

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 5115 - L2 Version 002  
Chandra X-Ray Center

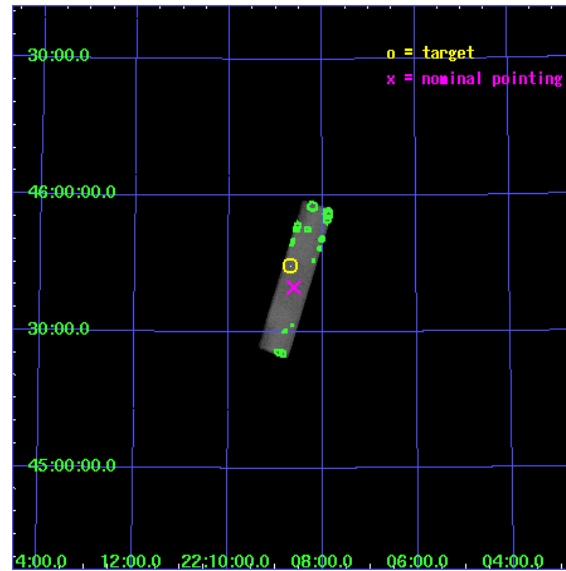
L2 Processing Date : Apr 10 2006

## 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

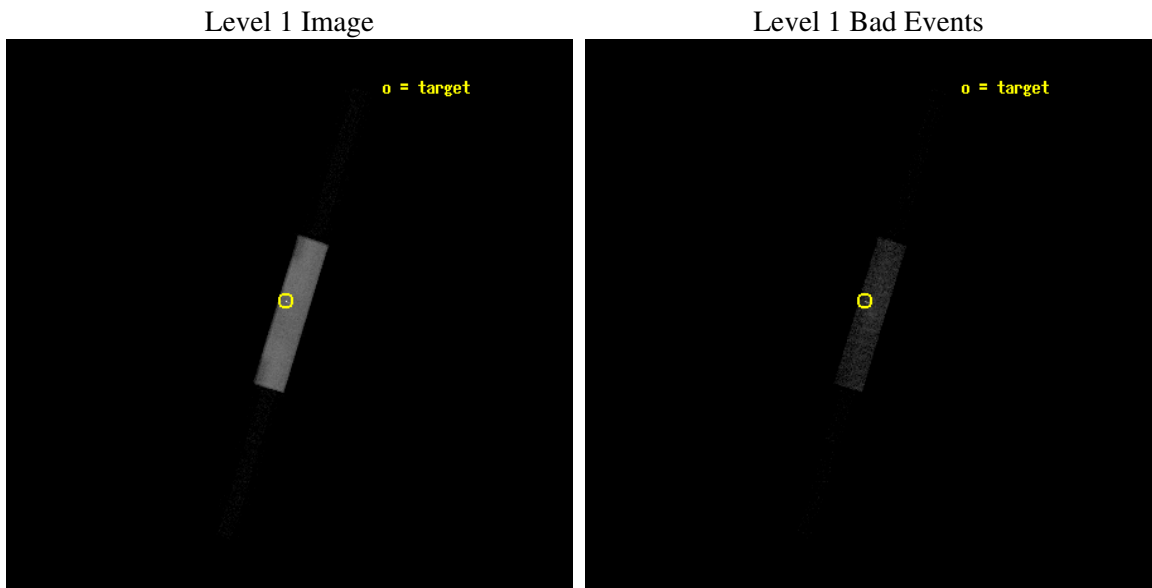
seq_num	290388
obs_id	5115
title	AO5B Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain
observer	Dr. CXC Calibration
object	ArLac
ra_targ	332.17
dec_targ	45.742306
ra_nom	332.15245031315
dec_nom	45.663996026958
roll_nom	287.0629348631
revision	2
ontime	1050.8812972009
livetime	1024.0011059738
l2events	134010



## 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	2006-04-10T19:45:32
revision	2

sched_exp_time	900.000000
ontime	1079.5812985003
l1events	188992

### 2.1.3 Events

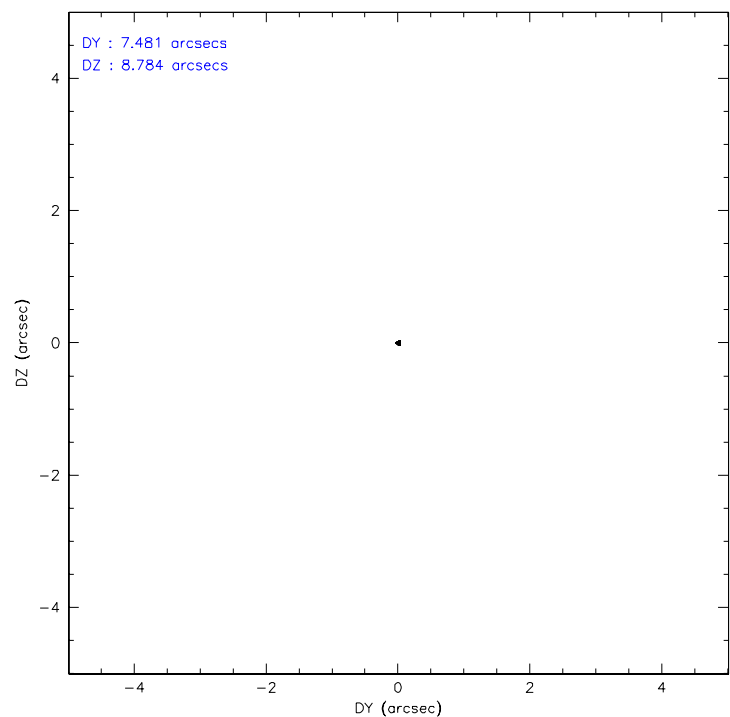
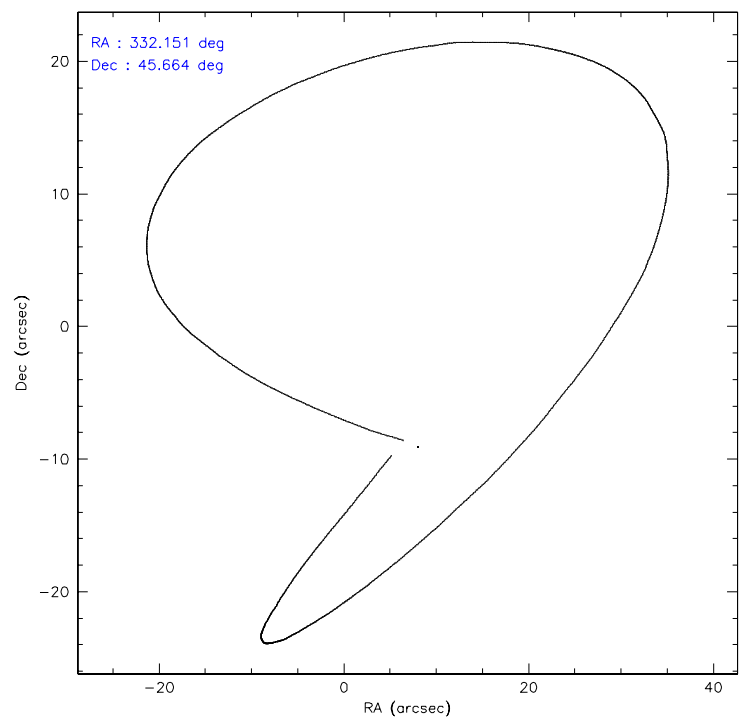
Level 1 Events

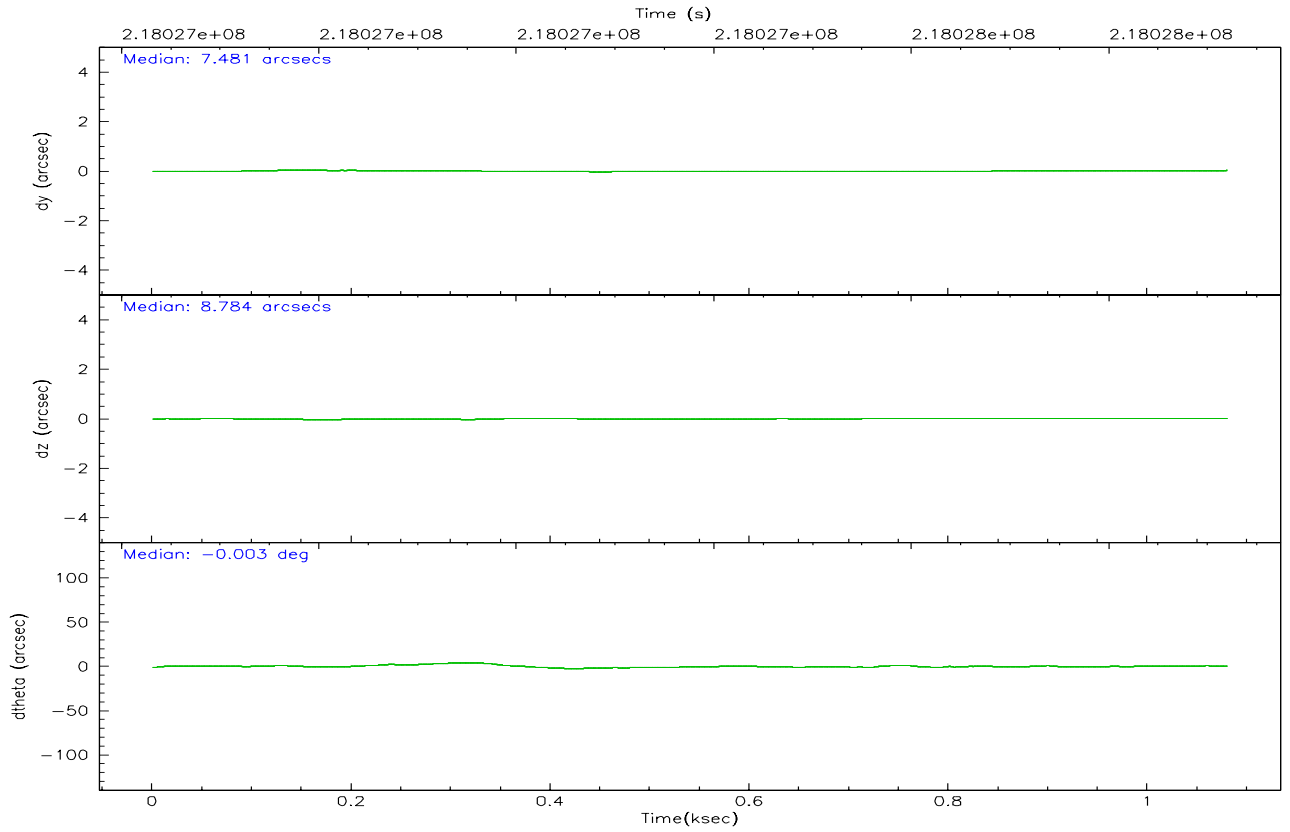
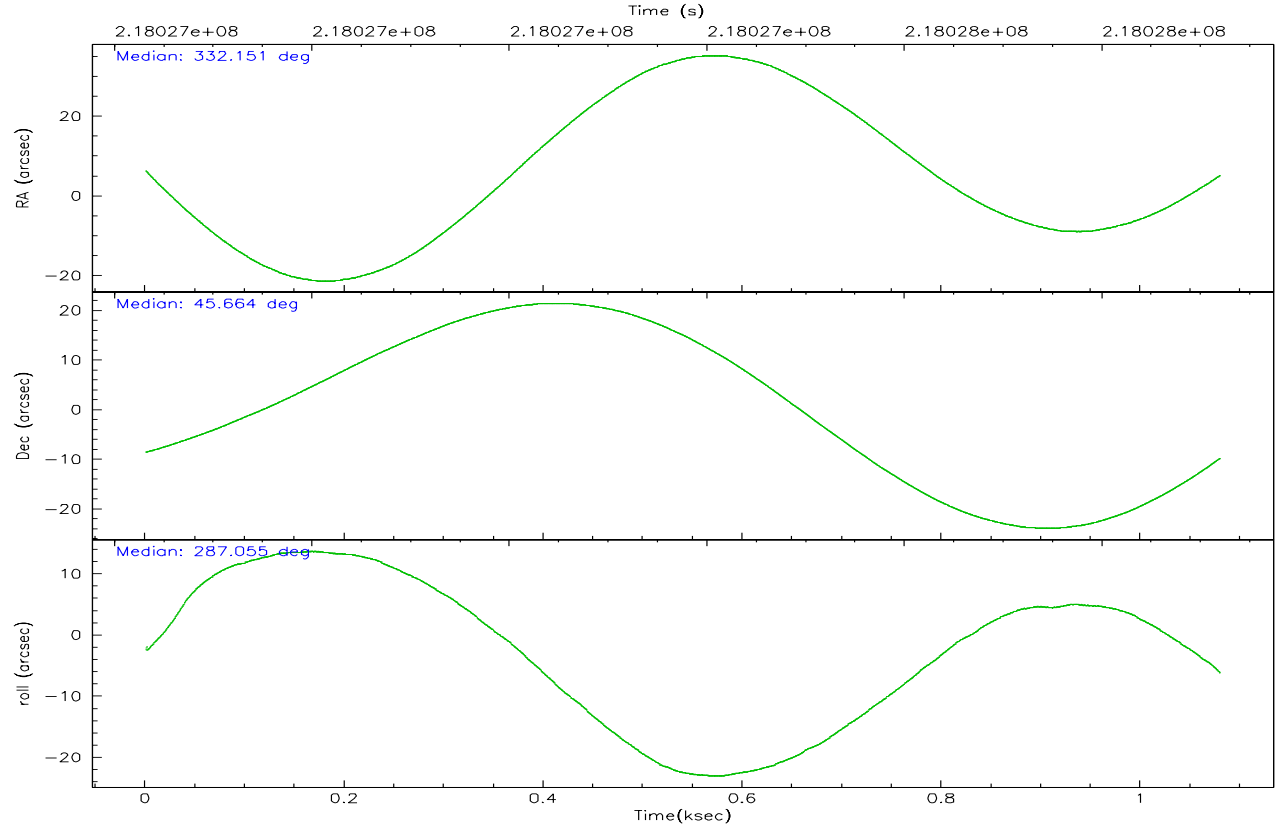
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	776	187420	796
rejected events	776	49555	796
rejected %	100%	26%	100%

## 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	332.122713	332.1524503131475			
Pointing Dec	45.682714	45.66399602695792			
Pointing Roll	287.016843	287.0629348631041			
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	218027013.184000	218026637.06905			
Observation start date	2004-11-28T11:02:29	2004-11-28T10:57:17			
Observation end time	218027913.184000	218028046.95662			
Observation end date	2004-11-28T11:17:29	2004-11-28T11:20:46			

### 2.3 Aspect



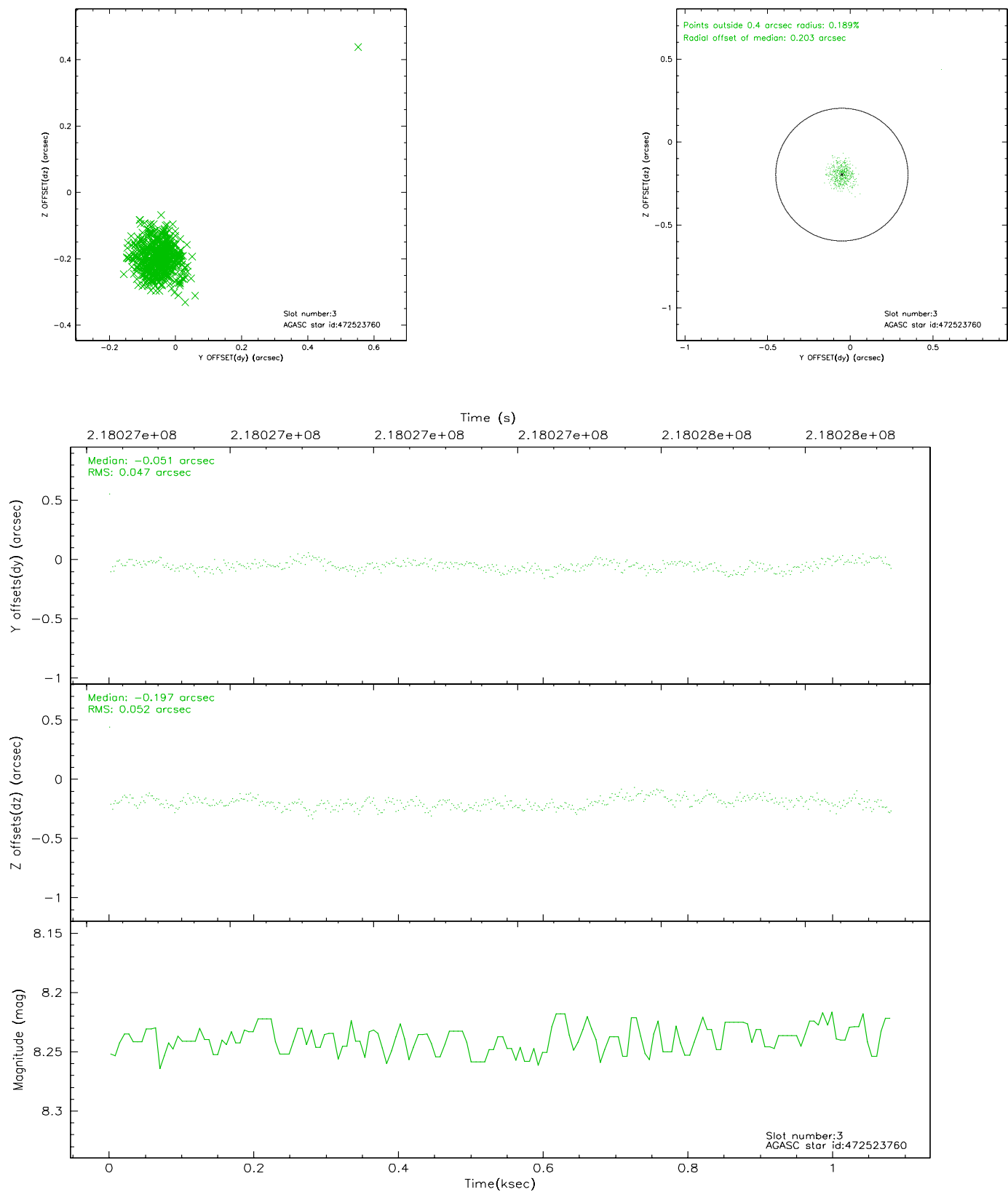


### Slot Statistics

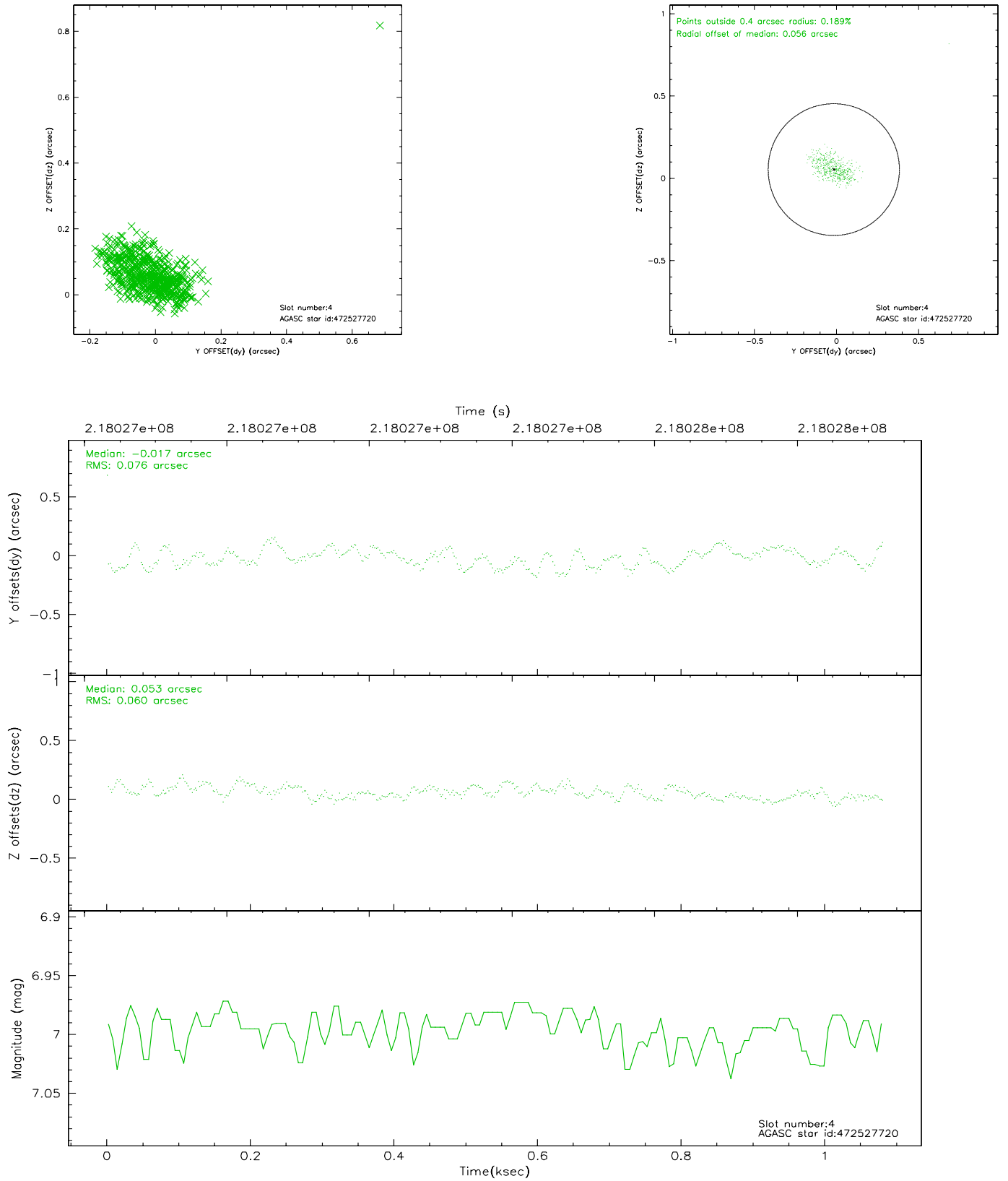
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.04	264	0.138	-0.150	0.012	0.042	0.000000	0.000000	-1161.64	-457.42
1	FID	HRC-S-2	7.03	264	0.158	-0.117	0.006	0.022	0.000000	0.000000	1233.66	-451.77
2	FID	HRC-S-3	7.04	264	0.092	-0.035	0.012	0.060	0.000000	0.000000	-1159.73	570.51
3	GUIDE	472523760	8.24	528	-0.051	-0.197	0.063	0.100	331.645363	45.403260	606.08	-1443.00
4	GUIDE	472527720	6.99	528	-0.017	0.053	0.094	0.145	331.460205	45.112509	1465.61	-2206.40
5	GUIDE	472654568	9.44	528	0.110	0.032	0.109	0.168	332.194449	45.063576	2188.01	-477.41
6	GUIDE	472655152	9.44	528	0.012	0.087	0.097	0.156	332.504239	45.862991	-338.39	1108.59
7	GUIDE	472659832	9.47	525	-0.051	0.027	0.101	0.182	332.780399	46.098139	-956.69	2015.77

## 2.4 Star Slots

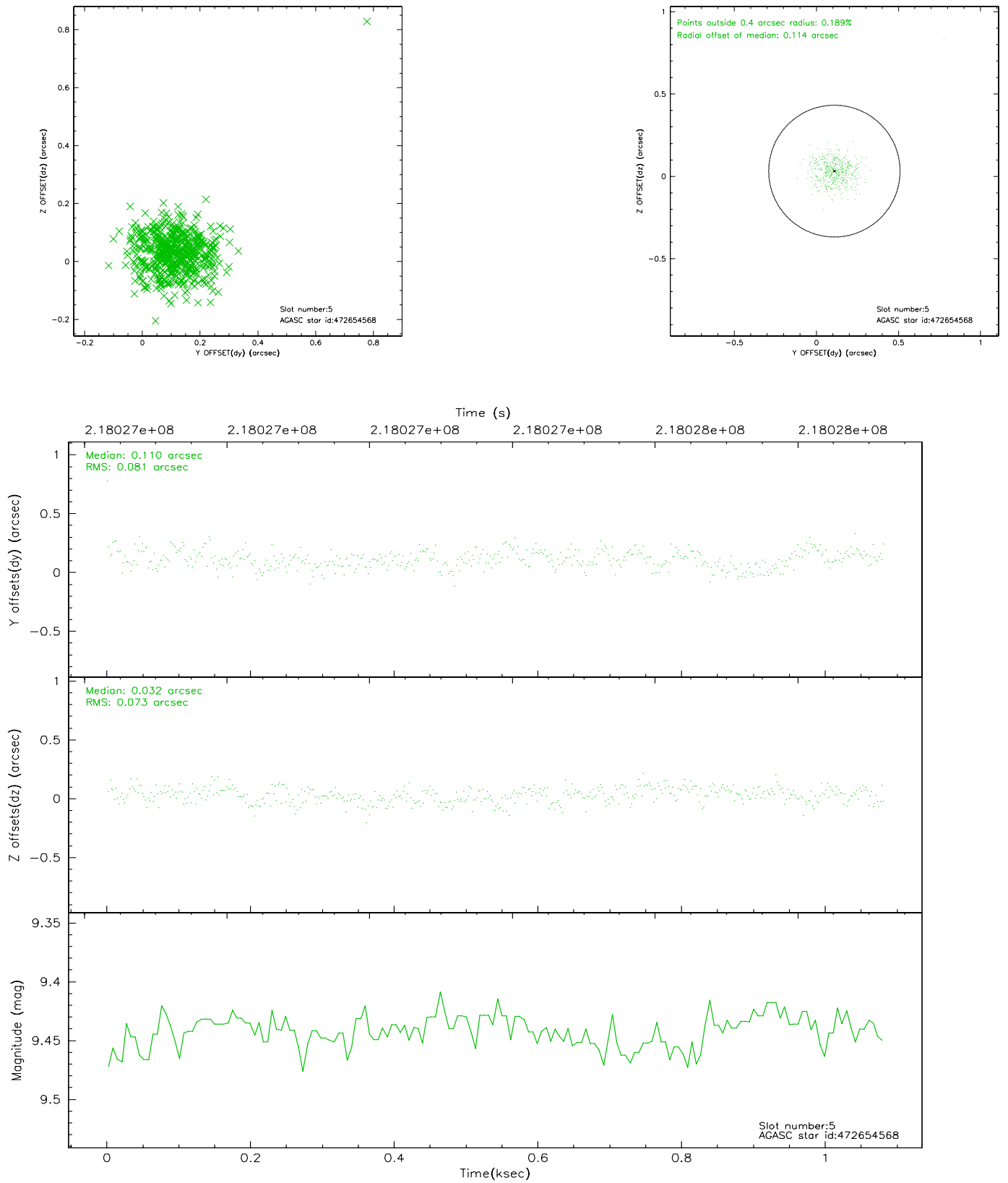
### 2.4.1 Slot 3



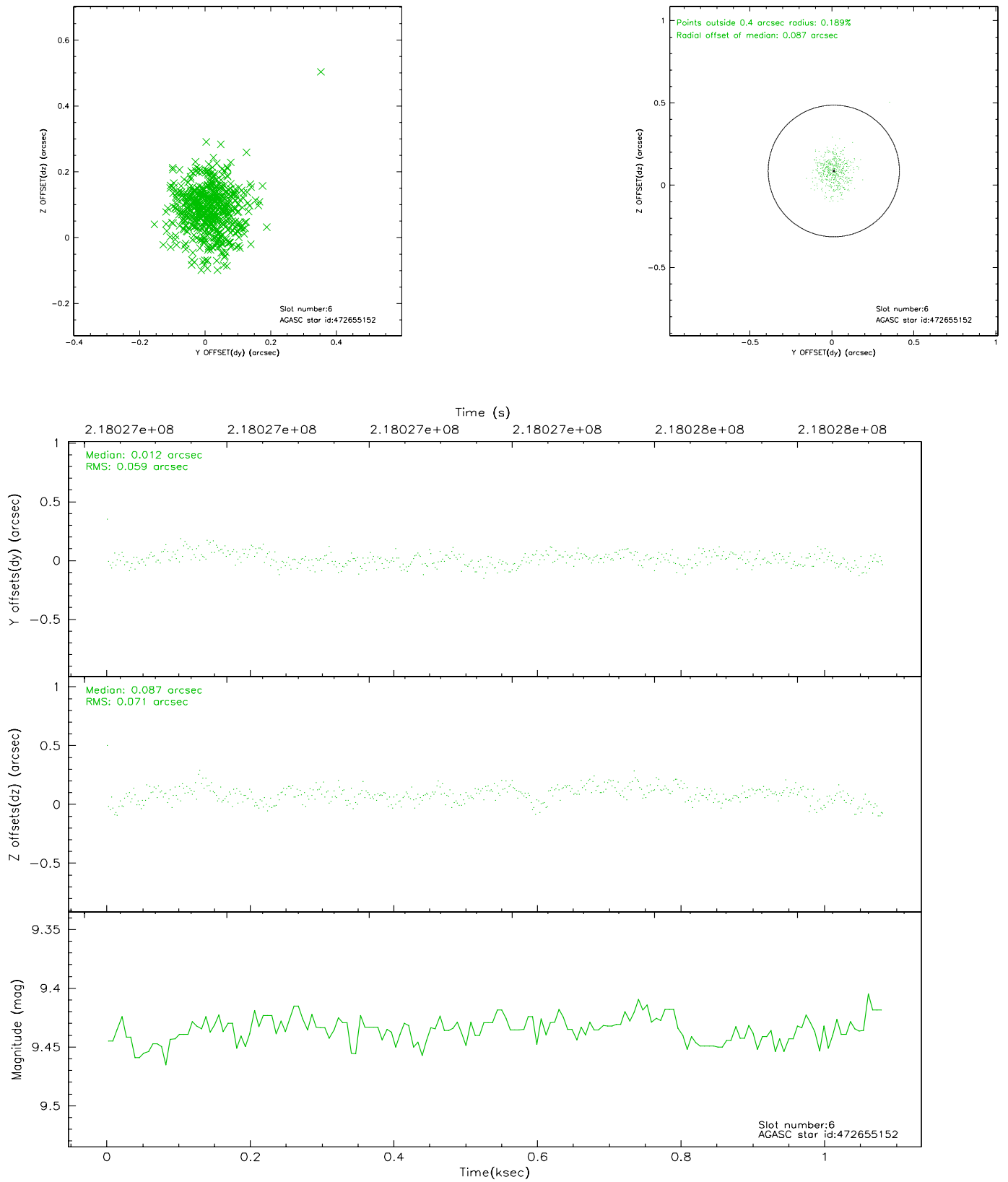
## 2.4.2 Slot 4



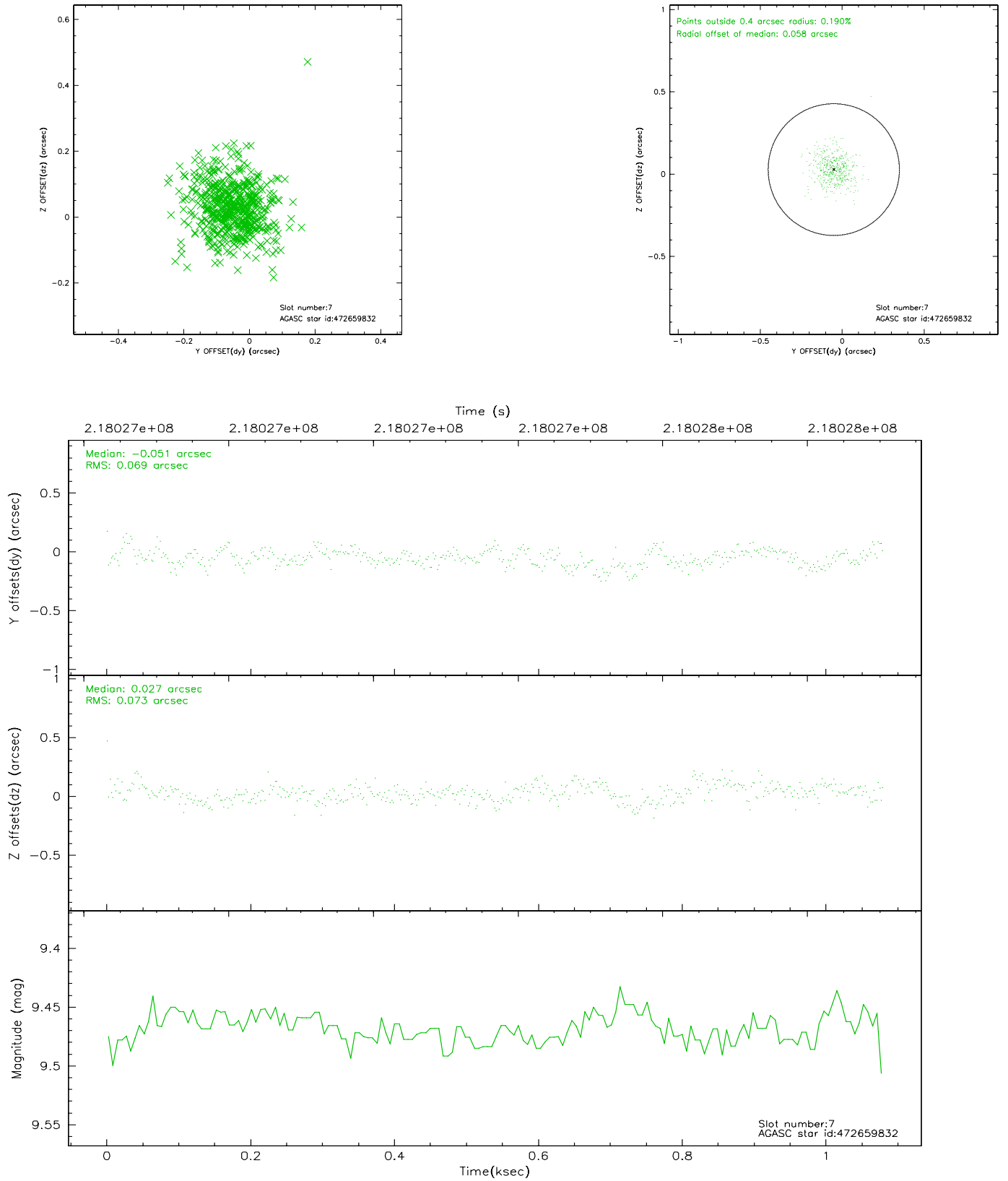
### 2.4.3 Slot 5



## 2.4.4 Slot 6

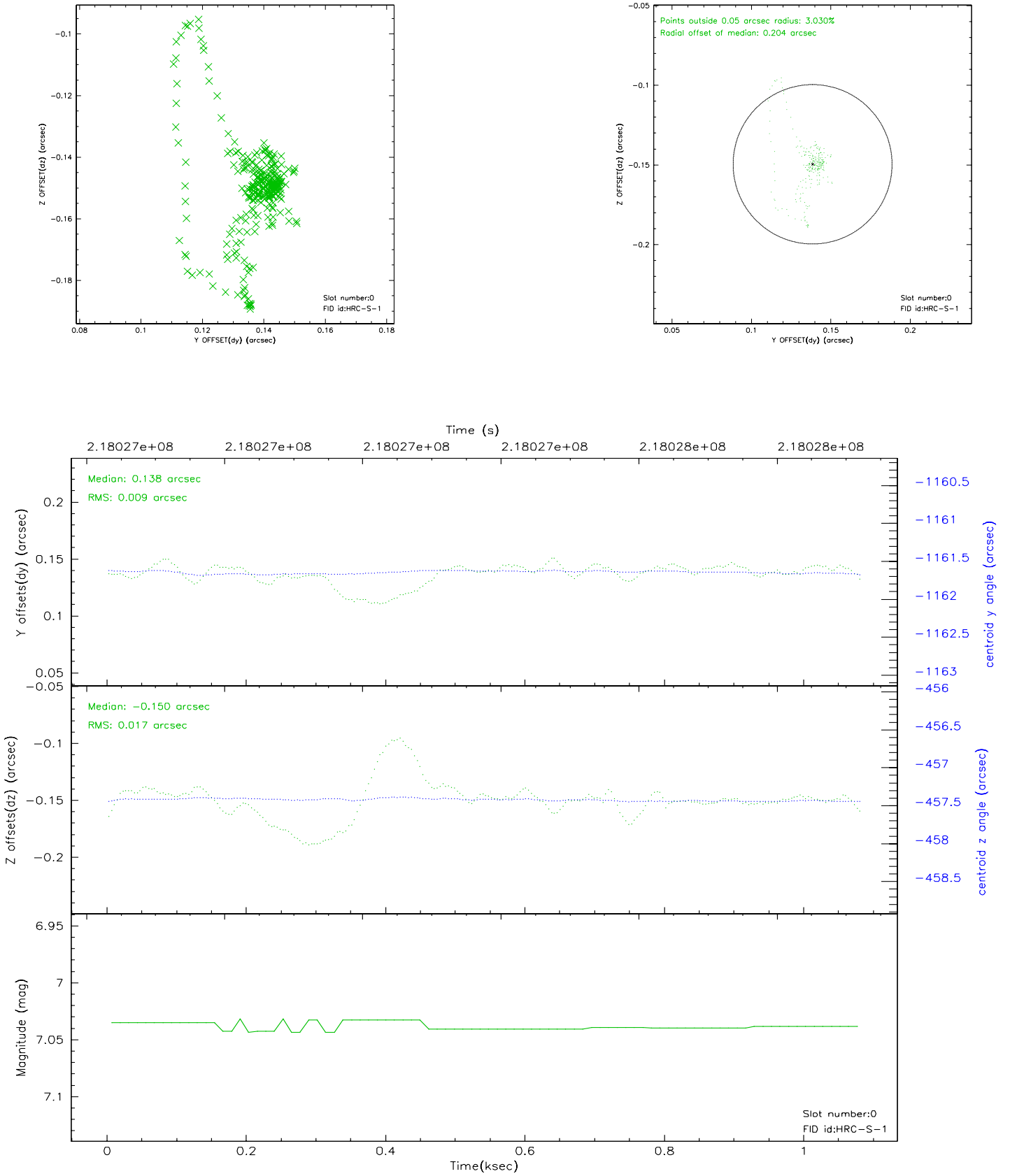


## 2.4.5 Slot 7

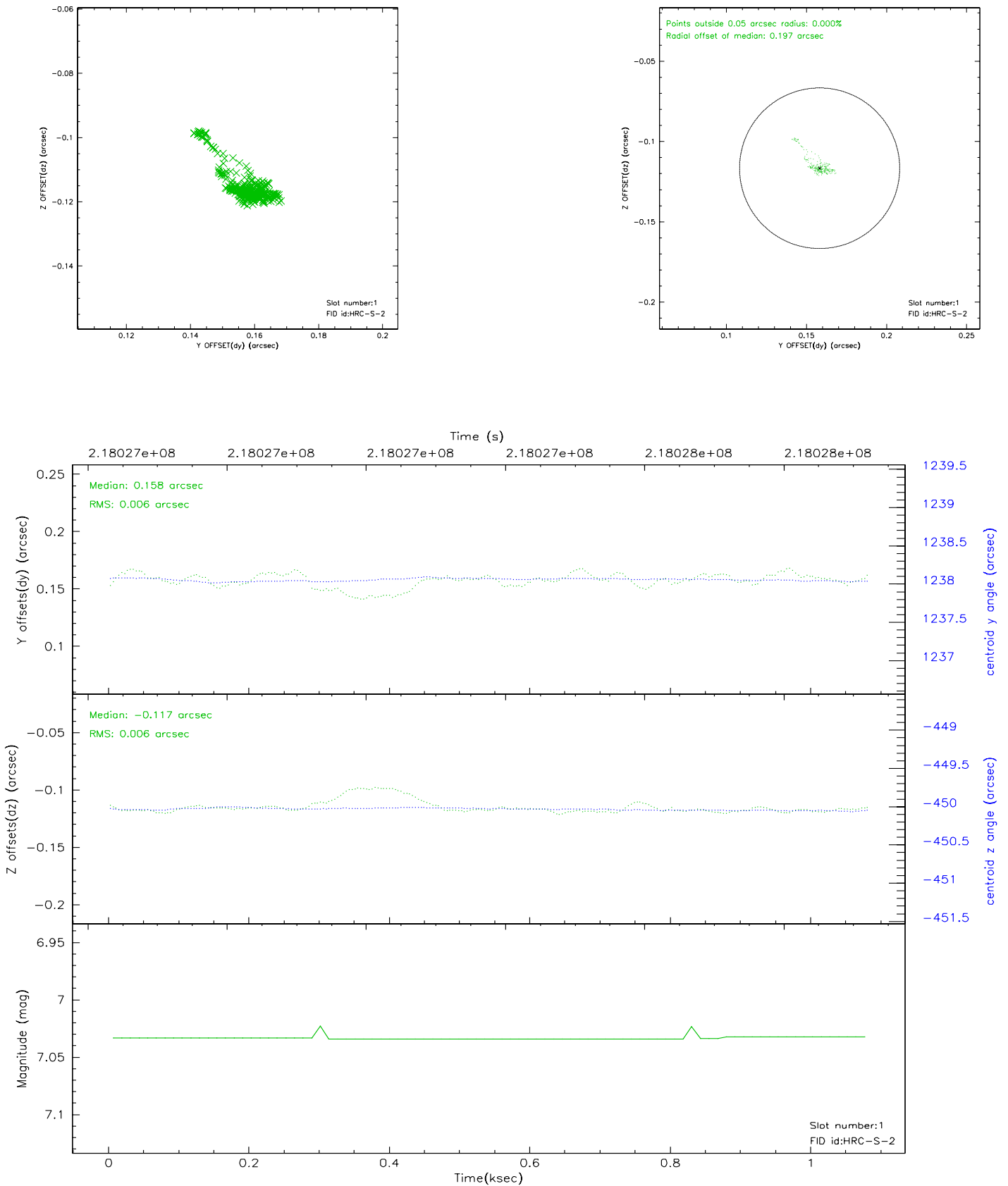


## 2.5 FID Slots

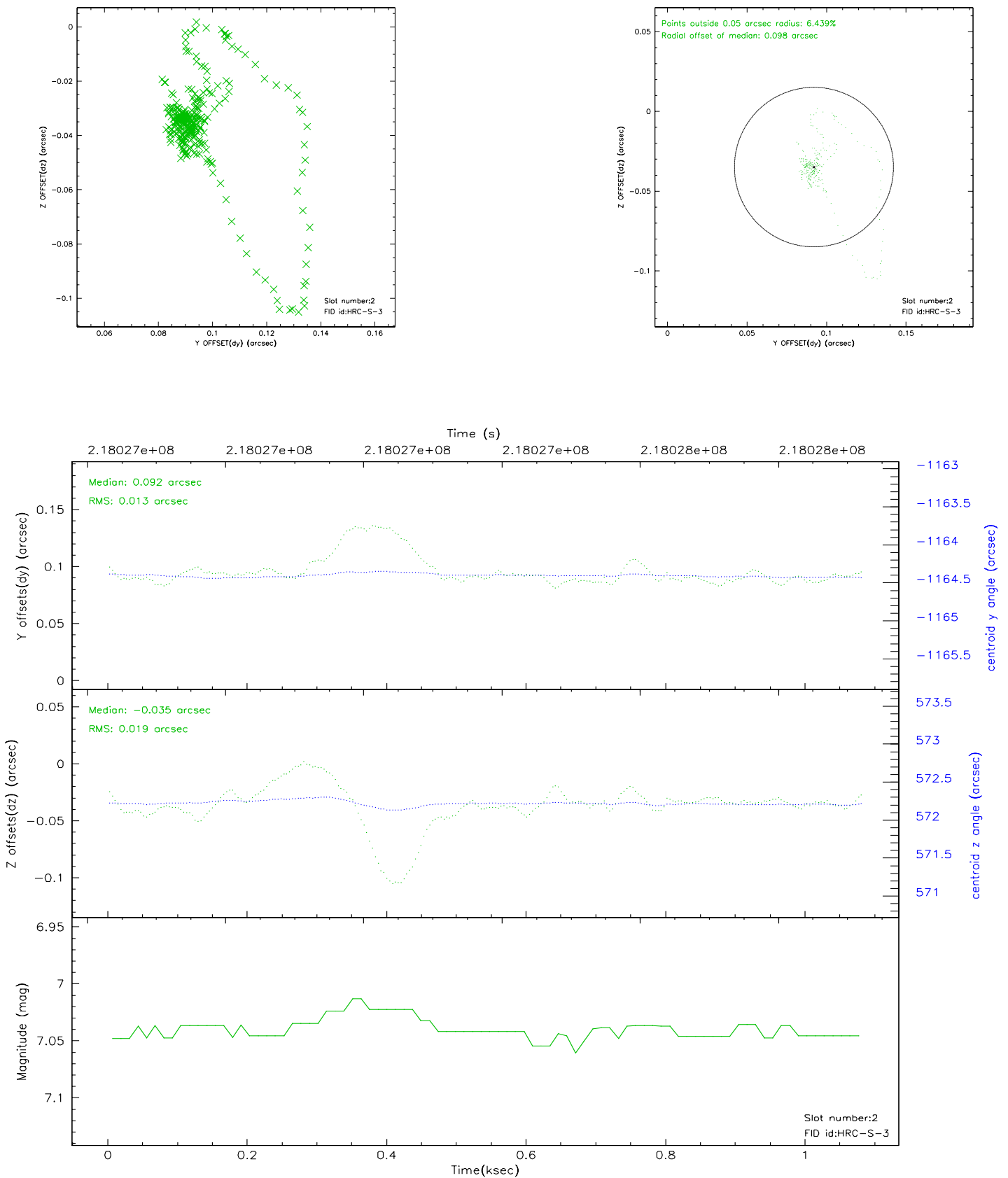
### 2.5.1 Slot 0



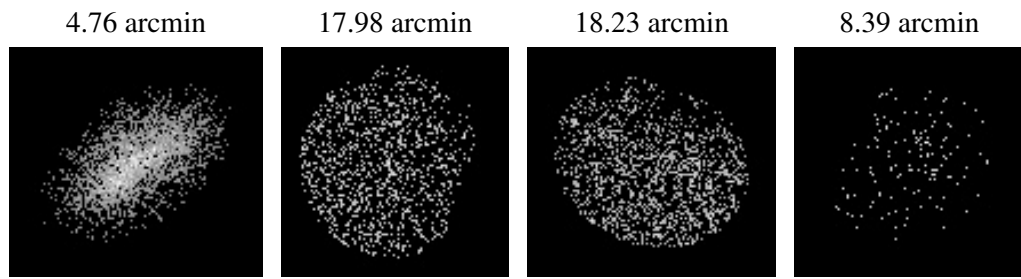
## 2.5.2 Slot 1



### 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	2
V&V Disposition and Status	OK
V&V Charge Time	1.050881

## 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.