

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 5043 - L2 Version 3  
Chandra X-Ray Center

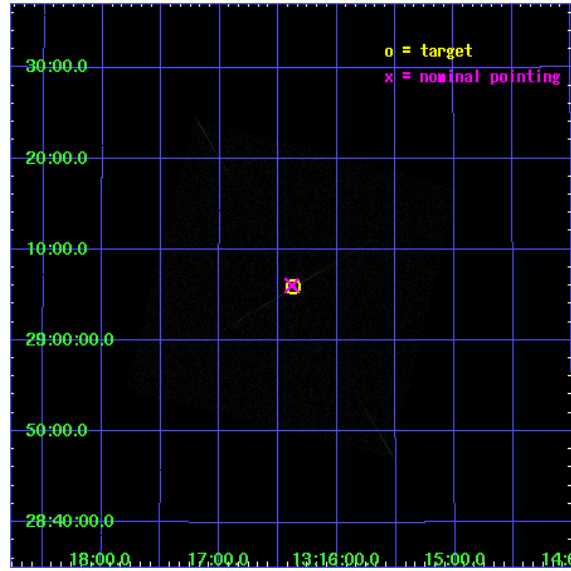
L2 Processing Date : Nov 23 2007

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# 1 Front

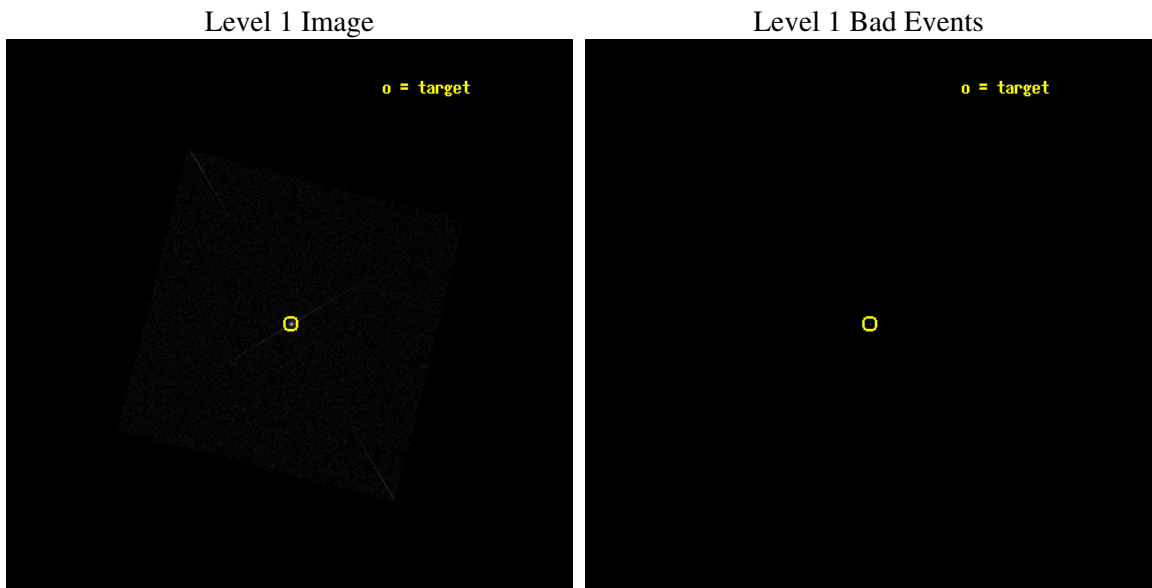
seq_num	290316
obs_id	5043
title	AO5 Calibration Observations of HZ43
observer	Dr. CXC Calibration
object	HZ43
ra_targ	199.092083
dec_targ	29.099
ra_nom	199.09576309317
dec_nom	29.101548035138
roll_nom	59.193112626631
revision	3
ontime	1981.5813361406
livetime	1970.4984172604
l2events	65760



## 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	2007-11-23T21:17:17
revision	3

sched_exp_time	2000.000000
ontime	1981.5813361406
l1events	97573

### 2.1.3 Events

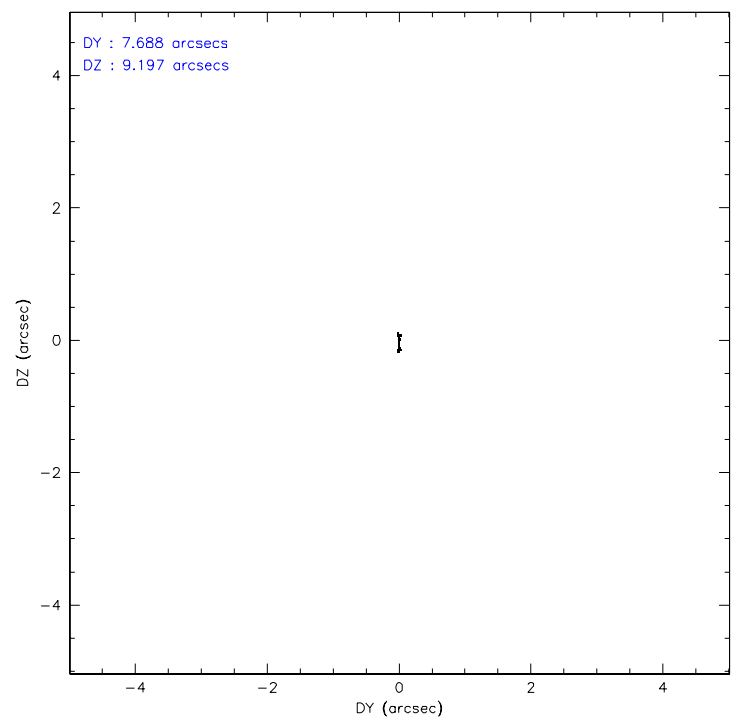
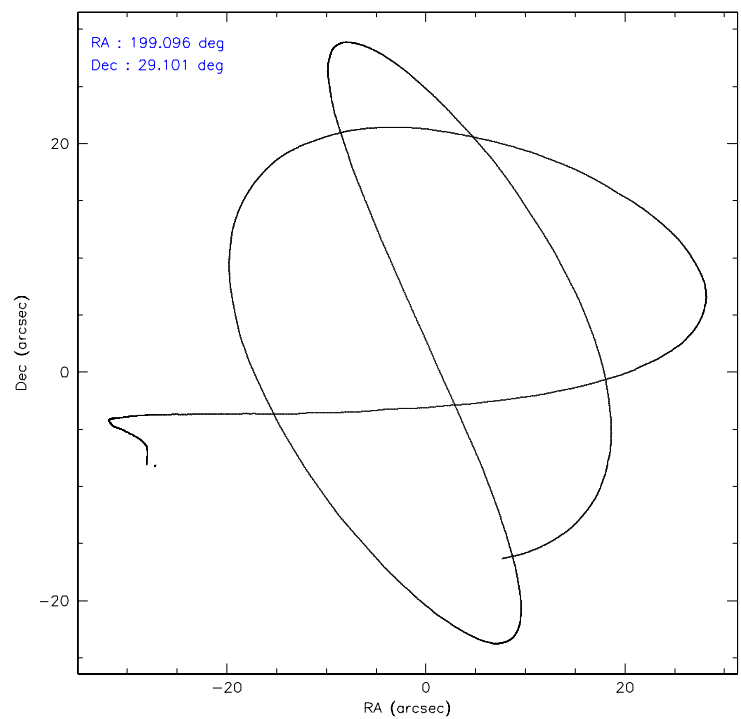
#### Level 1 Events

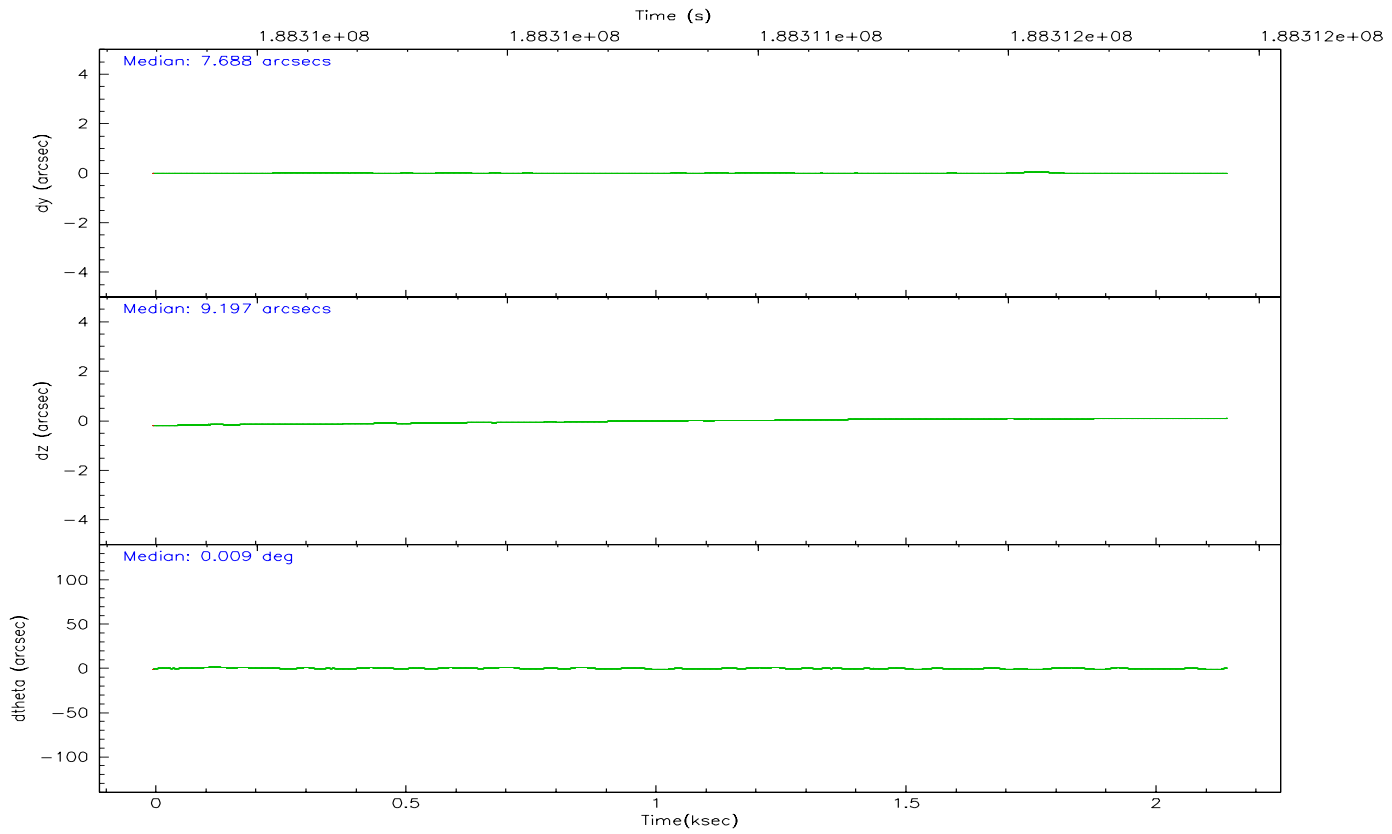
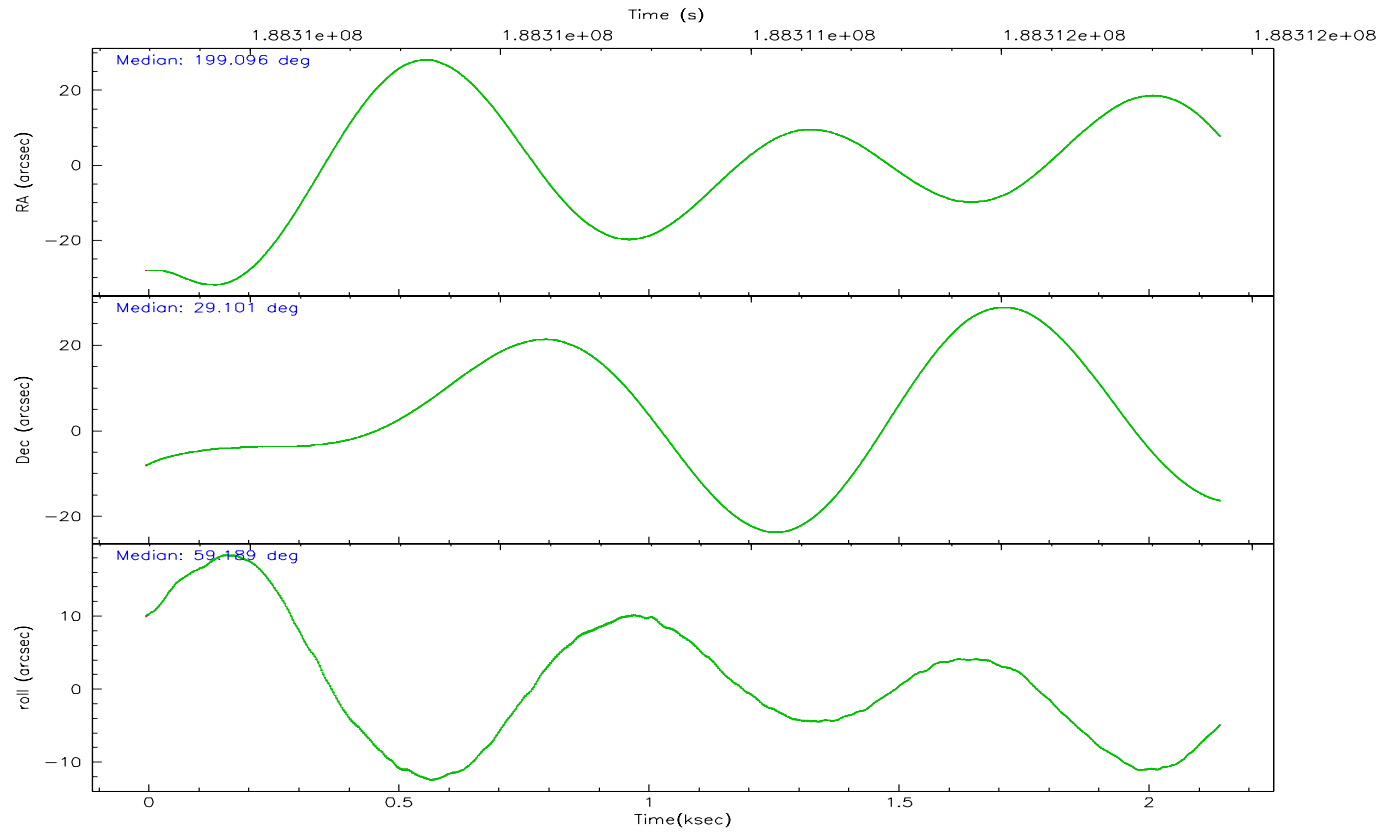
	<b>segment 0</b>
level 1 events	97573
rejected events	5088
rejected %	5%

## 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	LETG	LETG	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
Pointing RA	199.096200	199.0957630931731			
Pointing Dec	29.074375	29.10154803513808			
Pointing Roll	59.288415	59.19311262663096			
Window start time	186624064.184000	186624064.184000			
Window stop time	191894464.184000	191894464.184000			
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	188309936.184000	188309102.87977			
Observation start date	2003-12-20T12:17:52	2003-12-20T12:05:02			
Observation end time	188311936.184000	188312793.39243			
Observation end date	2003-12-20T12:51:12	2003-12-20T13:06:33			

### 2.3 Aspect





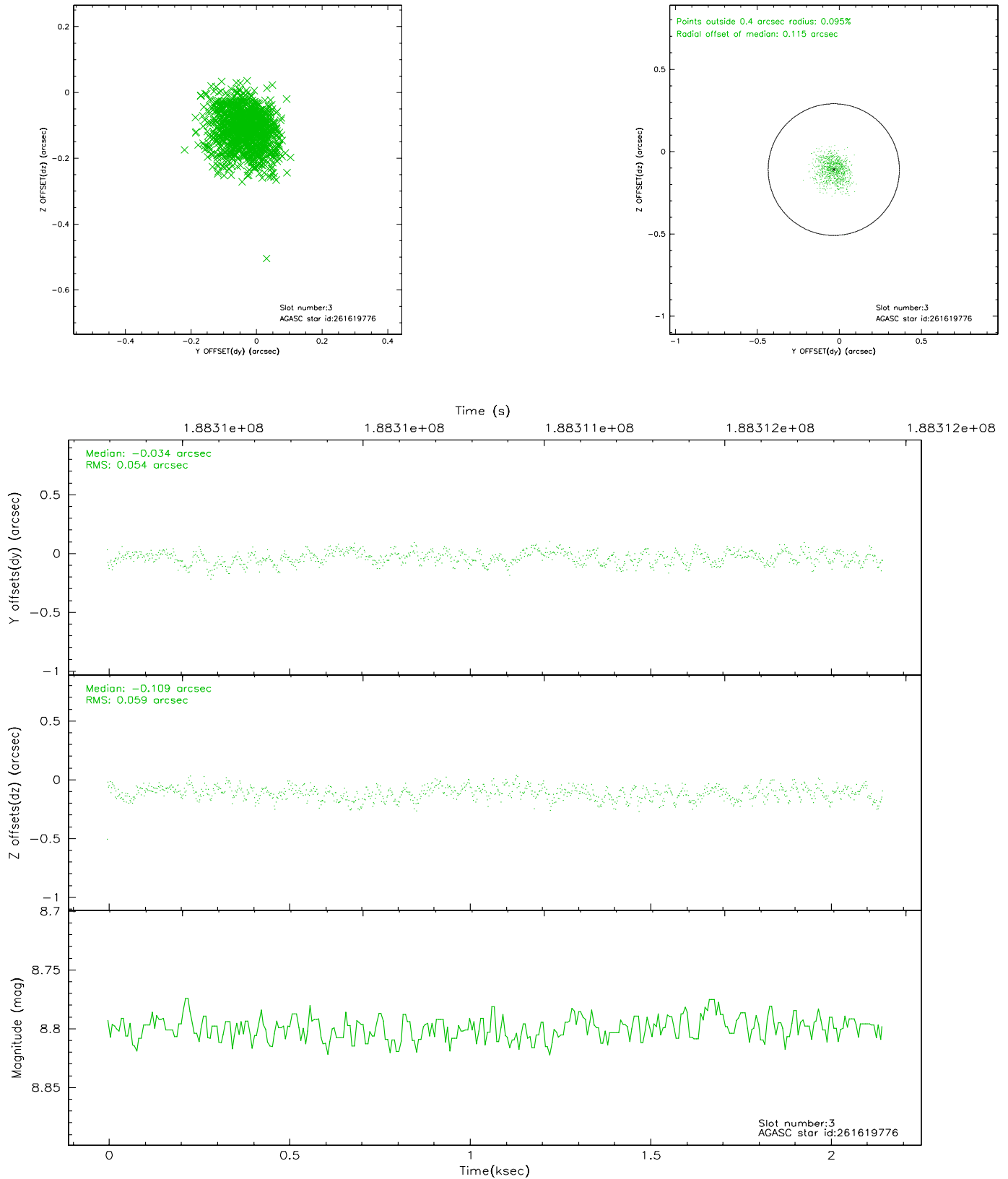
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	7.00	525	-0.010	0.059	0.007	0.011	0.000000	0.000000	-763.30	-1297.03
1	FID	HRC-I-2	7.03	525	0.125	-0.089	0.006	0.013	0.000000	0.000000	848.01	-1301.22
2	FID	HRC-I-3	7.09	525	0.005	-0.060	0.007	0.015	0.000000	0.000000	-1190.15	1004.94
3	GUIDE	261619776	8.80	1049	-0.034	-0.109	0.084	0.137	198.654383	29.401174	305.89	1792.64
4	GUIDE	261621400	6.98	1049	0.119	0.120	0.062	0.096	198.901600	28.741982	-1341.63	-81.45
5	GUIDE	261623040	9.13	1048	-0.195	-0.151	0.088	0.134	198.792686	29.757643	1629.86	2071.80
6	GUIDE	261626376	9.71	1048	0.061	-0.031	0.103	0.174	198.947288	29.347445	608.37	905.58
7	GUIDE	261629720	8.10	1048	0.047	0.187	0.061	0.103	199.236176	29.044452	133.32	-433.13

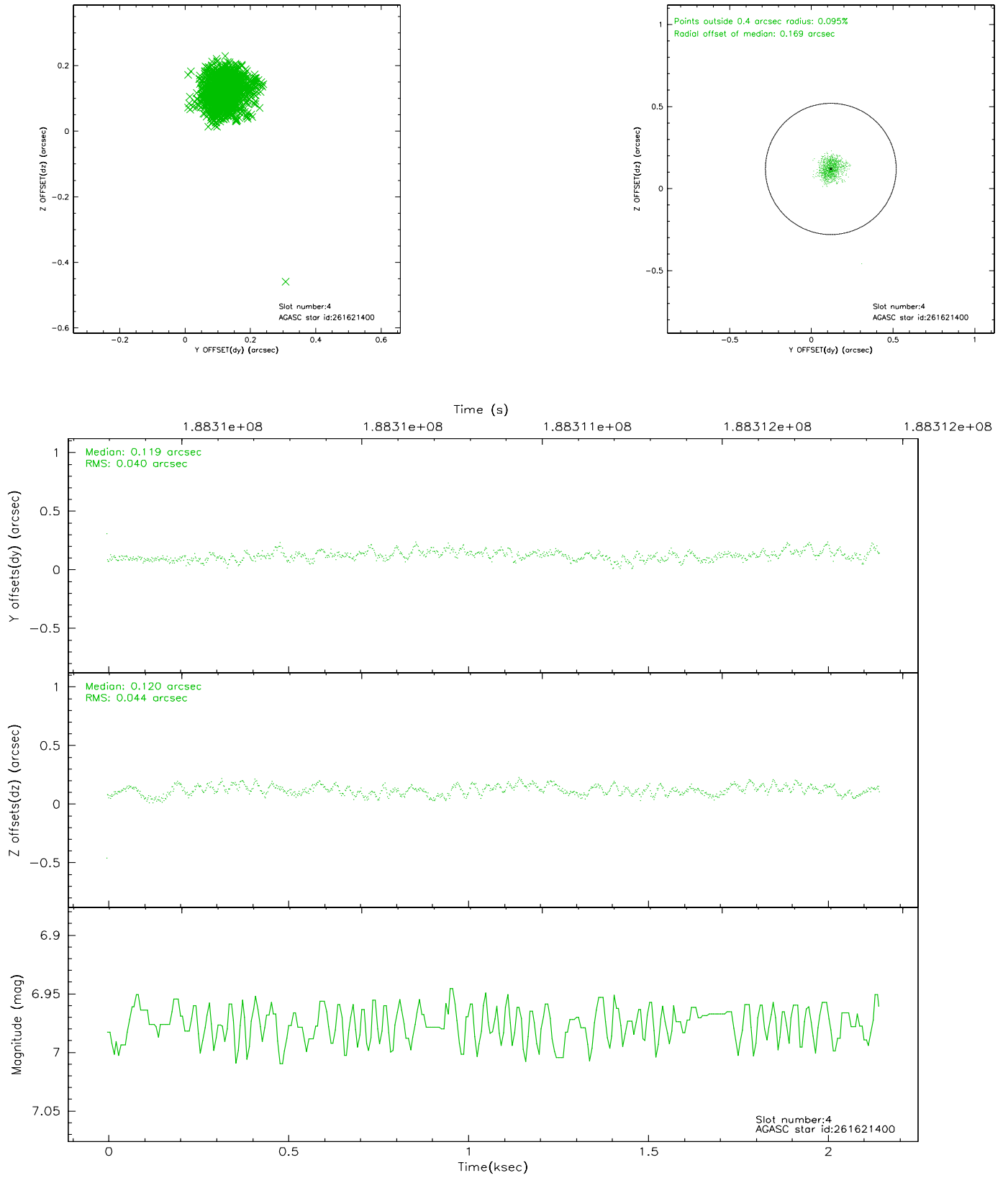


## 2.4 Star Slots

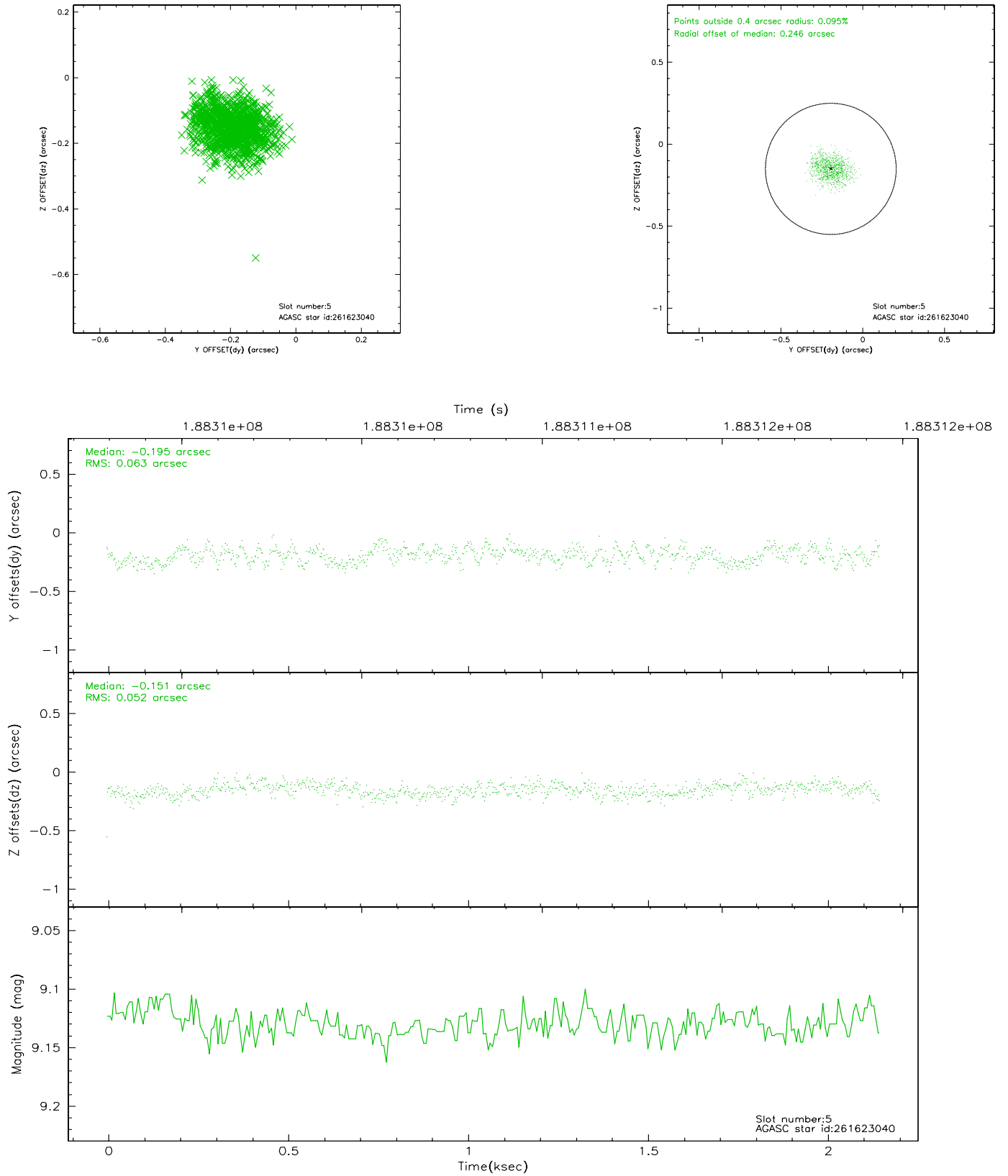
### 2.4.1 Slot 3



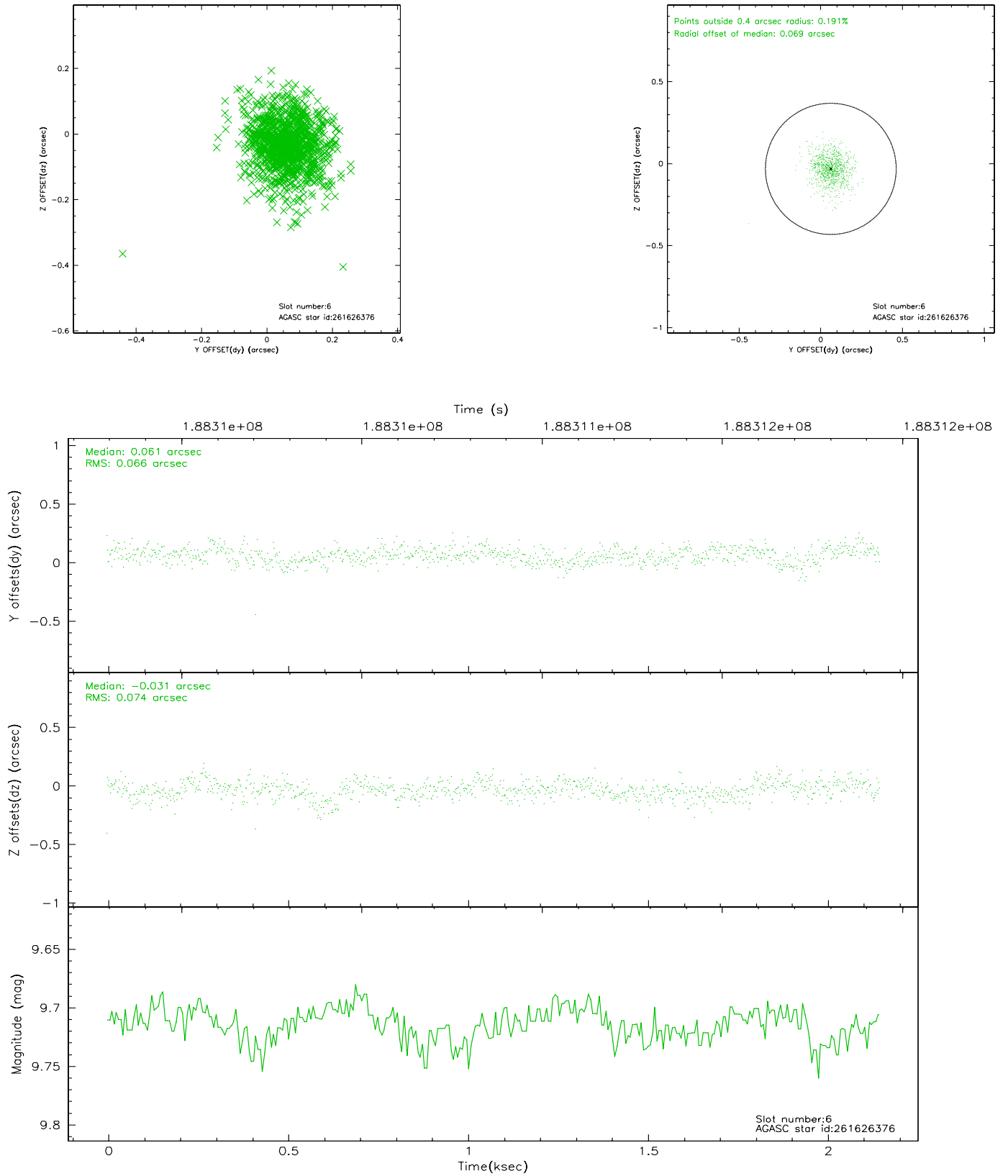
## 2.4.2 Slot 4



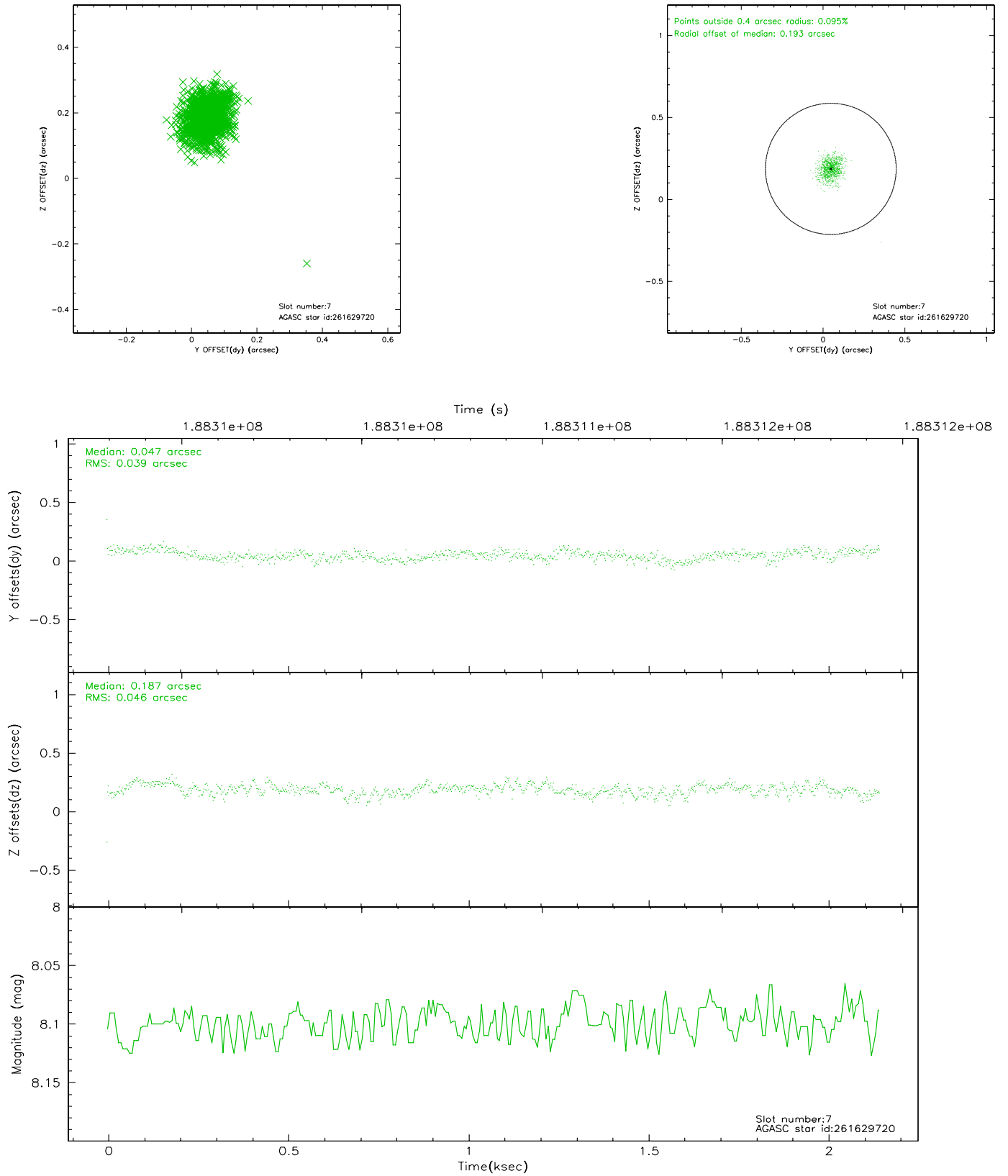
### 2.4.3 Slot 5



## 2.4.4 Slot 6

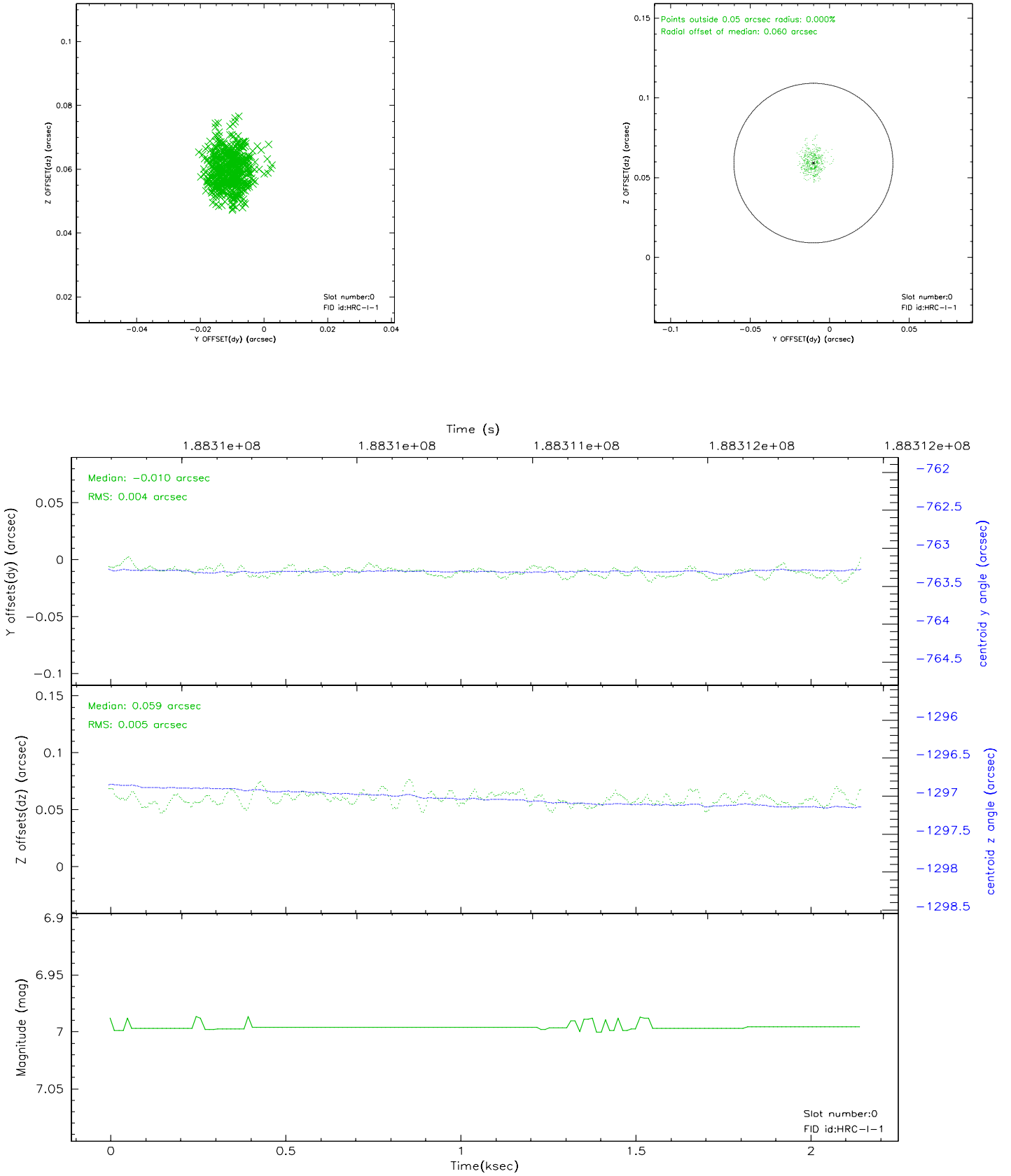


## 2.4.5 Slot 7

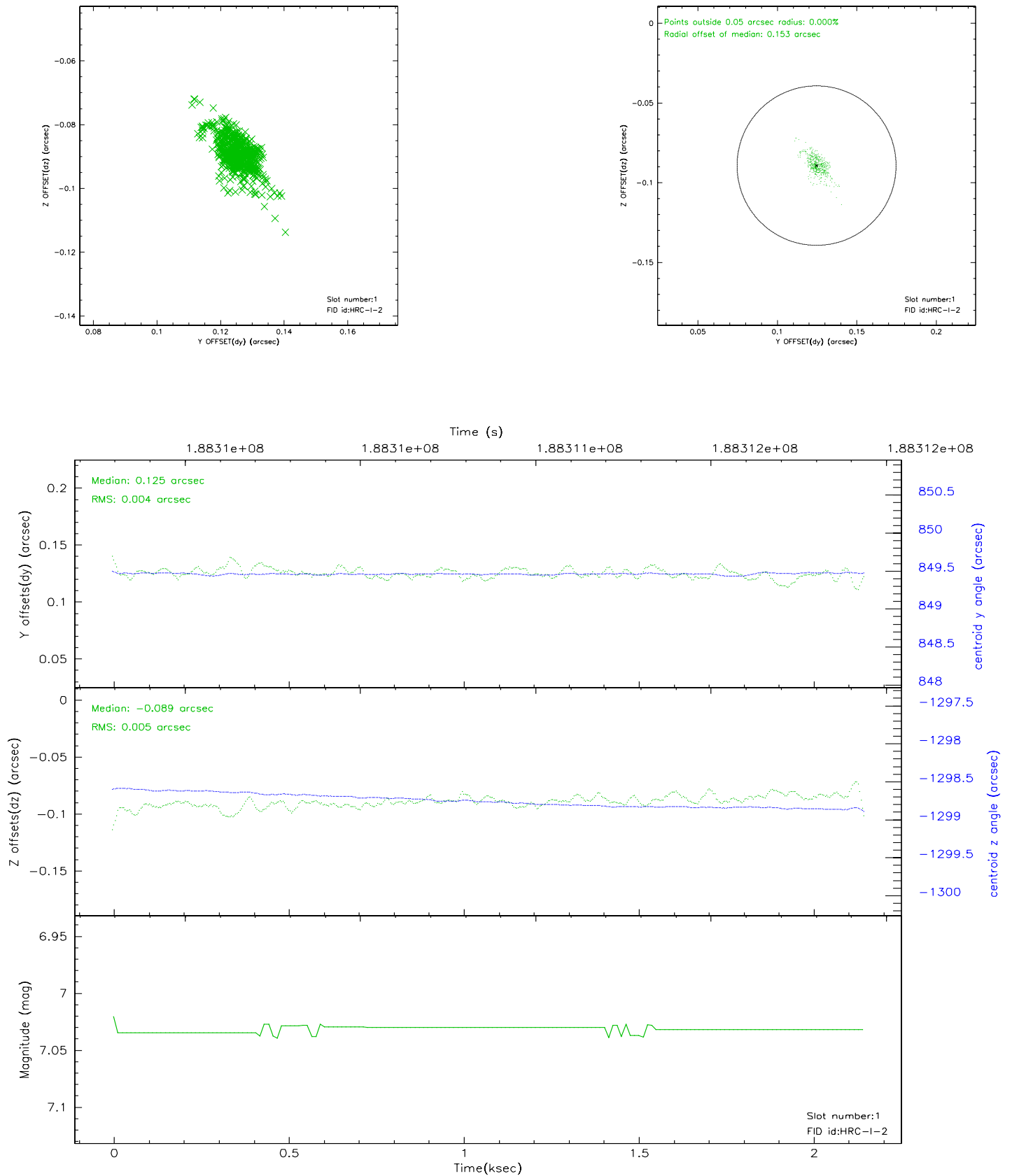


## 2.5 FID Slots

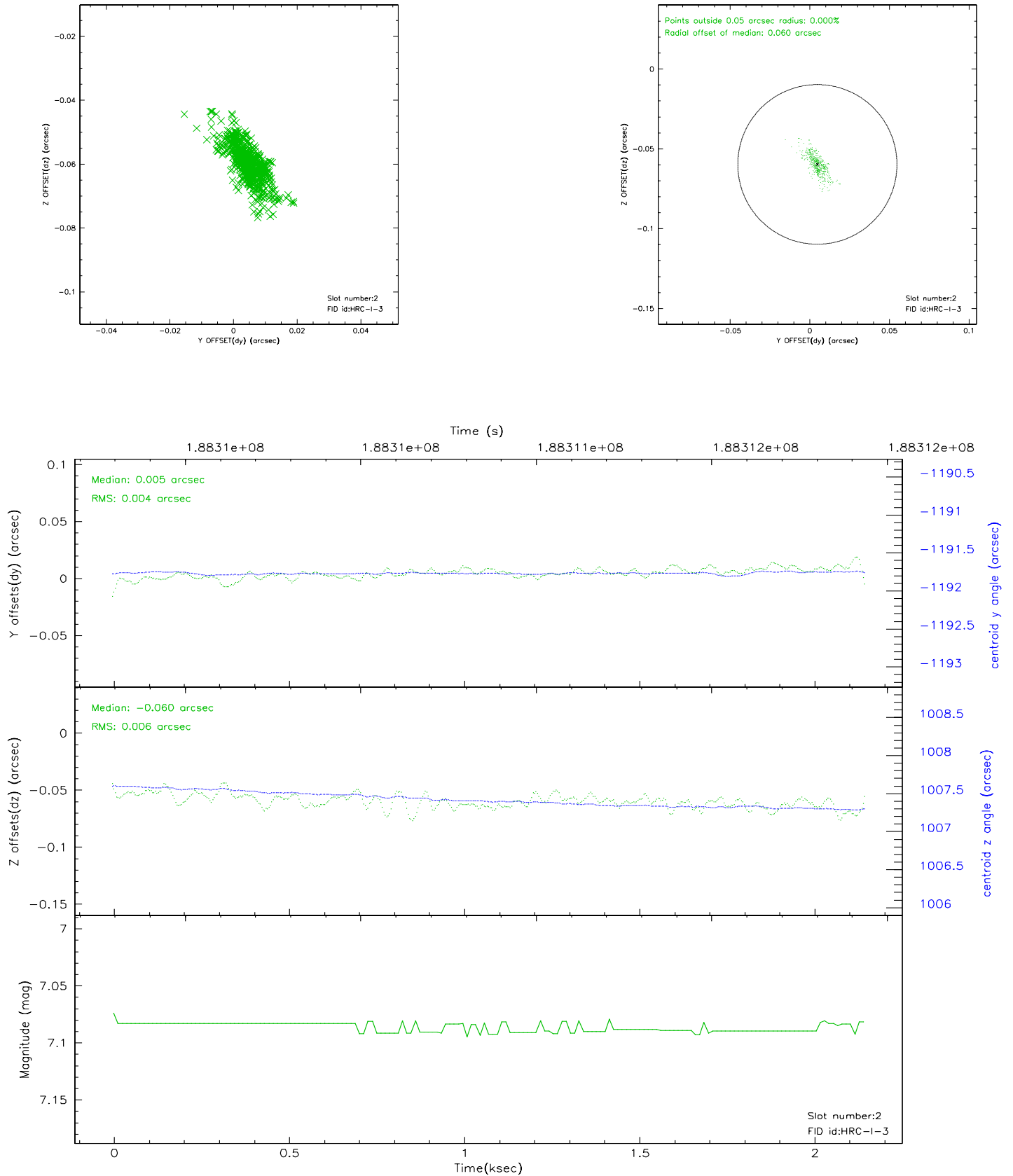
### 2.5.1 Slot 0



## 2.5.2 Slot 1



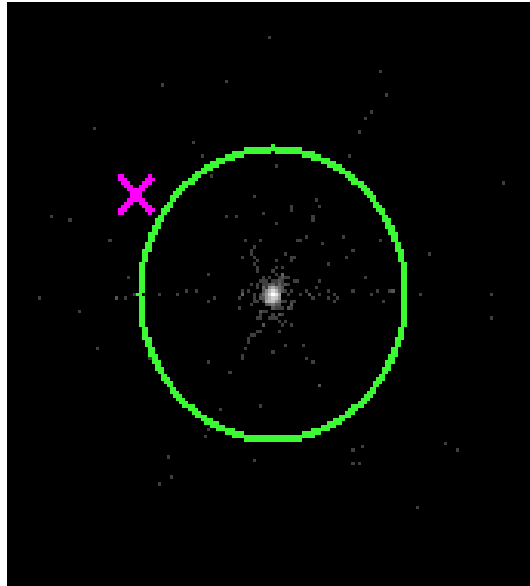
### 2.5.3 Slot 2



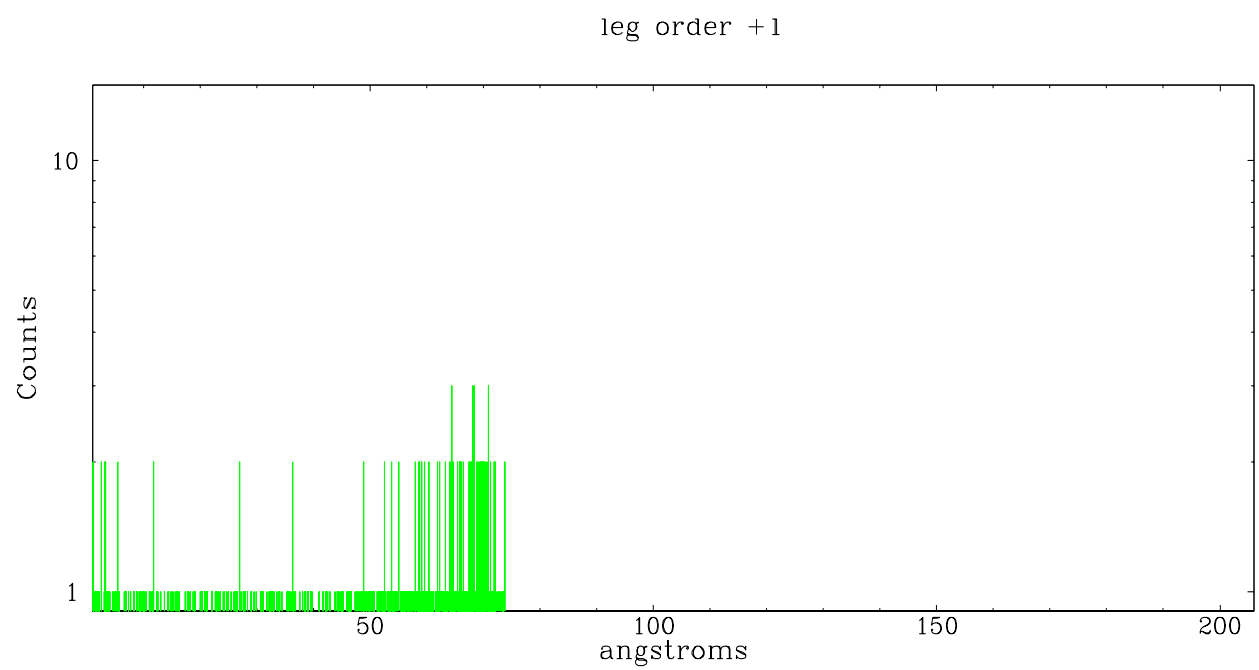
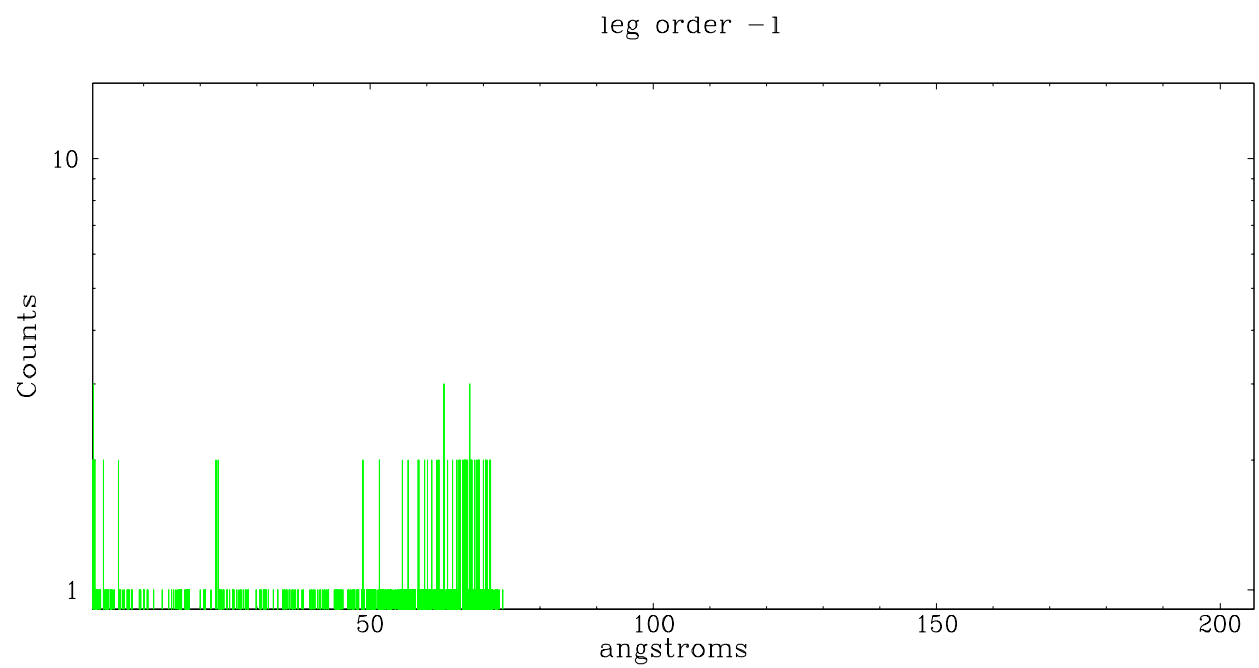


## 3 Gratings

### 3.1 LETG Arm



LETG Zero Order



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2007.12.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.981

## A.2 Comments

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.