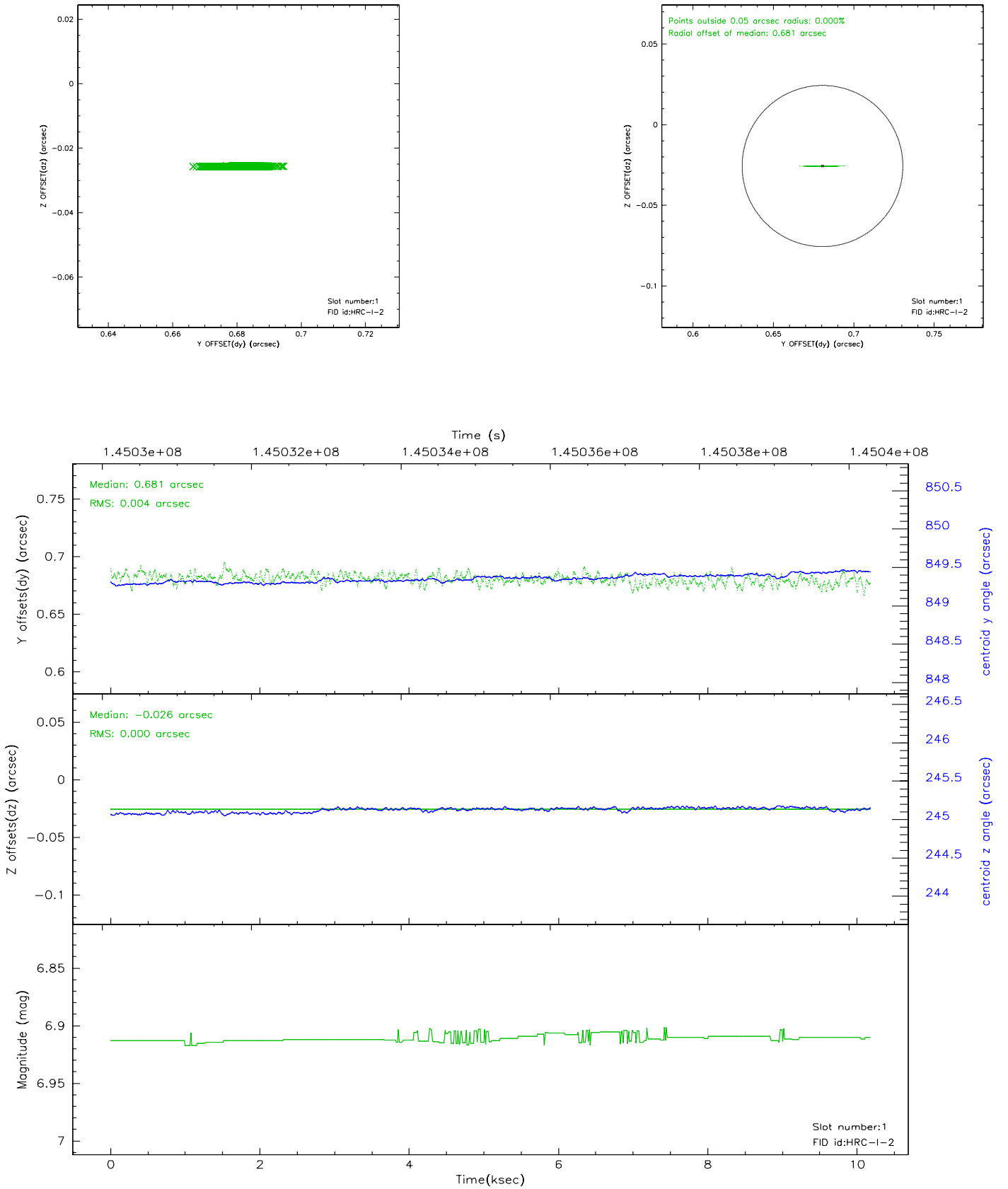


## 2.5 FID Slots

### 2.5.1 Slot 0



## 2.5.2 Slot 1





### 3 Point Sources

# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.12.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.856

## A.2 Comments

Only 2 fid lights are used for this observation. The radial offsets of the fid lights are greater than 0.4 arcsec due to the large off-axis position of the source.

Fid in slot 0 radial offset > 0.400000 arcsec

Fid in slot 1 radial offset > 0.400000 arcsec

The current observation has been reprocessed as part of Repro III ('C' supplement) the purpose of which is to update all HRC-I ObsIDs since Jan 2000 to the latest calibrations available for that configuration.

Specifically, we are updating the DEGAP solution and the Gain Maps applied. For more information see the Repro IIIC web page at

<http://asc.harvard.edu/cda/repro3.html#IIIC>

and the associated links.