

# V&V Reference Report

## L2 ASCDS Version : 8.1.1

Observation 1368 - L2 Version 4

Chandra X-Ray Center

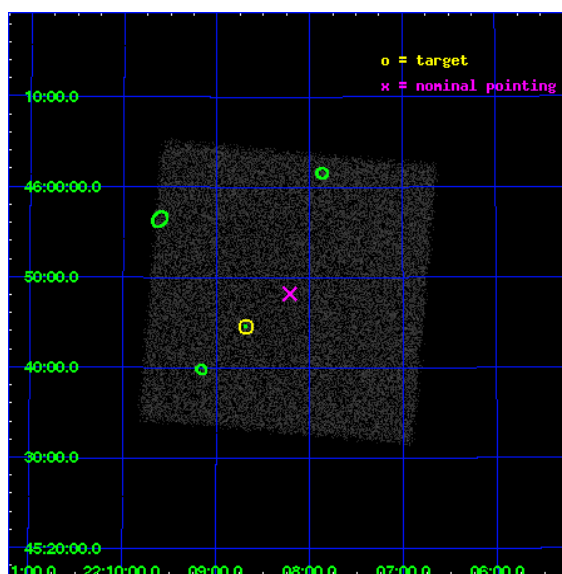
L2 Processing Date : Nov 19 2009

## 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

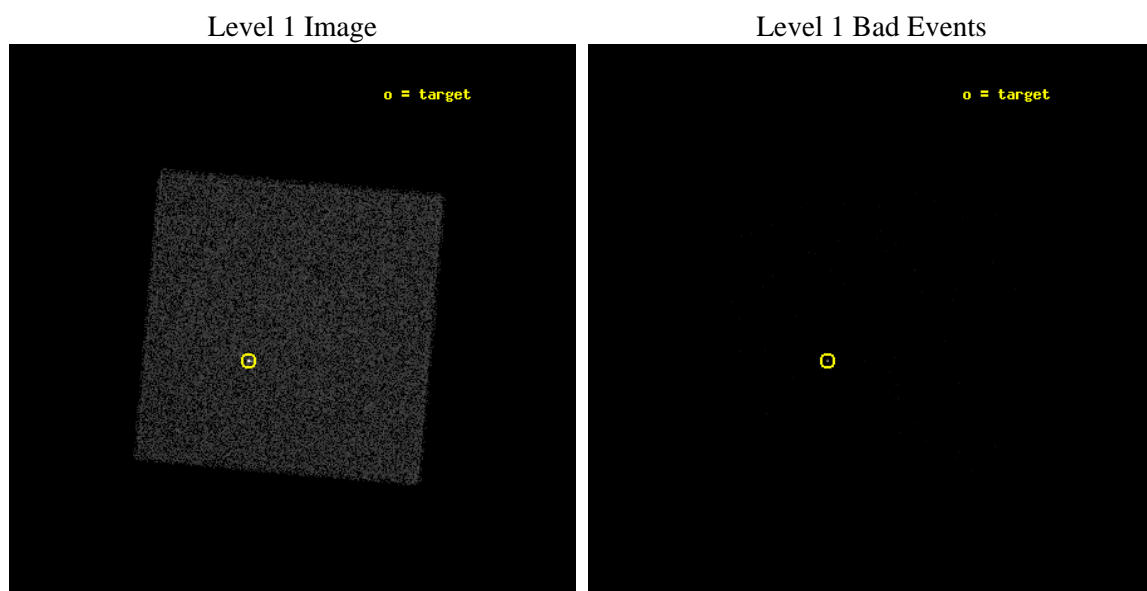
seq_num	280318	Sequence number
obs_id	1368	Observation id
title	&#160	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.1701	Observer's specified target RA
dec_targ	45.7423	Observer's specified target Dec
ra_nom	332.05292839785	Nominal RA
dec_nom	45.803538164899	Nominal Dec
roll_nom	230.05086779543	Nominal Roll
revision	4	Processing version of data
ontime	1275.3562959433	[s]
livetime	1266.1407804001	Ontime multiplied by DTCOR
l2events	43851	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	Scheduled observation exposure time
ascdsver	8.1.1	Processing system revision	ontime	1275.3562959433	[s]
caldbver	4.1.4	&#160	l1events	72570	Number of level 1 events
date	2009-11-19T07:36:47	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

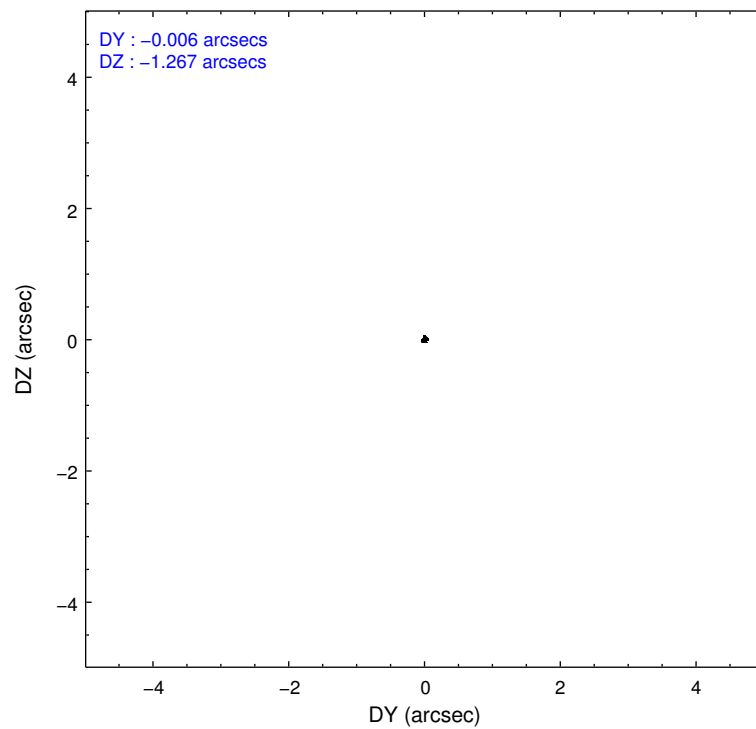
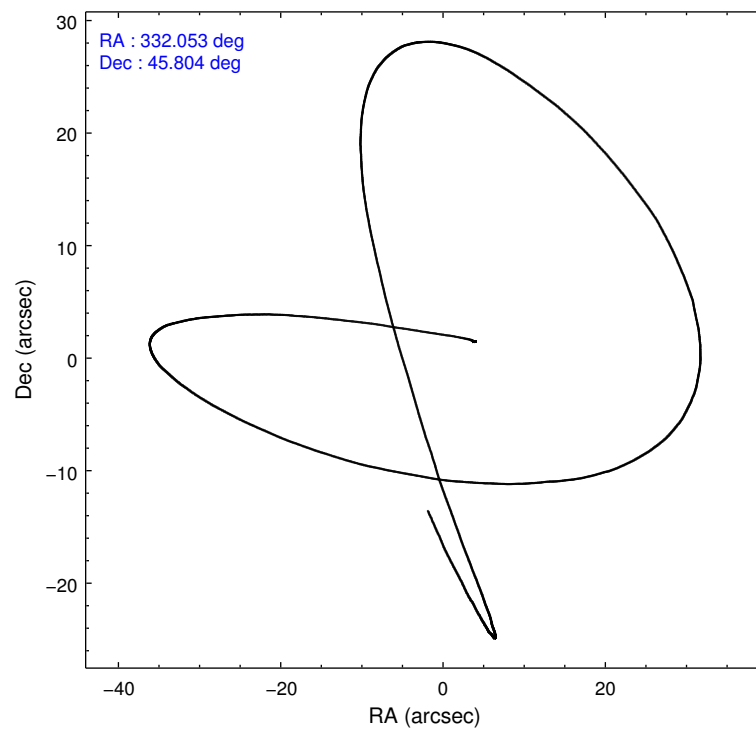
#### Level 1 Events

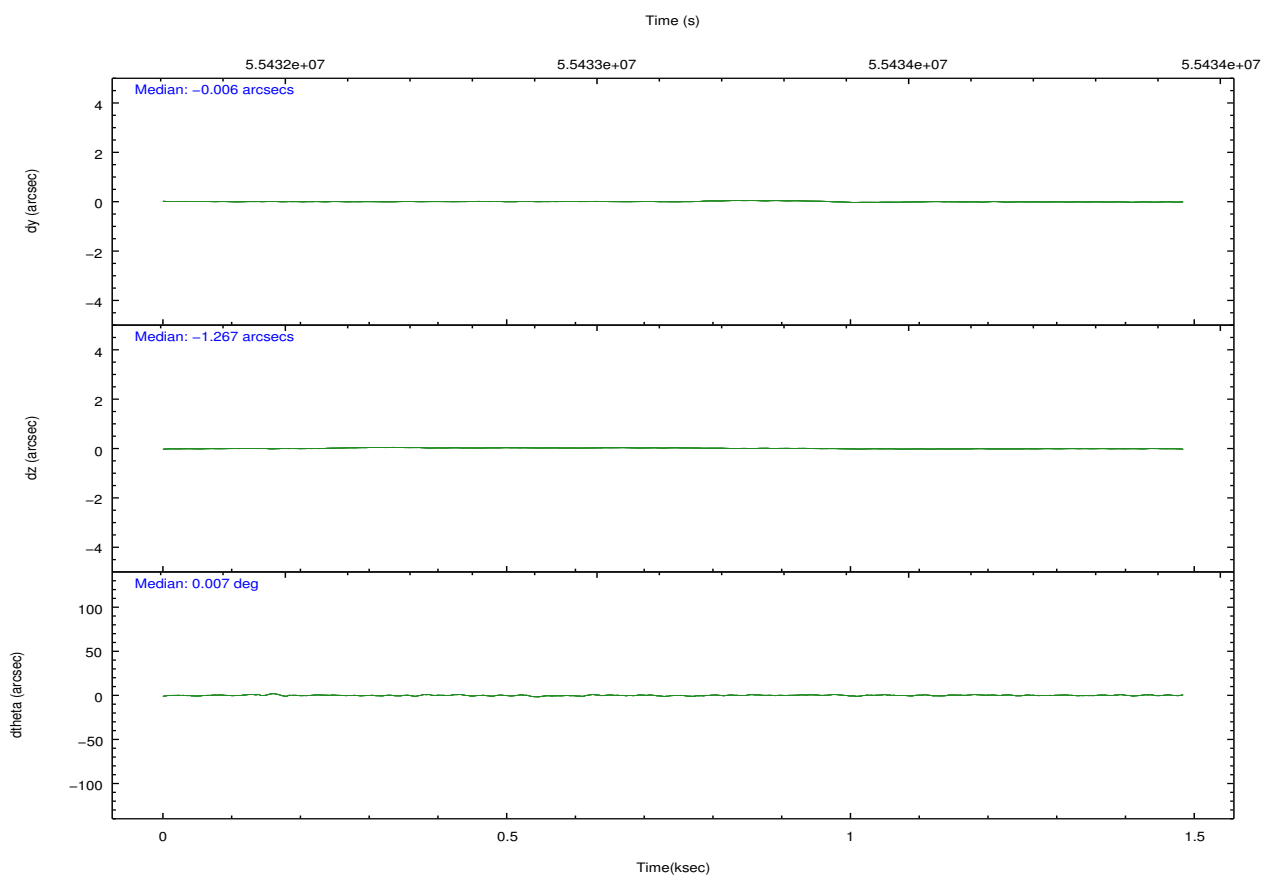
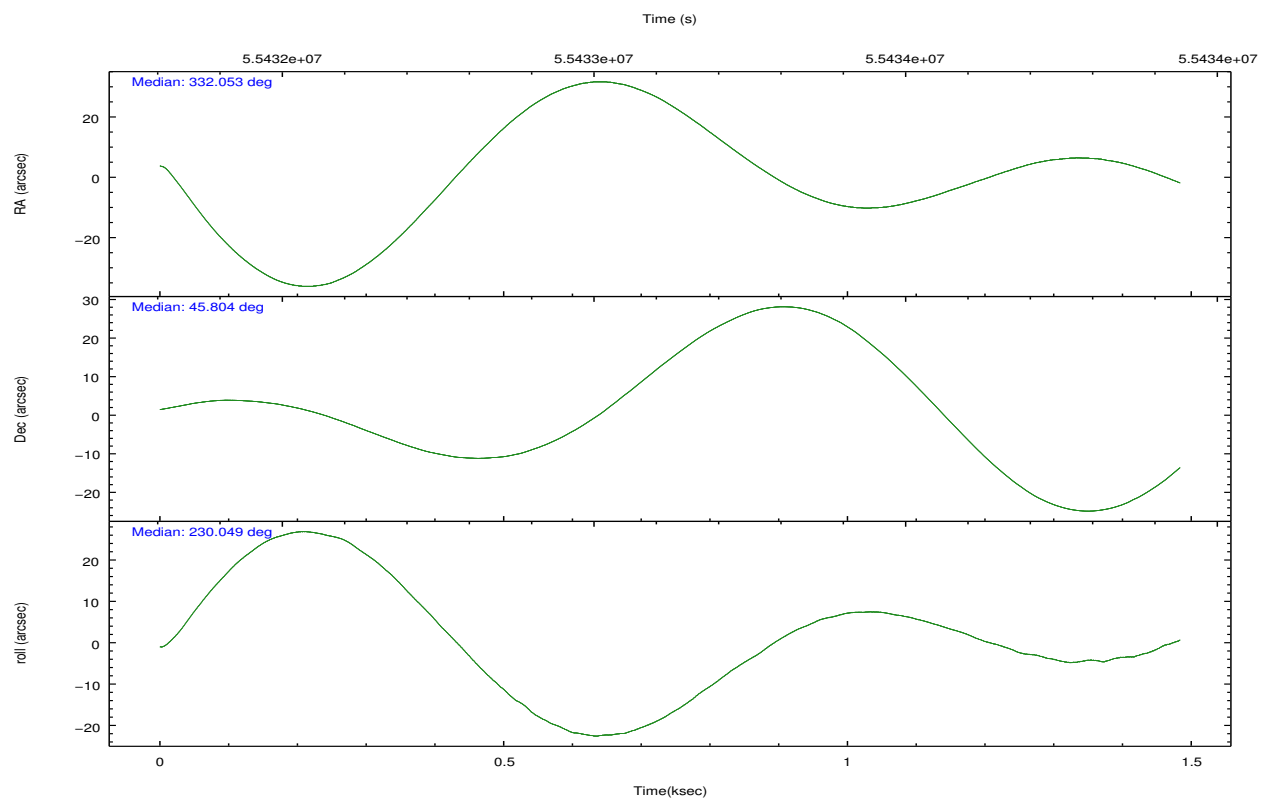
	<b>segment 0</b>
level 1 events	72570
rejected events	2518
rejected %	3%

## 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	332.060634	332.052928397853			
Pointing Dec	45.831320	45.80353816489942			
Pointing Roll	230.140808	230.0508677954315			
SIM focus pos (mm)	-0.040293	-0.2342646132009995			
SIM defocus (mm)	1	0.806028007457875			
SIM translation stage pos (mm)	126.985494	126.9854943052878			
SIM translation stage offset (mm)	0	-5.413686238853188e-06			
Observation start time	55432864.184000	55432197.546892			
Observation start date	1999-10-04T14:00:00	1999-10-04T13:49:57			
Observation end time	55433864.184000	55433997.446956			
Observation end date	1999-10-04T14:16:40	1999-10-04T14:19:57			

## 2.3 Aspect





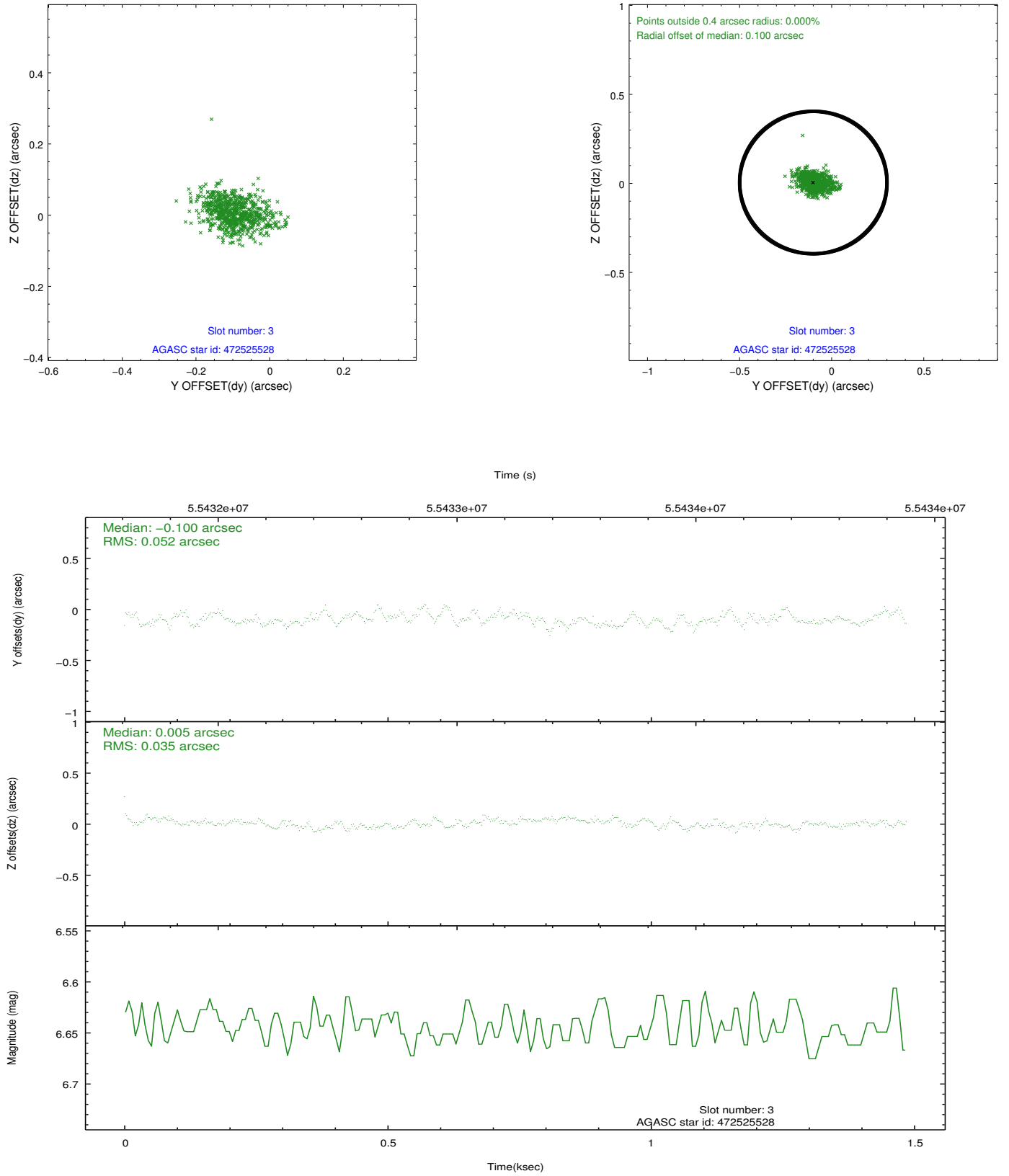
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.97	725	0.054	-0.014	0.007	0.014	0.000000	0.000000	-755.37	-1286.54
1	FID	HRC-I-3	7.05	725	0.053	-0.027	0.008	0.014	0.000000	0.000000	-1184.99	1016.41
2	FID	HRC-I-4	6.99	725	0.007	-0.049	0.007	0.012	0.000000	0.000000	1285.85	1017.23
3	GUIDE	472525528	6.64	725	-0.100	0.005	0.065	0.110	331.551102	45.248694	2430.93	350.86
4	GUIDE	472535576	7.86	725	-0.045	0.097	0.058	0.089	331.438373	46.291802	-285.26	-2253.51
5	GUIDE	472523760	8.24	725	0.073	-0.027	0.047	0.078	331.645363	45.403260	1849.68	177.55
6	GUIDE	472665256	9.01	724	0.027	-0.089	0.066	0.109	332.808125	46.195041	-2206.60	585.60
7	GUIDE	472659832	9.47	724	0.034	0.009	0.092	0.146	332.780399	46.098139	-1901.68	759.64

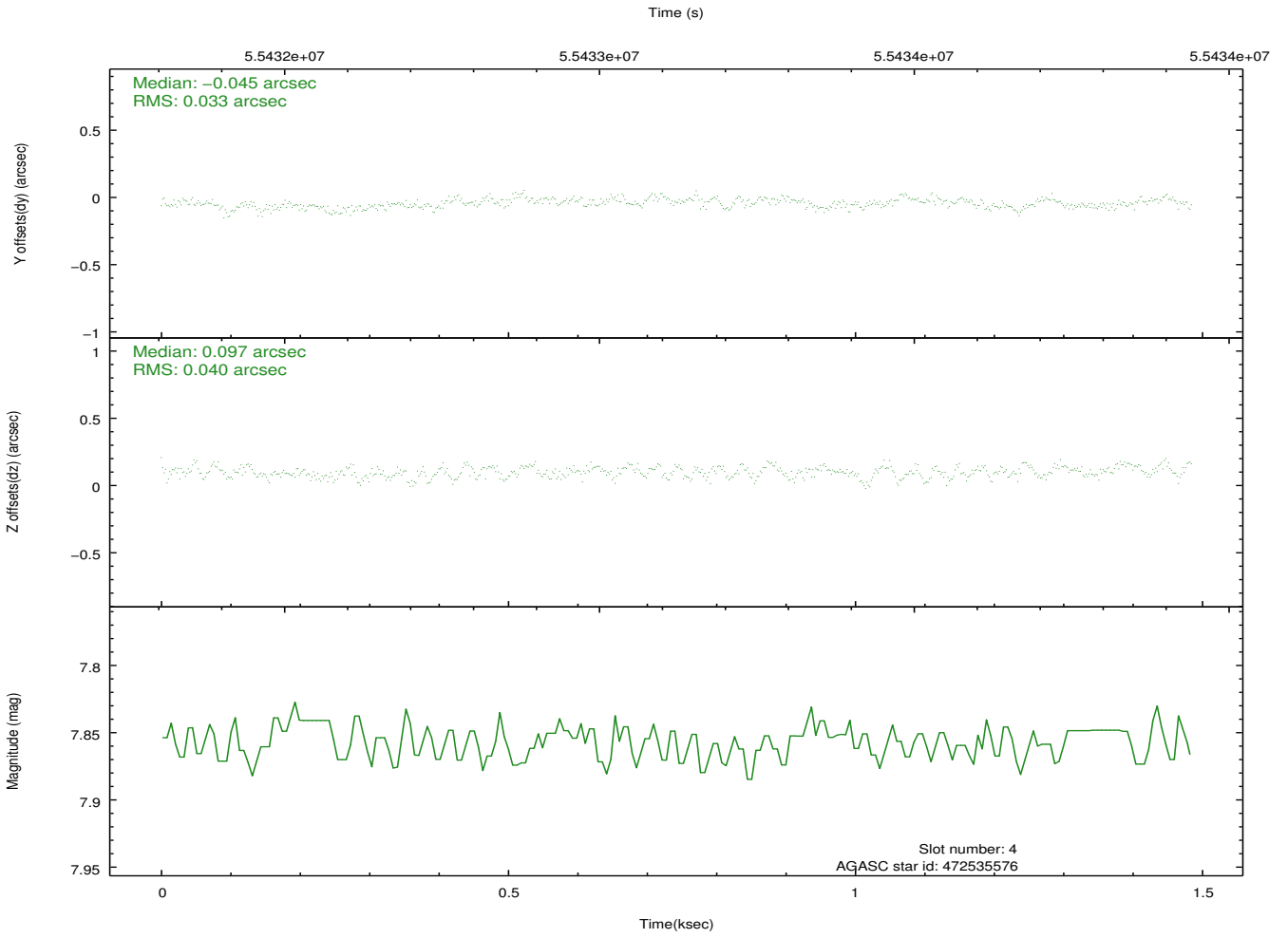
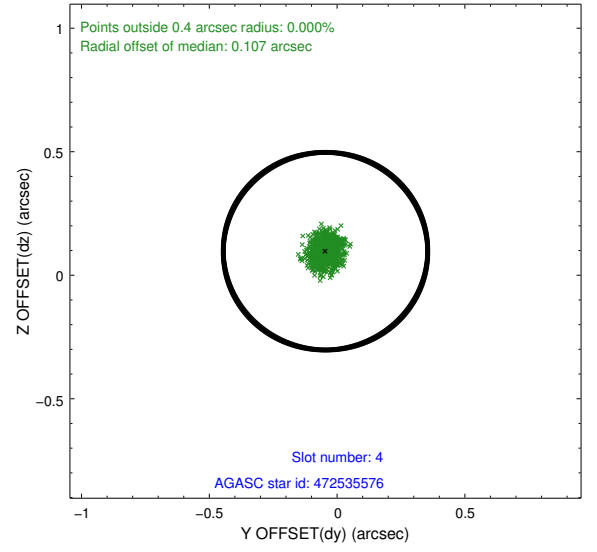
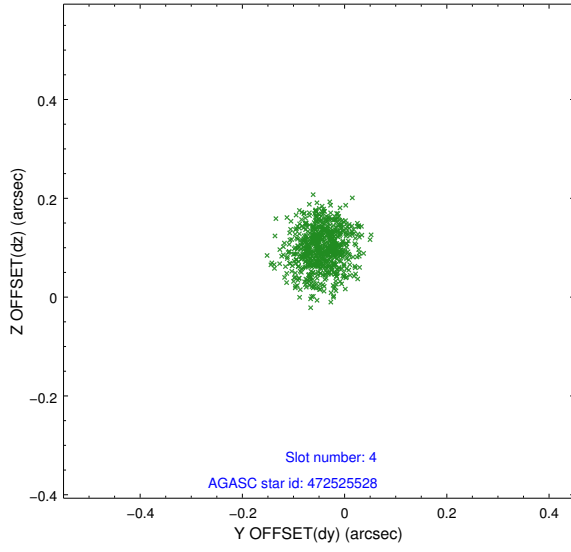


## 2.4 Star Slots

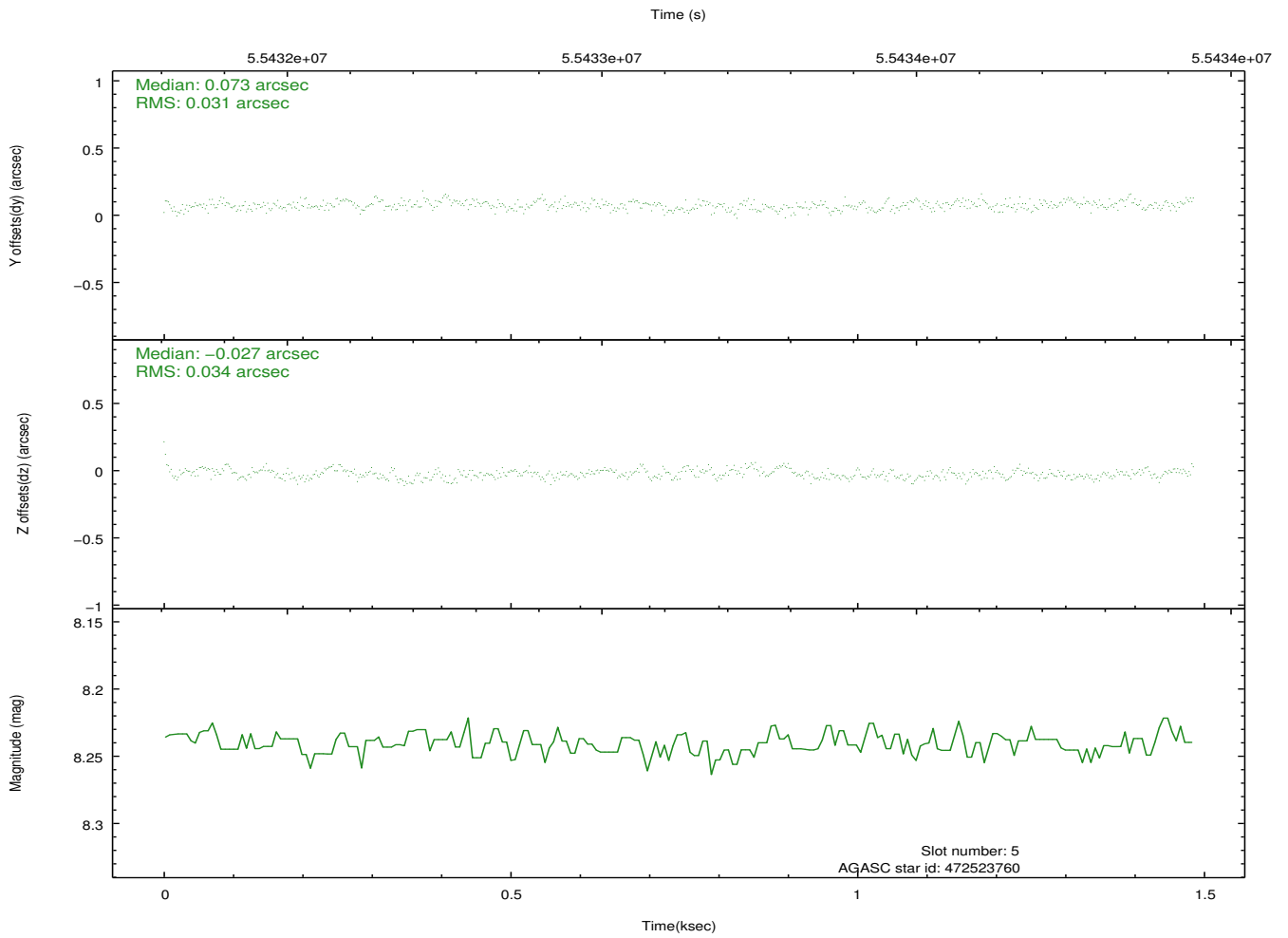
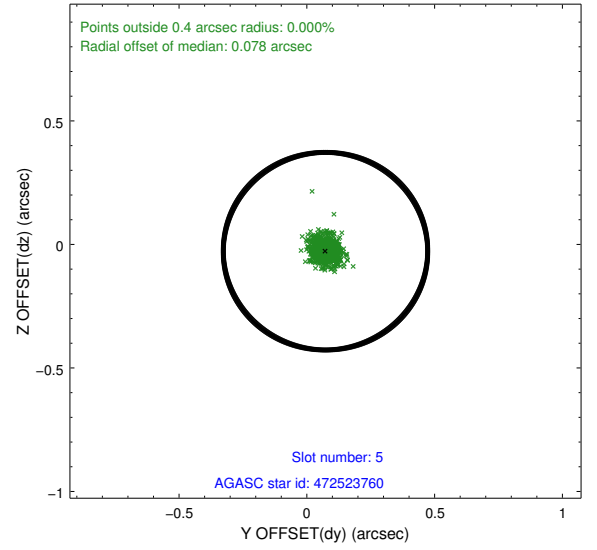
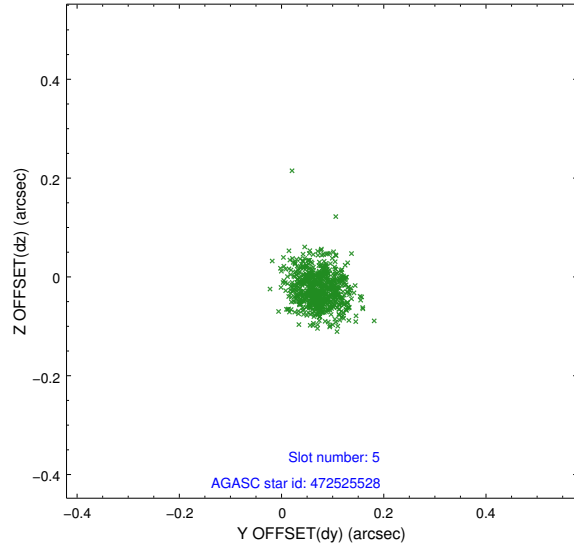
### 2.4.1 Slot 3



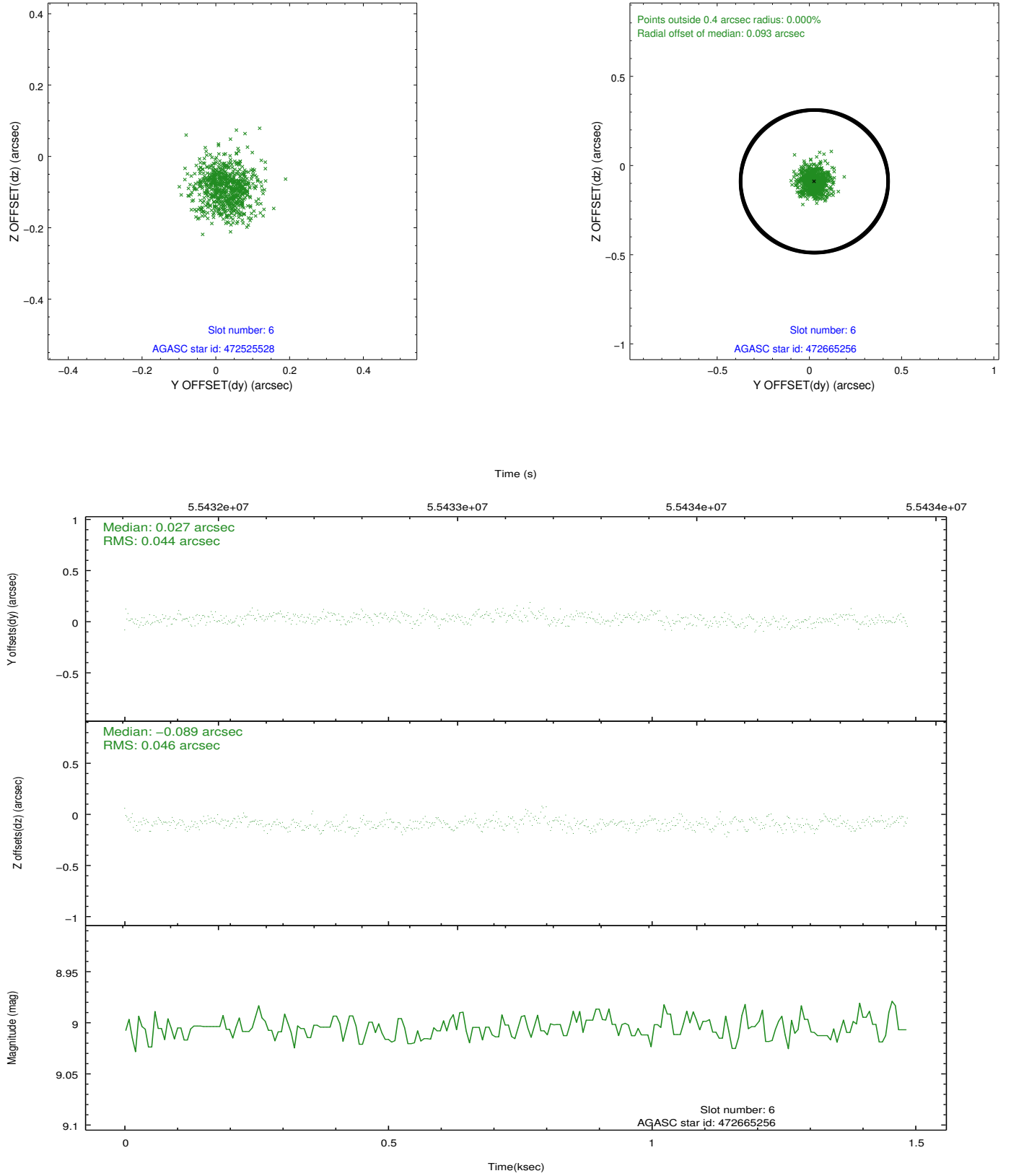
## 2.4.2 Slot 4



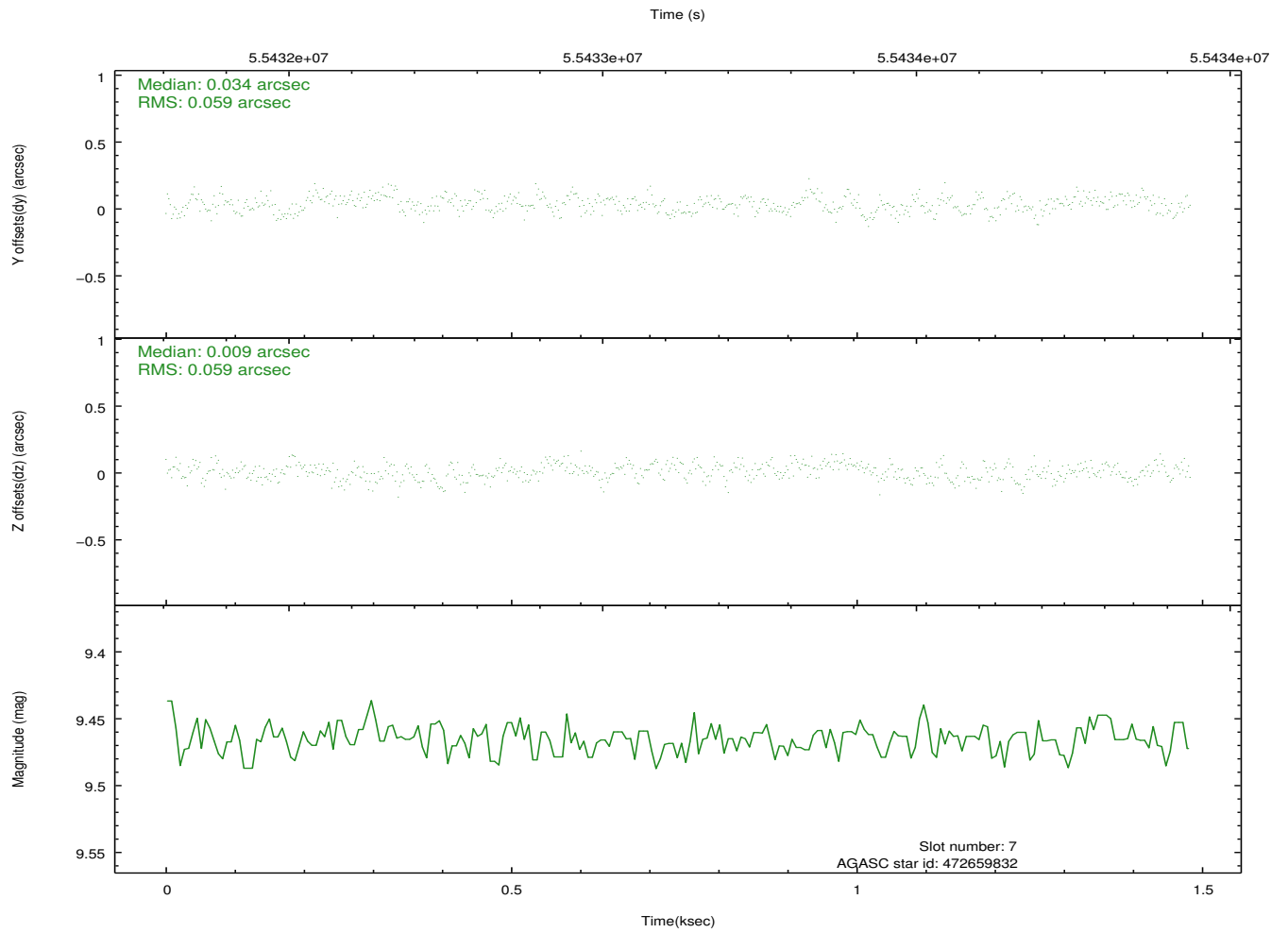
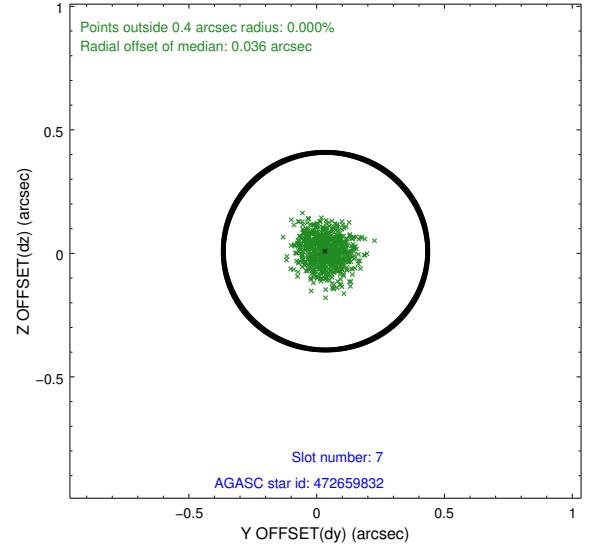
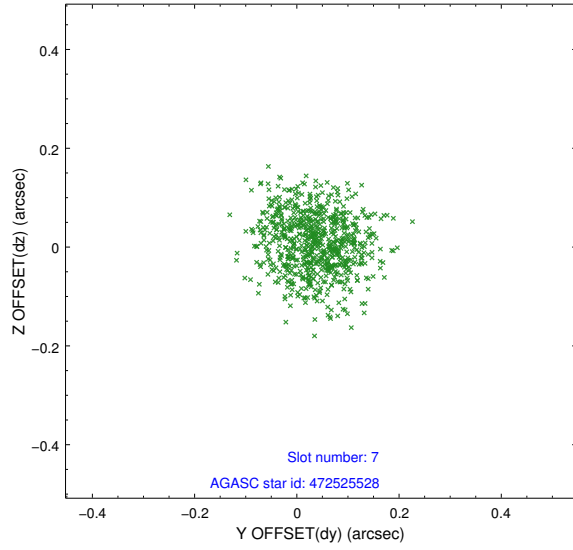
### 2.4.3 Slot 5



## 2.4.4 Slot 6

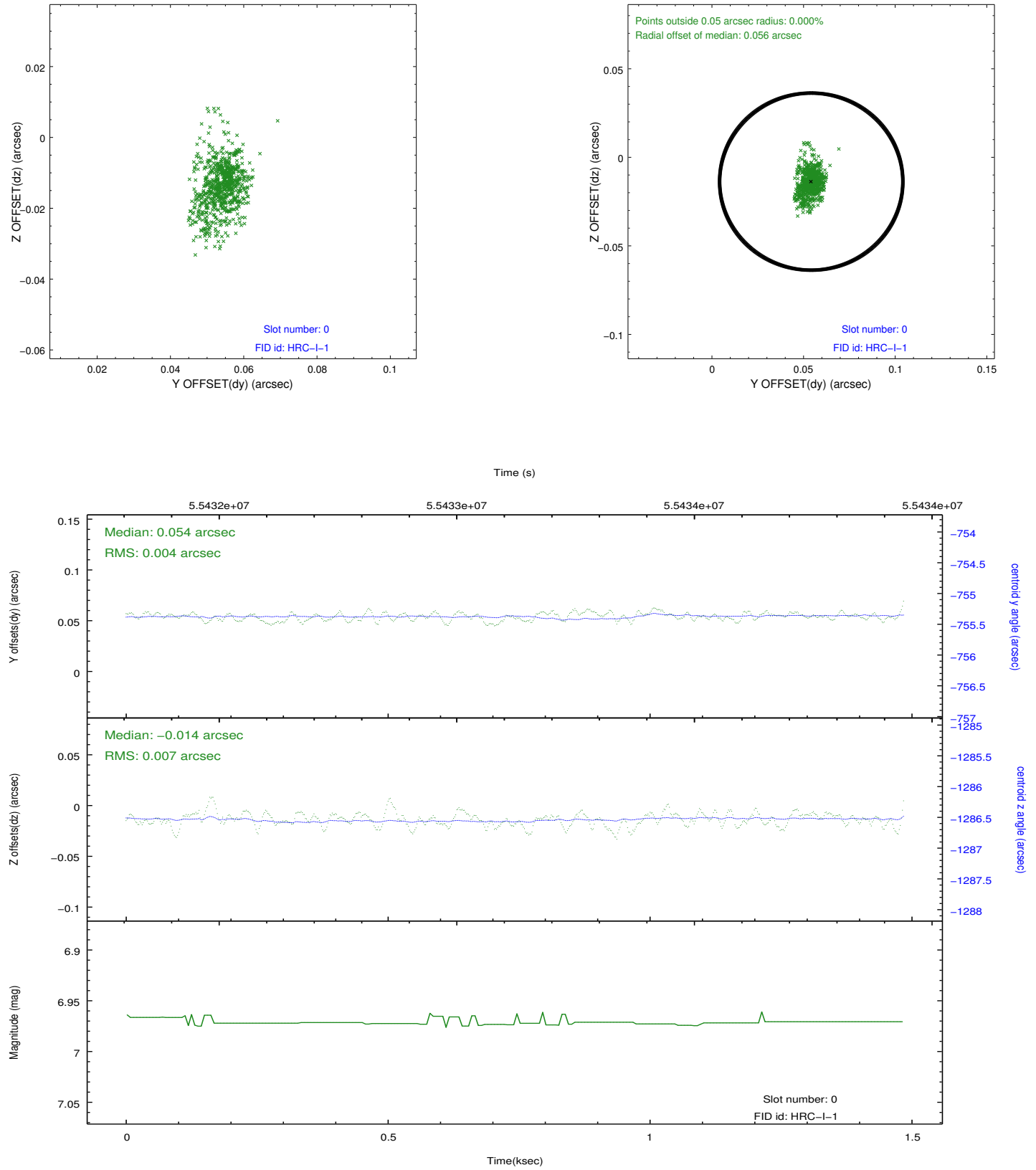


## 2.4.5 Slot 7

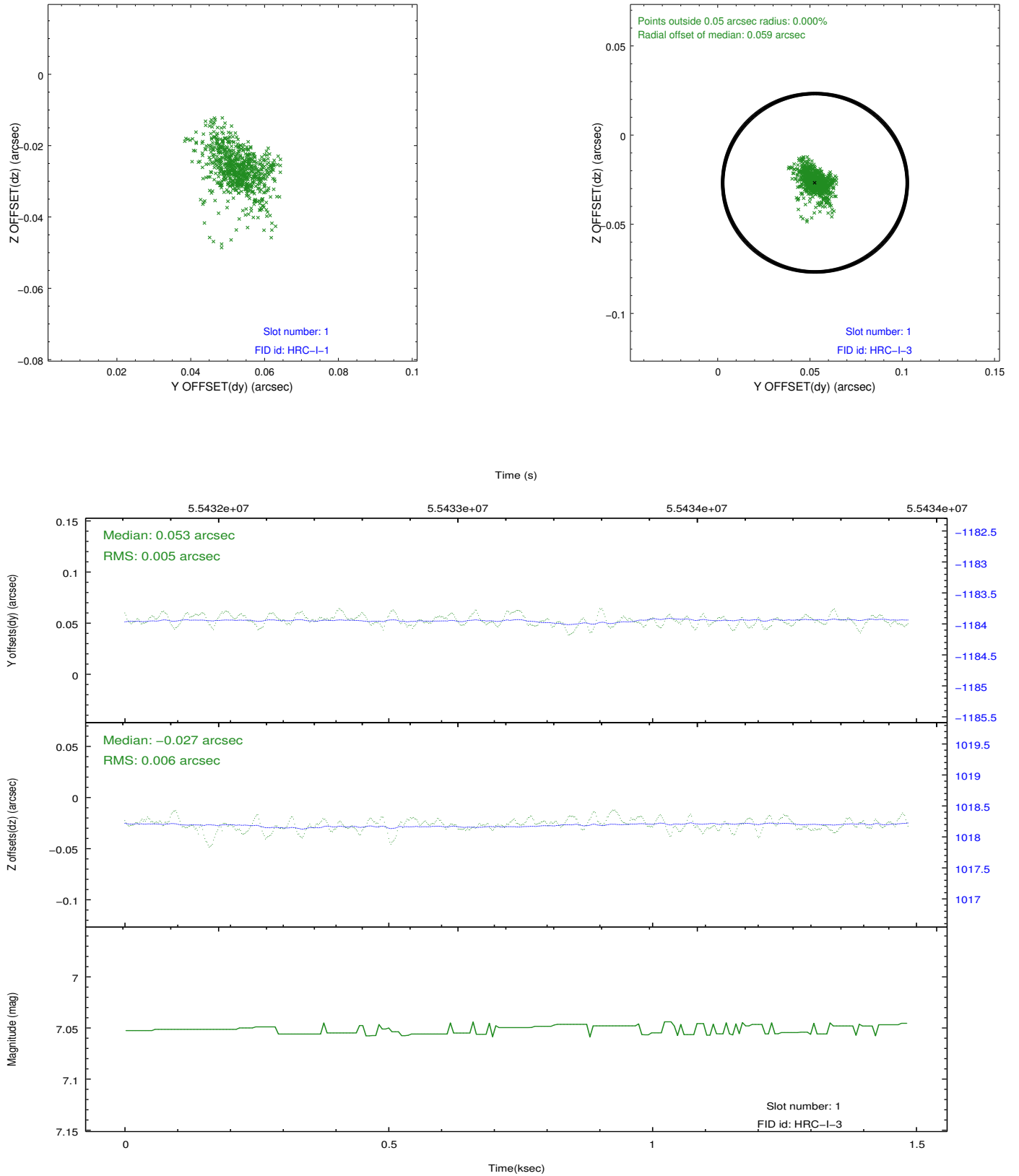


## 2.5 FID Slots

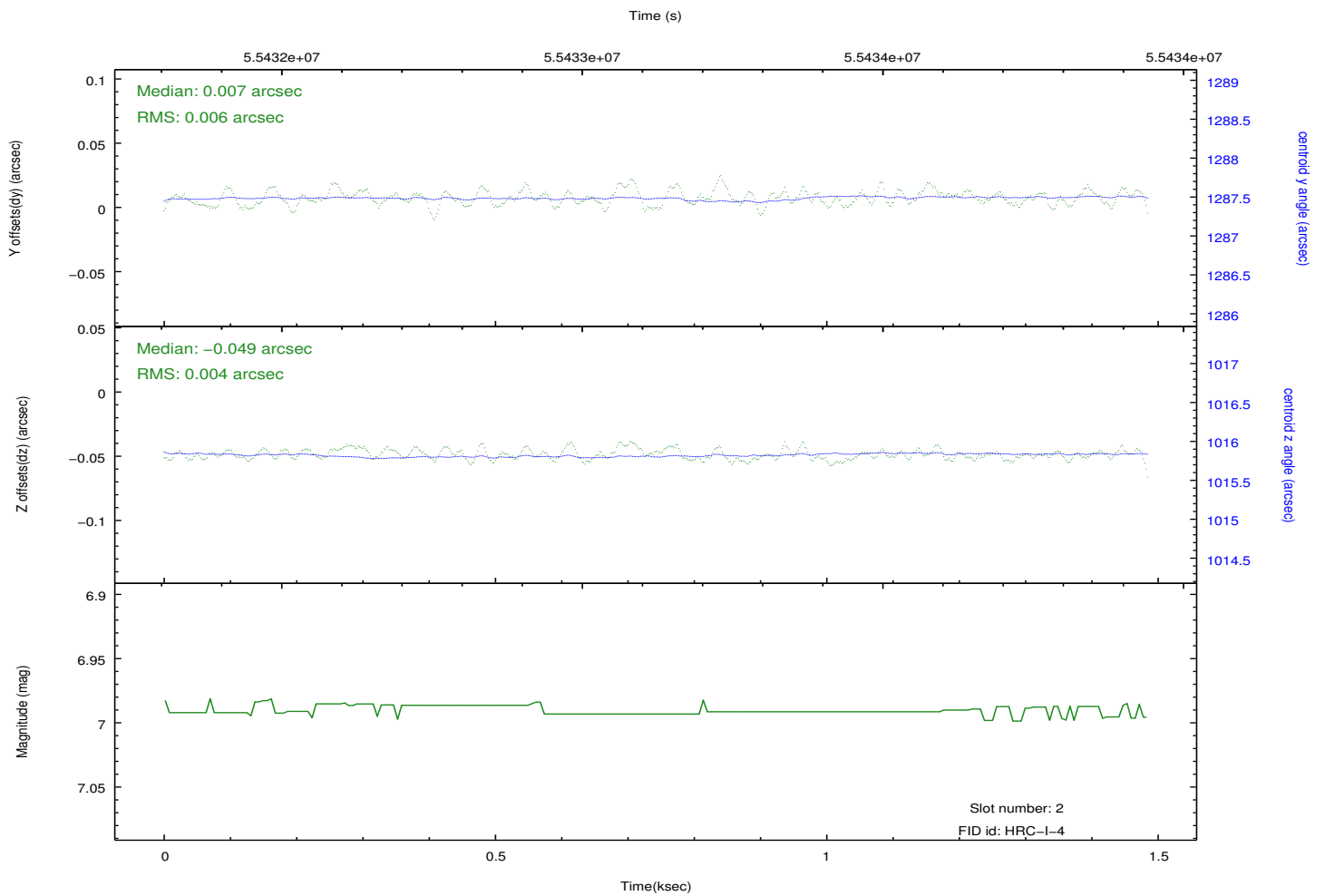
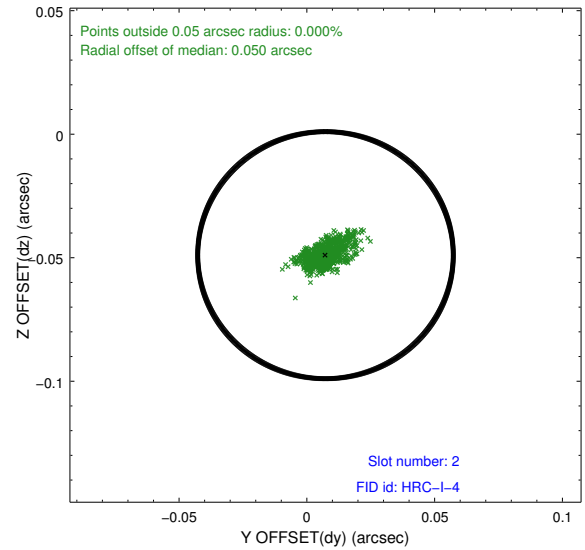
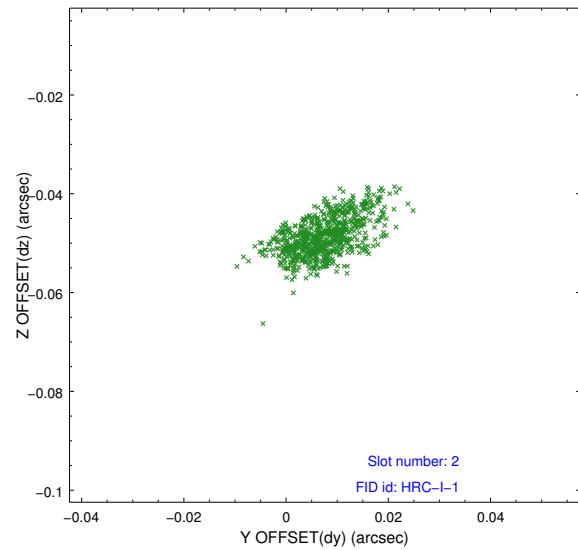
### 2.5.1 Slot 0



## 2.5.2 Slot 1

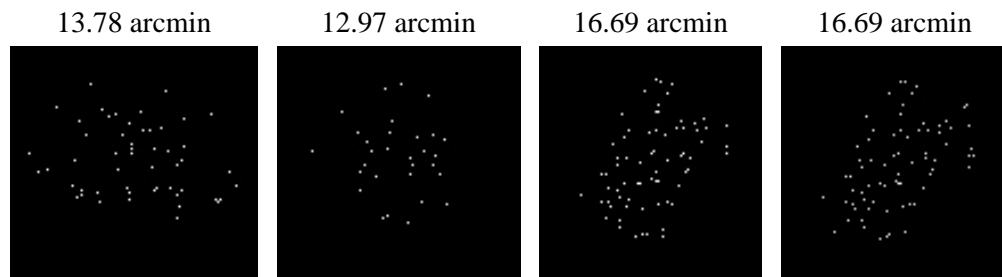


## 2.5.3 Slot 2





### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2009.11.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.275

## A.2 Comments

The ObsID series 1319-1382 were intended to access the HRC-I gain variation across the detector as a function of MCP HV. They were performed as triples (3 different HV settings at each Y-/Z-offset). The best HRC-I focus was not determined at the time the observations were performed (the data to determine that were being analyzed during this series).