

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 2874 - L2 Version 3  
Chandra X-Ray Center

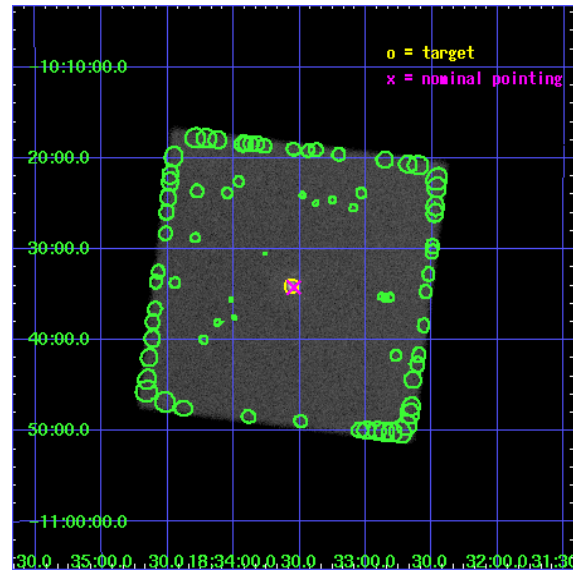
L2 Processing Date : Nov 21 2007

## 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

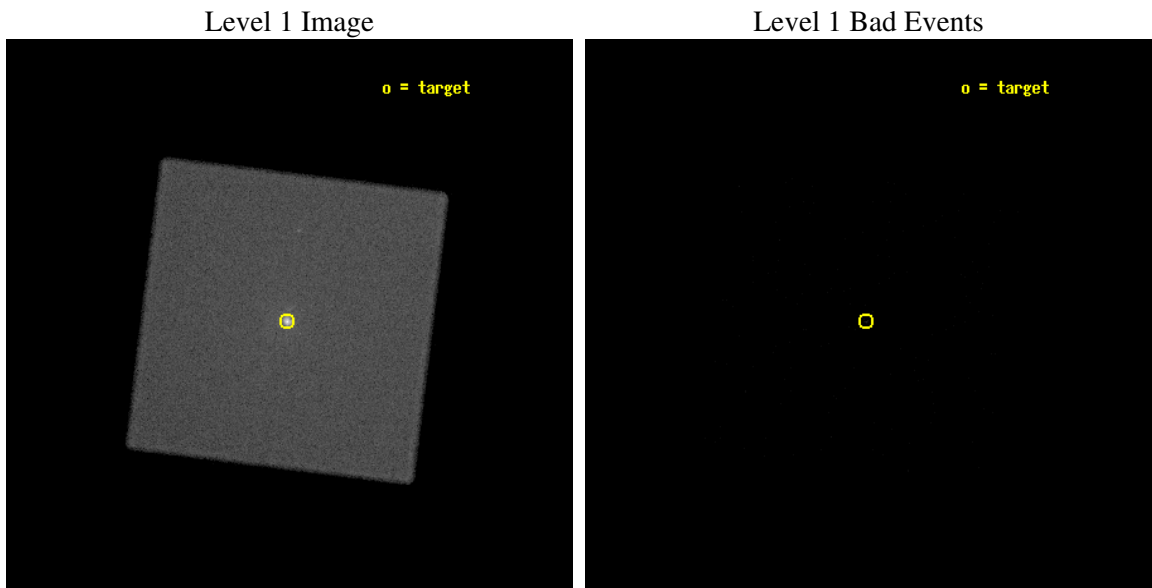
seq_num	590263
obs_id	2874
title	AO3B CALIBRATION OBSERVATIONS THE STANDARD CANDLES CAS A AND G21.5-09
observer	Dr. CXC Calibration
object	G21.5-0.9 [HRC-I, Offsets=0,0,0]
ra_targ	278.389583
dec_targ	-10.568528
ra_nom	278.38591466403
dec_nom	-10.570539449222
roll_nom	232.06402859632
revision	3
ontime	19870.650816143
livetime	19762.594990768
l2events	544342



## 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	2007-11-21T22:40:31
revision	3

sched_exp_time	20000.000000
ontime	19870.650816143
l1events	820973

### 2.1.3 Events

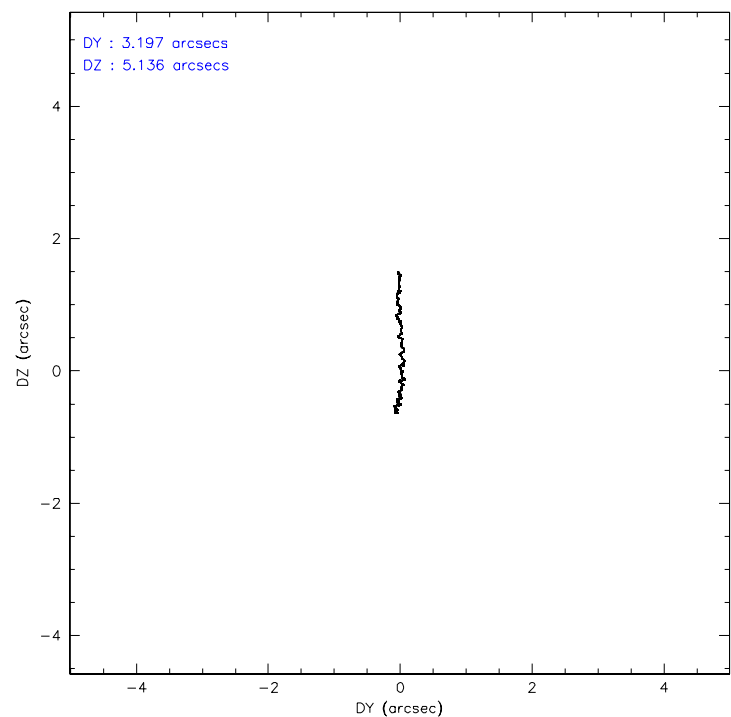
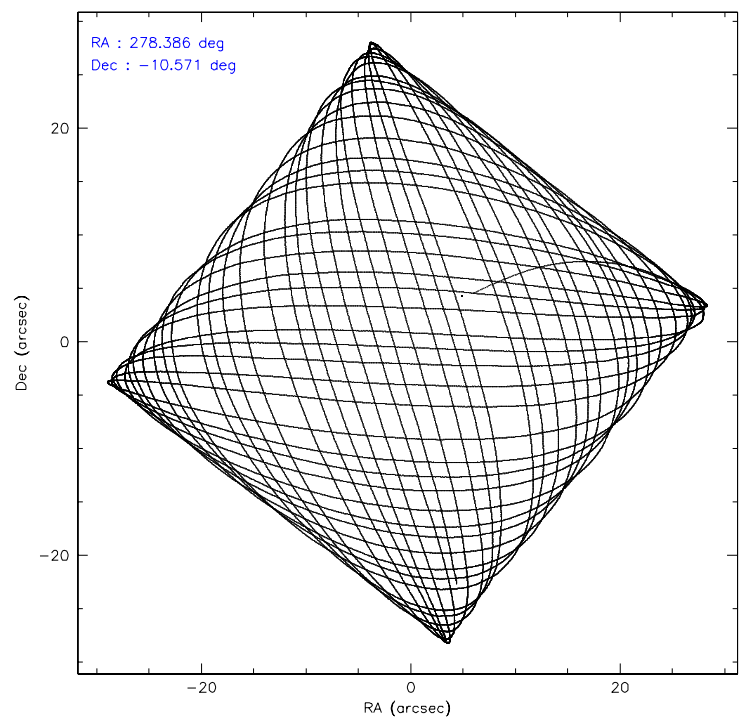
#### Level 1 Events

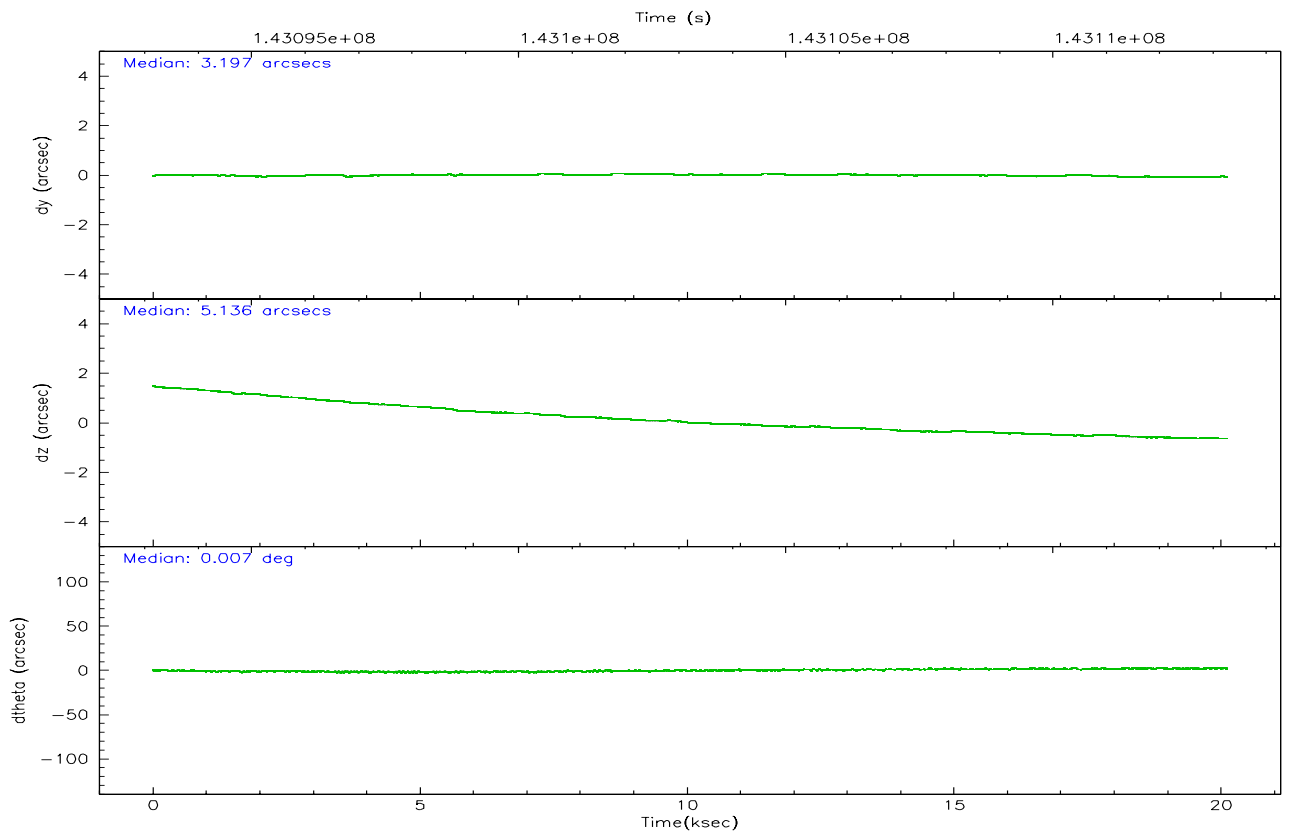
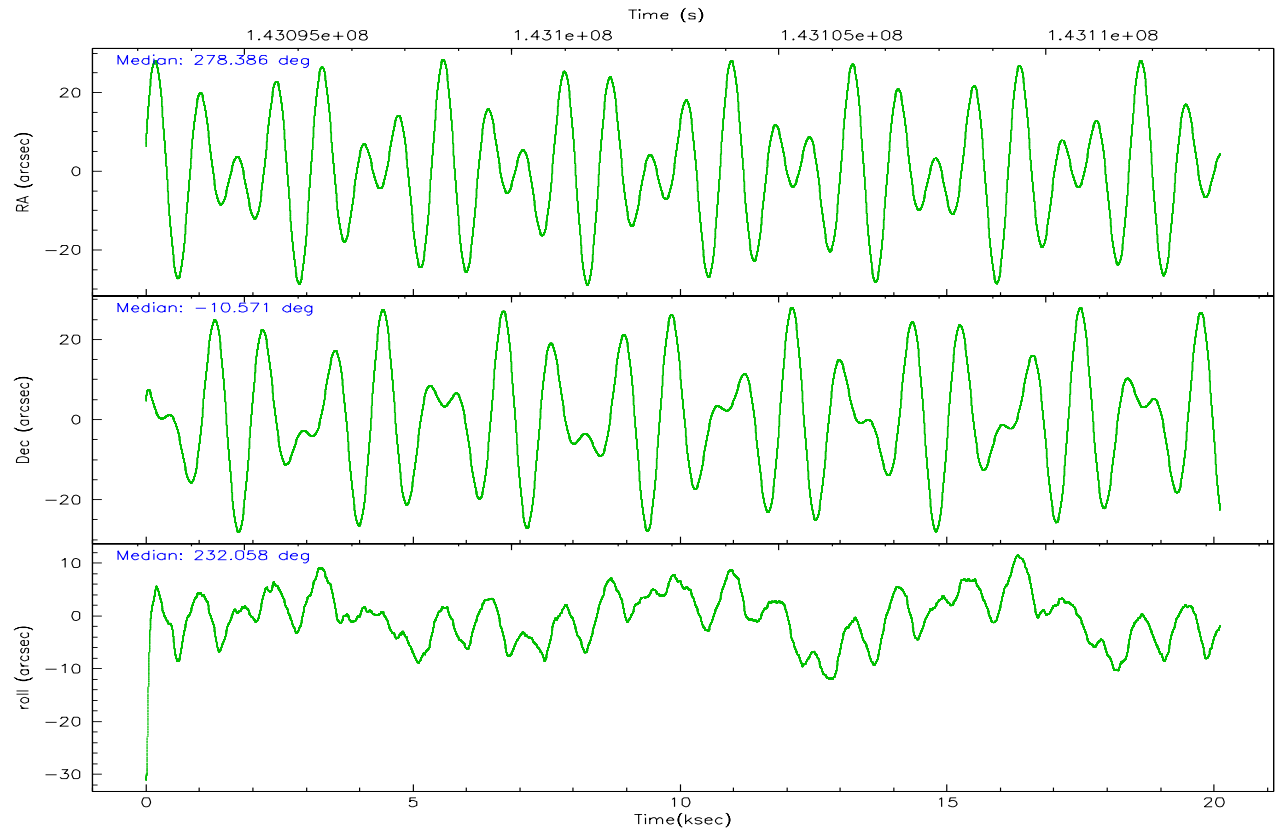
	<b>segment 0</b>
level 1 events	820973
rejected events	3917
rejected %	0%

## 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	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
Pointing RA	278.389060	278.3859146640276			
Pointing Dec	-10.543646	-10.57053944922245			
Pointing Roll	232.160113	232.0640285963211			
Window start time	141868864.184000	141868864.184000			
Window stop time	144460864.184000	144460864.184000			
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	143093267.184000	143092226.88417			
Observation start date	2002-07-15T04:06:43	2002-07-15T03:50:26			
Observation end time	143113267.184000	143113814.92256			
Observation end date	2002-07-15T09:40:03	2002-07-15T09:50:14			

### 2.3 Aspect





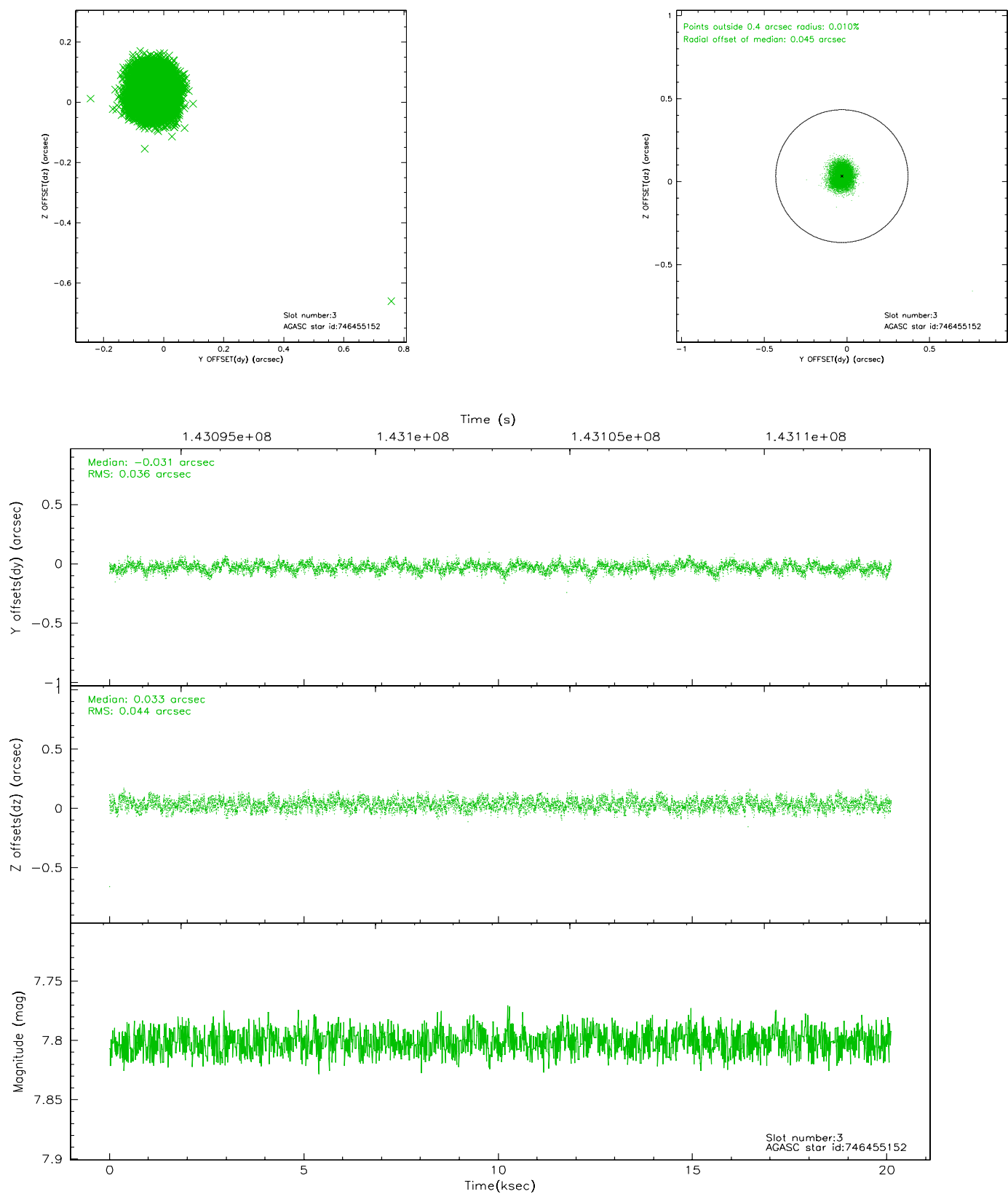
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.98	4907	0.001	0.043	0.024	0.043	0.000000	0.000000	-758.64	-1293.08
1	FID	HRC-I-2	7.02	4906	0.078	-0.044	0.014	0.025	0.000000	0.000000	853.91	-1294.95
2	FID	HRC-I-3	7.07	4907	0.040	-0.087	0.014	0.035	0.000000	0.000000	-1186.97	1011.09
3	GUIDE	746455152	7.80	9814	-0.031	0.033	0.061	0.095	278.447893	-9.976732	-1739.71	-1087.31
4	GUIDE	746462456	8.39	9814	-0.047	0.012	0.071	0.116	278.652171	-10.530173	-609.42	706.14
5	GUIDE	746460272	8.91	9804	0.003	-0.080	0.072	0.117	278.847488	-10.152127	-2108.92	418.90
6	GUIDE	746460328	9.80	9798	0.048	0.045	0.122	0.204	278.603974	-9.898096	-2302.68	-823.55
7	GUIDE	746461728	9.78	9790	0.025	-0.011	0.122	0.196	278.986921	-10.530755	-1333.65	1643.76

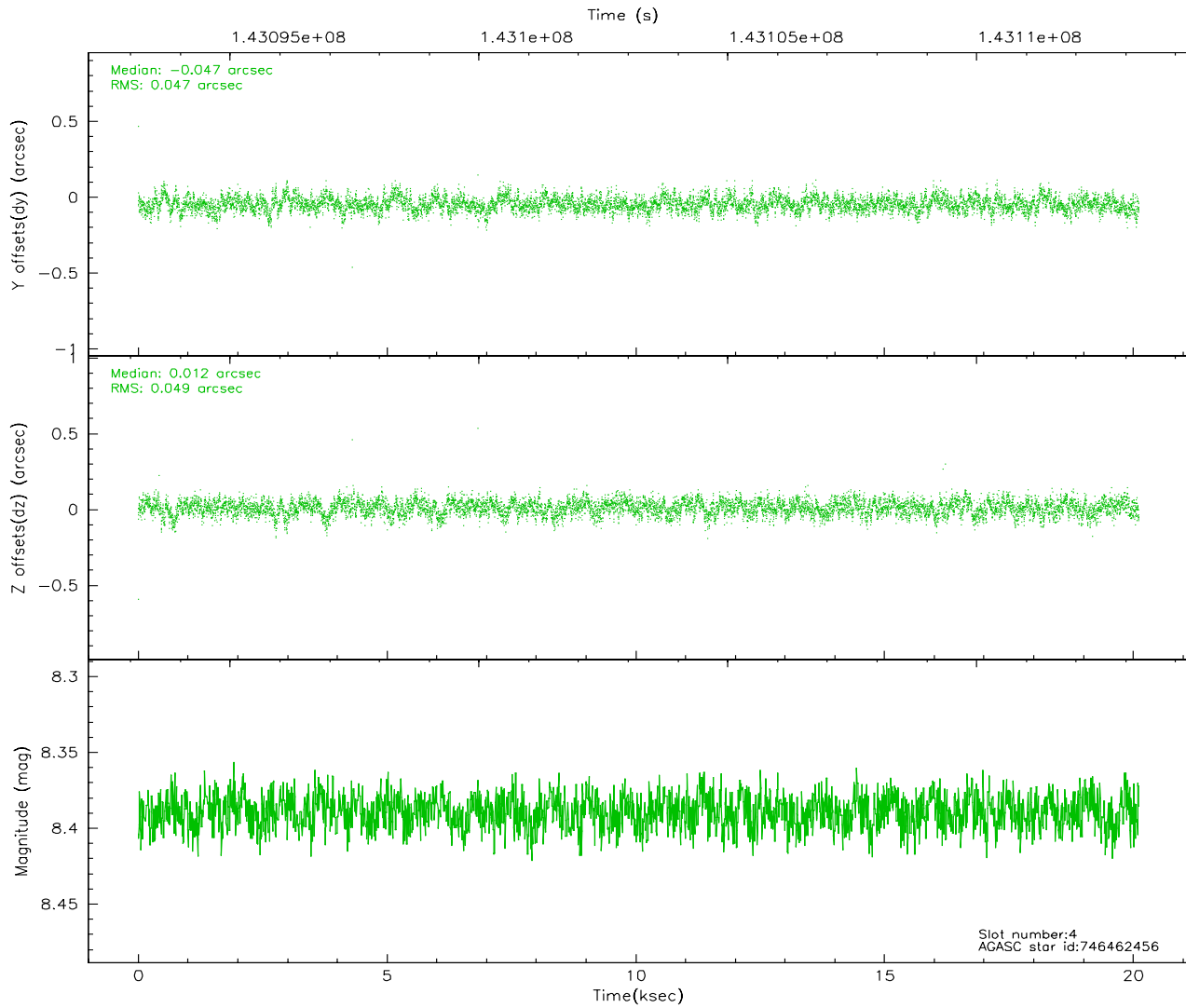
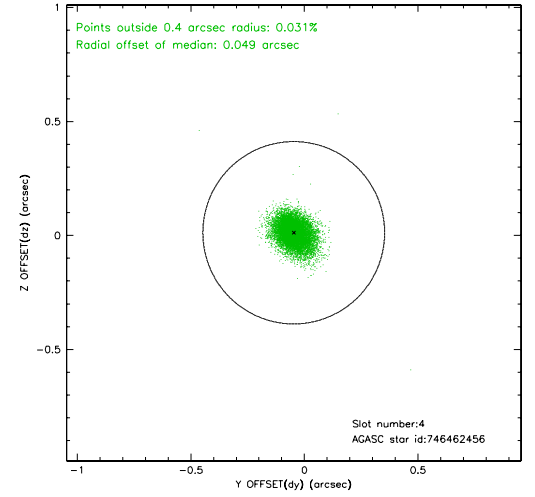
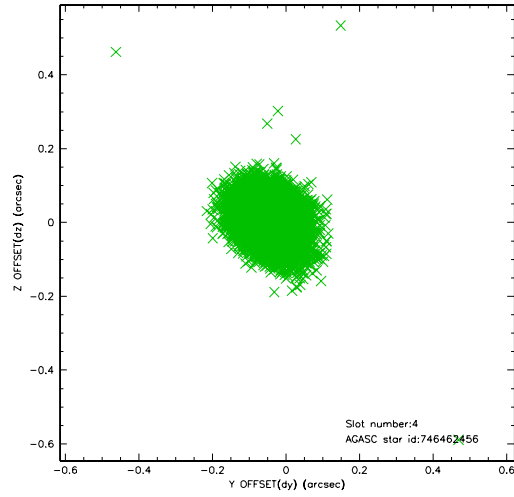


## 2.4 Star Slots

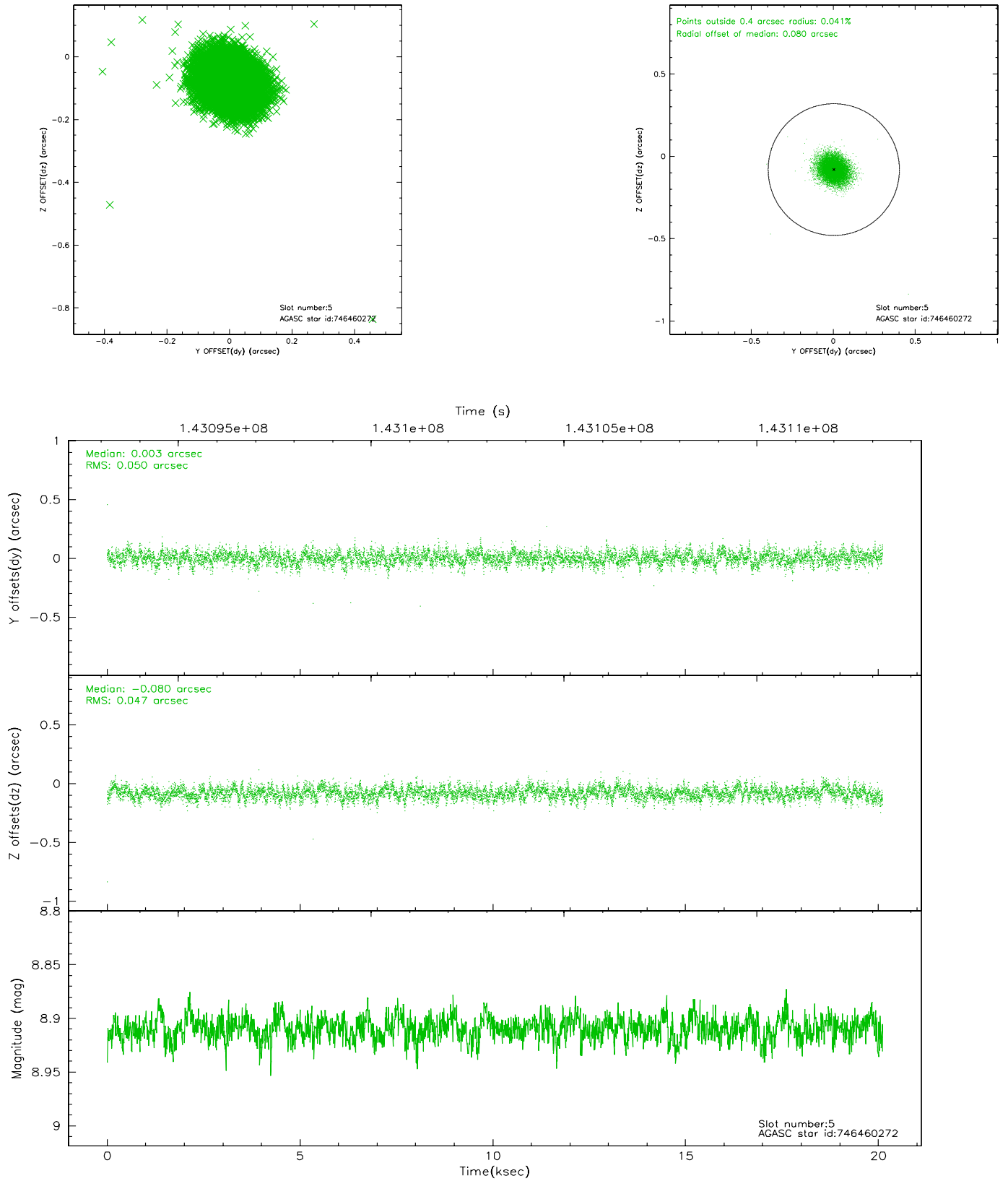
### 2.4.1 Slot 3



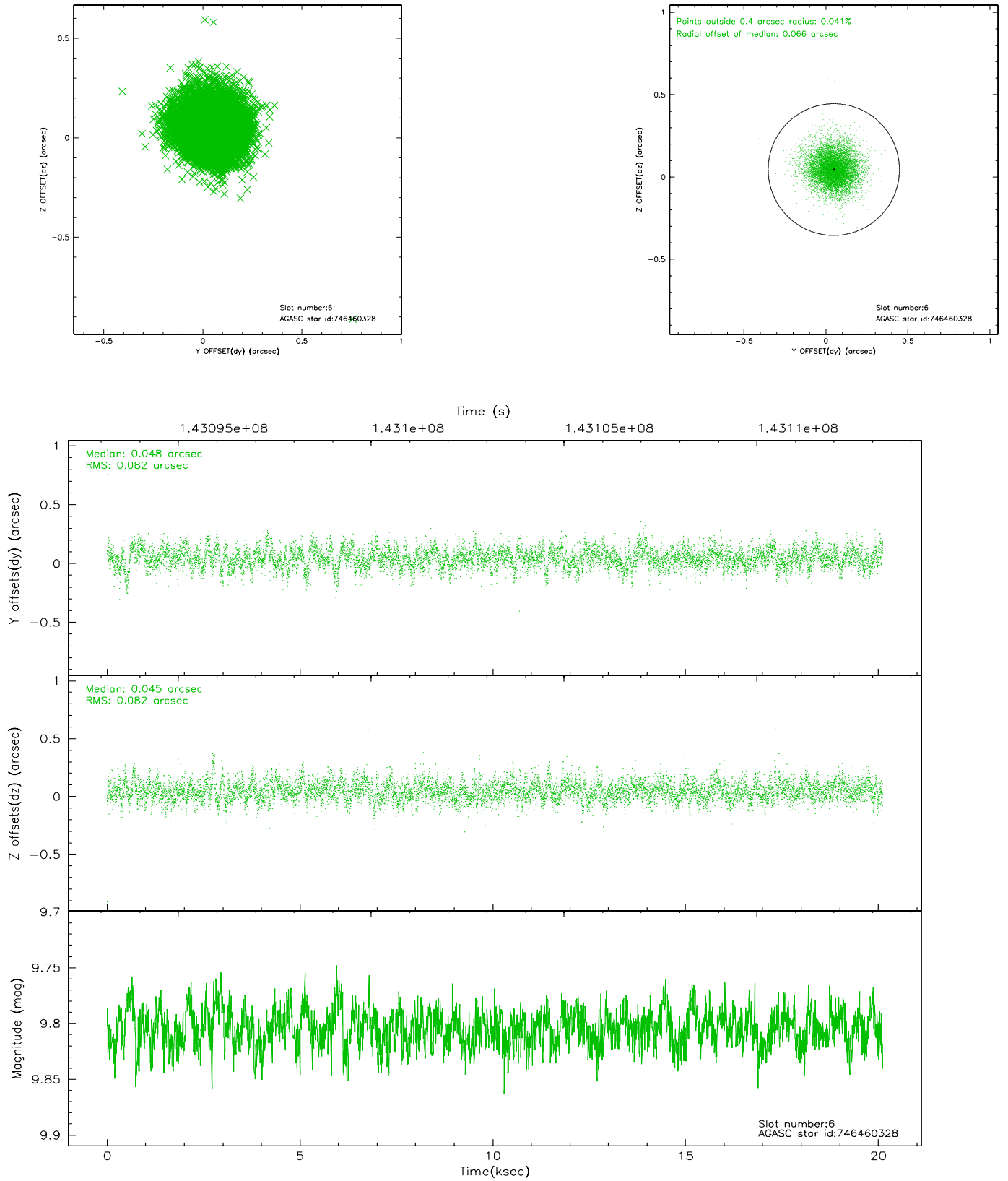
## 2.4.2 Slot 4



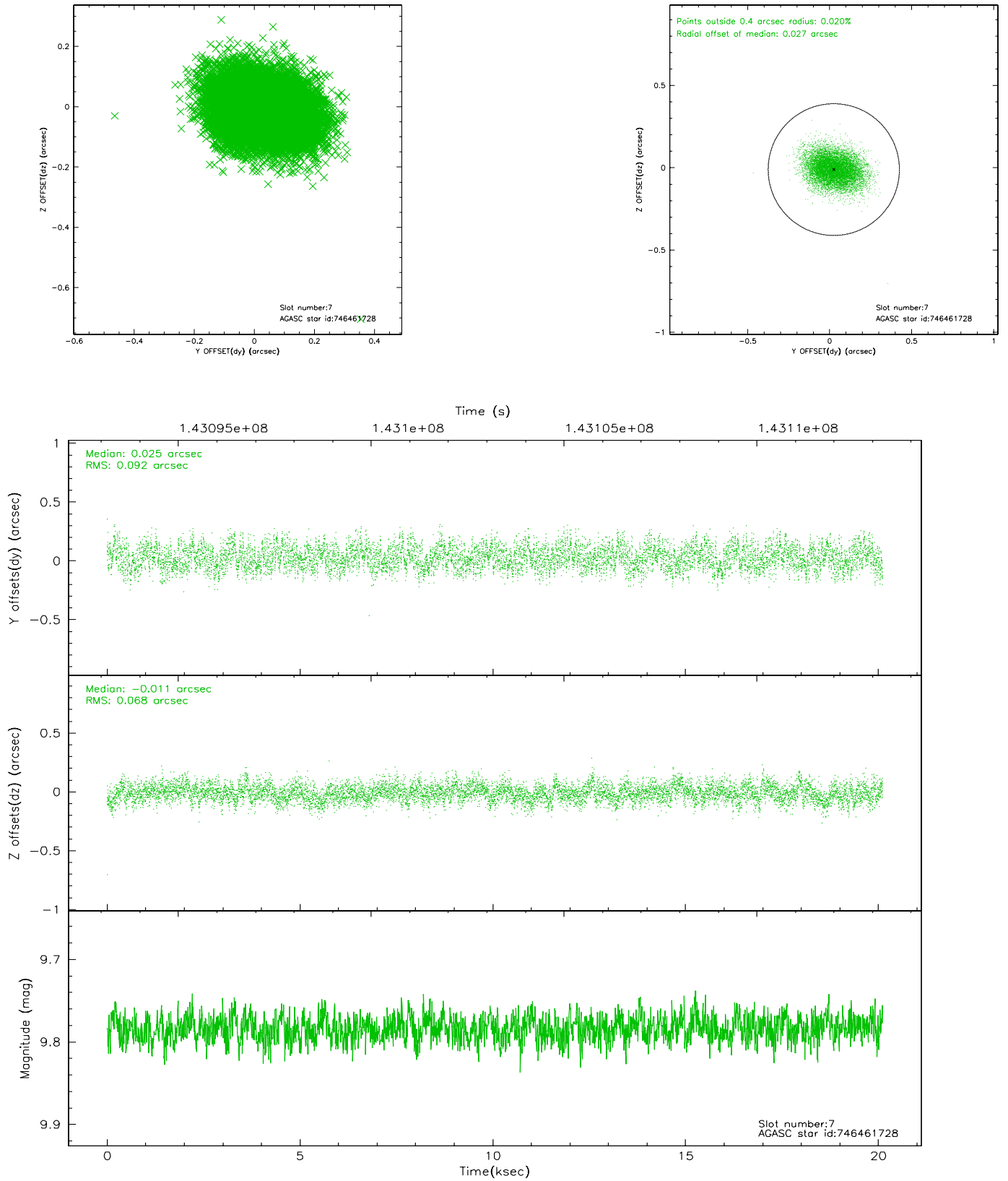
### 2.4.3 Slot 5



## 2.4.4 Slot 6

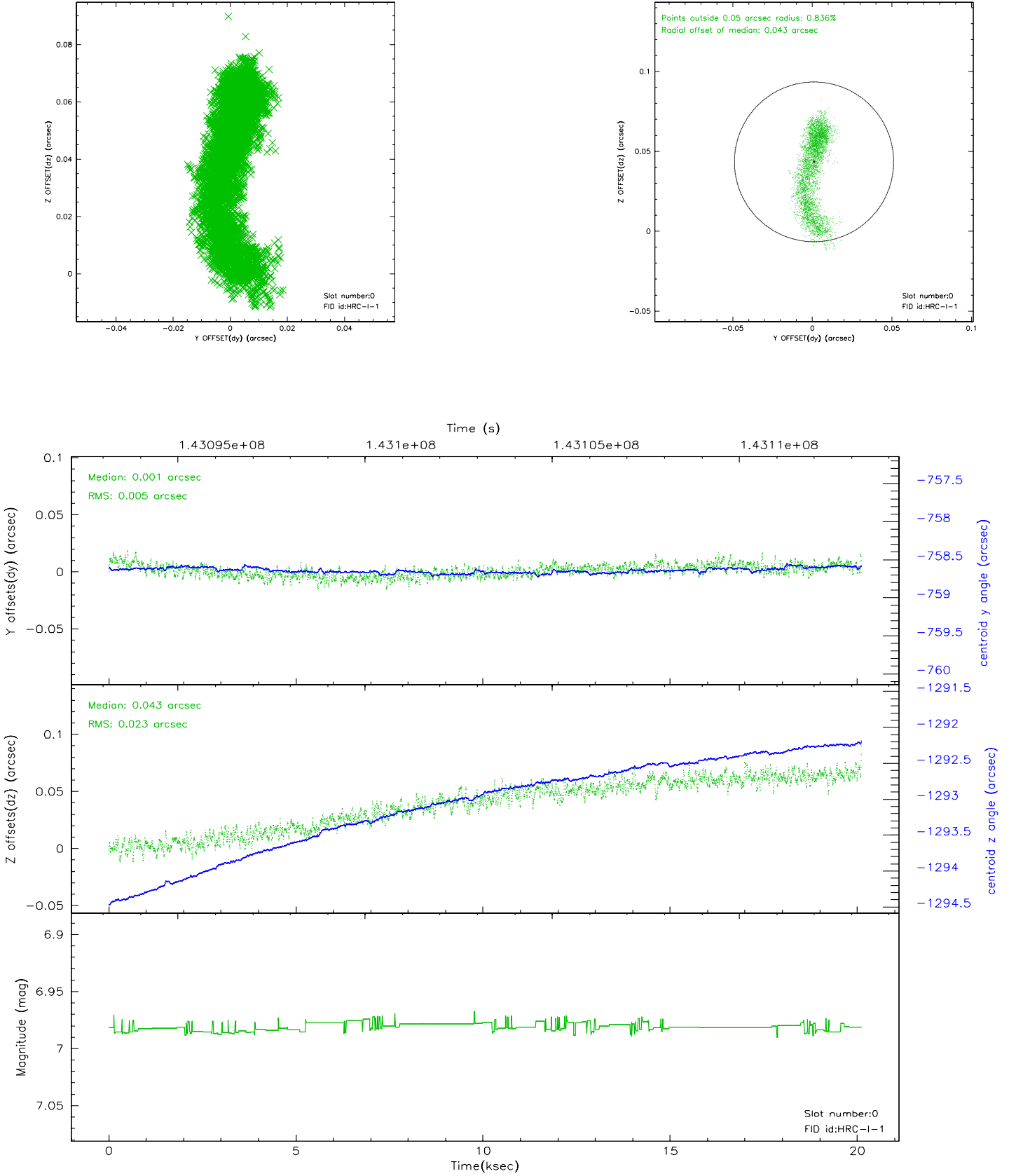


## 2.4.5 Slot 7

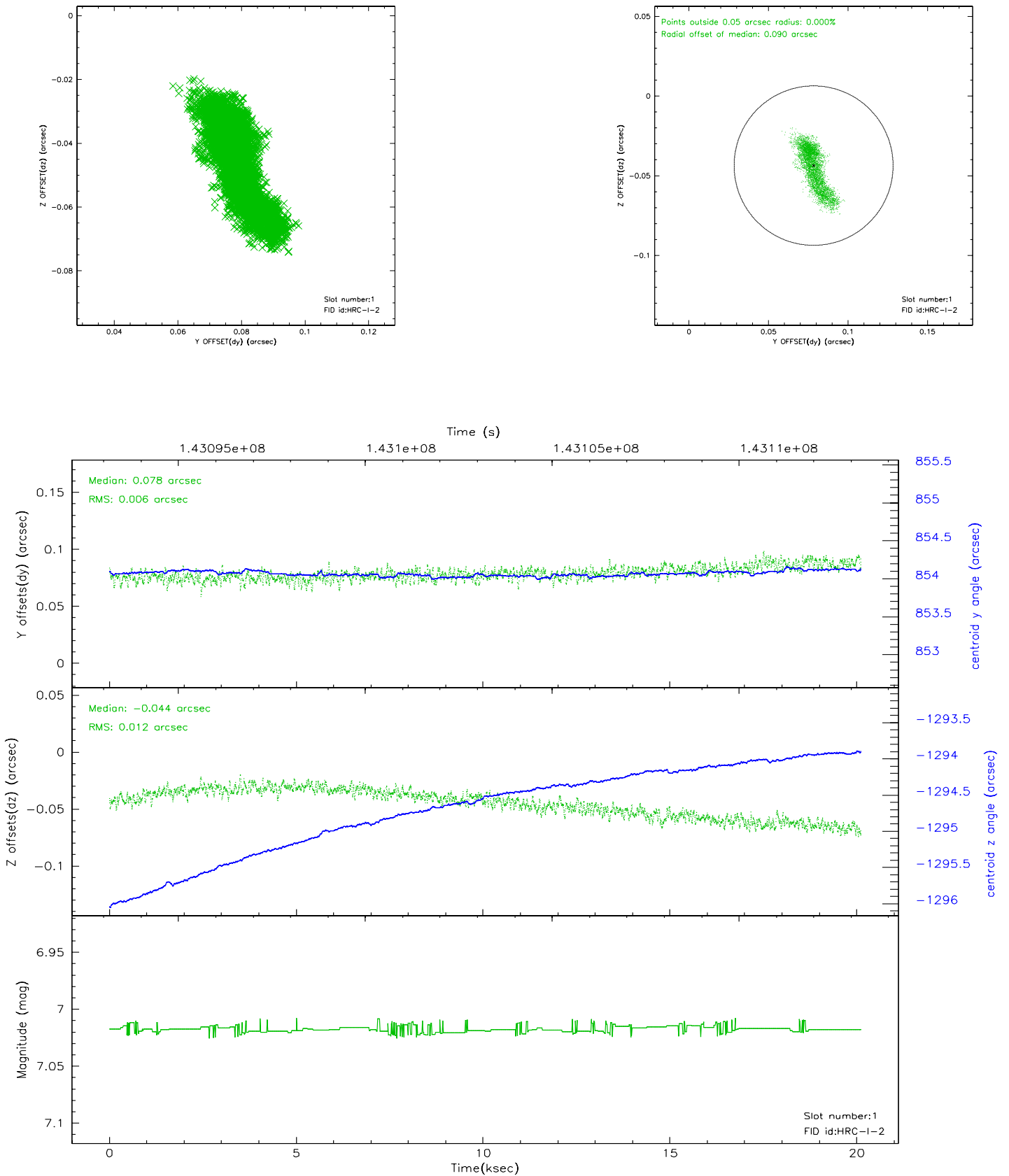


## 2.5 FID Slots

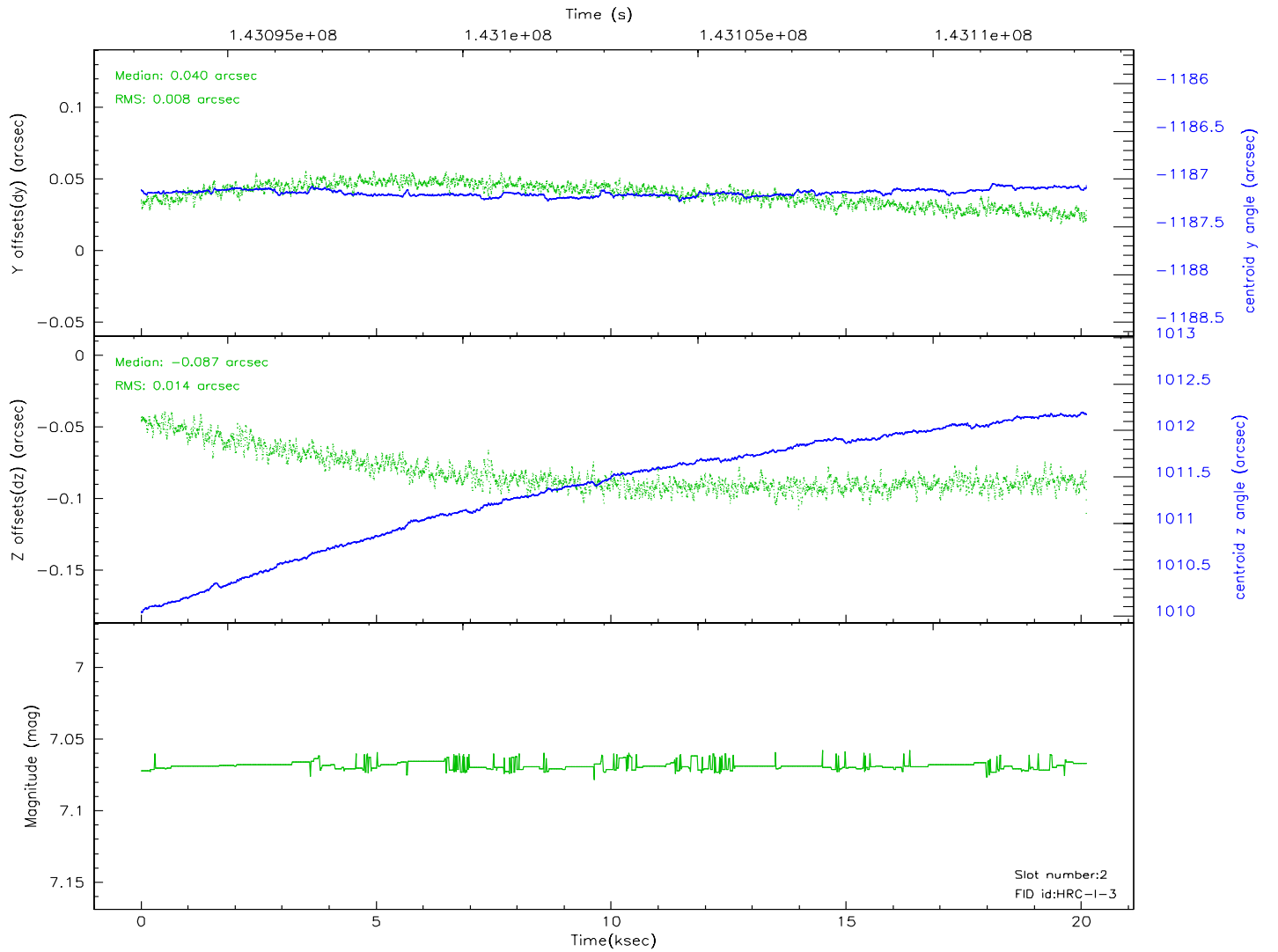
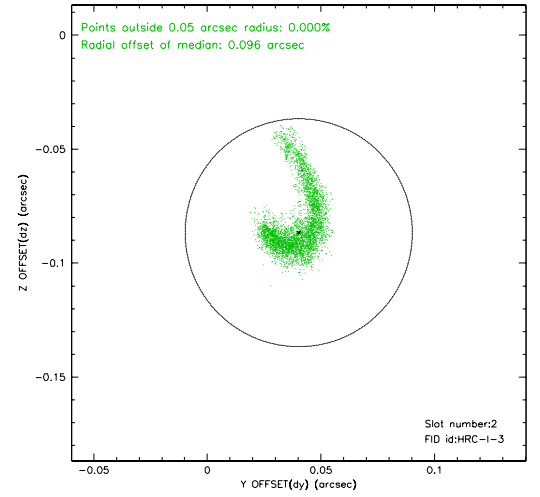
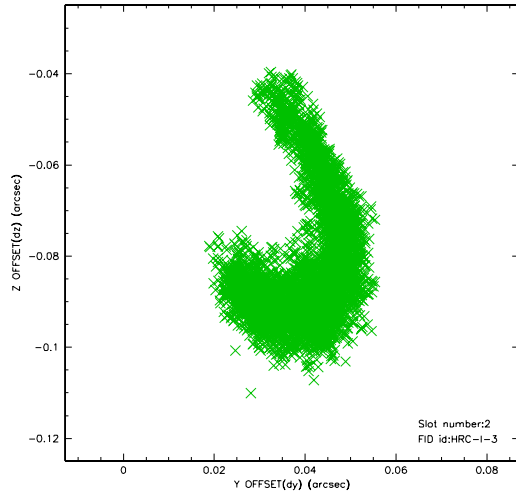
### 2.5.1 Slot 0



## 2.5.2 Slot 1

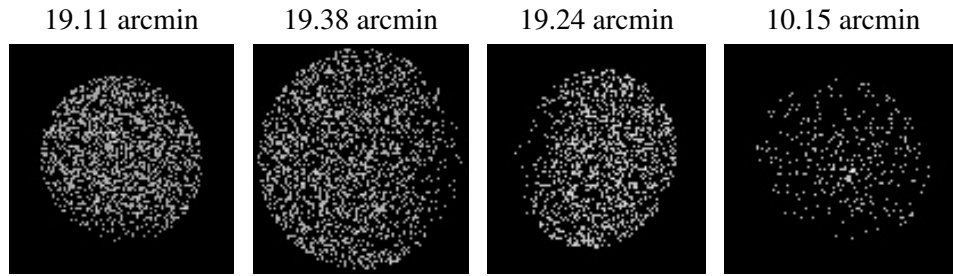


### 2.5.3 Slot 2





### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.12.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.87

## A.2 Comments

Window constraint satisfied.

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.