

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 5062 - L2 Version 3  
Chandra X-Ray Center

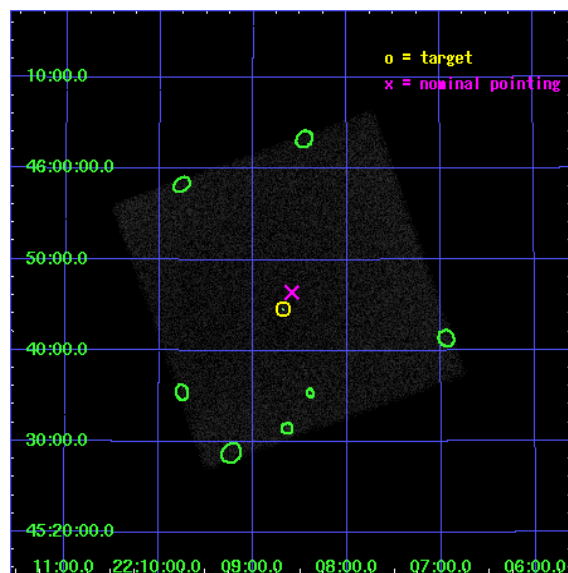
L2 Processing Date : Nov 23 2007

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# 1 Front

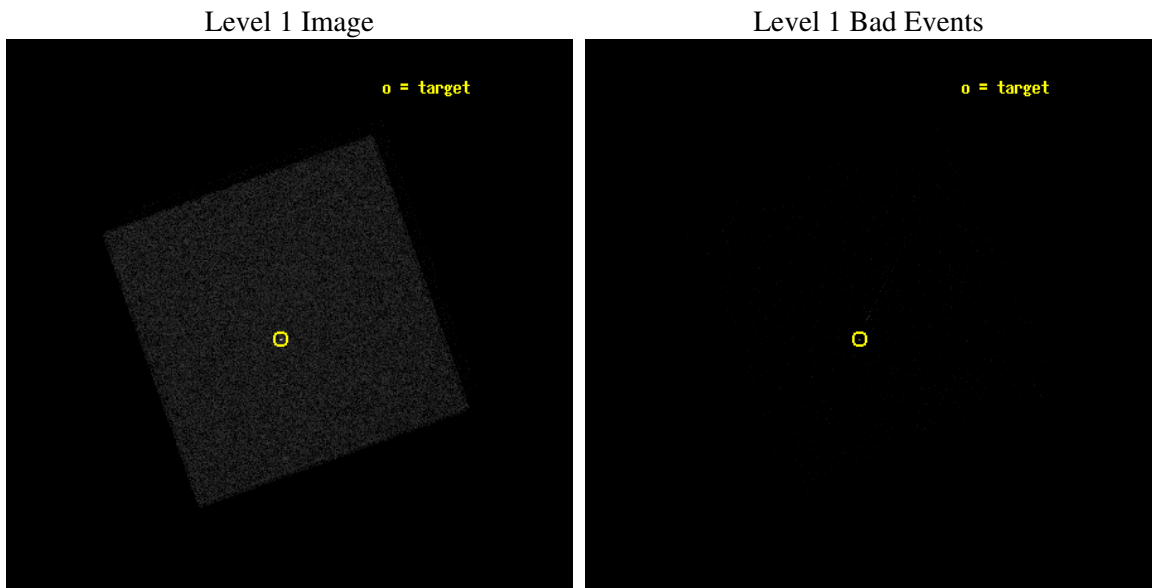
seq_num	290335
obs_id	5062
title	AO5 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain
observer	Dr. CXC Calibration
object	ArLac
ra_targ	332.17
dec_targ	45.742306
ra_nom	332.1468331043
dec_nom	45.773838516859
roll_nom	205.29917542693
revision	3
ontime	609.87502720952
livetime	455.86692360059
l2events	73507



## 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	2007-11-24T01:02:55
revision	3

sched_exp_time	1000.000000
ontime	609.87502720952
l1events	159139

### 2.1.3 Events

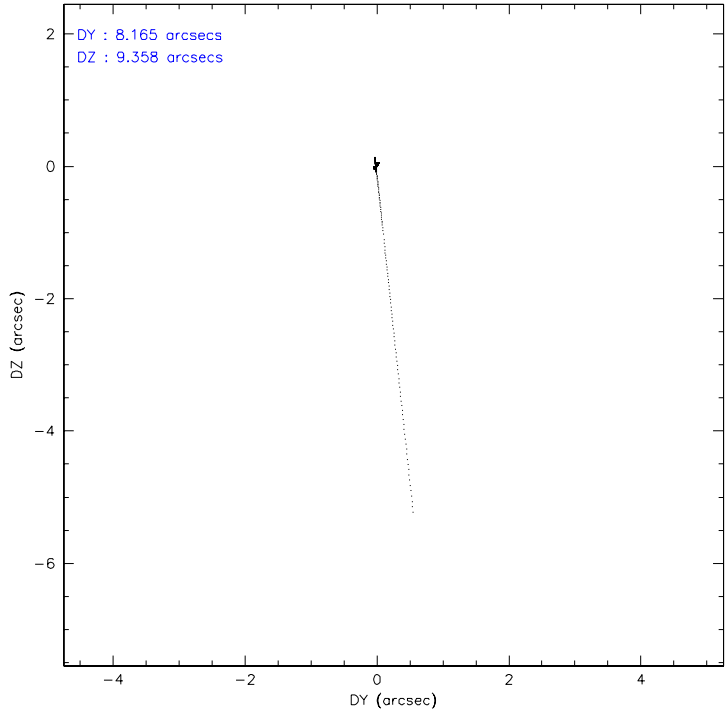
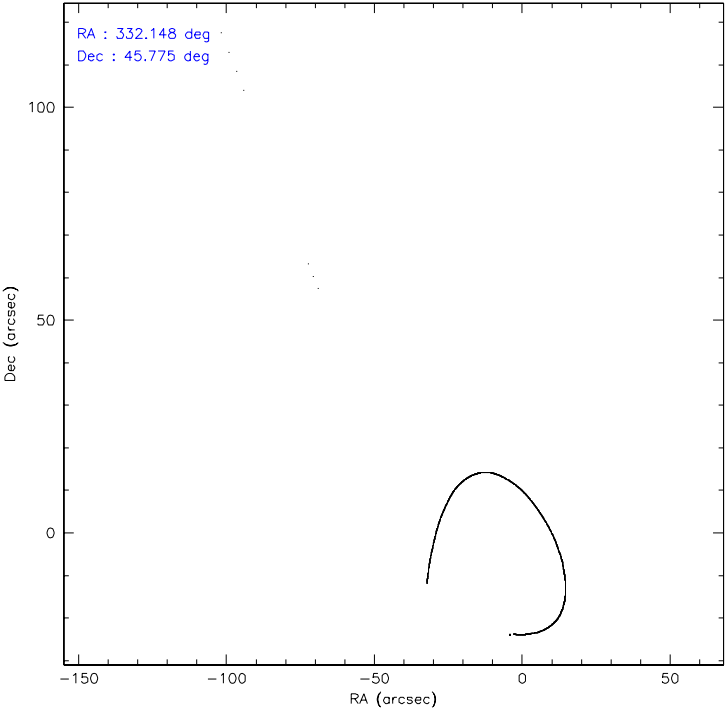
#### Level 1 Events

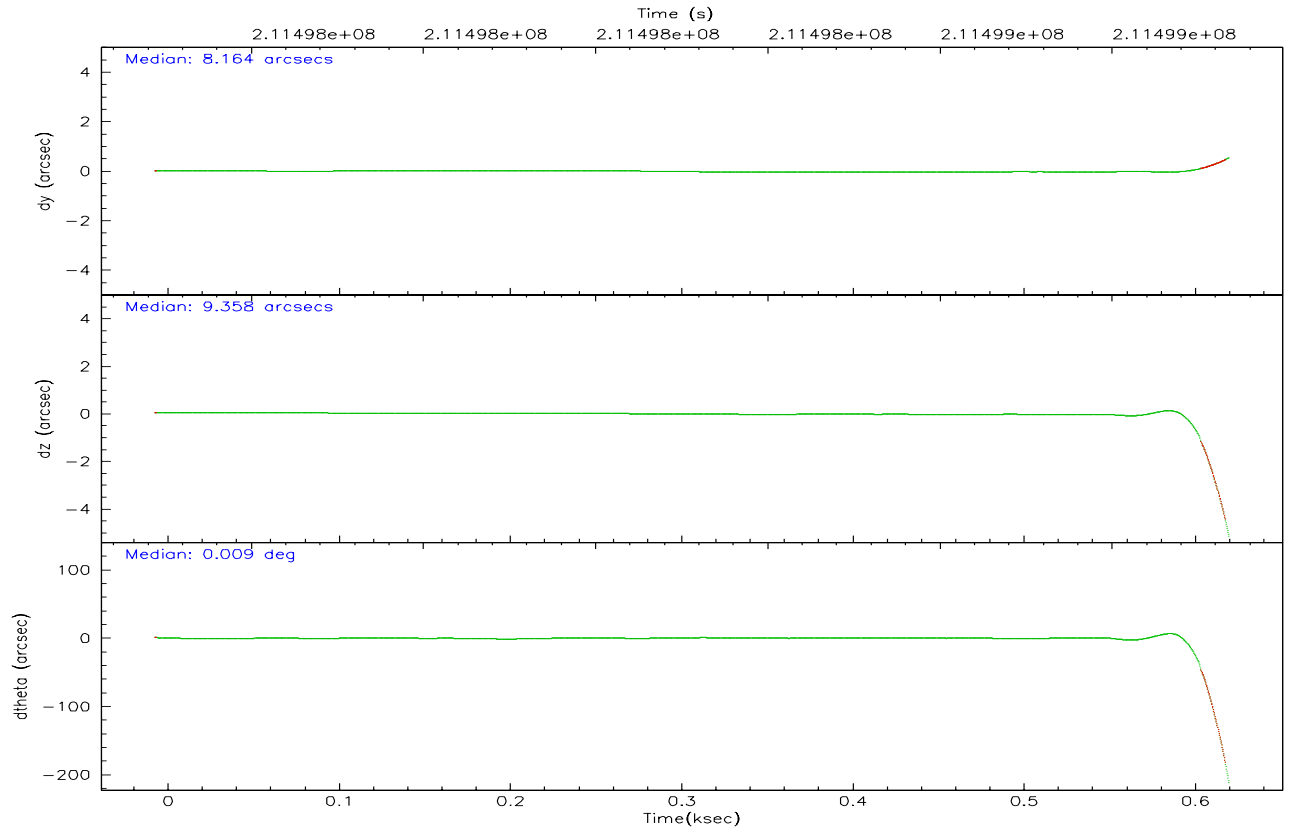
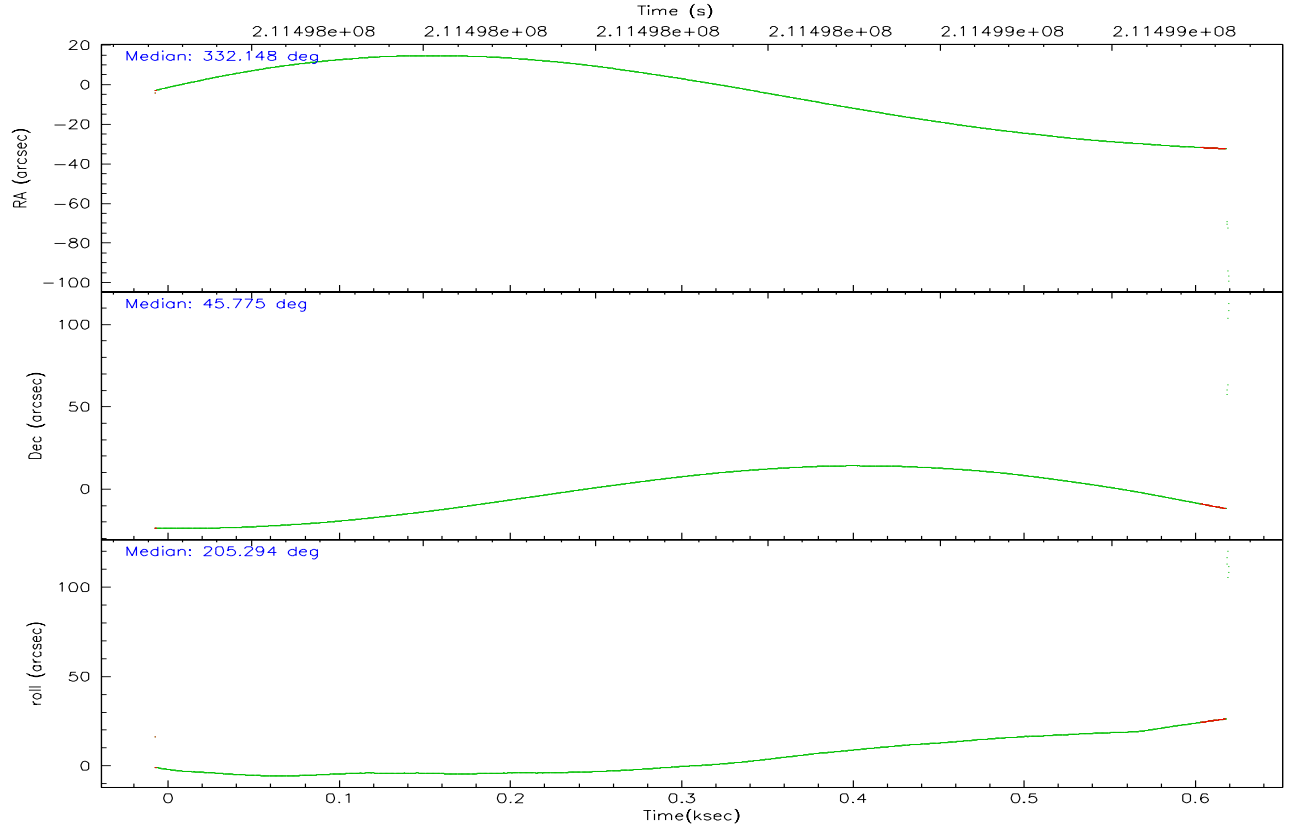
	<b>segment 0</b>
level 1 events	159139
rejected events	46496
rejected %	29%

## 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	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
Pointing RA	332.164930	332.1468331043026			
Pointing Dec	45.794854	45.77383851685864			
Pointing Roll	205.381583	205.2991754269264			
SIM focus pos (mm)	-1.040293	-1.038866356238299			
SIM defocus (mm)	0	0.001426264420575141			
SIM translation stage pos (mm)	126.985494	126.9829799899862			
SIM translation stage offset (mm)	0	0.002508901615314585			
Observation start time	211498321.184000	211497925.92673			
Observation start date	2004-09-13T21:30:57	2004-09-13T21:25:25			
Observation end time	211499321.184000	211498788.46427			
Observation end date	2004-09-13T21:47:37	2004-09-13T21:39:48			

## 2.3 Aspect





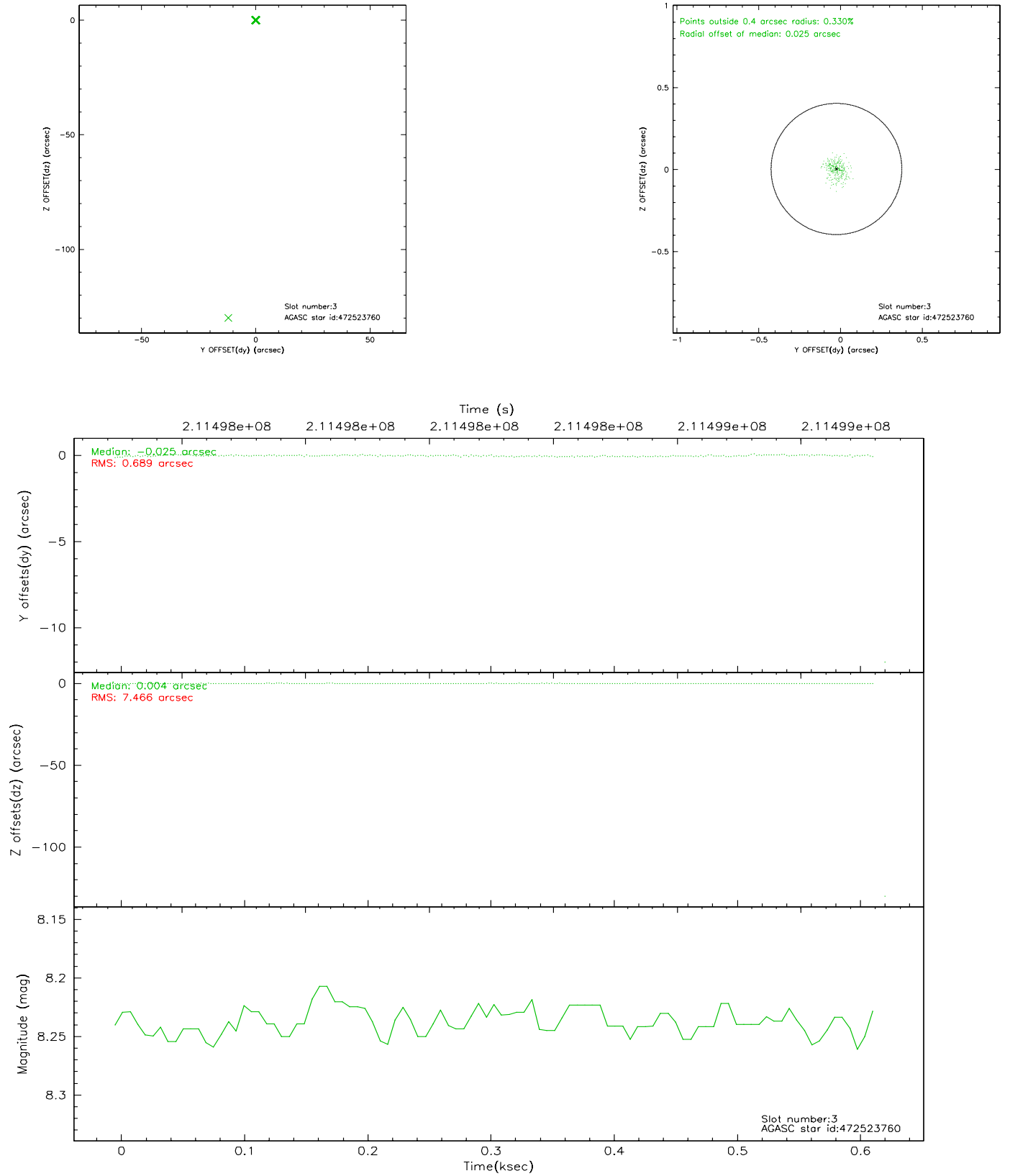
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	7.04	149	-0.031	0.047	0.009	0.049	0.000000	0.000000	-763.80	-1297.18
1	FID	HRC-I-2	7.08	149	0.162	-0.104	0.006	0.021	0.000000	0.000000	843.89	-1307.61
2	FID	HRC-I-3	7.13	153	-0.010	-0.034	0.008	0.128	0.000000	0.000000	-1186.75	998.71
3	GUIDE	472523760	8.24	303	-0.025	0.004	0.059	0.096	331.645363	45.403260	1799.59	709.01
4	GUIDE	472533912	9.17	303	0.113	-0.015	0.119	0.201	331.791136	46.368695	-30.70	-2262.09
5	GUIDE	472655152	9.42	303	0.080	-0.251	0.156	0.254	332.504239	45.862991	-863.84	135.66
6	GUIDE	472659832	9.47	303	-0.013	0.125	0.115	0.178	332.780399	46.098139	-1850.85	-330.78
7	GUIDE	472535576	7.87	302	-0.163	0.156	0.057	0.120	331.438373	46.291802	867.11	-2397.40

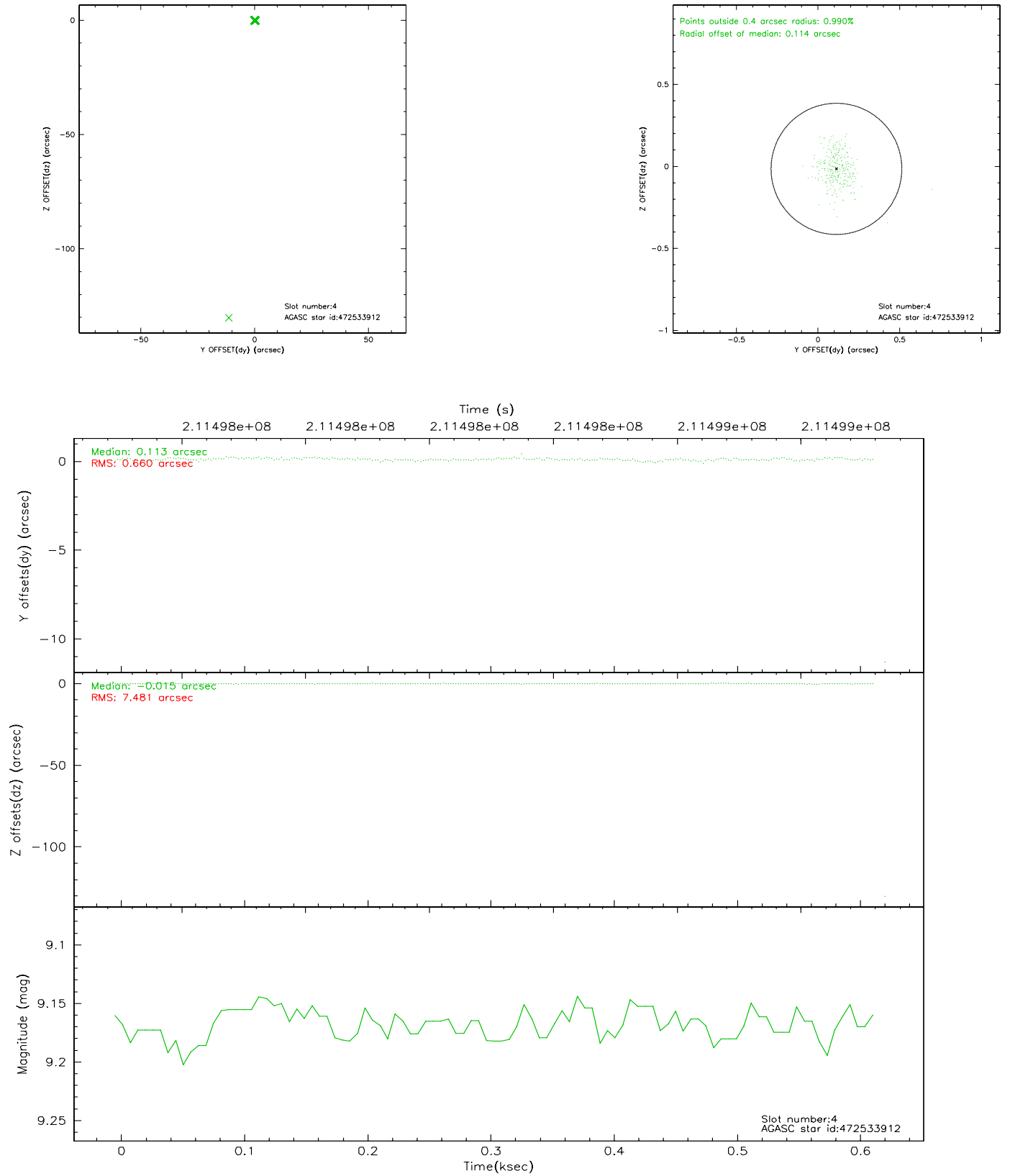


## 2.4 Star Slots

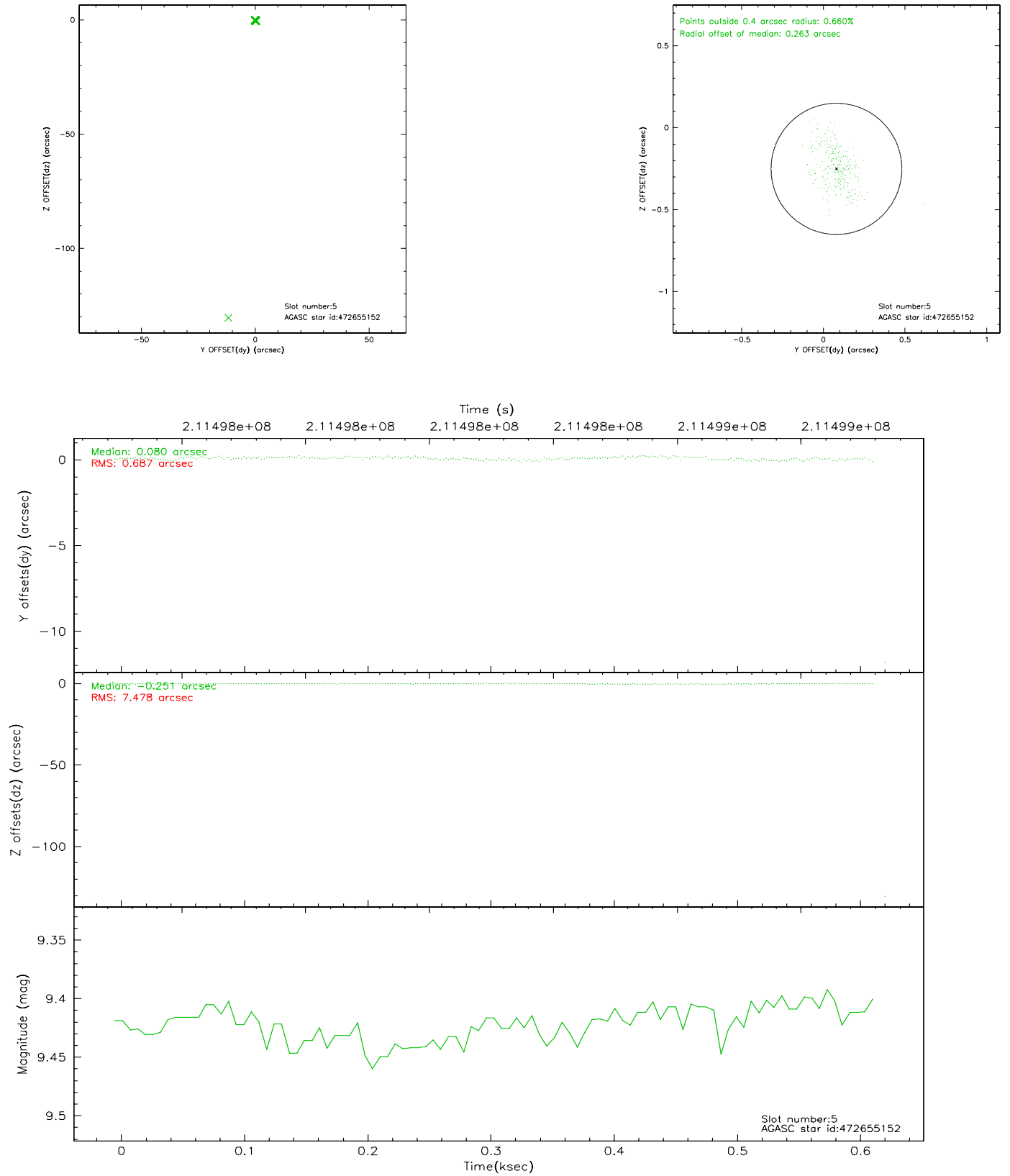
### 2.4.1 Slot 3



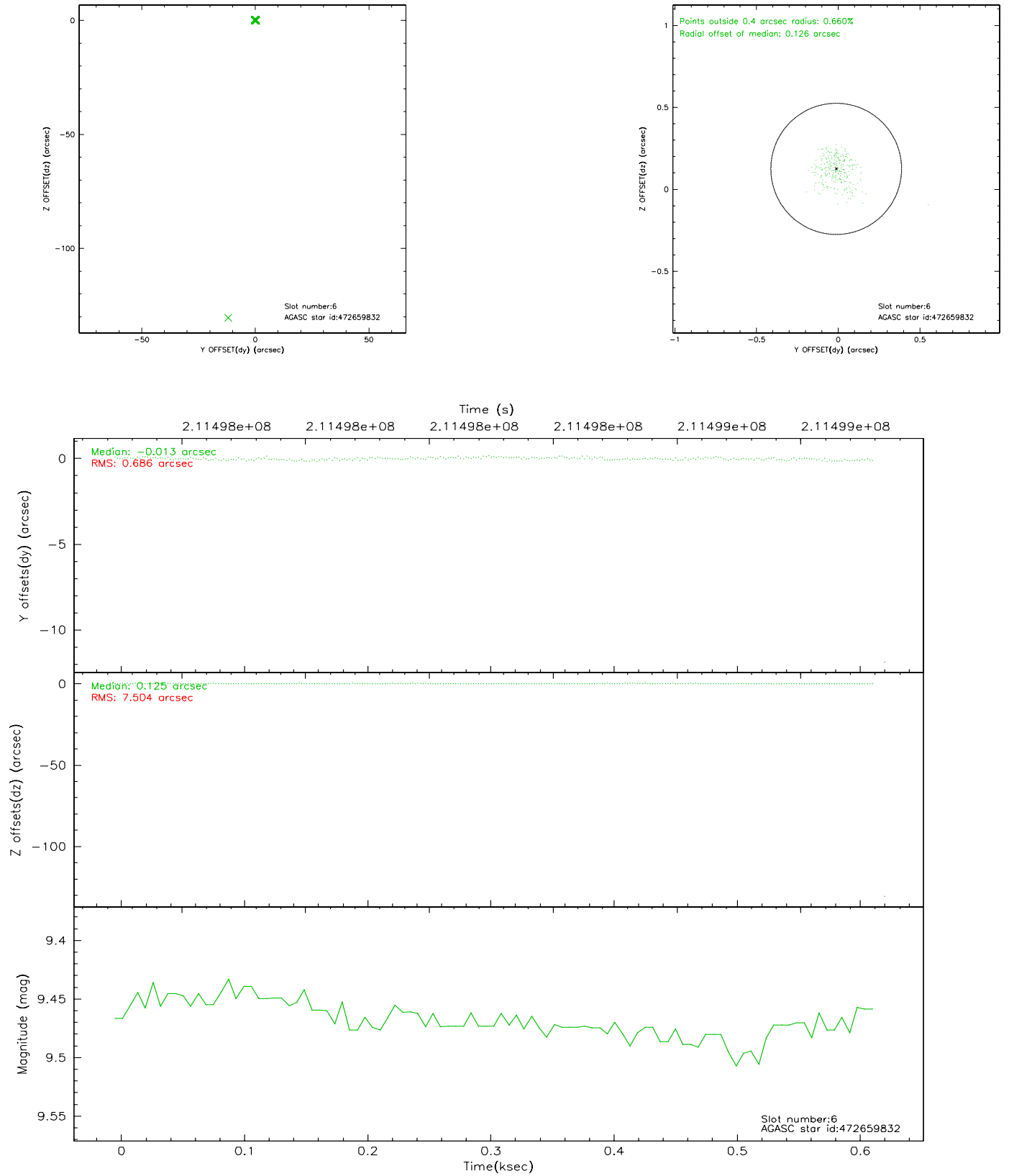
## 2.4.2 Slot 4



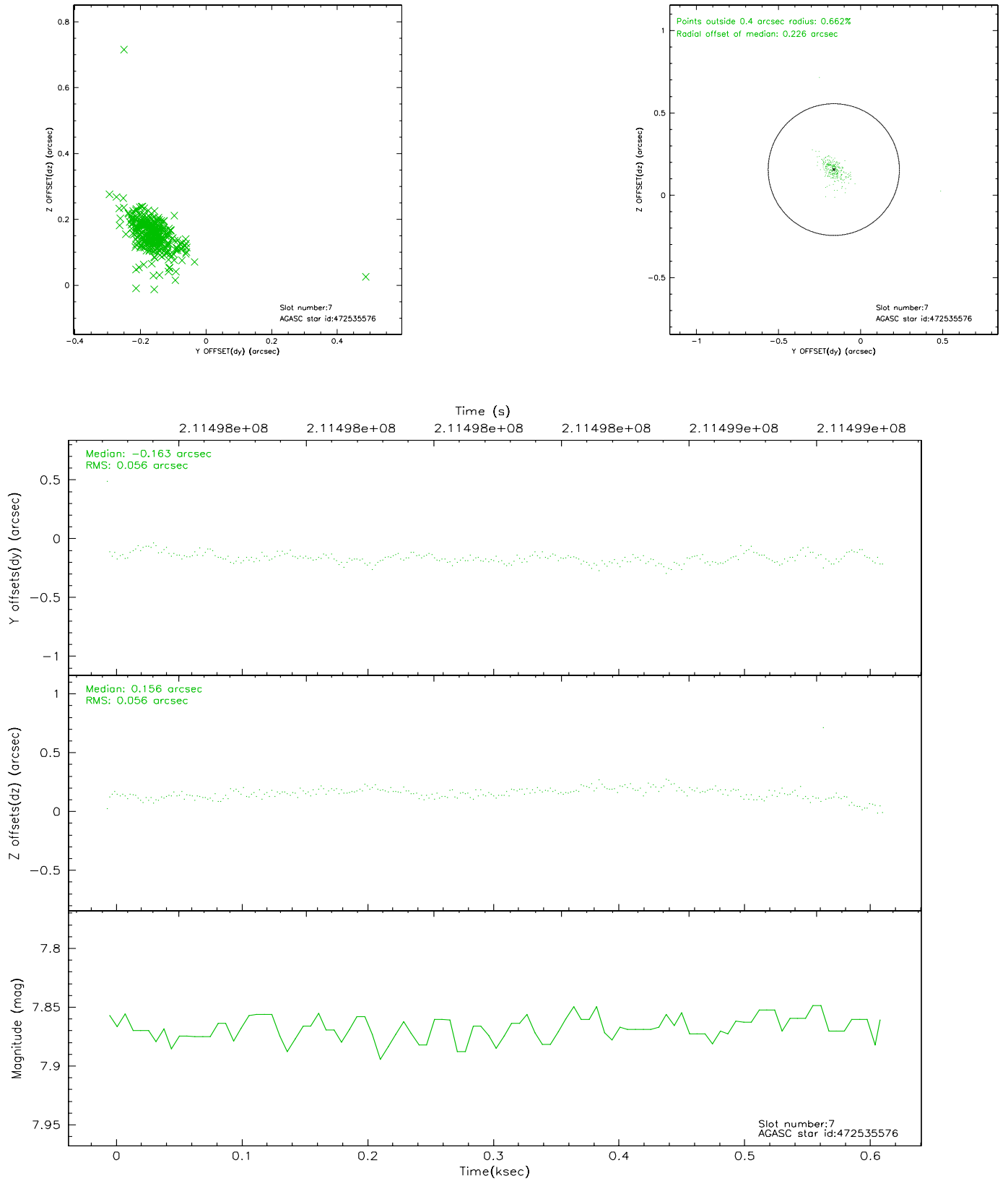
### 2.4.3 Slot 5



## 2.4.4 Slot 6

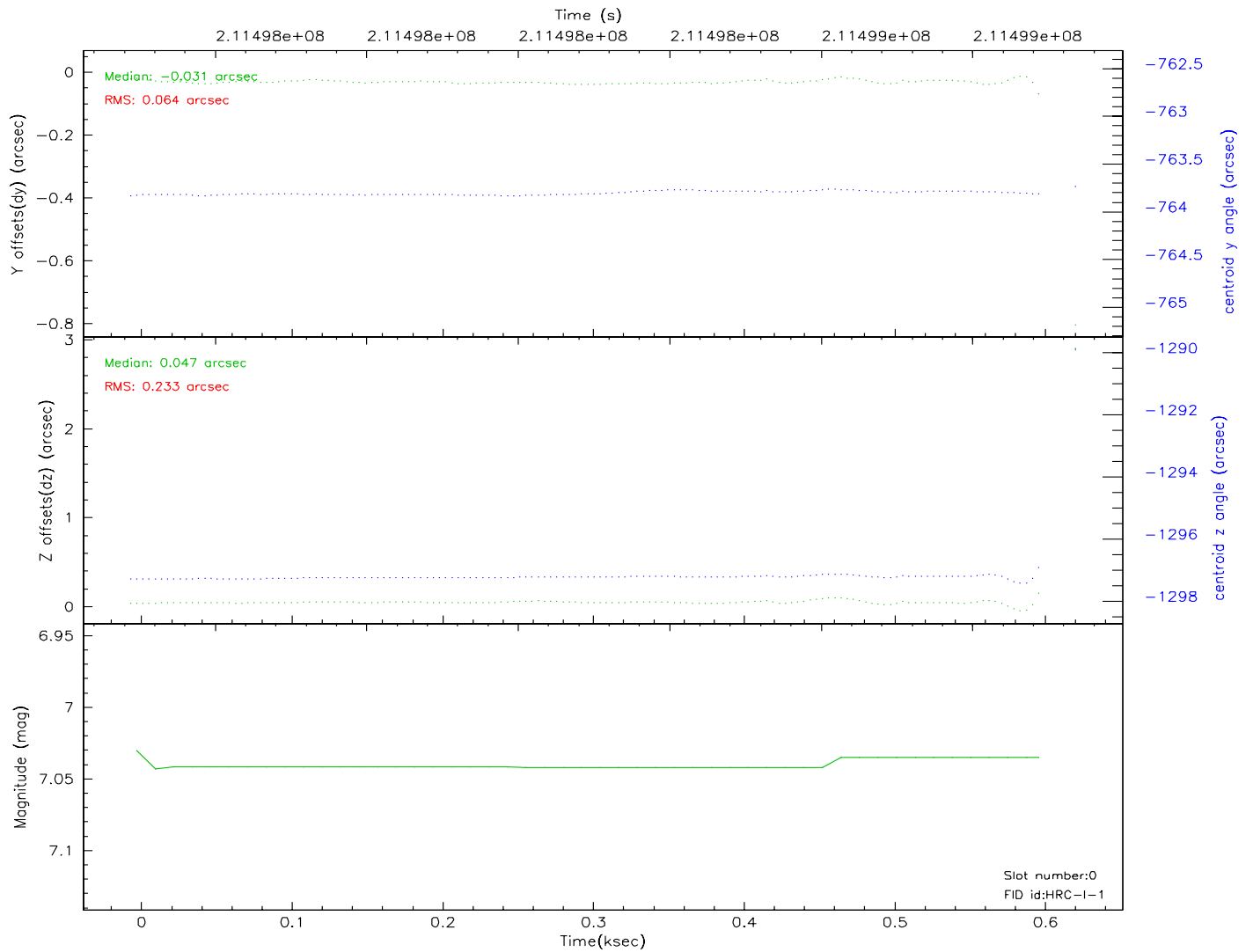
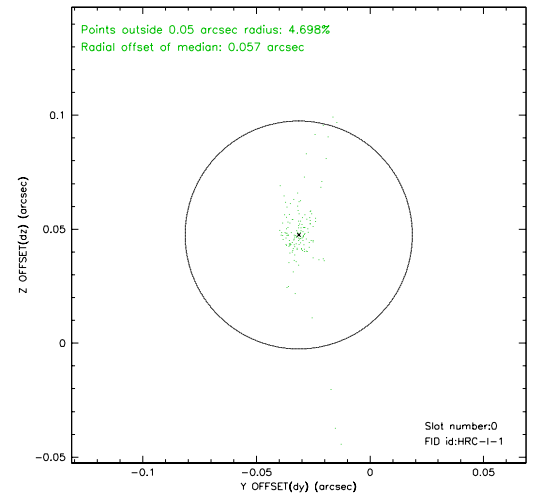
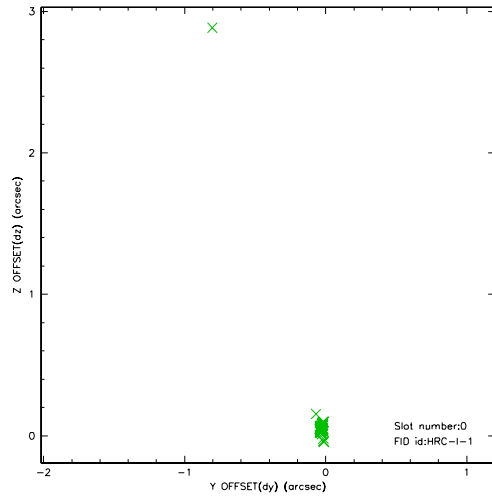


## 2.4.5 Slot 7

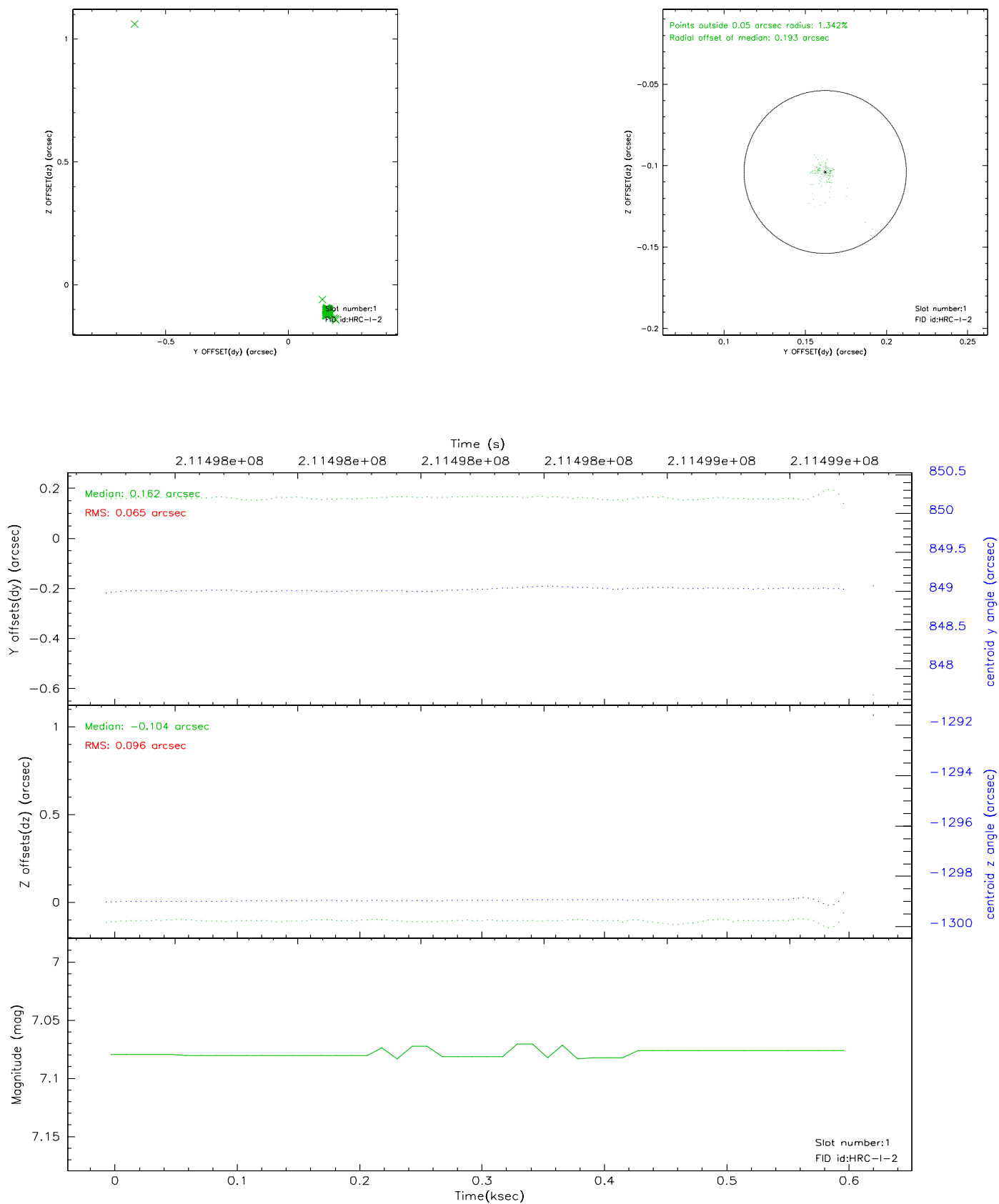


## 2.5 FID Slots

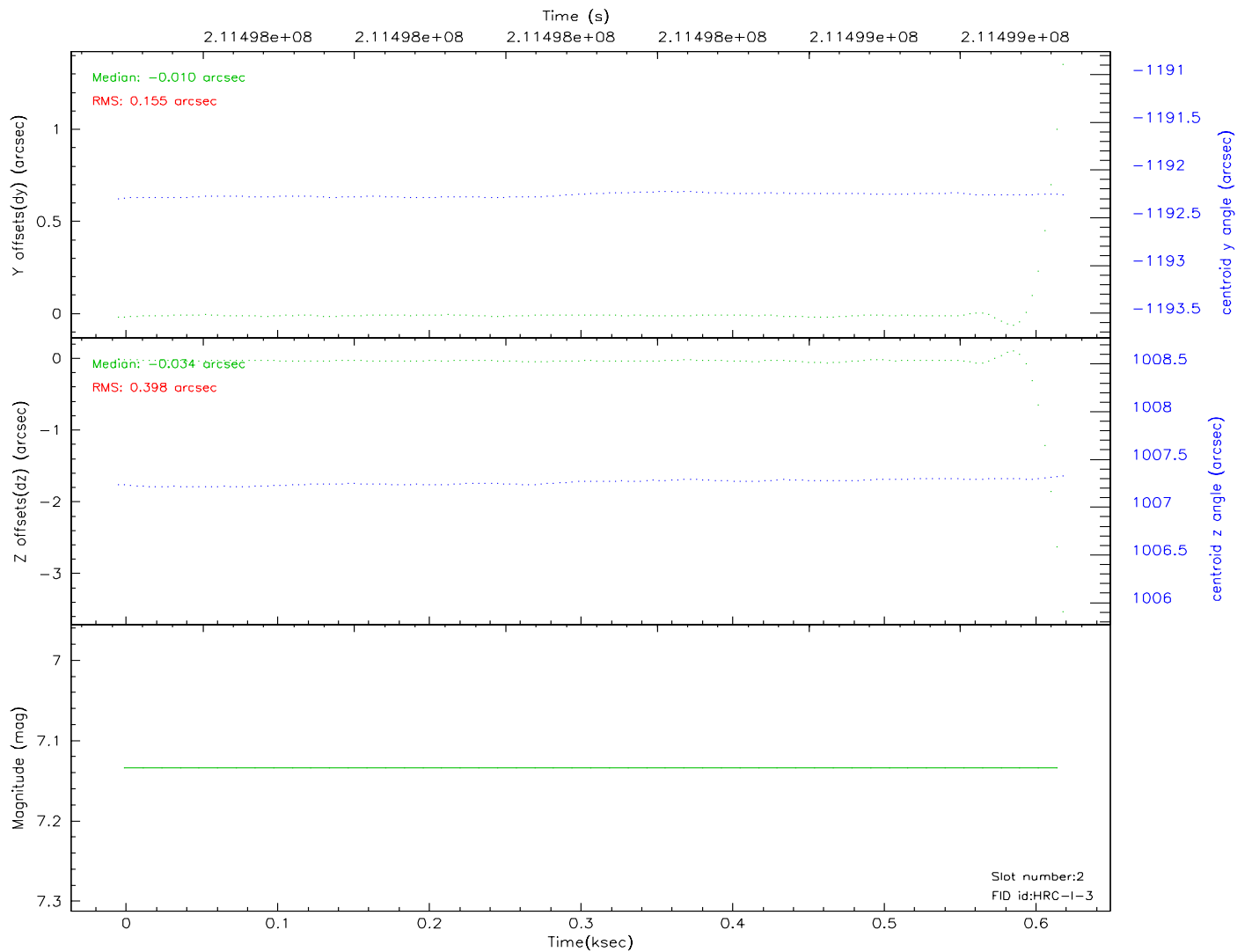
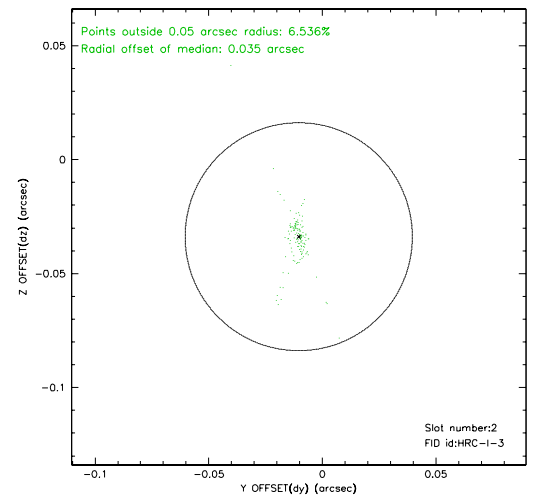
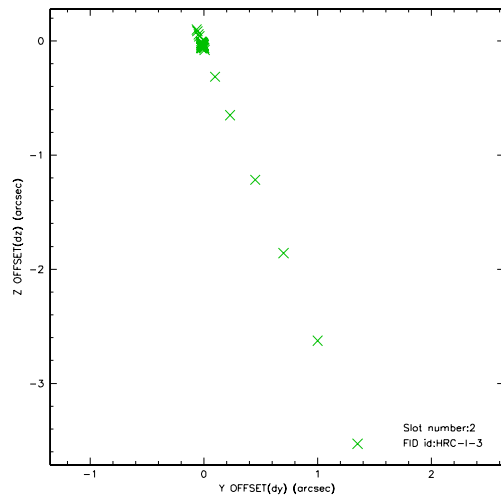
### 2.5.1 Slot 0



2.5.2 Slot 1

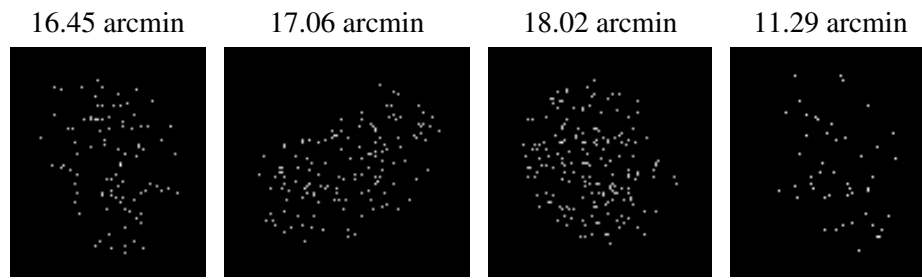


### 2.5.3 Slot 2





### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.12.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.609

## A.2 Comments

SCS 107 ran at 21:38, interrupting the observation and causing large SIM motions as the instrument safed. These are expected consequences of the safing process.

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.