

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 3503 - L2 Version 001  
Chandra X-Ray Center

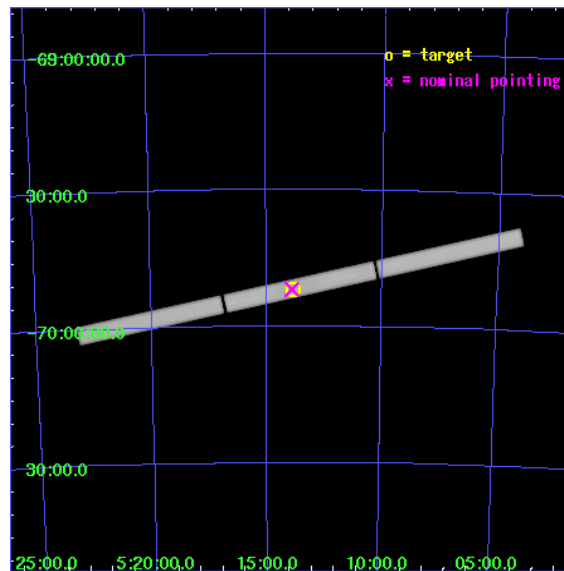
L2 Processing Date : Jun 22 2006

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# 1 Front

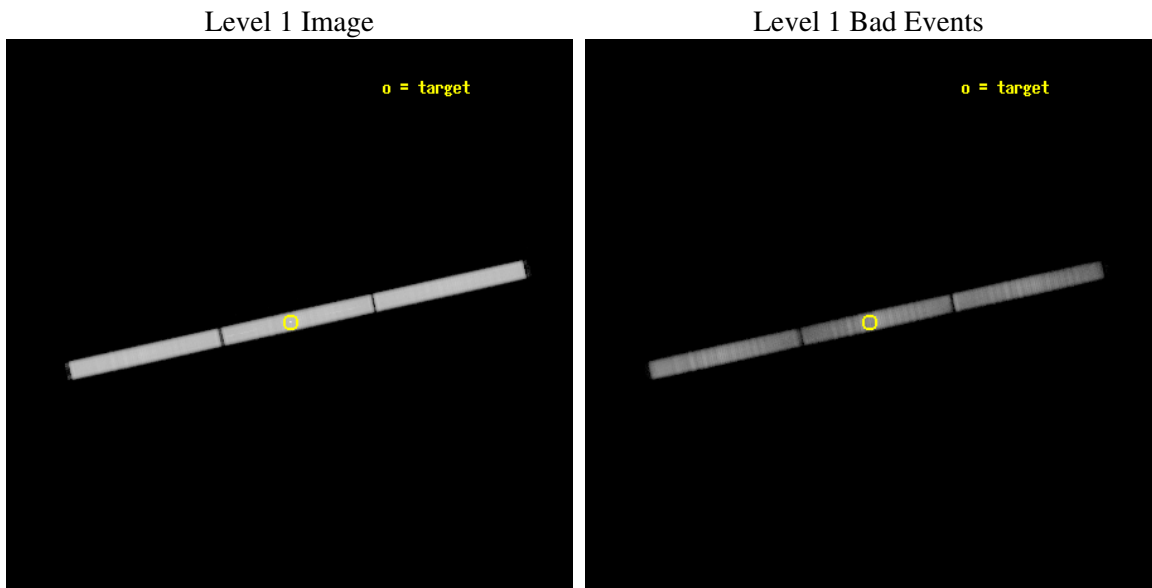
seq_num	300091
obs_id	3503
title	NEAR-EDDINGTON ACCRETION IN THE BINARY SUPERSOFT X-RAY SOURCE RX J0513.3-6951
observer	Dr. Peter Predehl
object	RXJ0513.9-6951
ra_targ	78.461667
dec_targ	-69.863056
ra_nom	78.47472821853
dec_nom	-69.864201825035
roll_nom	347.4997340766
revision	2
ontime	47981.533336163
livetime	47662.921207207
l2events	2705110



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	1
ascdsver	7.6.8
caldsver	3.2.2
date	2006-06-22T08:53:23
revision	2

sched_exp_time	48000.000000
ontime	48061.227089614
l1events	3715549

### 2.1.3 Events

Level 1 Events

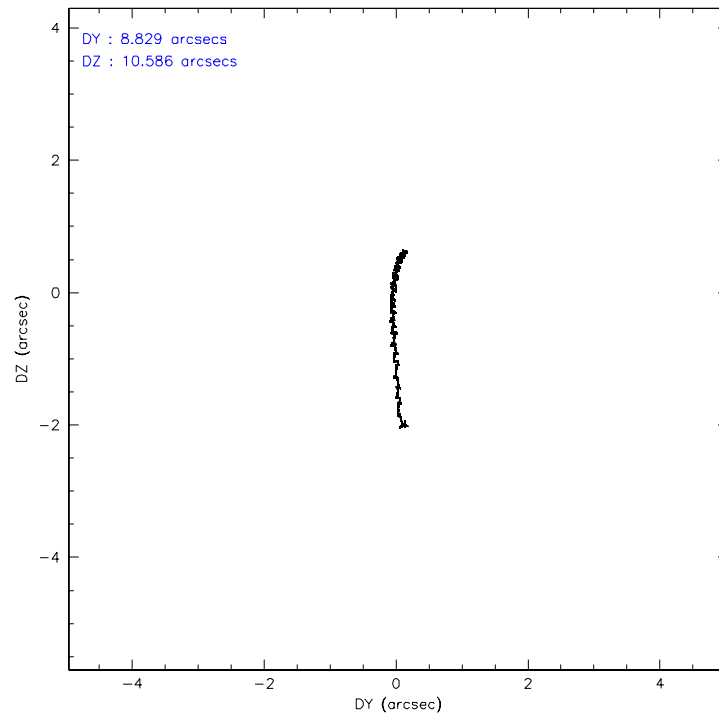
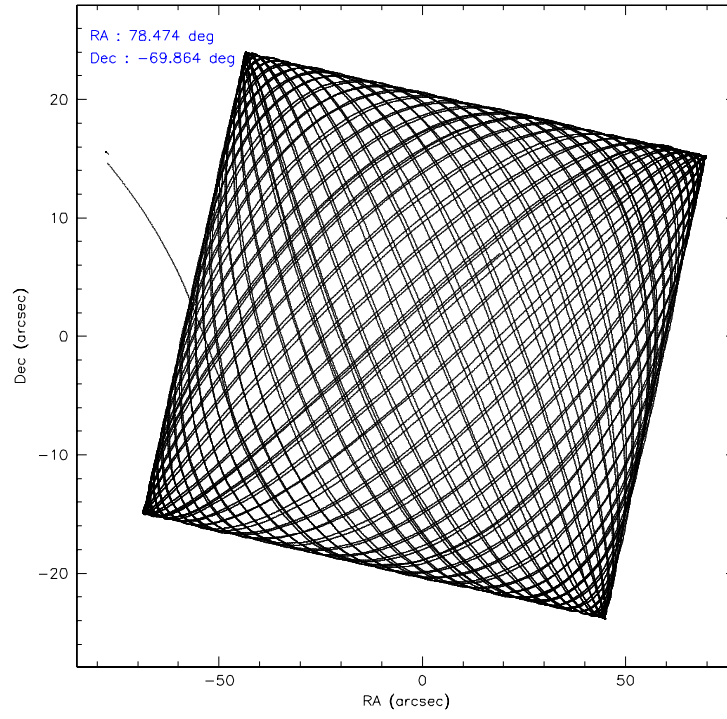
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1281964	1207954	1225631
rejected events	208752	229244	261028
rejected %	16%	18%	21%

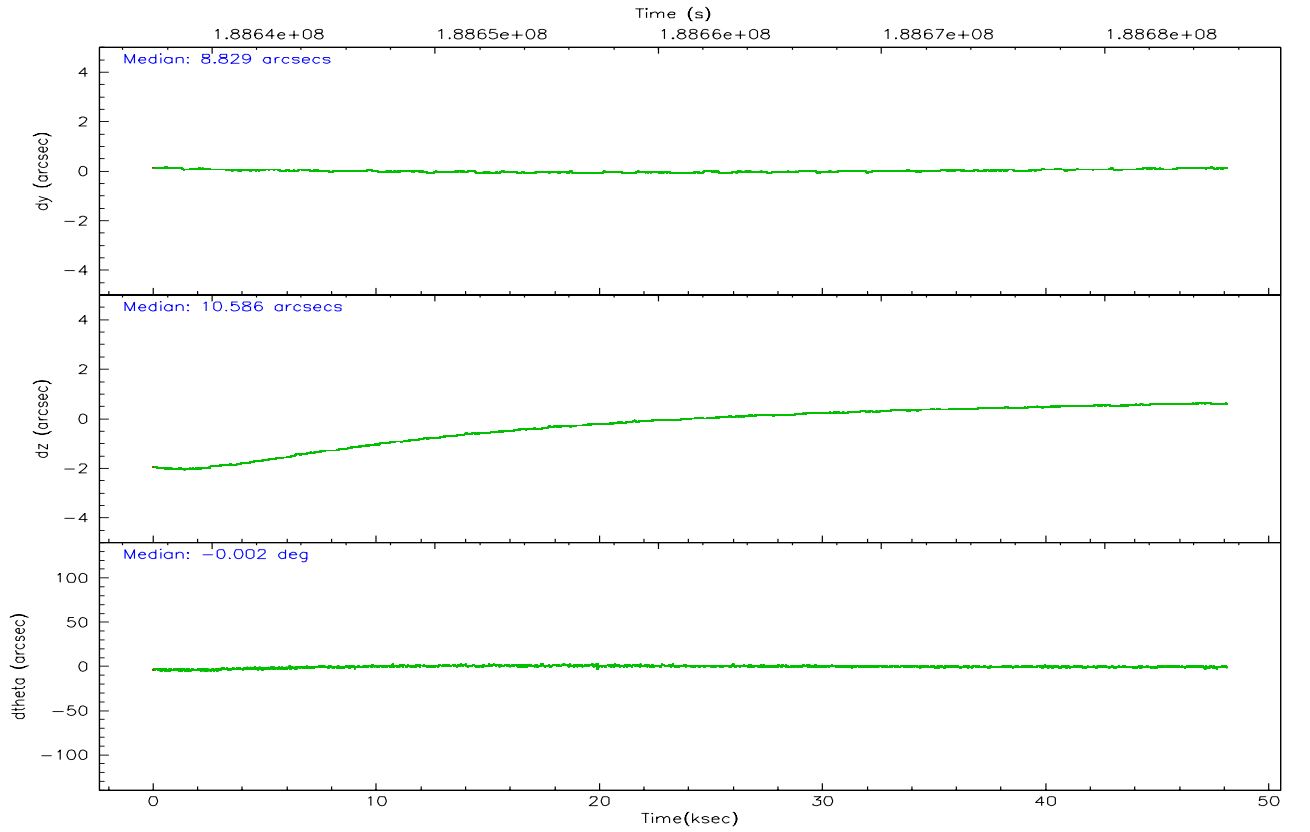
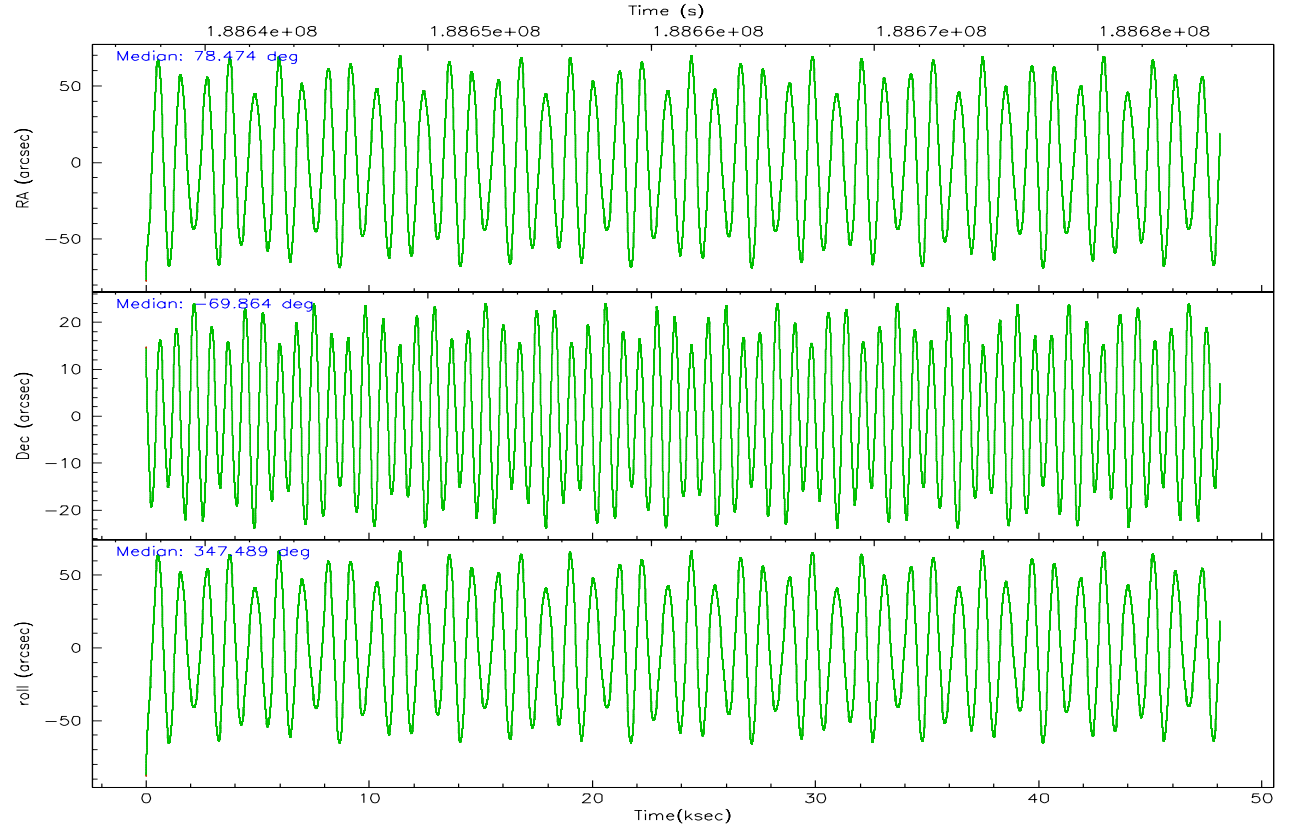


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	6	6
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	LETG	LETG	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
Pointing RA	78.396908	78.47472821852993			
Pointing Dec	-69.874123	-69.86420182503505			
Pointing Roll	347.359343	347.4997340765952			
SIM focus pos (mm)	-1.429586	-1.428180813131781			
SIM defocus (mm)	0.1037507710433287	0.1051558262725154			
SIM translation stage pos (mm)	250.455976	250.4635187648994			
SIM translation stage offset (mm)	0	-0.007540371344731511			
Observation start time	188637495.184000	188636593.9815			
Observation start date	2003-12-24T07:17:11	2003-12-24T07:03:13			
Observation end time	188685495.184000	188685935.94615			
Observation end date	2003-12-24T20:37:11	2003-12-24T20:45:35			

## 2.3 Aspect



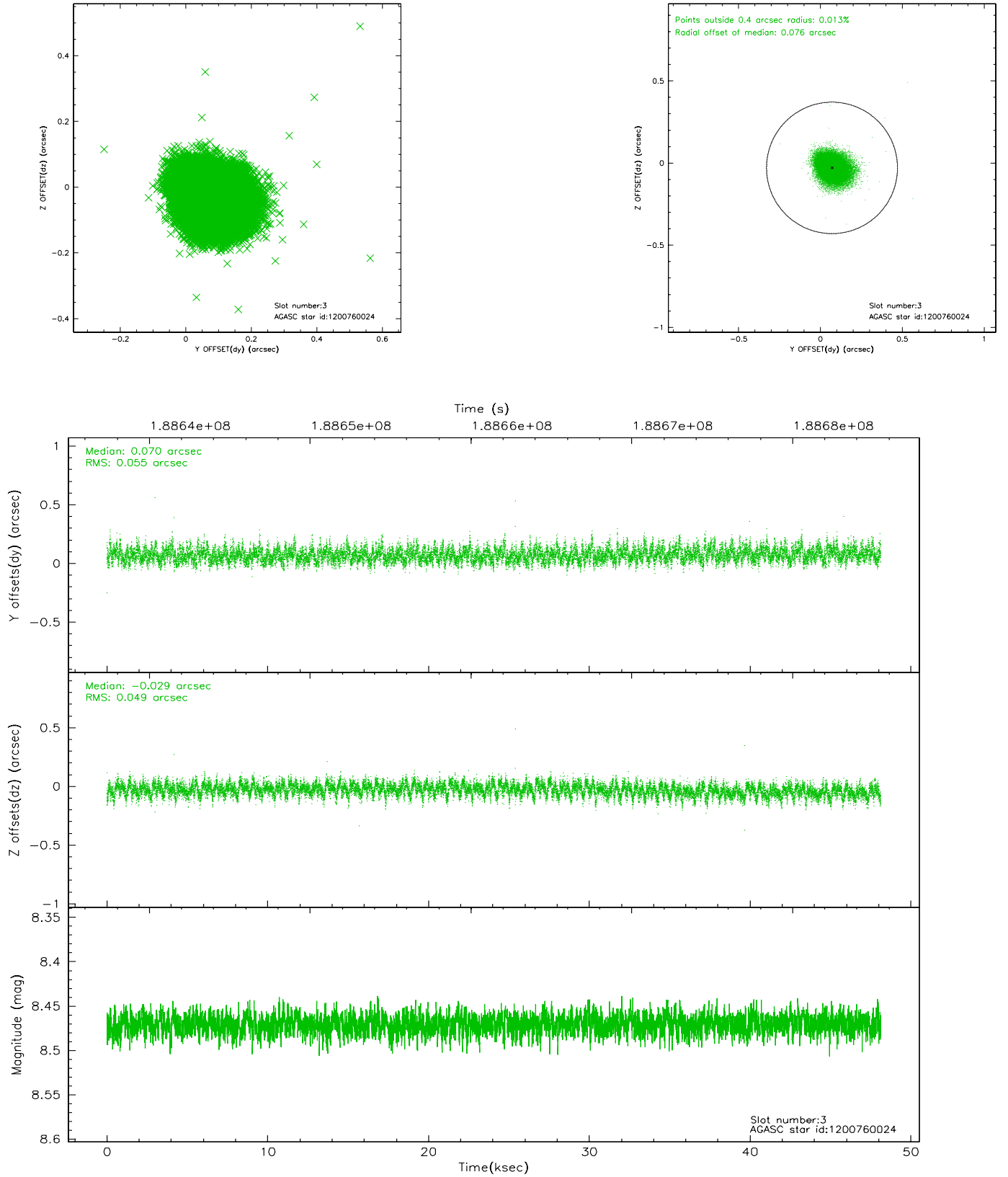


### Slot Statistics

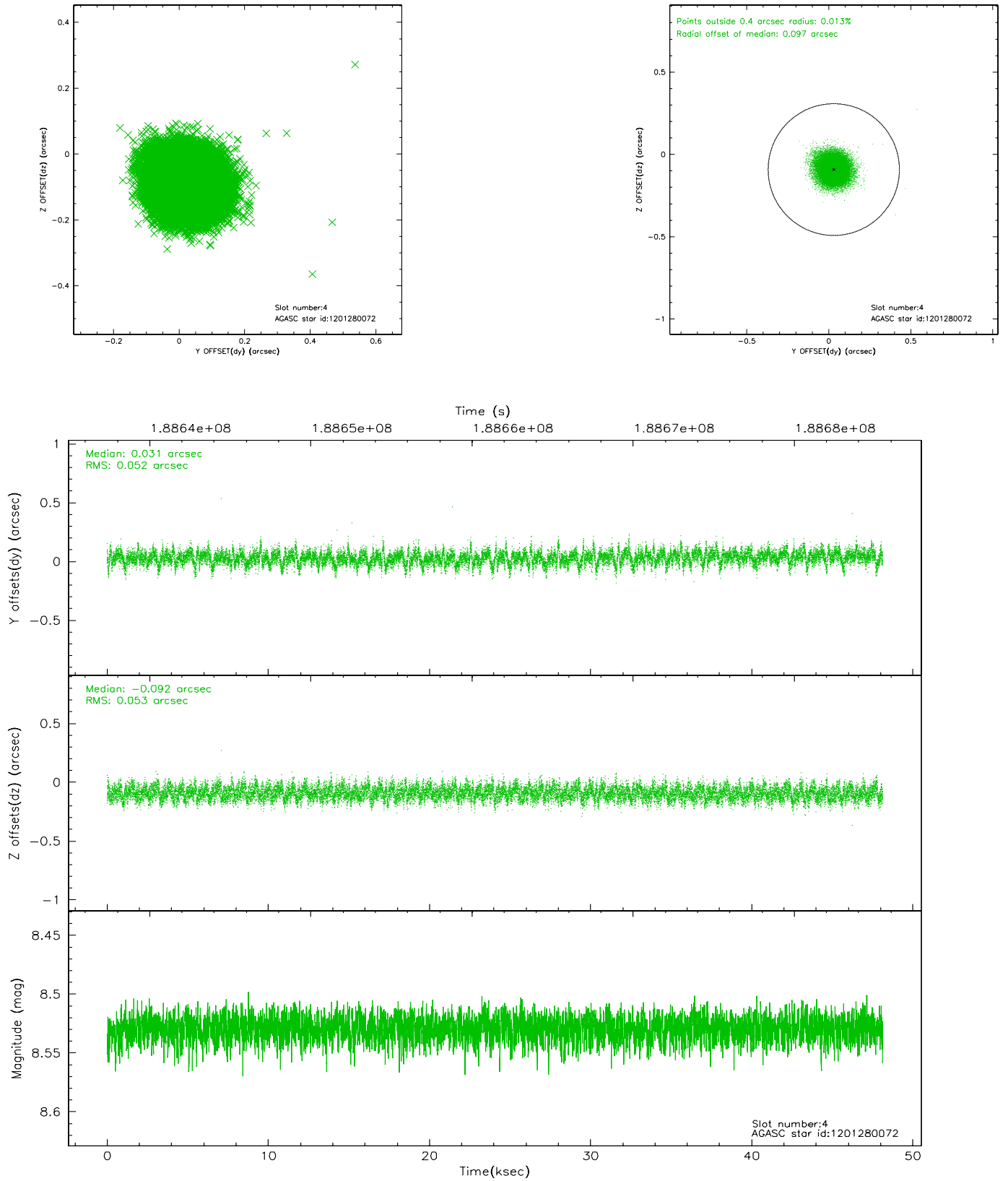
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	6.98	11741	0.151	-0.171	0.020	0.029	0.000000	0.000000	-1163.03	-458.95
1	FID	HRC-S-2	6.97	11742	0.117	-0.104	0.011	0.018	0.000000	0.000000	1236.52	-451.60
2	FID	HRC-S-3	6.99	11742	0.123	-0.026	0.023	0.034	0.000000	0.000000	-1165.65	570.69
3	GUIDE	1200760024	8.47	23481	0.070	-0.029	0.078	0.127	77.625244	-69.320410	-1391.93	1724.44
4	GUIDE	1201280072	8.53	23478	0.031	-0.092	0.079	0.128	77.357470	-69.714246	-1389.02	267.31
5	GUIDE	1201409432	9.03	23378	-0.026	0.116	0.094	0.165	79.317334	-70.259796	1398.21	-1117.41
6	GUIDE	1201411776	8.87	23470	-0.015	-0.000	0.081	0.132	79.010603	-70.456328	1181.44	-1886.34
7	GUIDE	1201407648	9.14	23471	-0.060	0.010	0.098	0.159	78.636737	-70.585025	841.01	-2434.48

## 2.4 Star Slots

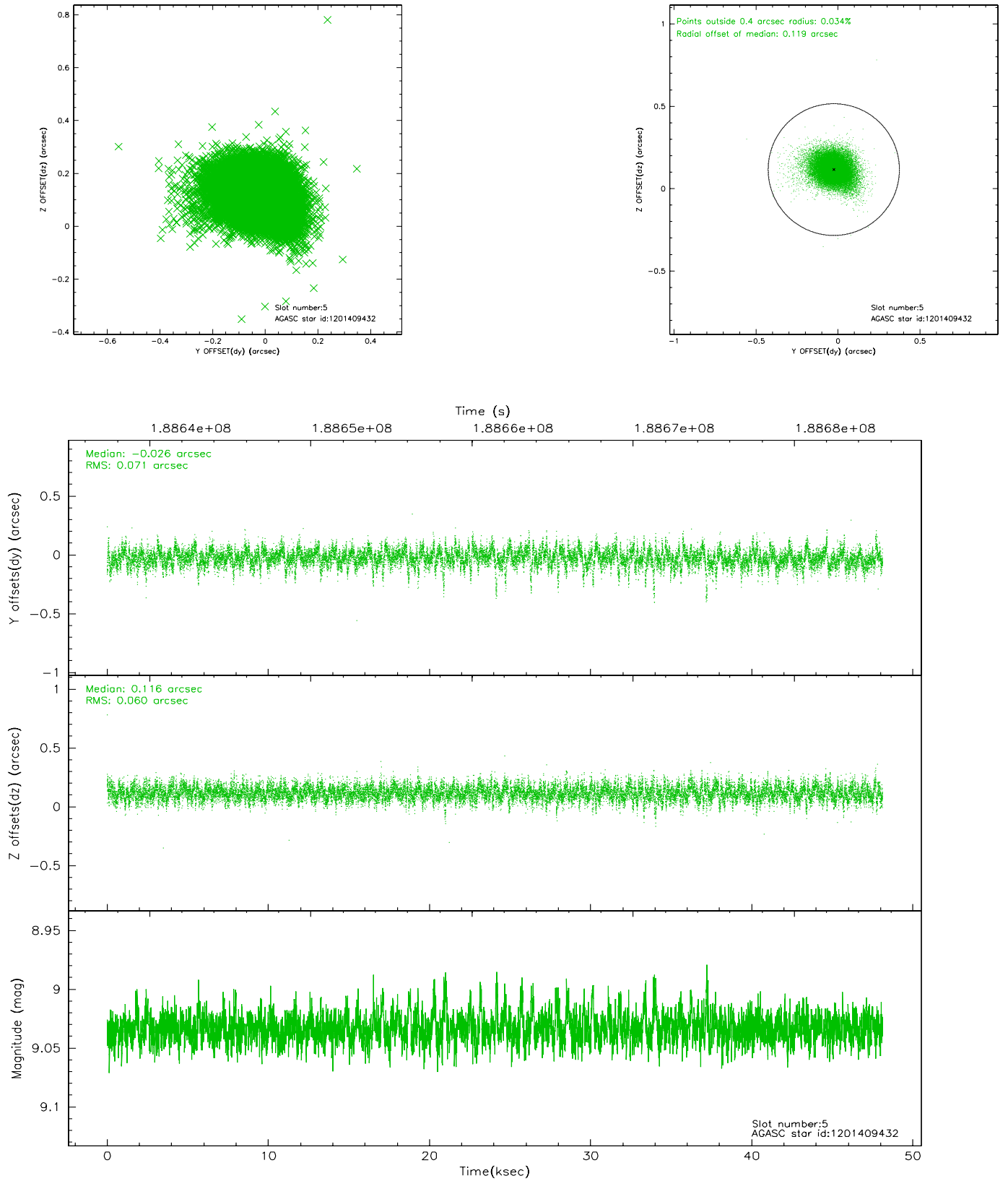
### 2.4.1 Slot 3



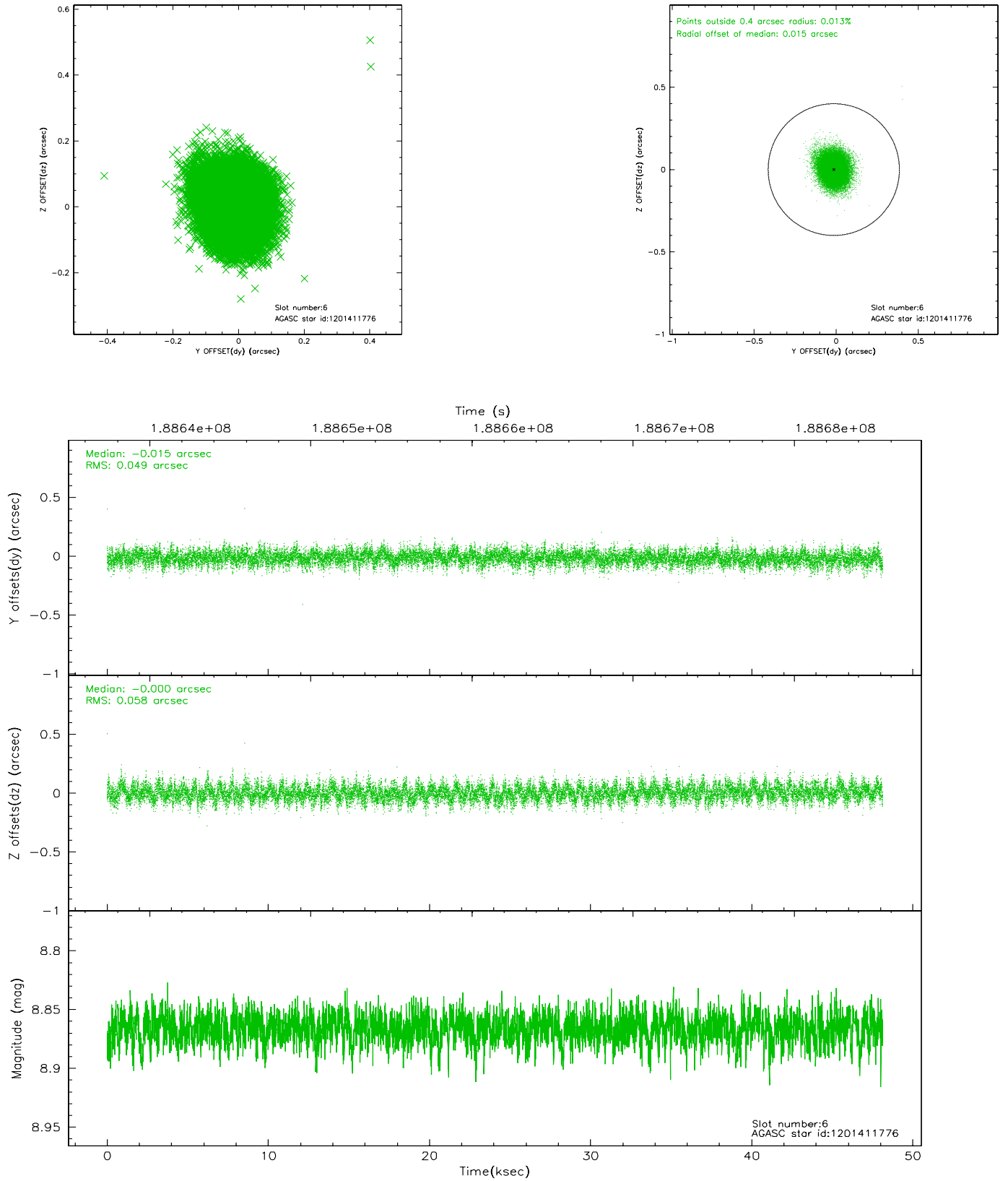
## 2.4.2 Slot 4



### 2.4.3 Slot 5

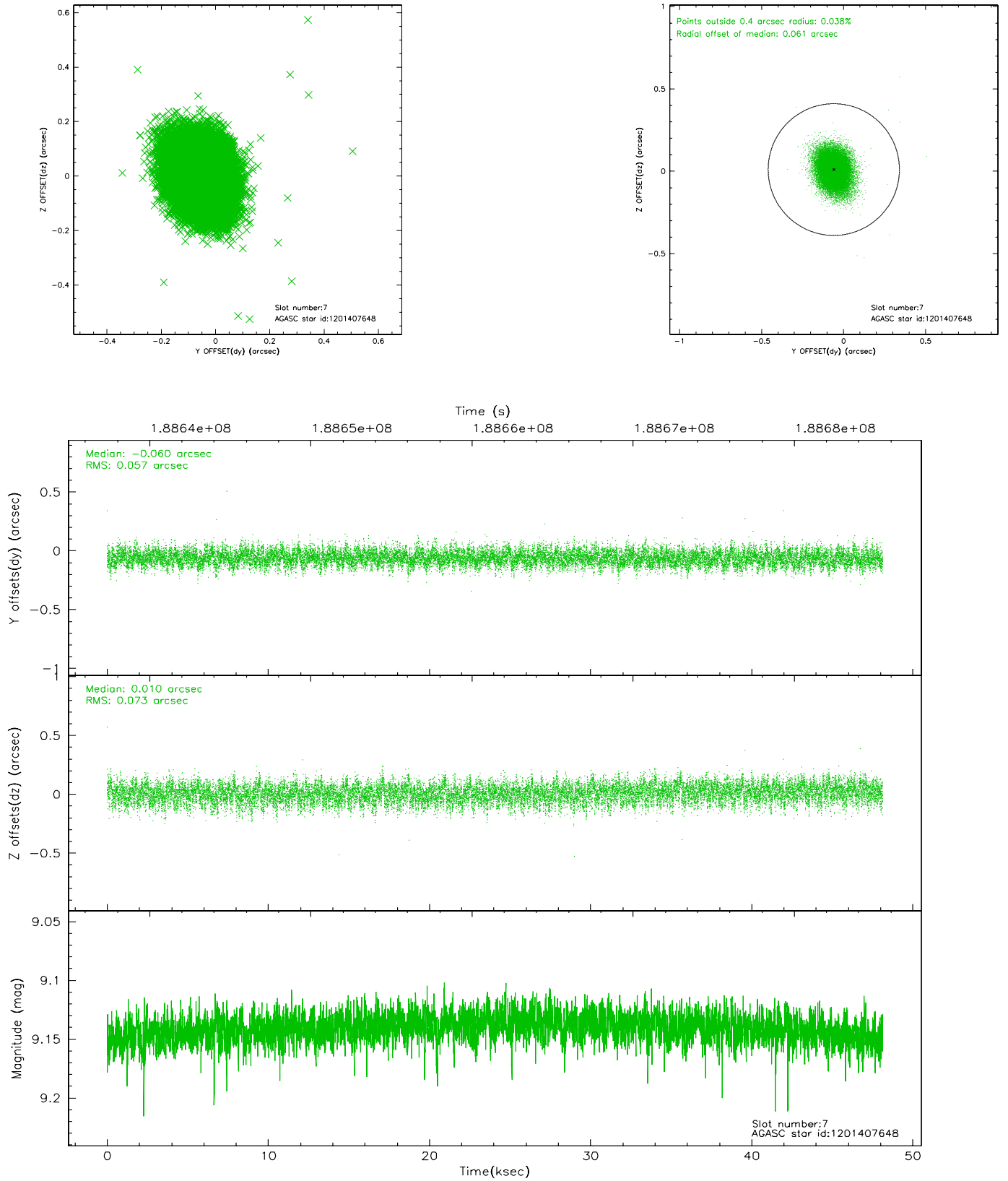


## 2.4.4 Slot 6



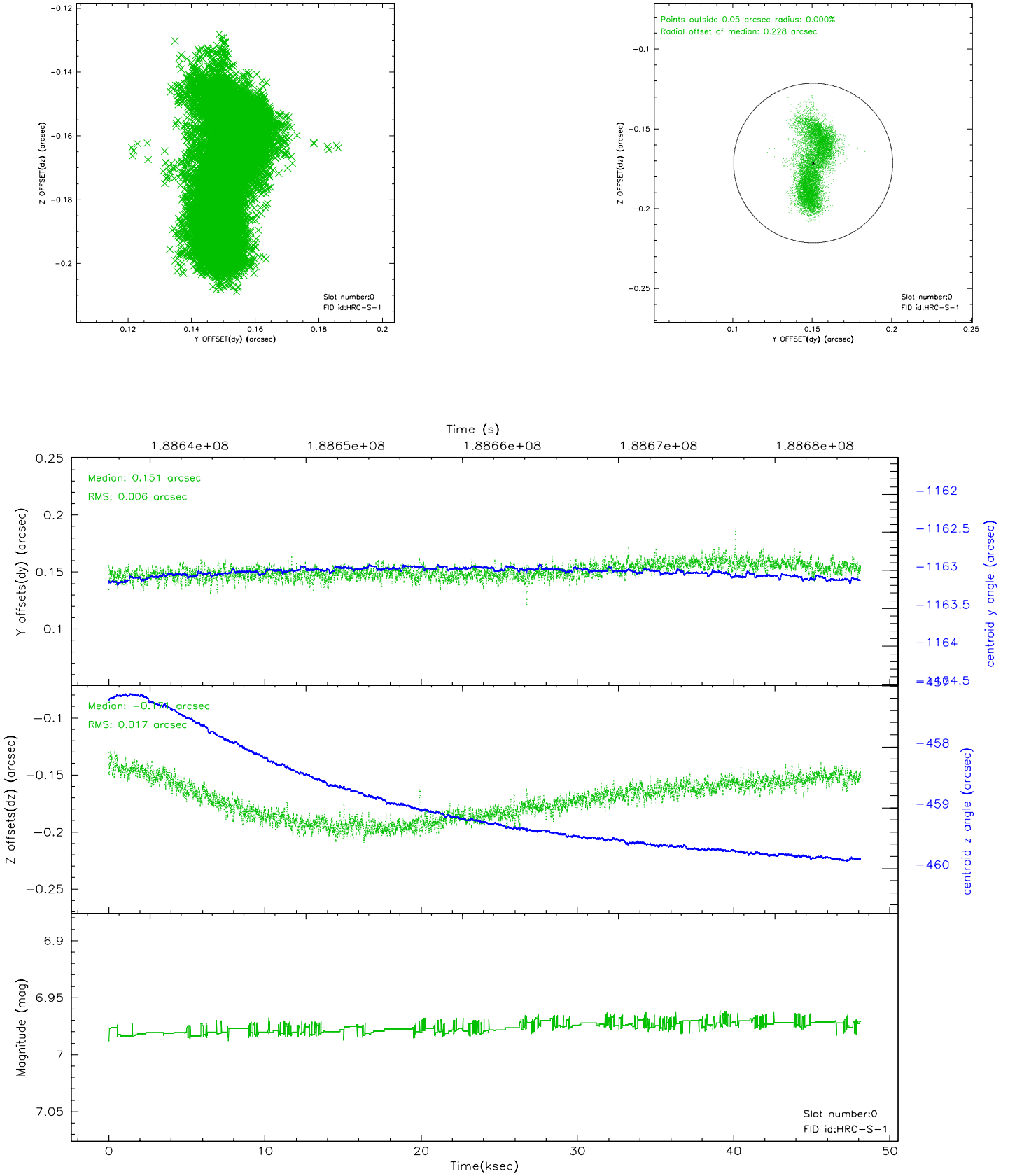


## 2.4.5 Slot 7

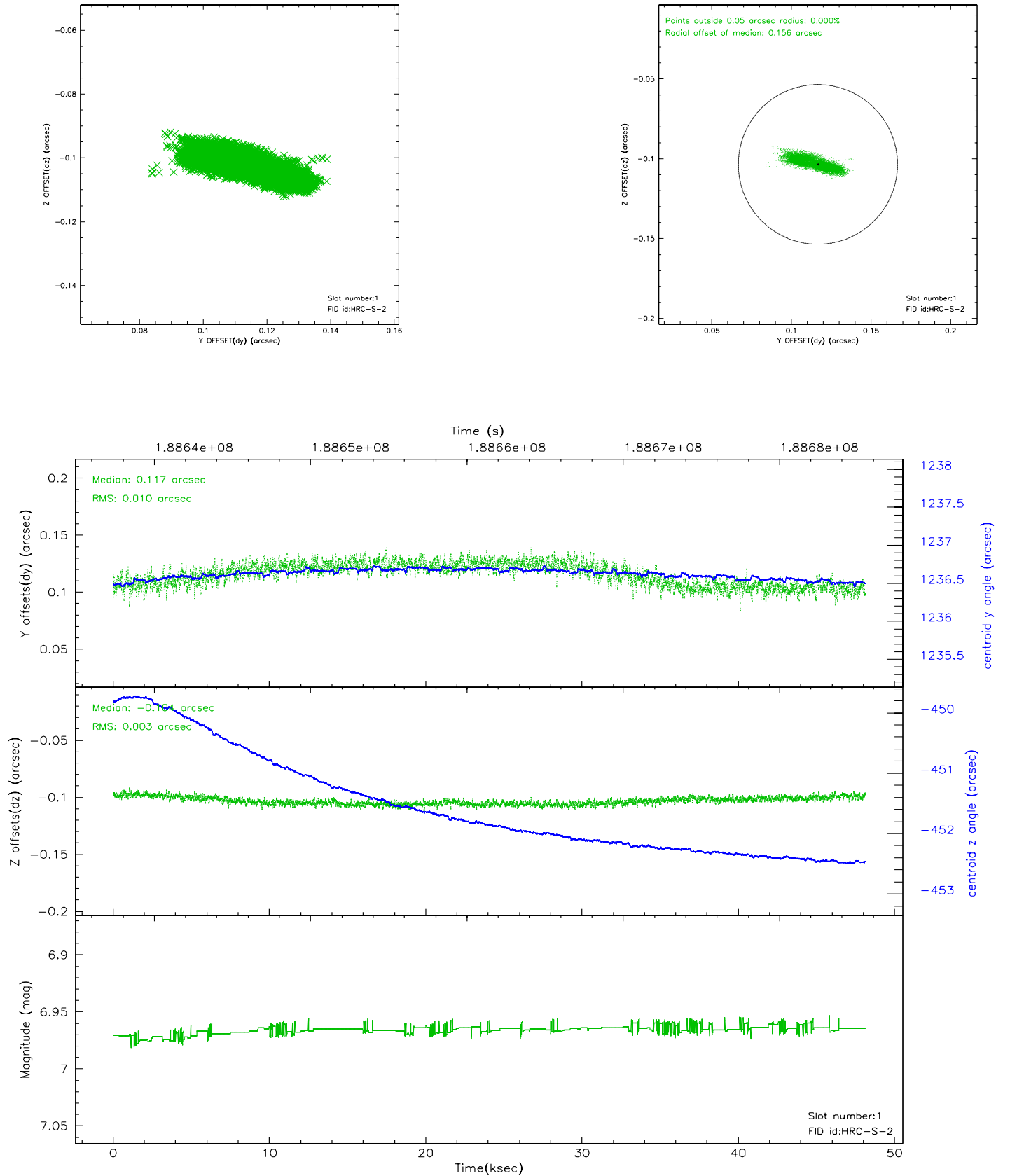


## 2.5 FID Slots

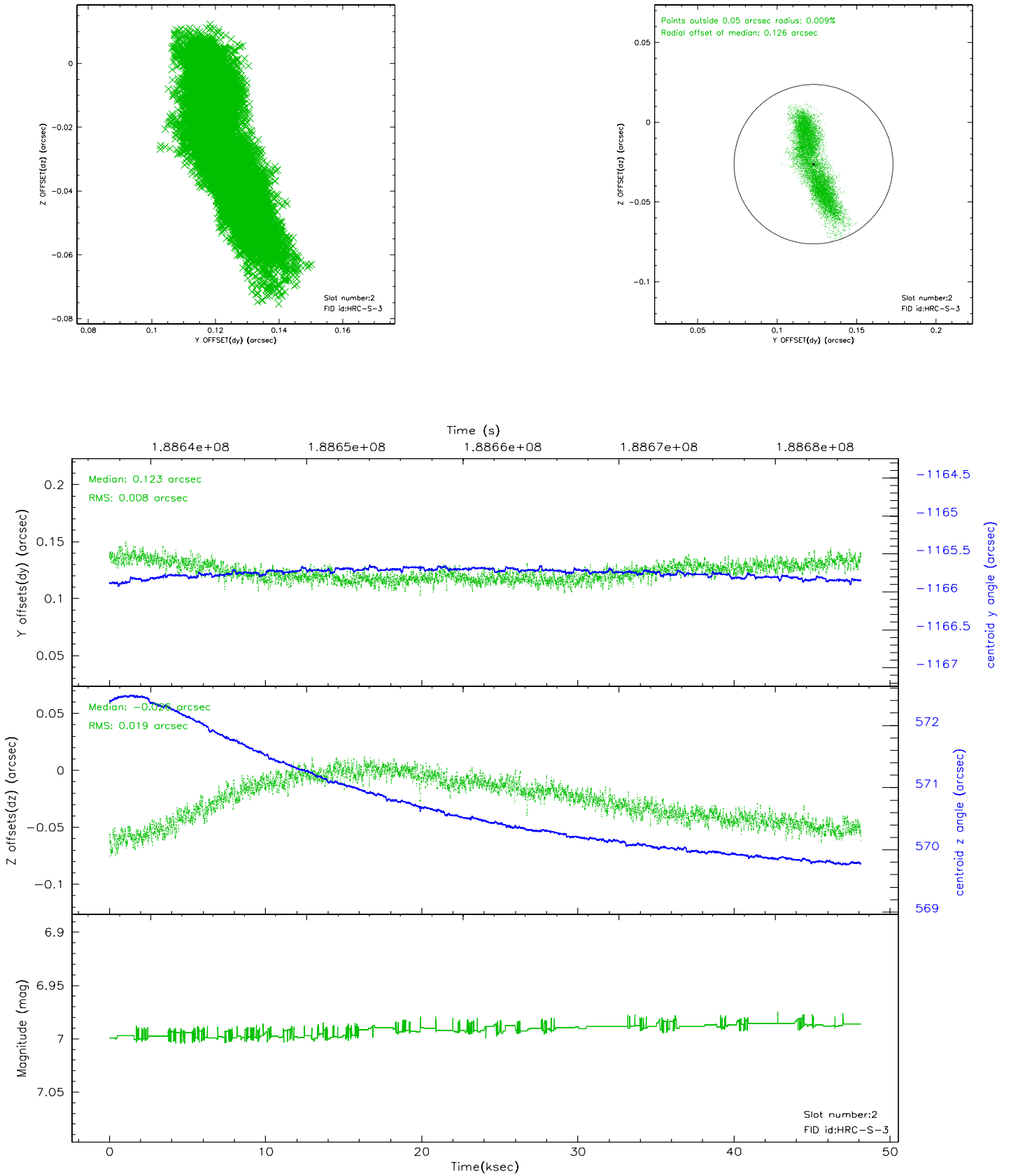
### 2.5.1 Slot 0



## 2.5.2 Slot 1

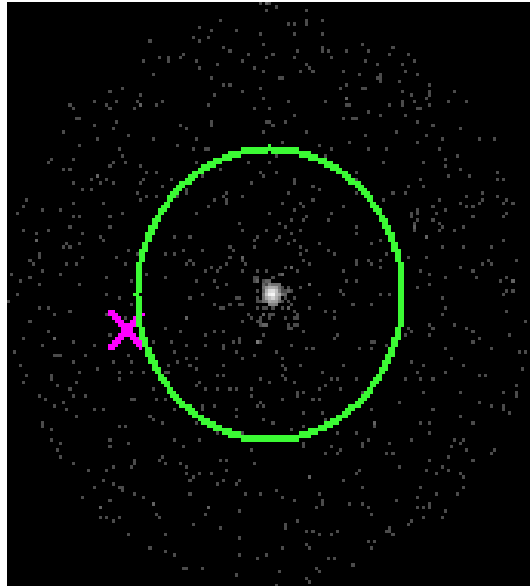


### 2.5.3 Slot 2



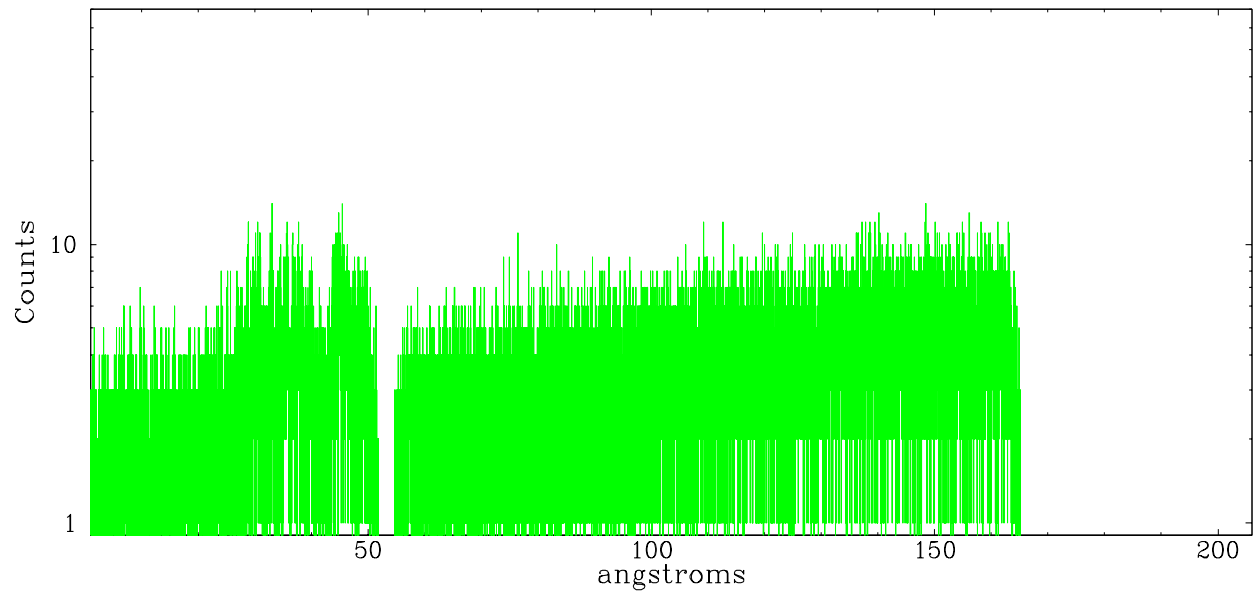
## 3 Gratings

### 3.1 LETG Arm

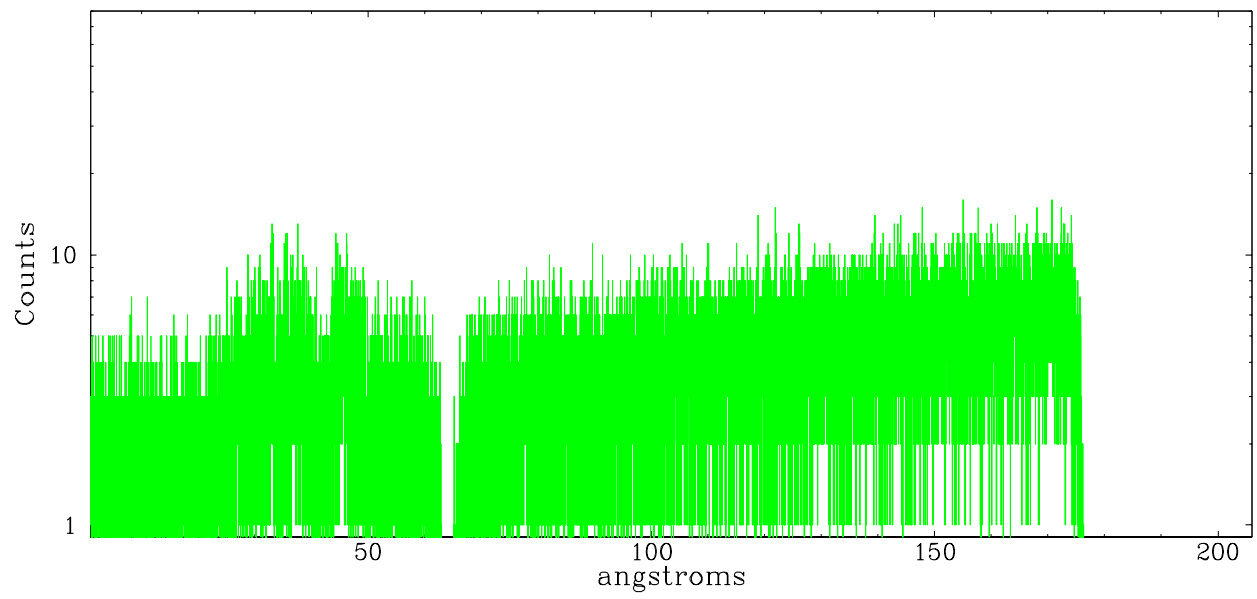


LETG Zero Order

leg order  $-1$



leg order  $+1$



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.06.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.981

## A.2 Comments

On day 356 at about 00:30, the OBA heater stuck in the 'on' position. This situation affected obsid 4901 and all subsequent observations to this point. The result of this anomaly could be a displacement of the target on the chip in the z direction. The displacement will be small because everything is still within spec, but the target may be spatially displaced, have a different point spread function, or trail across the chip.