

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 5111 - L2 Version 002  
Chandra X-Ray Center

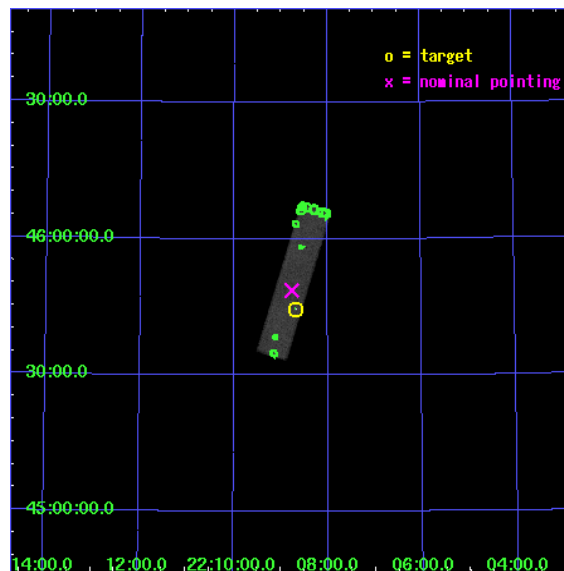
L2 Processing Date : Apr 11 2006

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Parameters . . . . .	4
2.1.3	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>3</b>	<b>Point Sources</b>	<b>17</b>
<b>A</b>	<b>Summary</b>	<b>18</b>
A.1	Status . . . . .	18
A.2	Comments . . . . .	18

# 1 Front

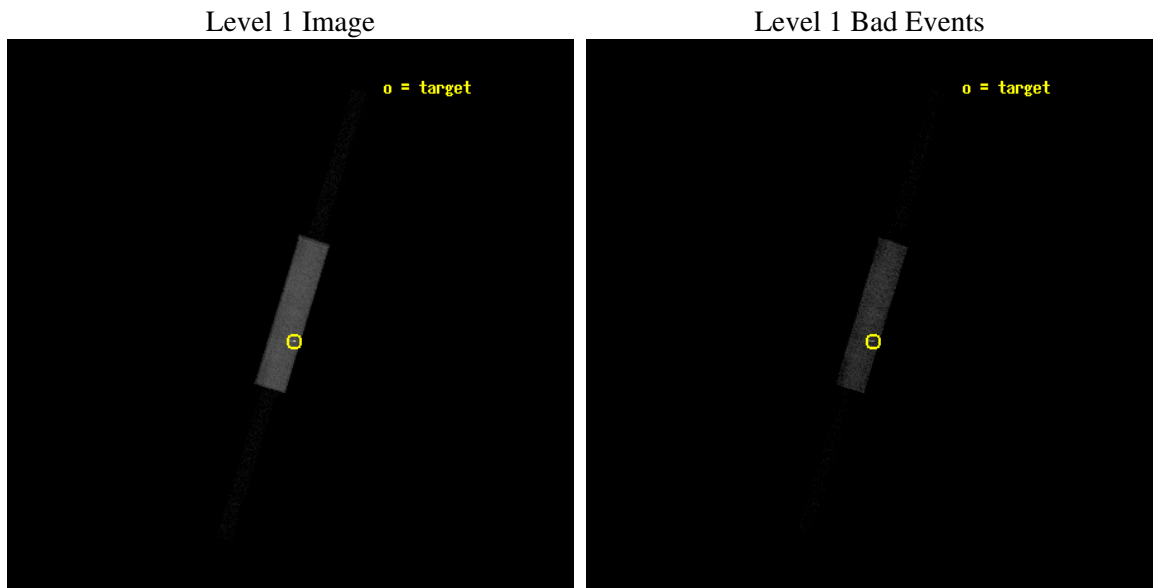
seq_num	290384
obs_id	5111
title	AO5B Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain
observer	Dr. CXC Calibration
object	ArLac
ra_targ	332.17
dec_targ	45.742306
ra_nom	332.19071904019
dec_nom	45.811508643087
roll_nom	286.94629982753
revision	2
ontime	1052.6750473678
livetime	1042.5747502331
l2events	58243



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	1
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-04-11T16:07:25
revision	2

sched_exp_time	900.000000
ontime	1081.3750486374
l1events	108559

### 2.1.3 Events

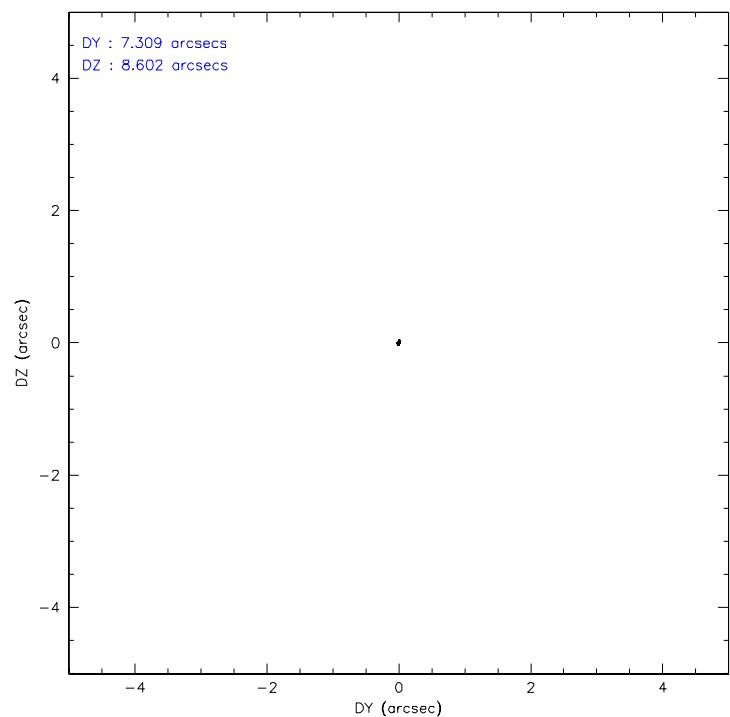
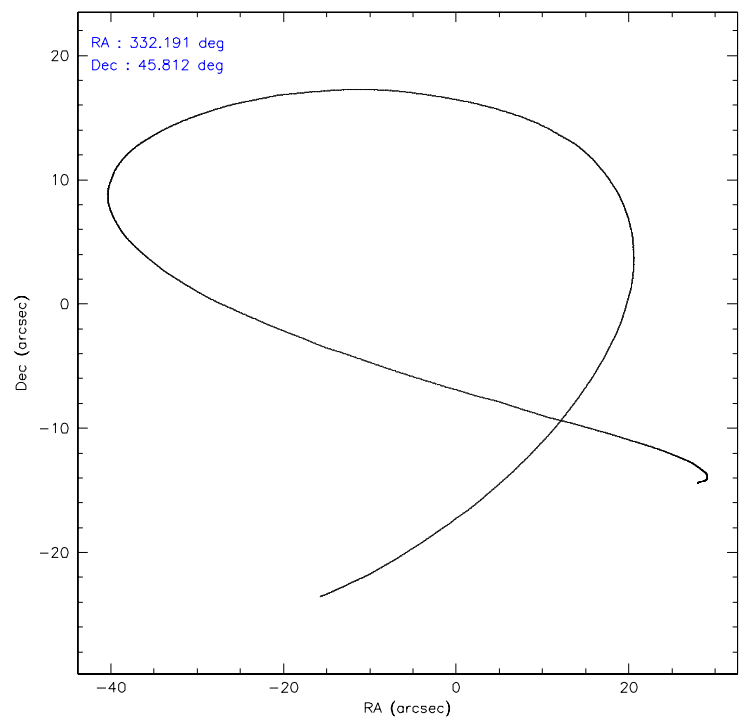
Level 1 Events

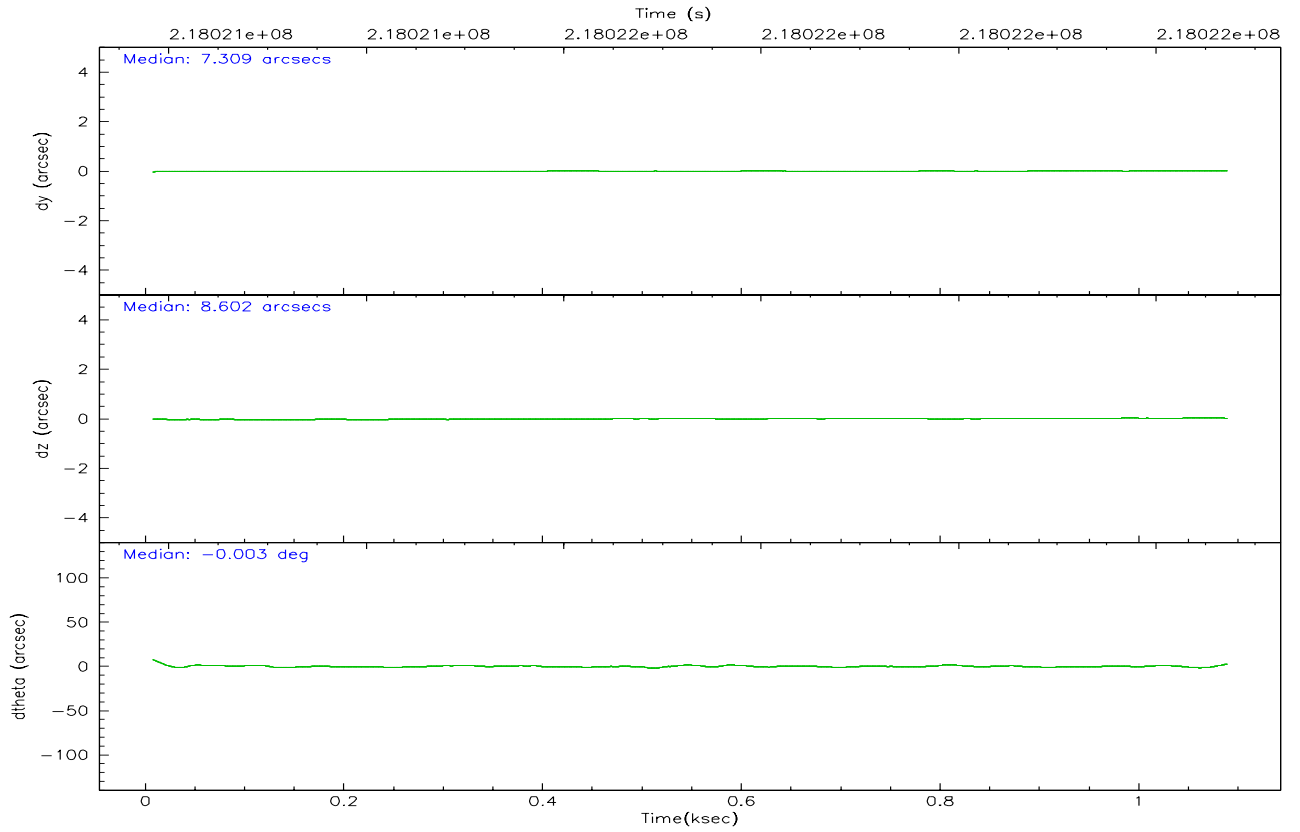
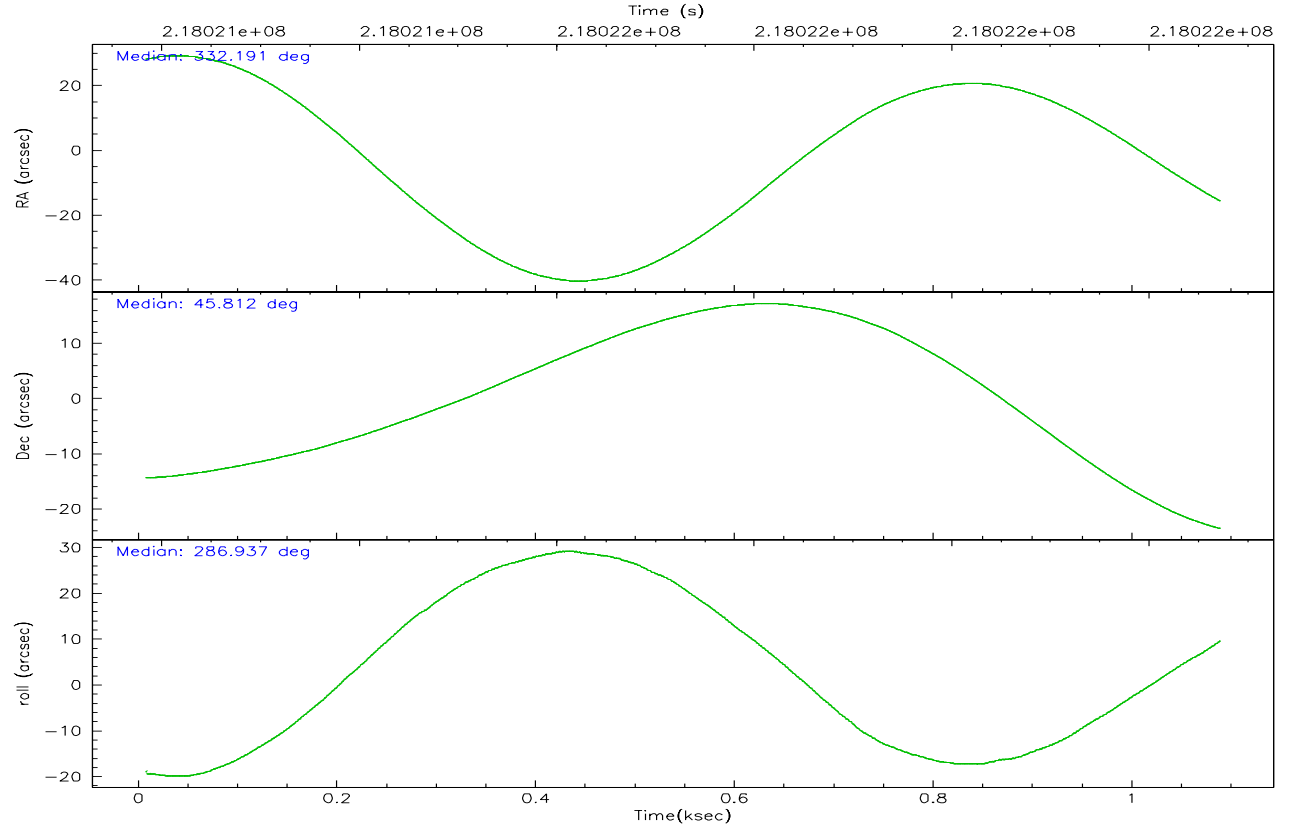
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1298	106144	1117
rejected events	1298	44502	1117
rejected %	100%	41%	100%

## 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	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
Pointing RA	332.158396	332.1907190401892			
Pointing Dec	45.829727	45.81150864308697			
Pointing Roll	286.902154	286.9462998275293			
SIM focus pos (mm)	-1.429586	-1.428180813131781			
SIM defocus (mm)	0.1037507710433287	0.1051558262725154			
SIM translation stage pos (mm)	250.455976	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	218021373.184000	218020996.4938			
Observation start date	2004-11-28T09:28:29	2004-11-28T09:23:16			
Observation end time	218022273.184000	218022406.89386			
Observation end date	2004-11-28T09:43:29	2004-11-28T09:46:46			

## 2.3 Aspect





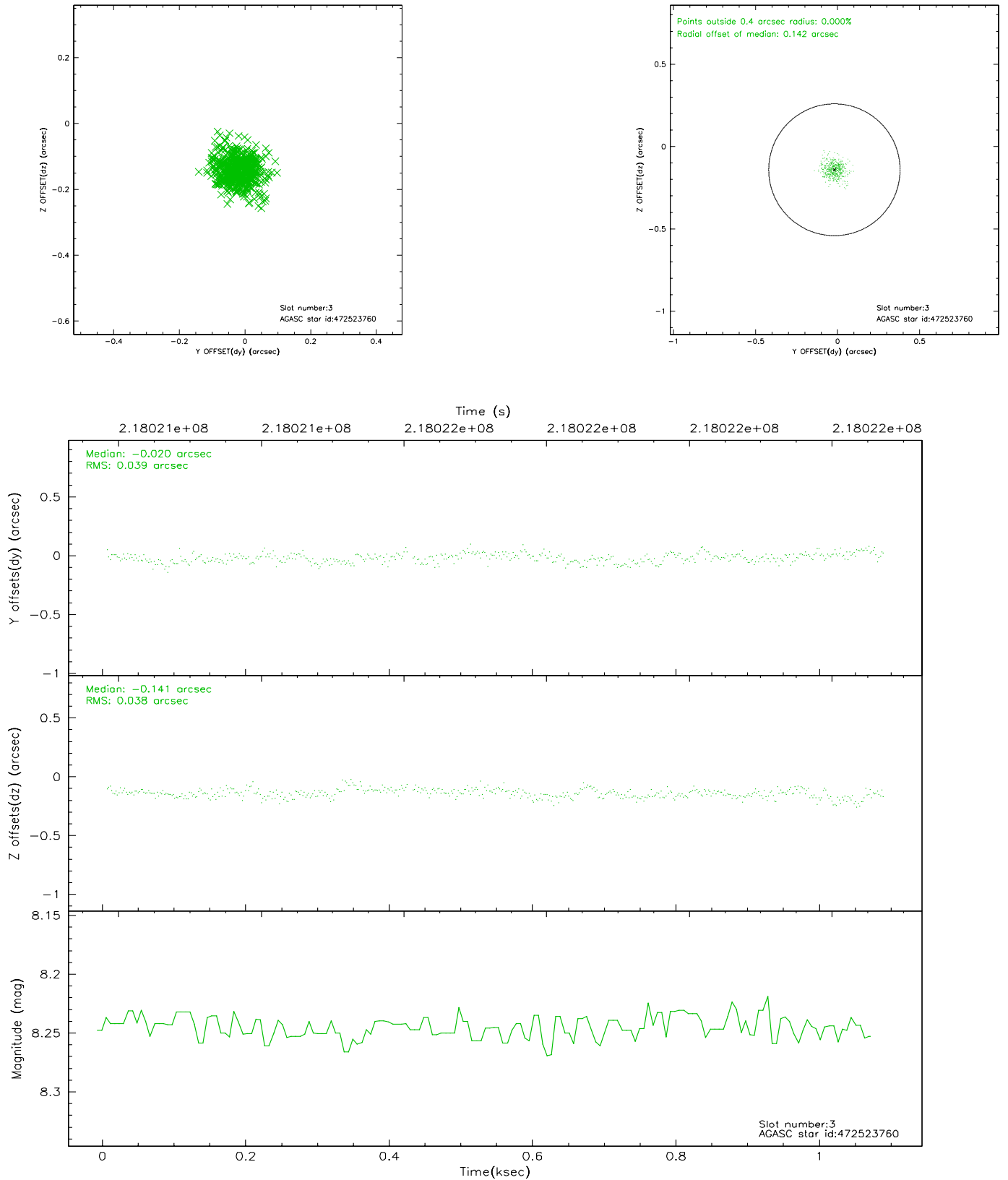
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.04	264	0.087	-0.131	0.005	0.010	0.000000	0.000000	-1161.51	-457.22
1	FID	HRC-S-2	7.04	264	0.115	-0.101	0.008	0.013	0.000000	0.000000	1233.80	-451.55
2	FID	HRC-S-4	7.01	264	0.201	-0.072	0.008	0.012	0.000000	0.000000	1241.53	573.22
3	GUIDE	472523760	8.25	526	-0.020	-0.141	0.057	0.098	331.645363	45.403260	1088.53	-1688.43
4	GUIDE	472533912	9.16	529	-0.115	0.094	0.079	0.139	331.791136	46.368695	-2121.37	-313.94
5	GUIDE	472655152	9.43	529	-0.024	0.047	0.117	0.209	332.504239	45.862991	131.96	862.05
6	GUIDE	472659832	9.46	529	-0.008	0.031	0.101	0.167	332.780399	46.098139	-478.56	1767.58
7	GUIDE	472527720	7.02	528	0.182	-0.008	0.116	0.189	331.460205	45.112509	1947.47	-2444.48

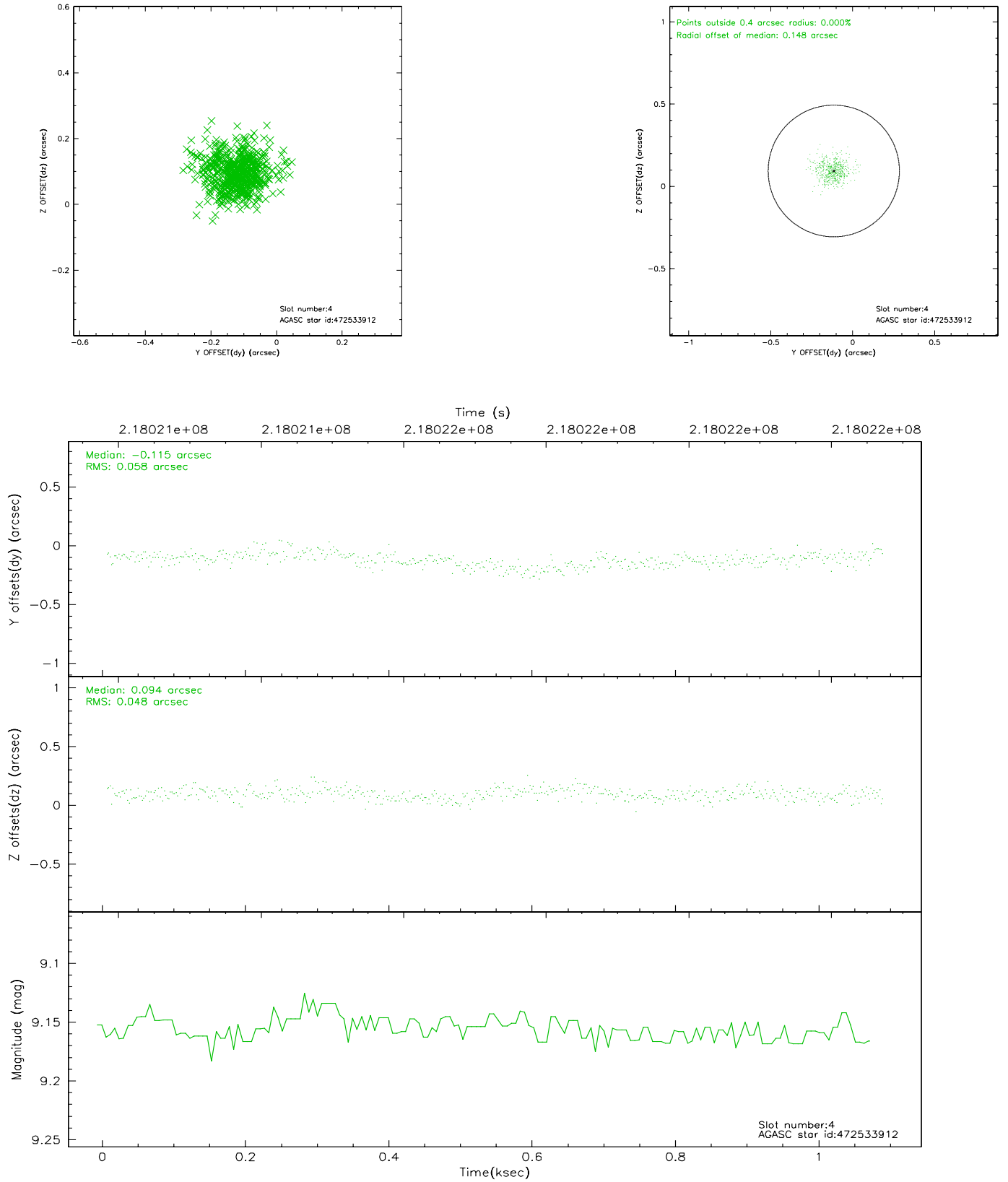


## 2.4 Star Slots

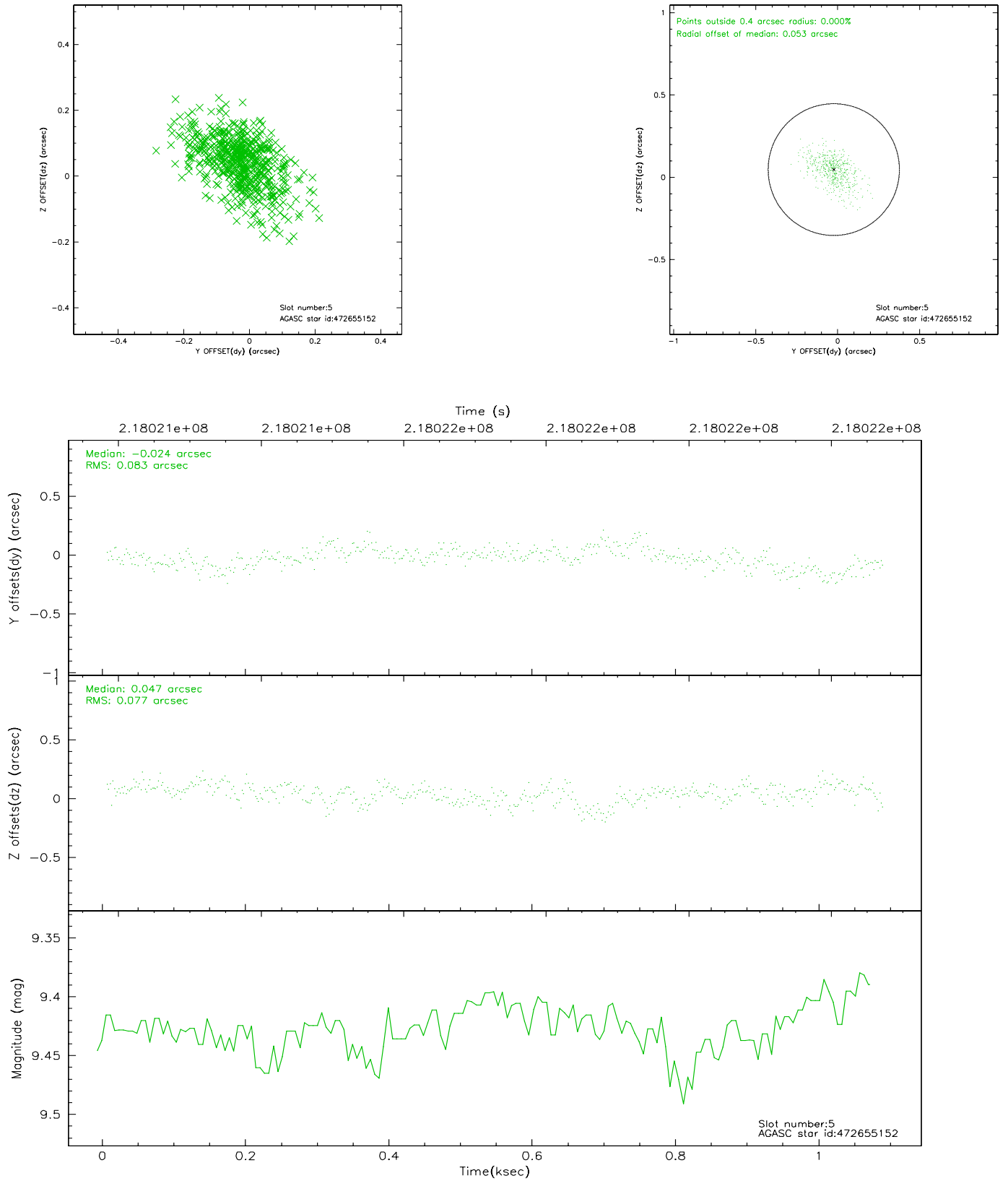
### 2.4.1 Slot 3



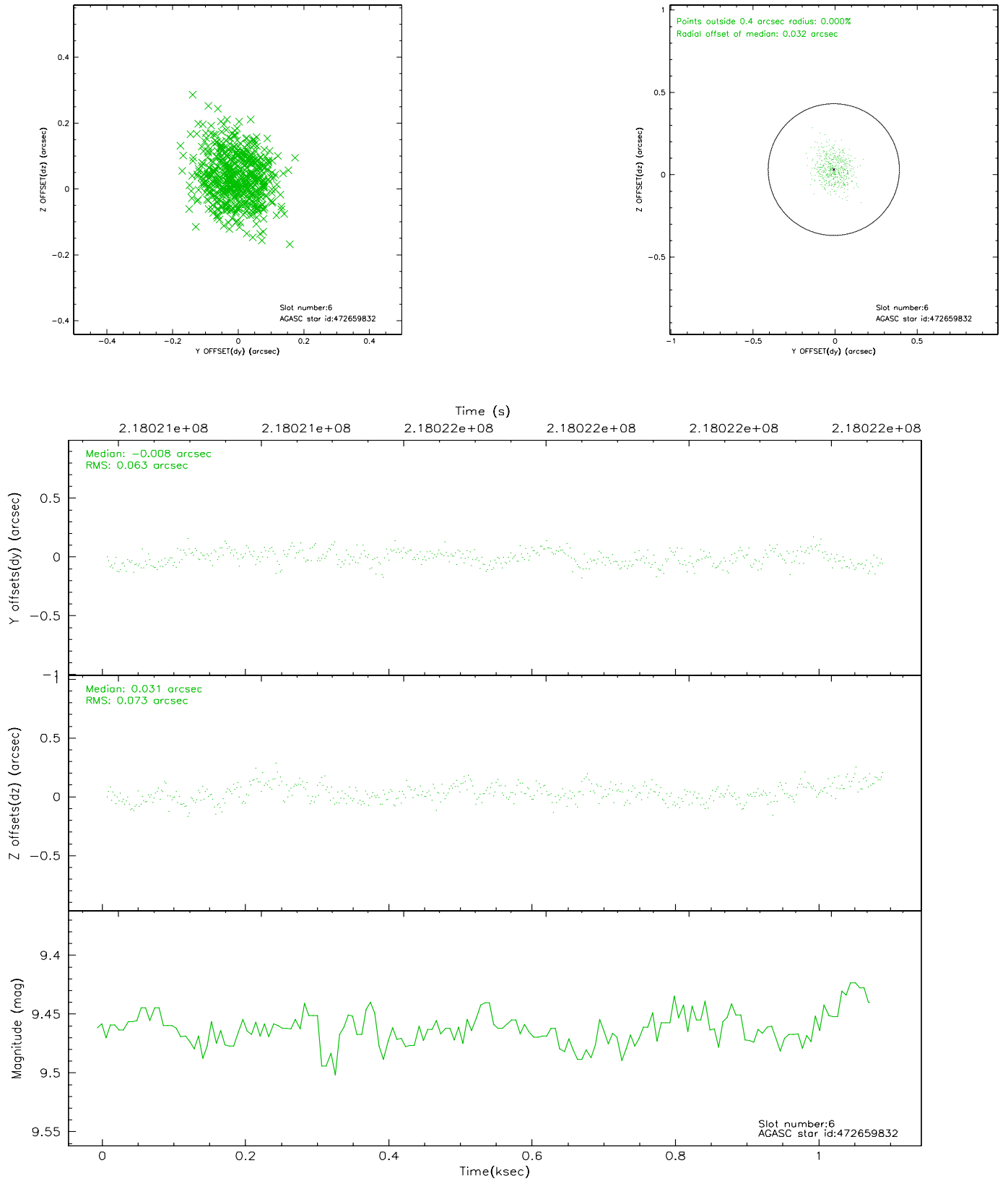
## 2.4.2 Slot 4



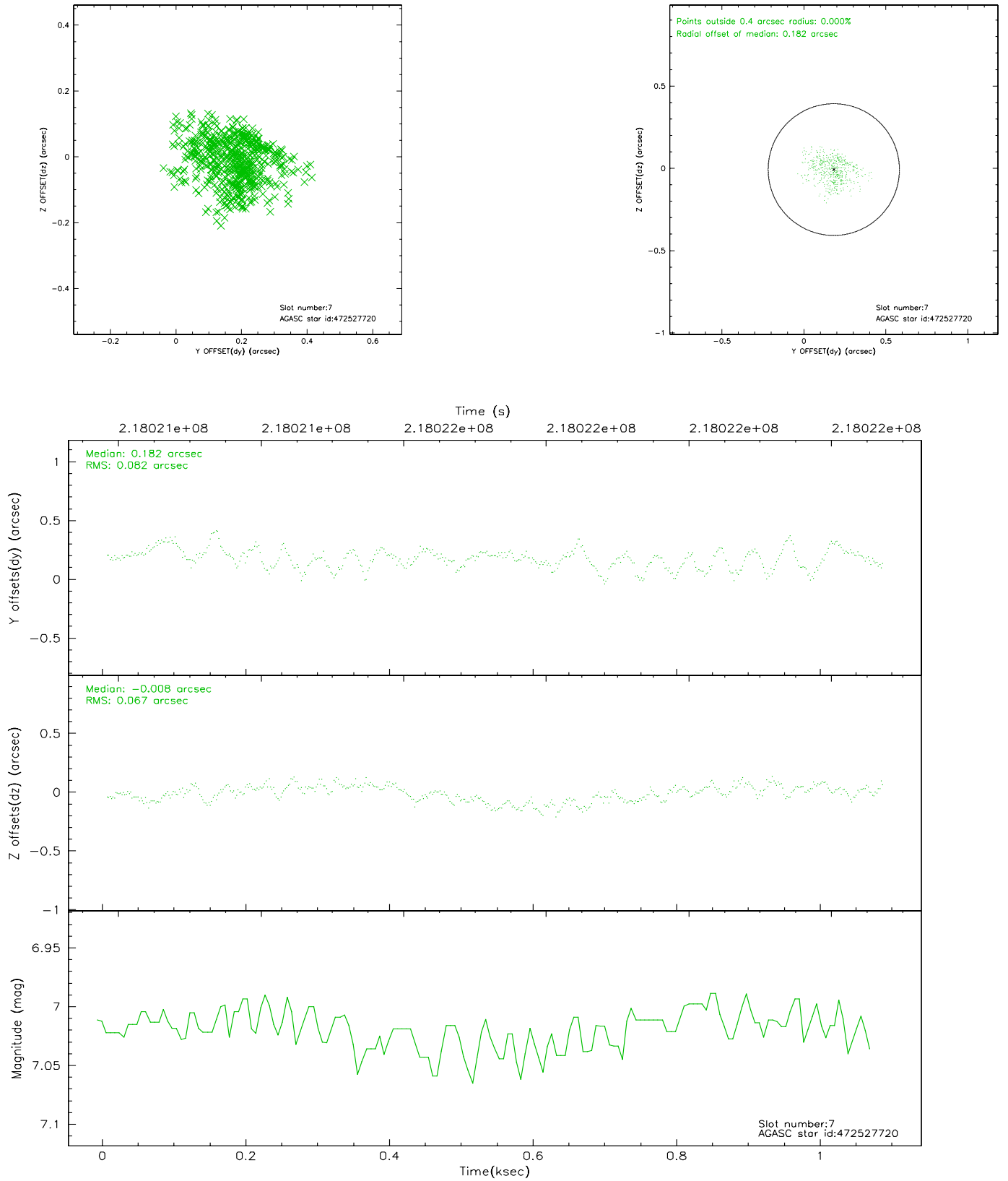
### 2.4.3 Slot 5



## 2.4.4 Slot 6

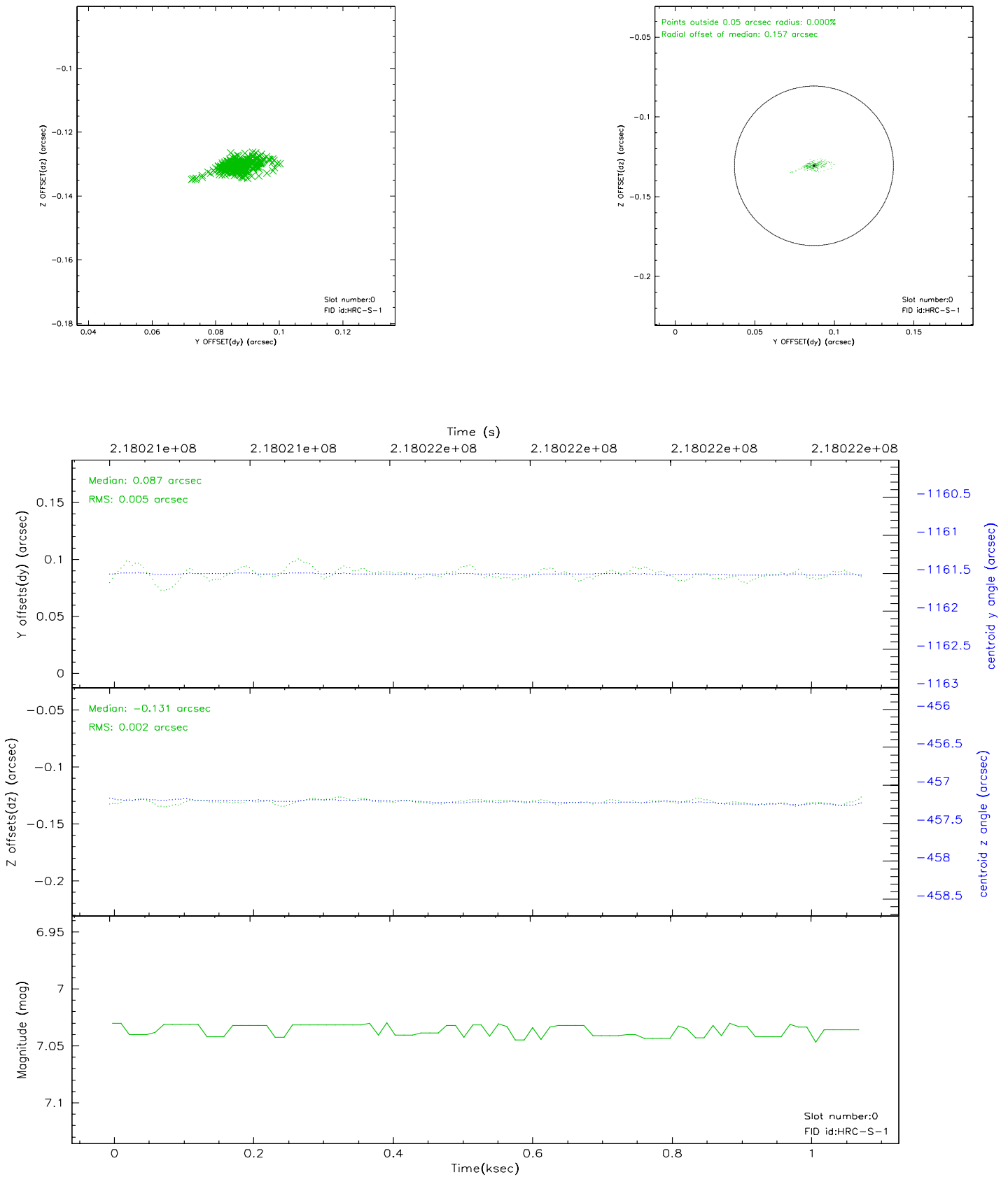


## 2.4.5 Slot 7

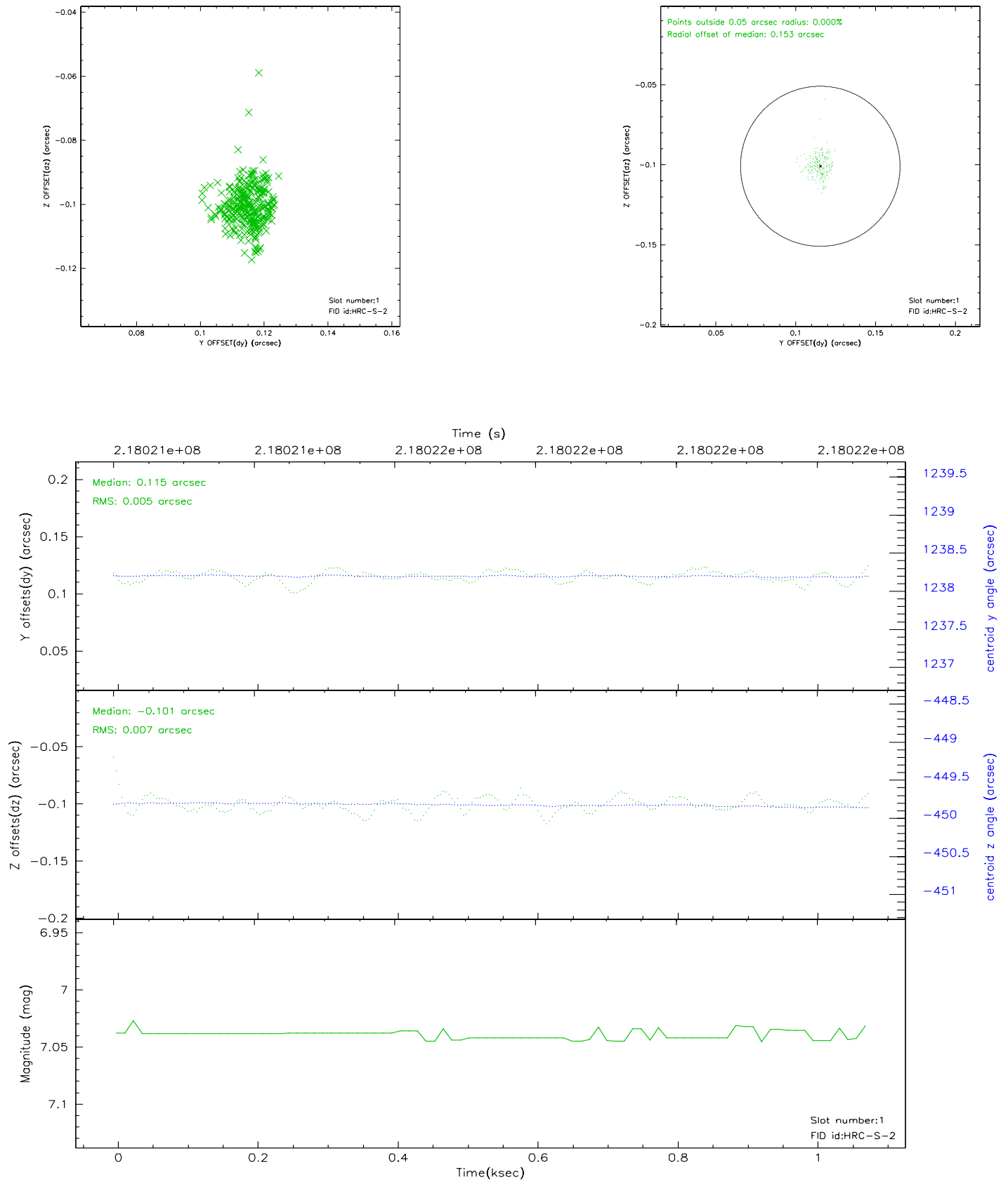


## 2.5 FID Slots

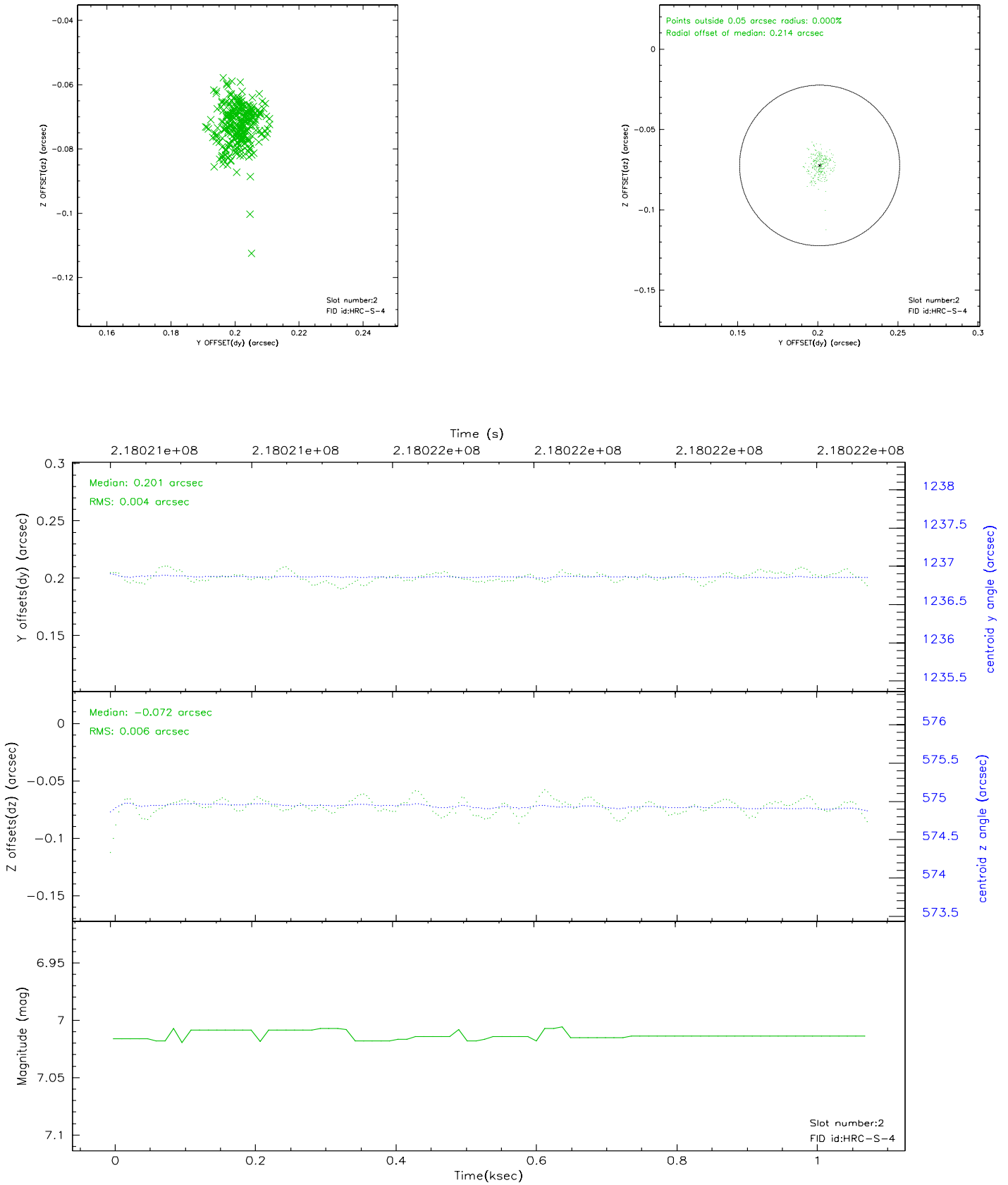
### 2.5.1 Slot 0



## 2.5.2 Slot 1

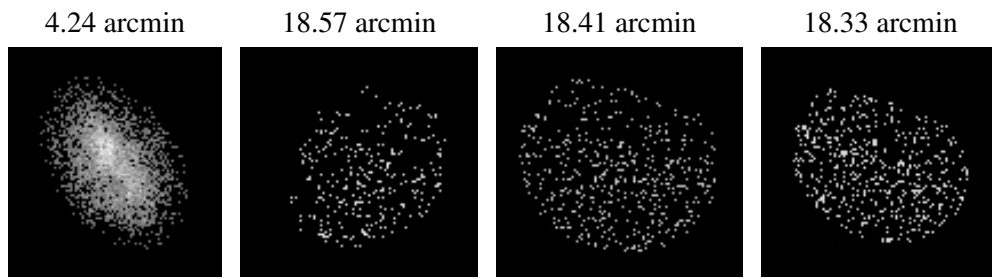


### 2.5.3 Slot 2





### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.04.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.052675

## A.2 Comments

The keywords DTCOR, EXPOSURE, and LIVETIME in the Level 2 event file and the

keyword DTCOR in the Level 1 event file have been incorrectly determined due to a software bug. The correct value of DTCOR can be found in the file DTFSTATS file that can be obtained by downloading the secondary data products. In most cases, the difference between the correct DTCOR value and the incorrect DTCOR value in the Level 2 event file is very small and does not affect the data analysis. However, there are cases of significant differences and the user is advised to use the DTCOR in the DTFSTATS file for analysis. Corrected data products will be made available in the archive as soon as feasible.