

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.2

Observation 5087 - L2 Version 001  
Chandra X-Ray Center

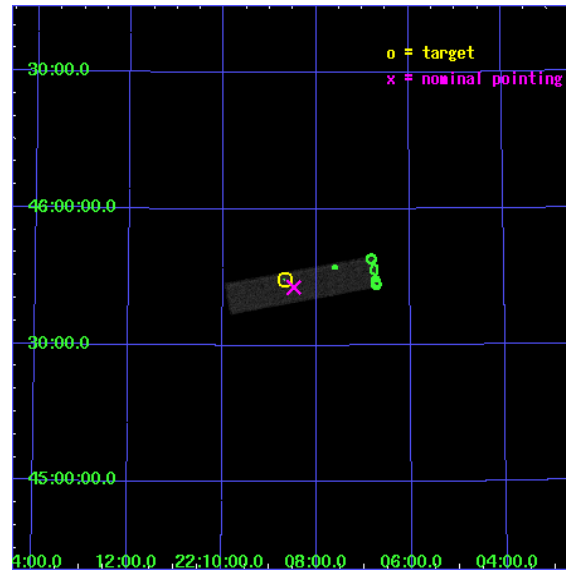
L2 Processing Date : Jun 4 2006

## 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

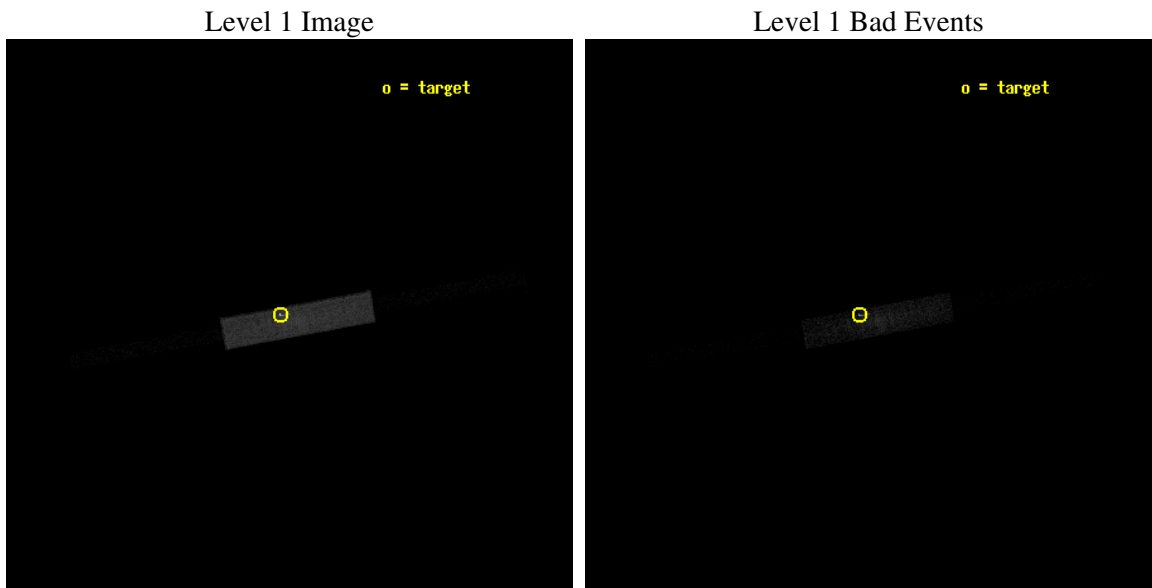
seq_num	290360
obs_id	5087
title	AO5A Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain
observer	Dr. CXC Calibration
object	ArLac
ra_targ	332.17
dec_targ	45.742306
ra_nom	332.12039970232
dec_nom	45.71397290568
roll_nom	349.5705036678
revision	2
ontime	1087.7812975645
livetime	1082.0499866081
l2events	38012



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0
ascdsver	7.6.7.2
caldbver	3.2.2
date	2006-06-04T17:01:33
revision	2

sched_exp_time	946.000000
ontime	1135.7000496686
l1events	67062

### 2.1.3 Events

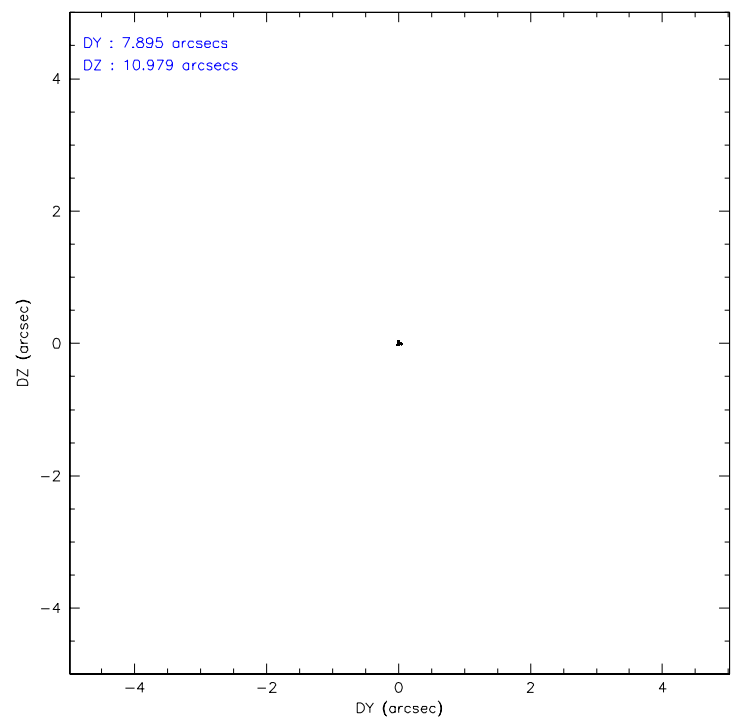
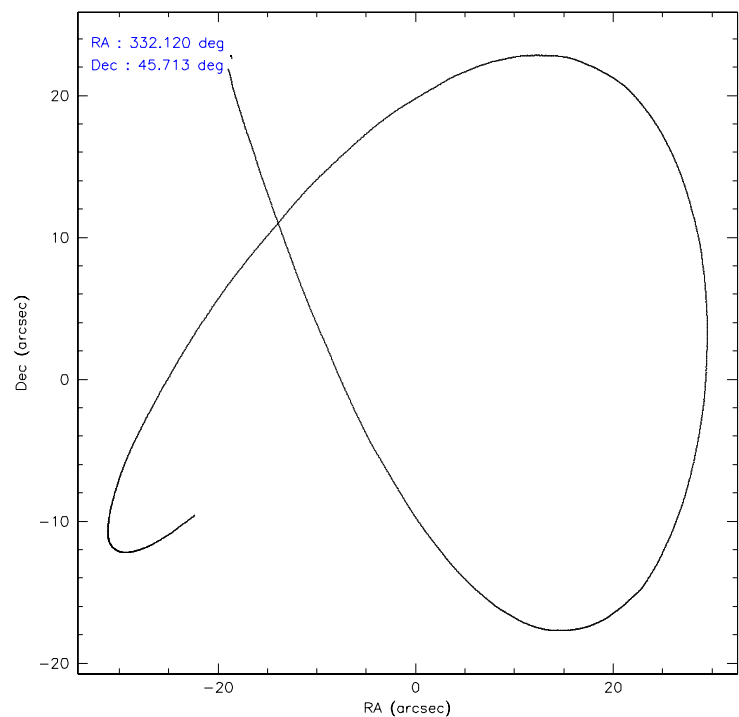
Level 1 Events

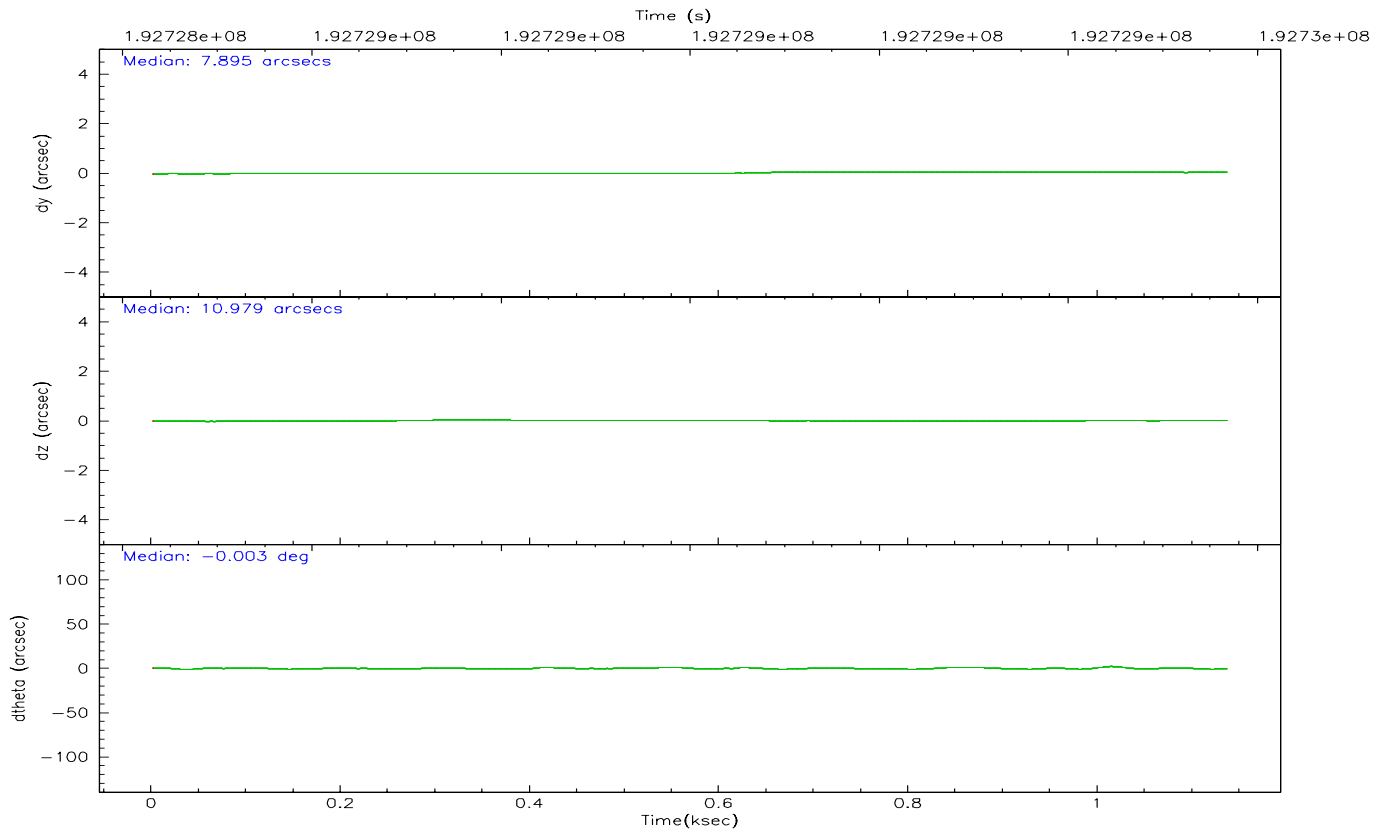
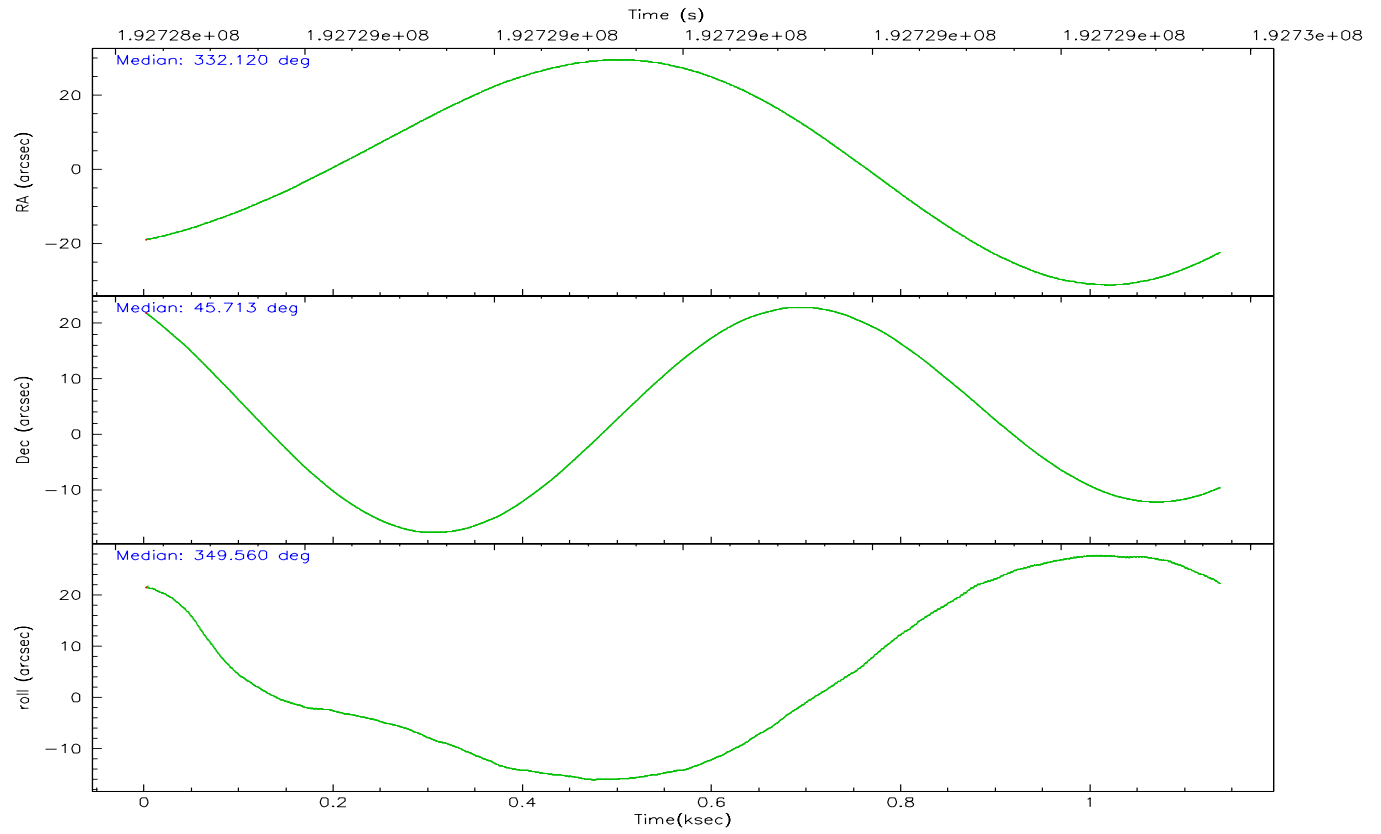
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1048	64957	1057
rejected events	1048	24012	1057
rejected %	100%	36%	100%

## 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	332.083035	332.1203997023223			
Pointing Dec	45.703726	45.7139729056803			
Pointing Roll	349.529950	349.5705036678008			
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	192728625.184000	192728249.12238			
Observation start date	2004-02-09T15:42:41	2004-02-09T15:37:29			
Observation end time	192729571.184000	192729704.62245			
Observation end date	2004-02-09T15:58:27	2004-02-09T16:01:44			

2.3 Aspect





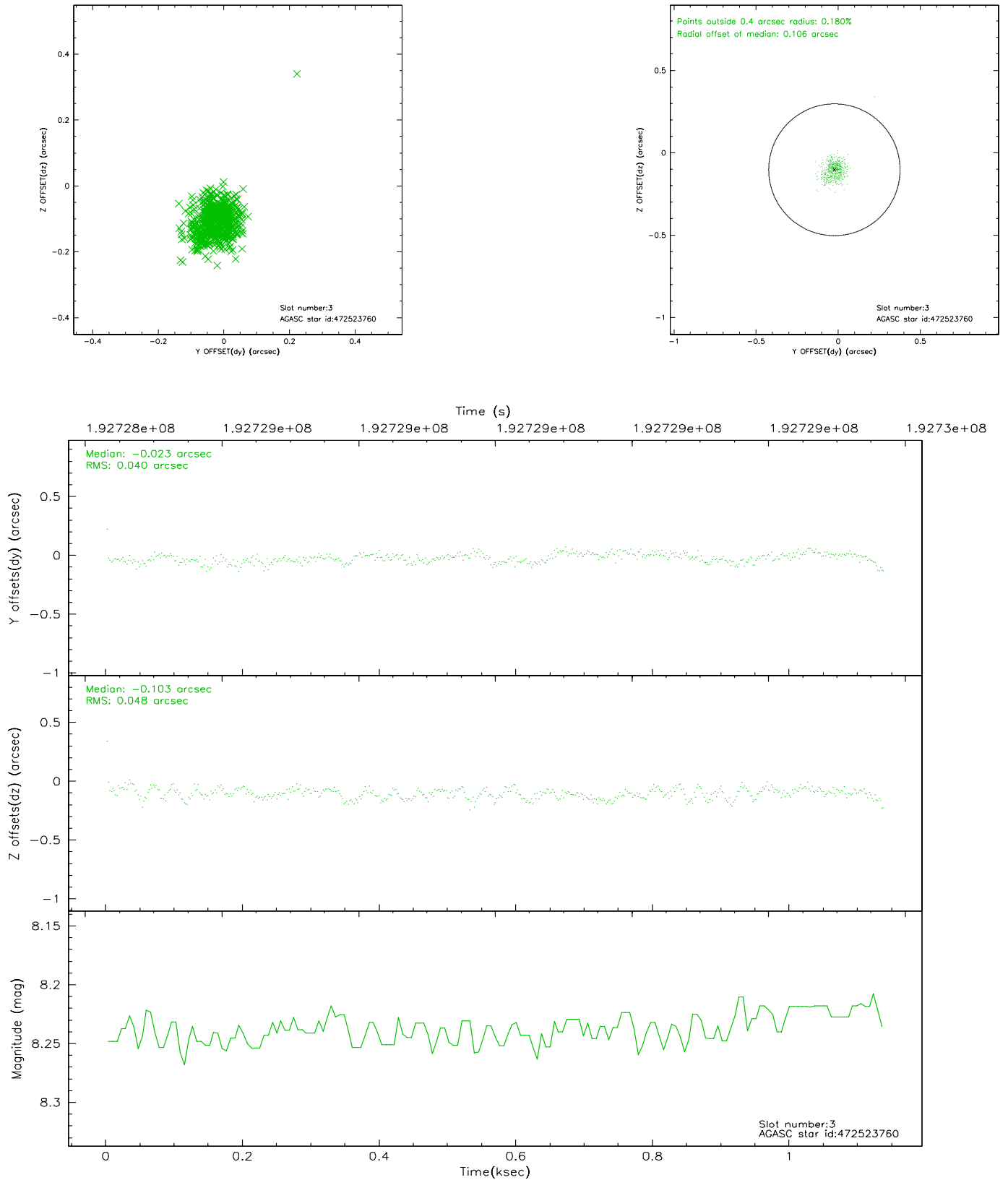
### Slot Statistics

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	278	0.147	-0.167	0.008	0.012	0.000000	0.000000	-1162.06	-459.69
1	FID	HRC-S-2	7.03	278	0.133	-0.109	0.005	0.010	0.000000	0.000000	1233.42	-453.95
2	FID	HRC-S-3	7.04	278	0.110	-0.026	0.006	0.011	0.000000	0.000000	-1160.37	568.35
3	GUIDE	472523760	8.24	555	-0.023	-0.103	0.063	0.098	331.645363	45.403260	-890.72	-1259.18
4	GUIDE	472527720	6.99	555	-0.059	-0.042	0.063	0.100	331.460205	45.112509	-1170.71	-2374.15
5	GUIDE	472533912	9.17	555	-0.004	0.025	0.126	0.194	331.791136	46.368695	-1149.88	2221.99
6	GUIDE	472654568	9.43	554	-0.011	0.044	0.114	0.208	332.194449	45.063576	696.59	-2207.50
7	GUIDE	472655152	9.43	554	0.106	0.105	0.092	0.149	332.504239	45.862991	935.87	757.50

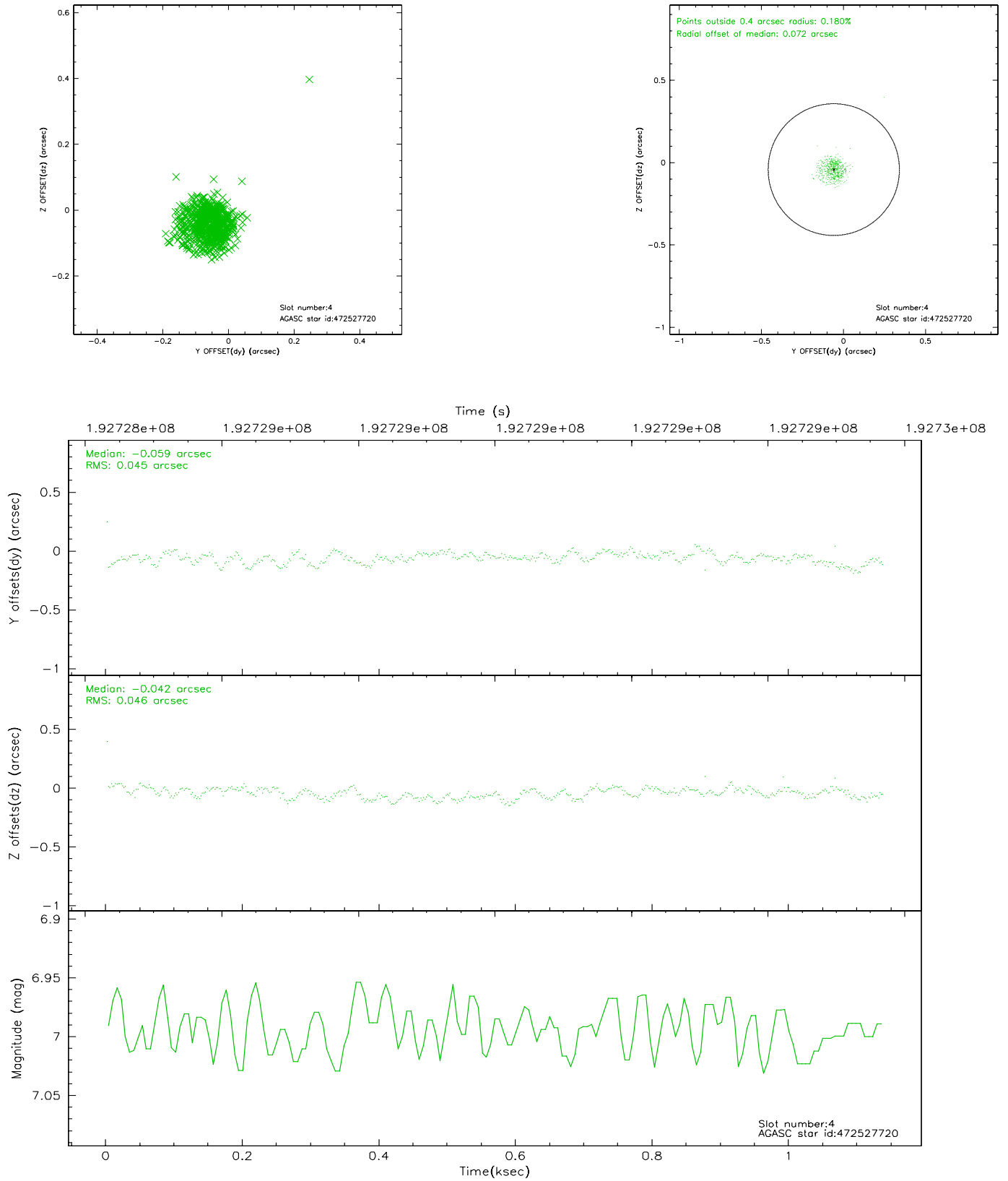


## 2.4 Star Slots

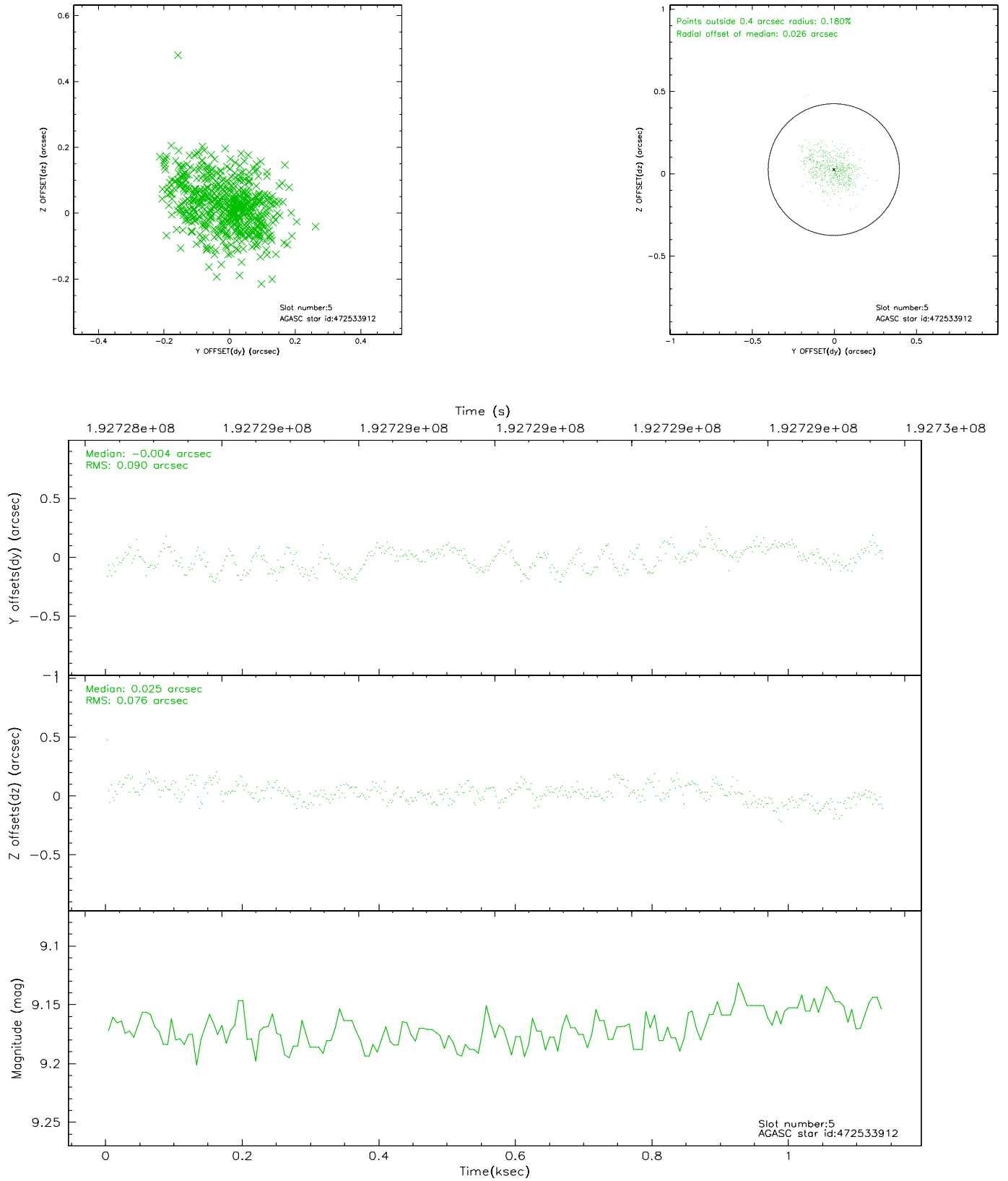
### 2.4.1 Slot 3



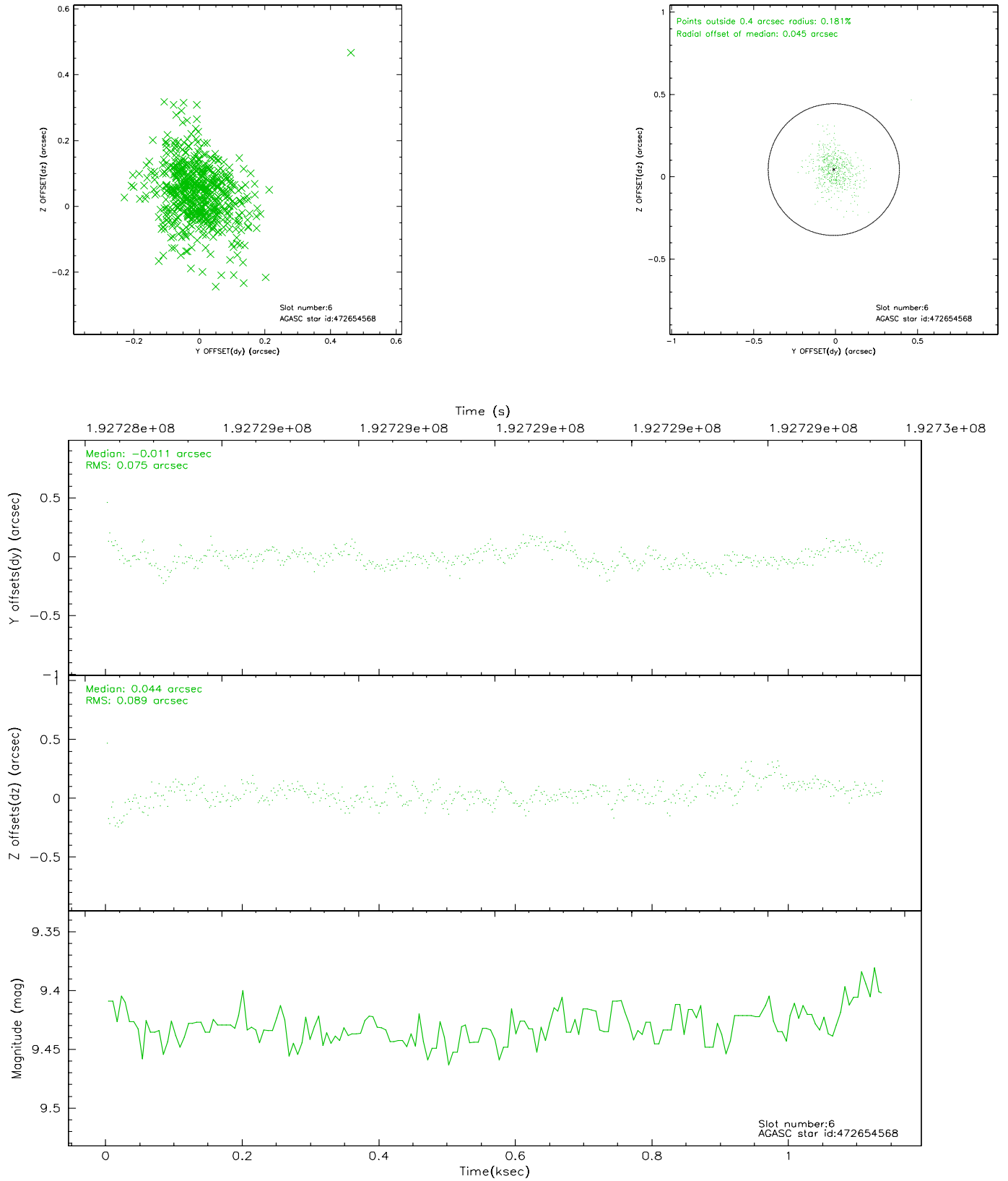
## 2.4.2 Slot 4



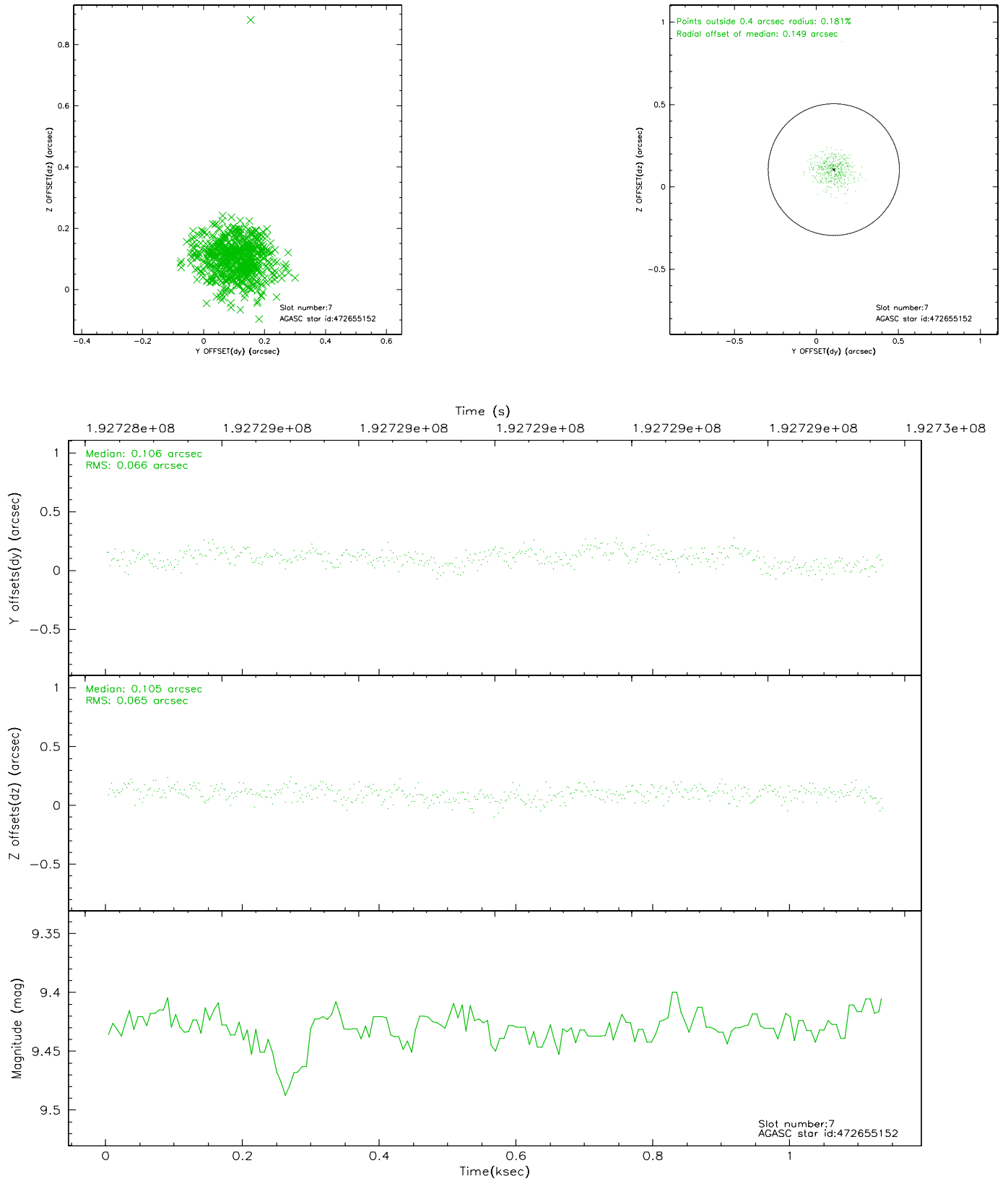
### 2.4.3 Slot 5



## 2.4.4 Slot 6

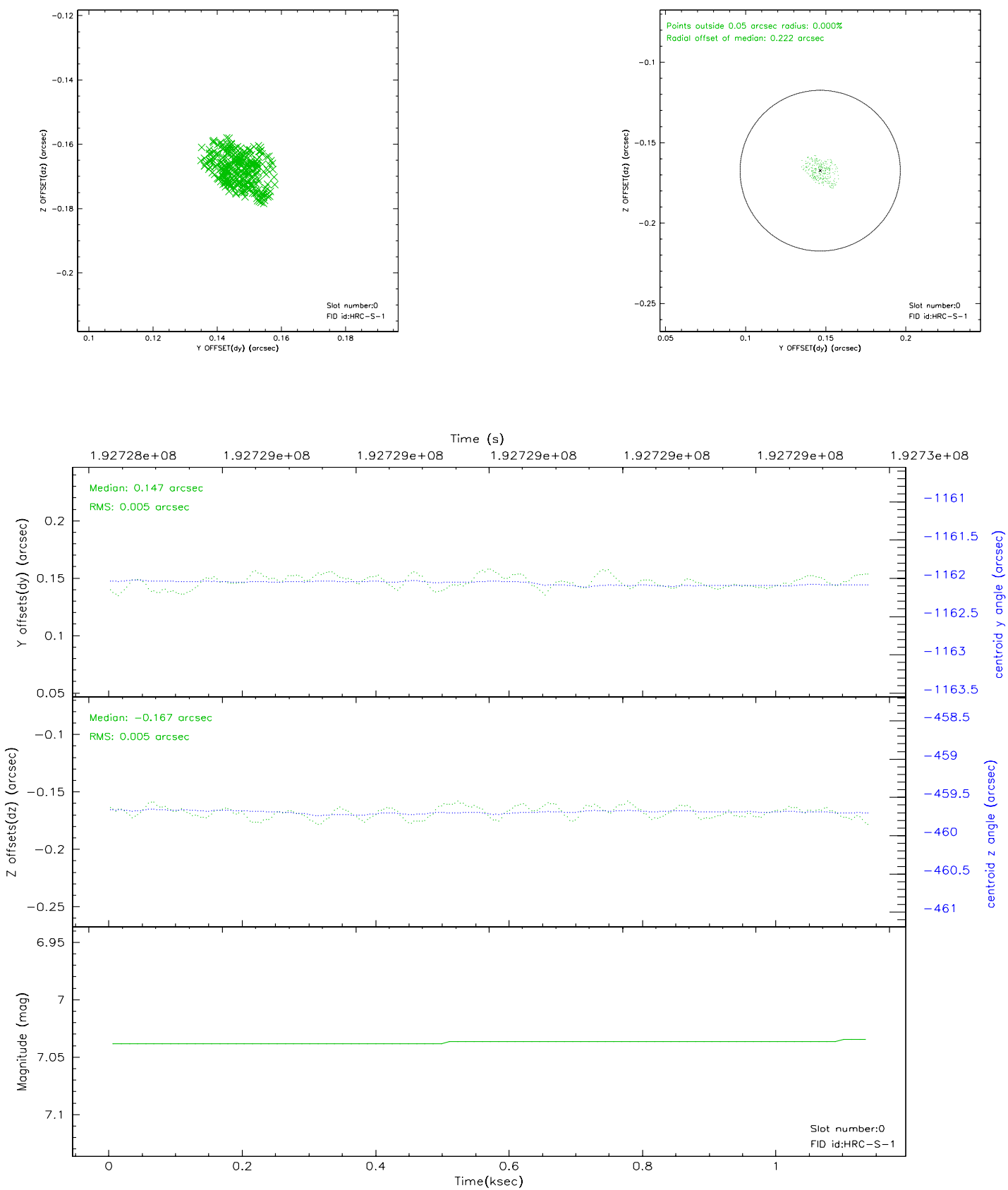


## 2.4.5 Slot 7

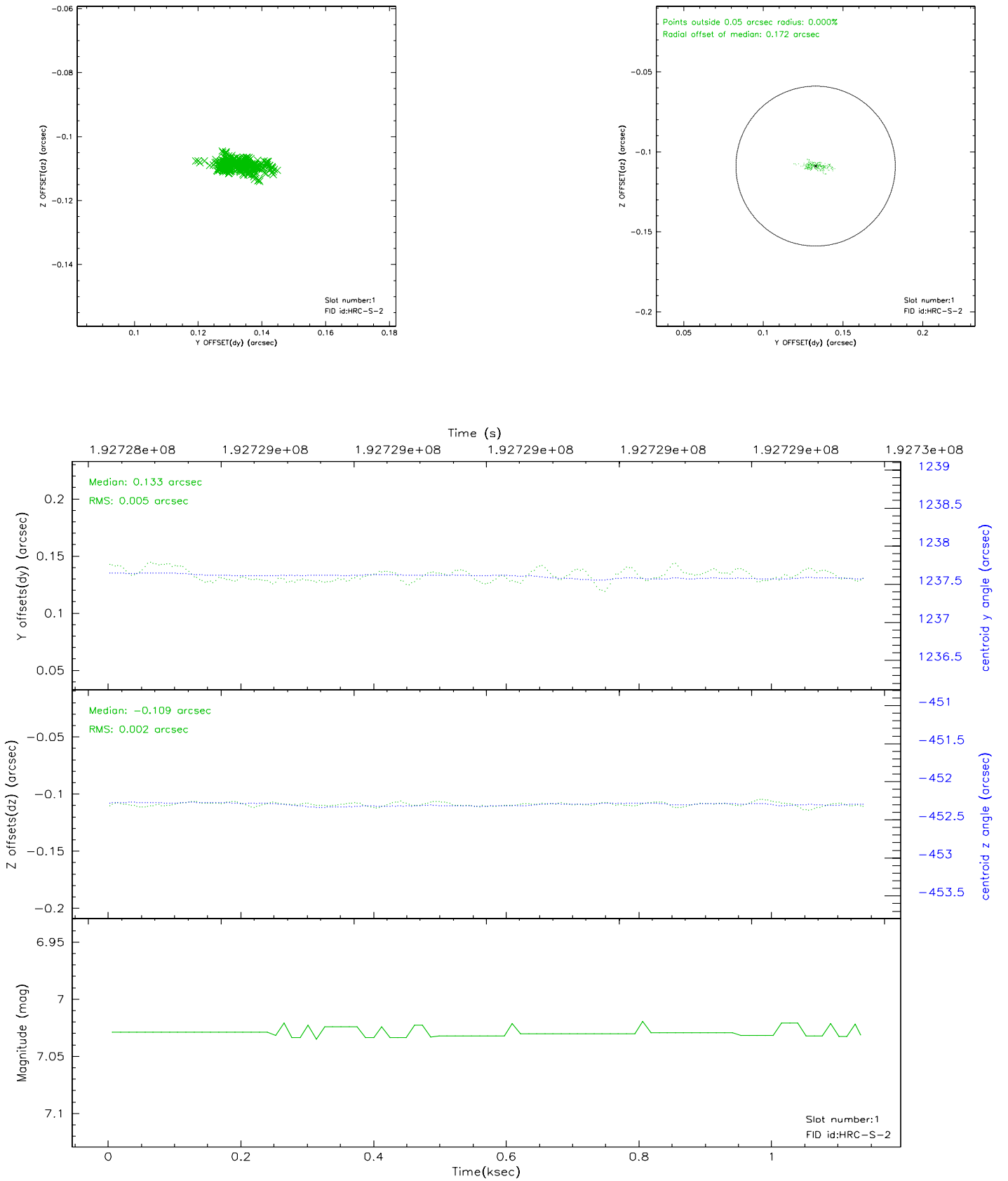


## 2.5 FID Slots

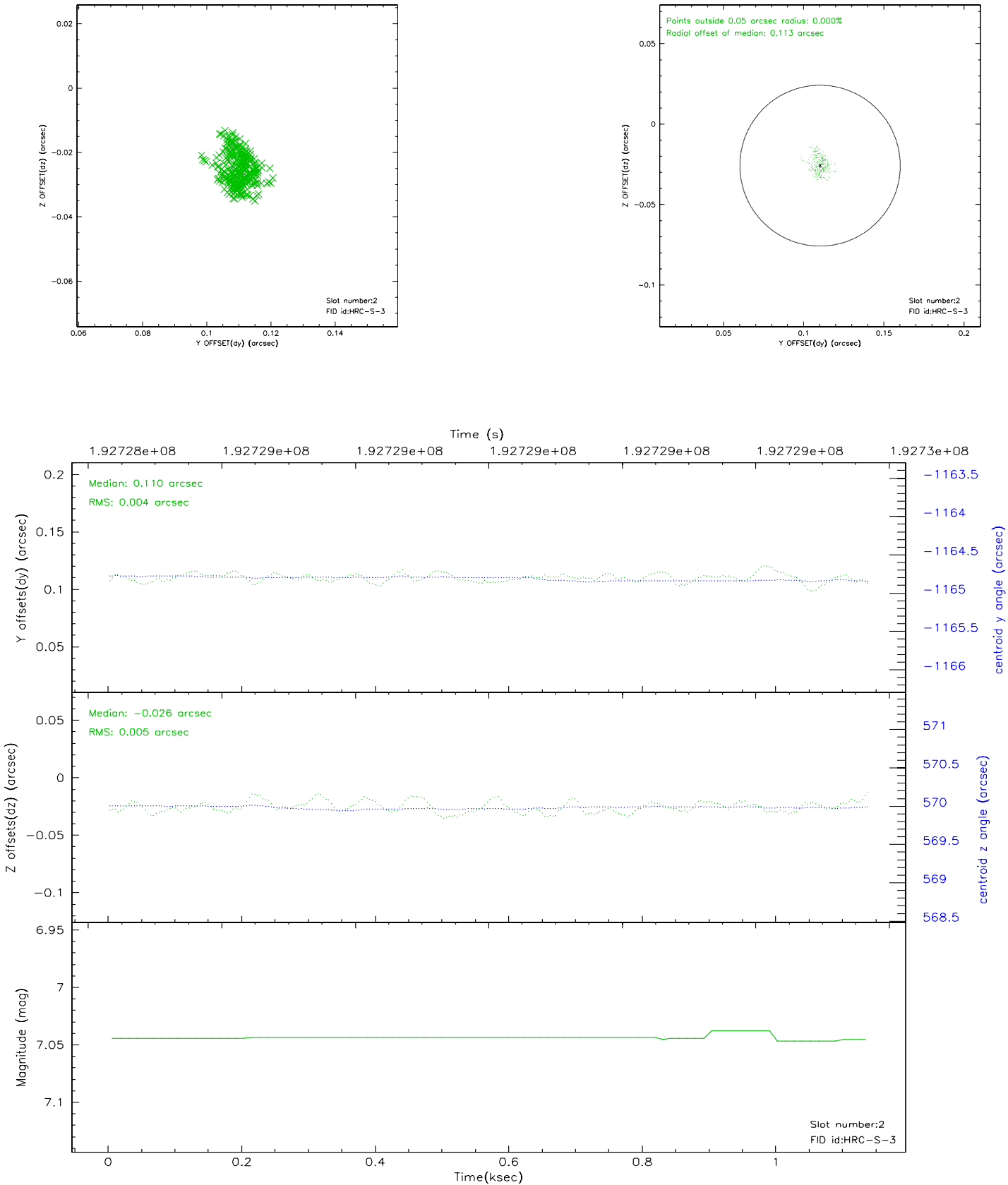
### 2.5.1 Slot 0



## 2.5.2 Slot 1

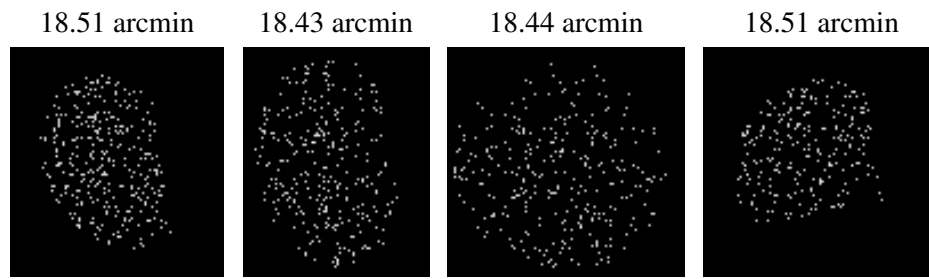


2.5.3 Slot 2





### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.06.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.087

## 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.