

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9657 - L2 Version 3  
Chandra X-Ray Center

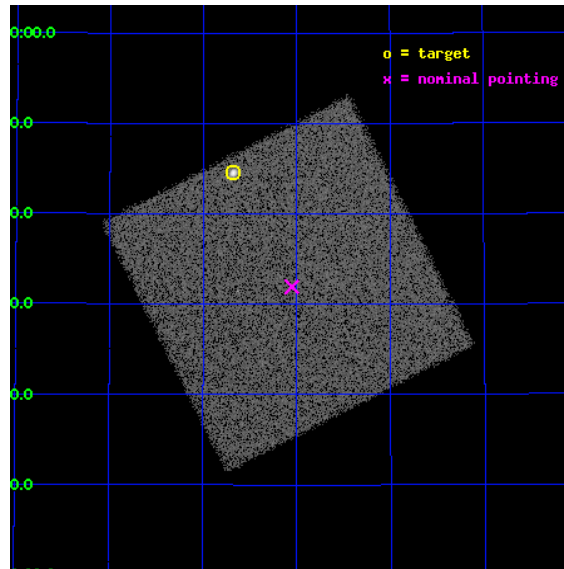
L2 Processing Date : Aug 12 2012

## 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>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

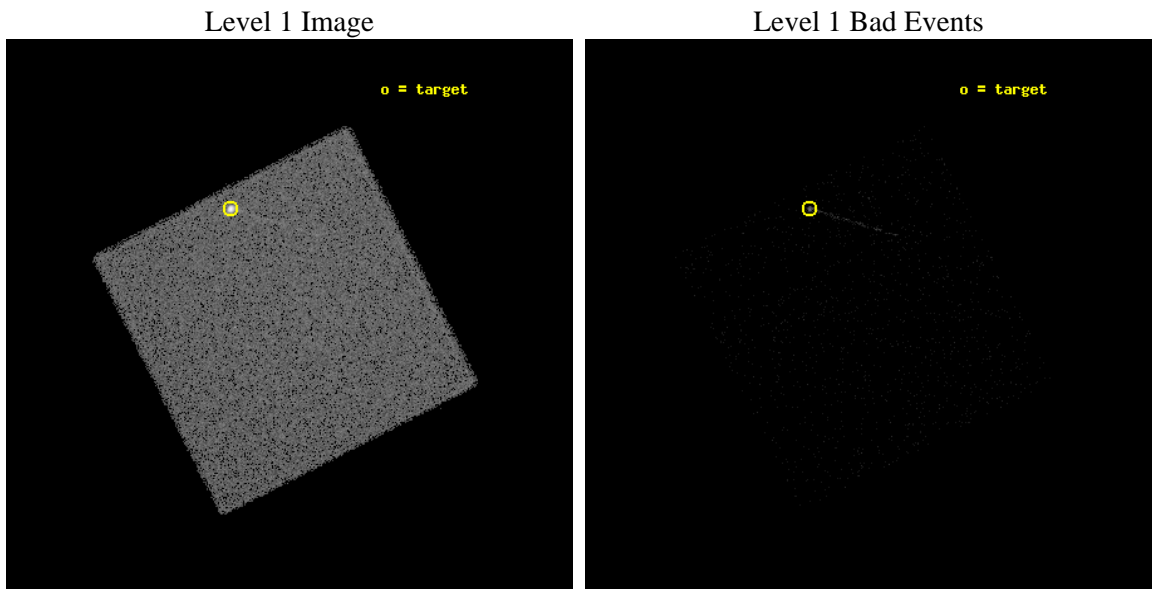
seq_num	290780	Sequence number
obs_id	9657	Observation id
title	AO9 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.01306001637	Nominal RA [deg]
dec_nom	45.532267942098	Nominal Dec [deg]
roll_nom	198.07083121169	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1362.4813168049	[s]
livetime	1347.6066036022	Ontime multiplied by DTCOR
l2events	92411	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	1180.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1362.4813168049	[s]
caldbver	4.5.1.1	&#160	l1events	164491	Number of level 1 events
date	2012-08-12T19:39:34	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

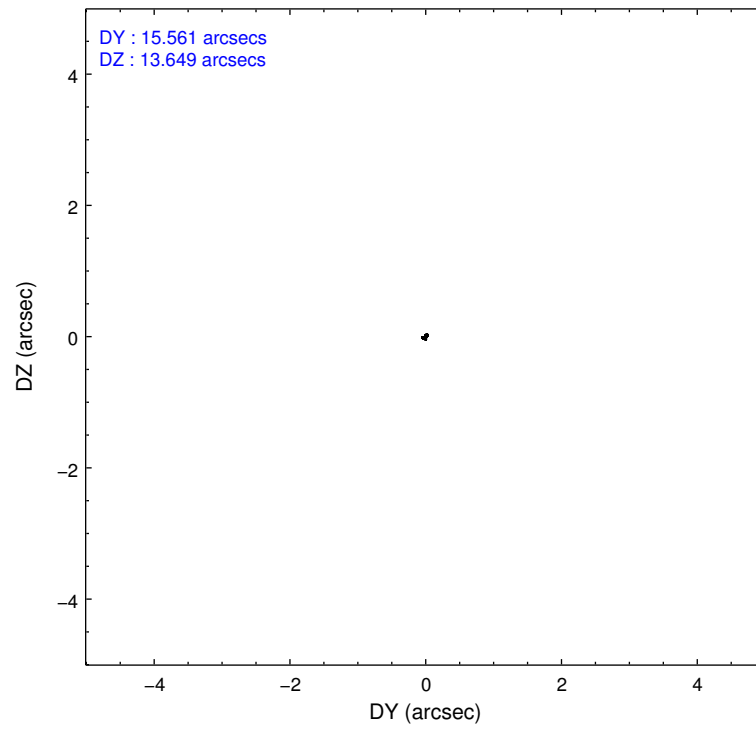
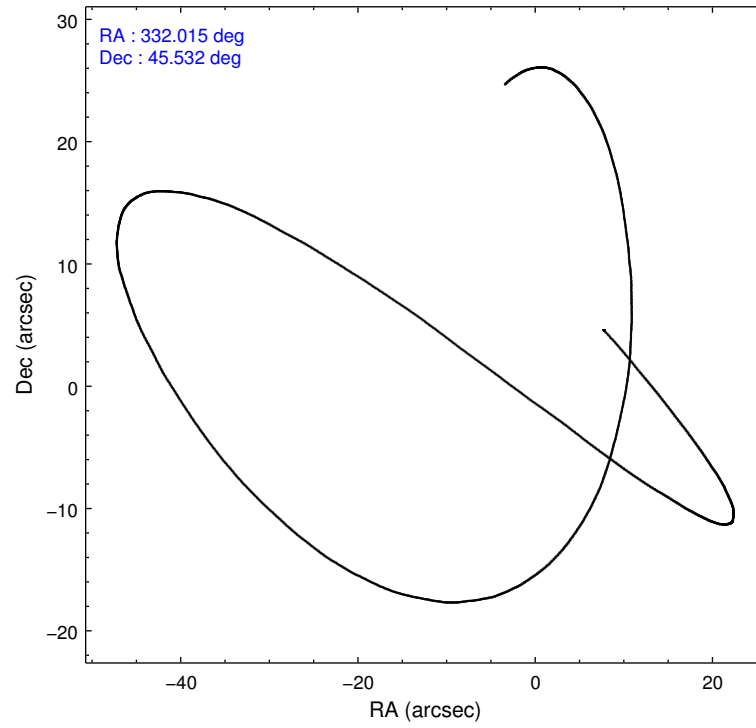
	<b>segment 0</b>
level 1 events	164491
rejected events	31246
rejected %	18%

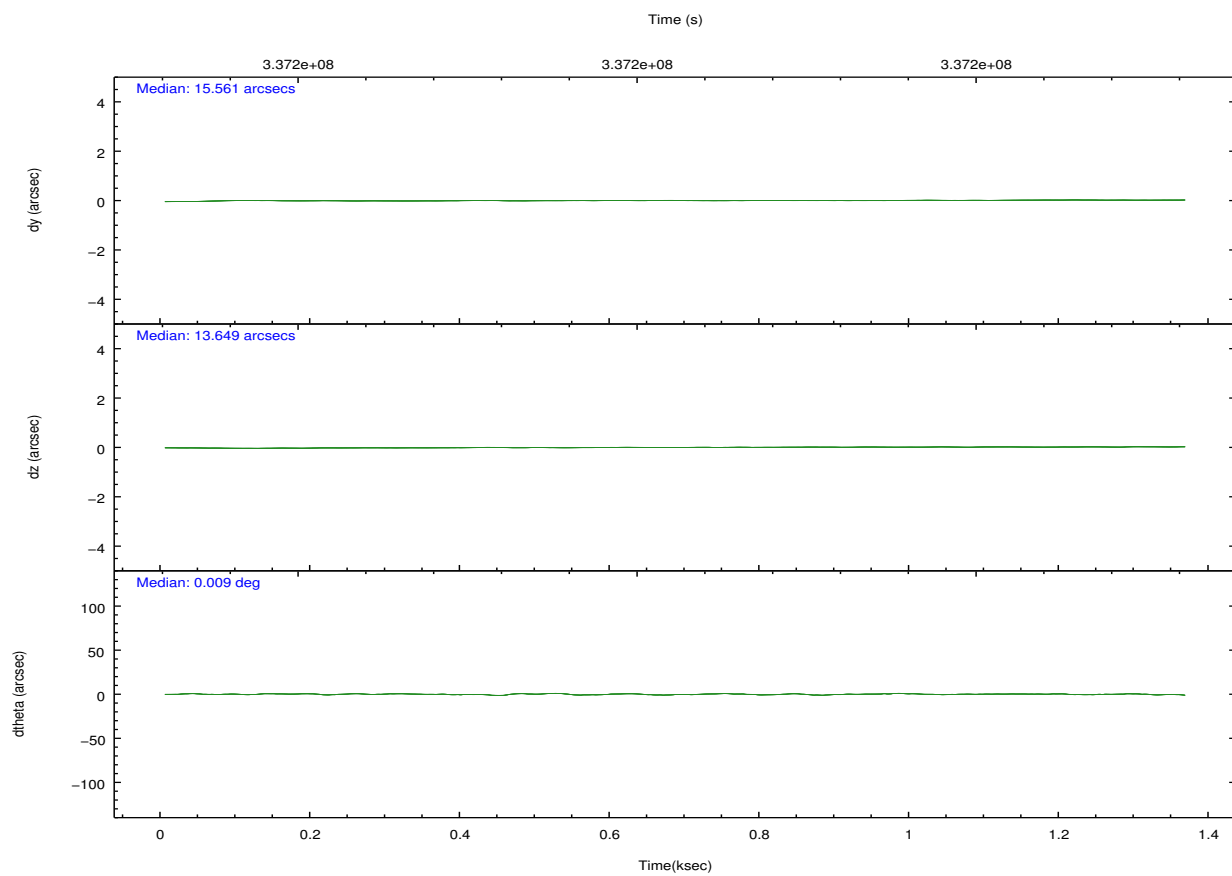
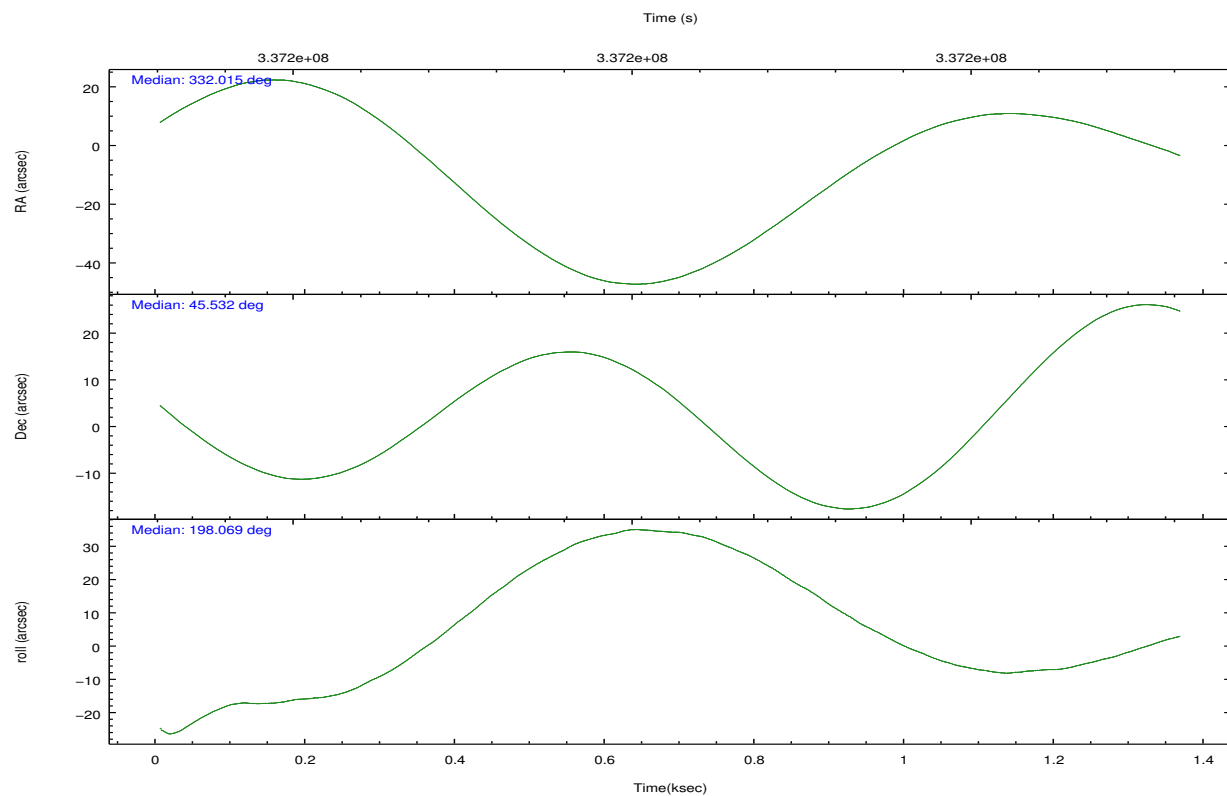
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.036788	332.0130600163687
[deg] Pointing Dec	45.553002	45.53226794209809
[deg] Pointing Roll	198.149400	198.0708312116914
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9829799899862
[mm] SIM translation stage offset	0	0.002508901615314585
[s] Observation start time (MET)	337198557.184000	337198180.8441
Observation start date	2008-09-07T18:14:52	2008-09-07T18:09:40
[s] Observation end time (MET)	337199737.184000	337199871.06918
Observation end date	2008-09-07T18:34:32	2008-09-07T18:37:51

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

## 2.3 Aspect





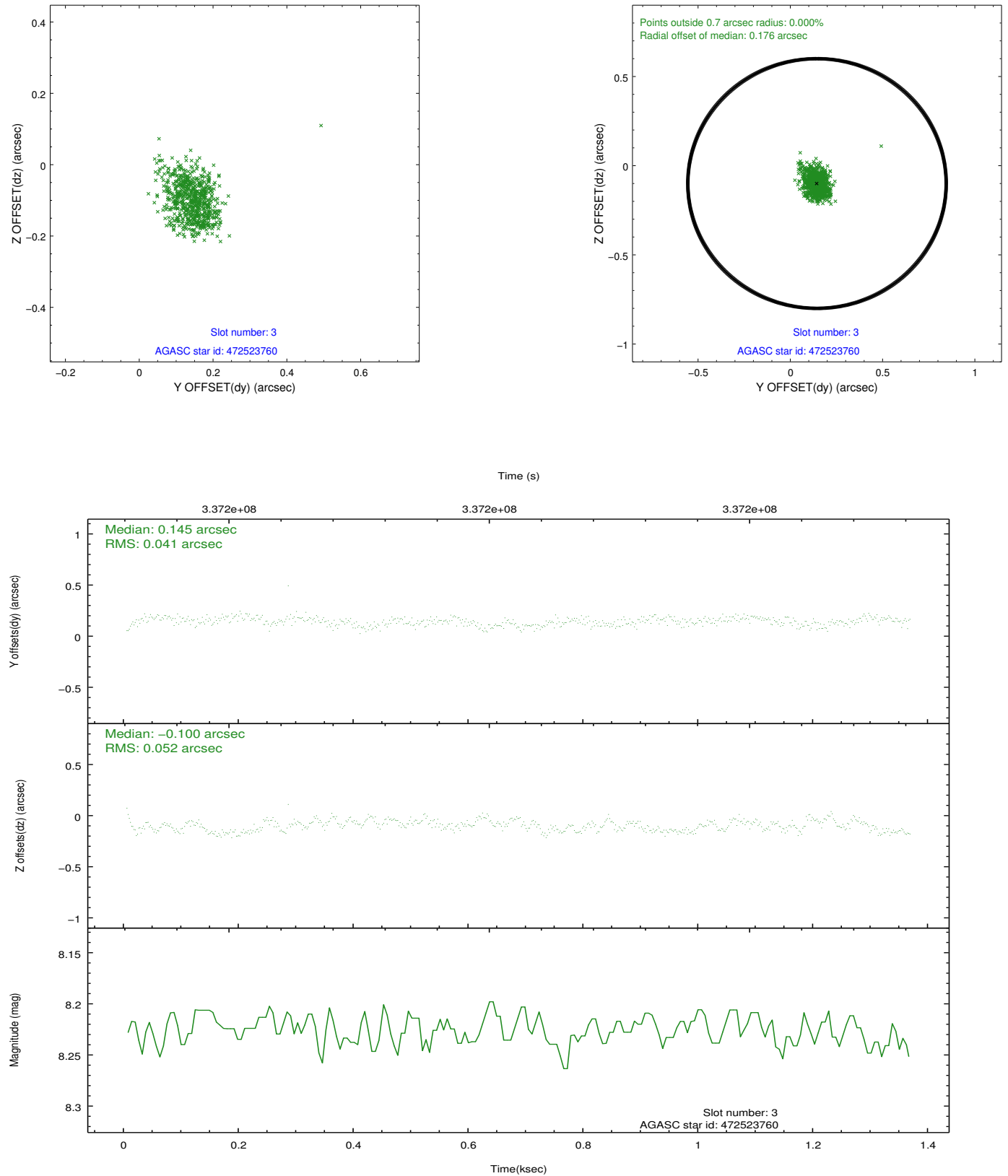
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	7.00	333	-0.067	0.012	0.007	0.012	0.000000	0.000000	-771.46	-1301.67
1	FID	HRC-I-2	7.03	333	0.228	-0.131	0.006	0.011	0.000000	0.000000	839.15	-1307.31
2	FID	HRC-I-3	7.08	333	-0.041	0.029	0.006	0.012	0.000000	0.000000	-1197.38	998.99
3	GUIDE	472523760	8.23	665	0.145	-0.100	0.069	0.107	331.645363	45.403260	1111.39	200.39
4	GUIDE	472525528	6.62	666	-0.160	-0.061	0.073	0.112	331.551102	45.248694	1515.16	652.99
5	GUIDE	472527720	6.98	666	-0.146	0.016	0.066	0.108	331.460205	45.112509	1890.29	1045.33
6	GUIDE	472651904	6.16	666	0.009	0.056	0.062	0.104	332.170077	45.742257	-523.55	-543.59
7	GUIDE	472655152	9.43	663	0.150	0.095	0.114	0.186	332.504239	45.862991	-1459.15	-700.58

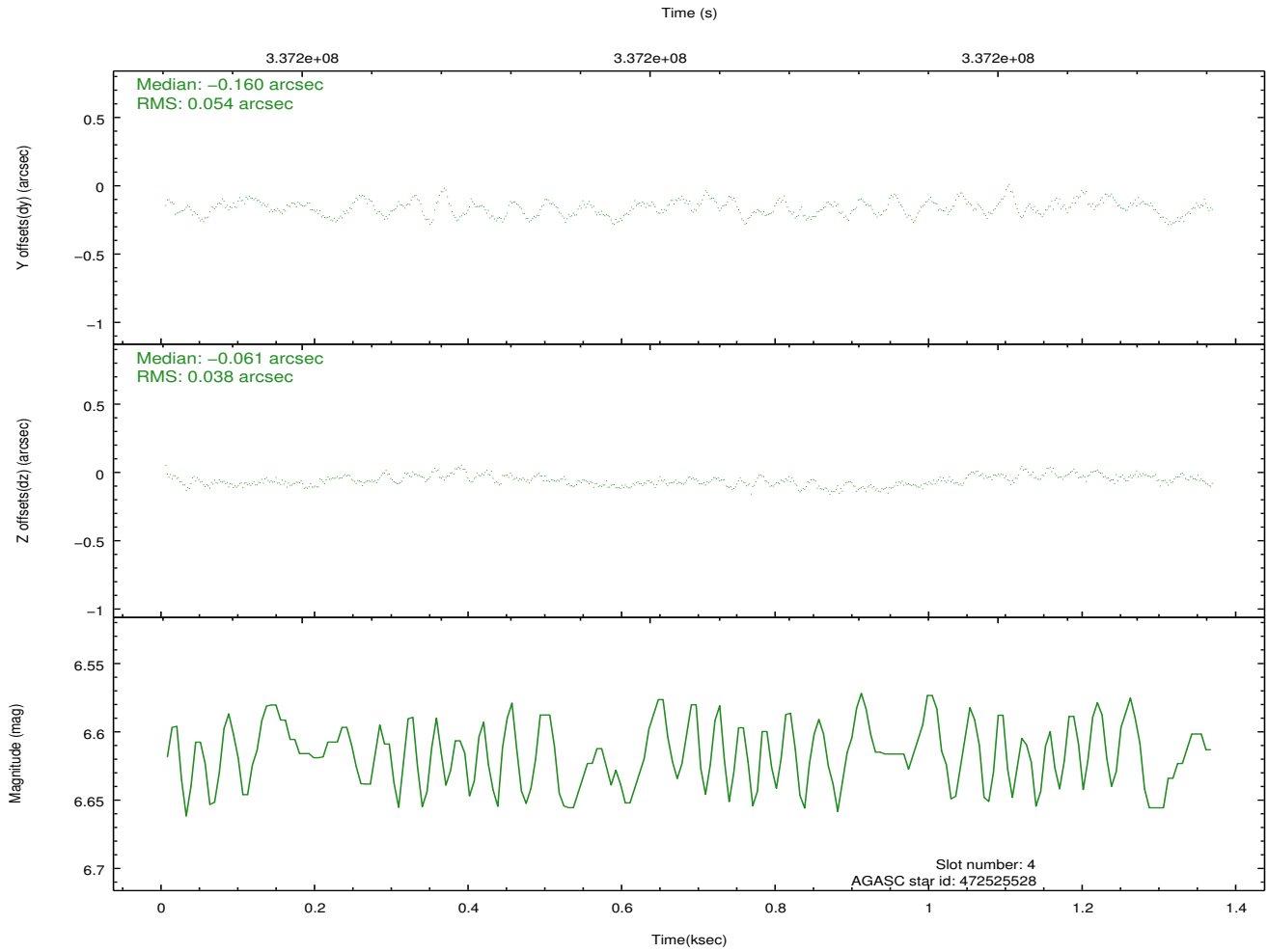
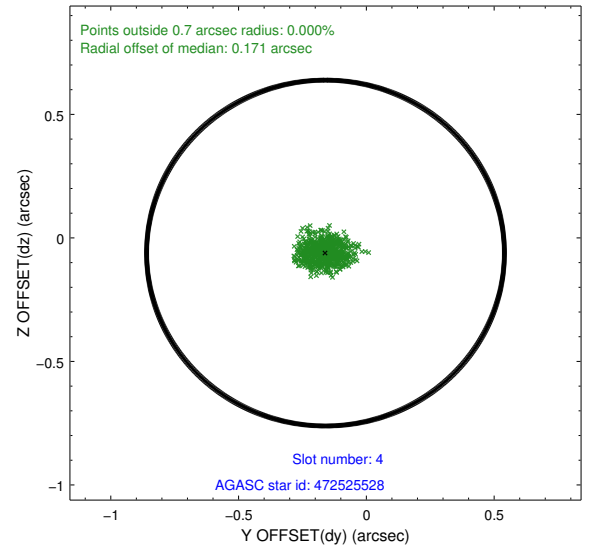
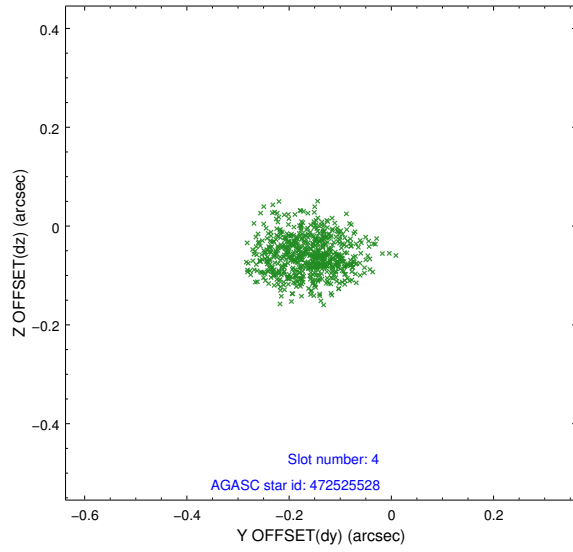


## 2.4 Star Slots

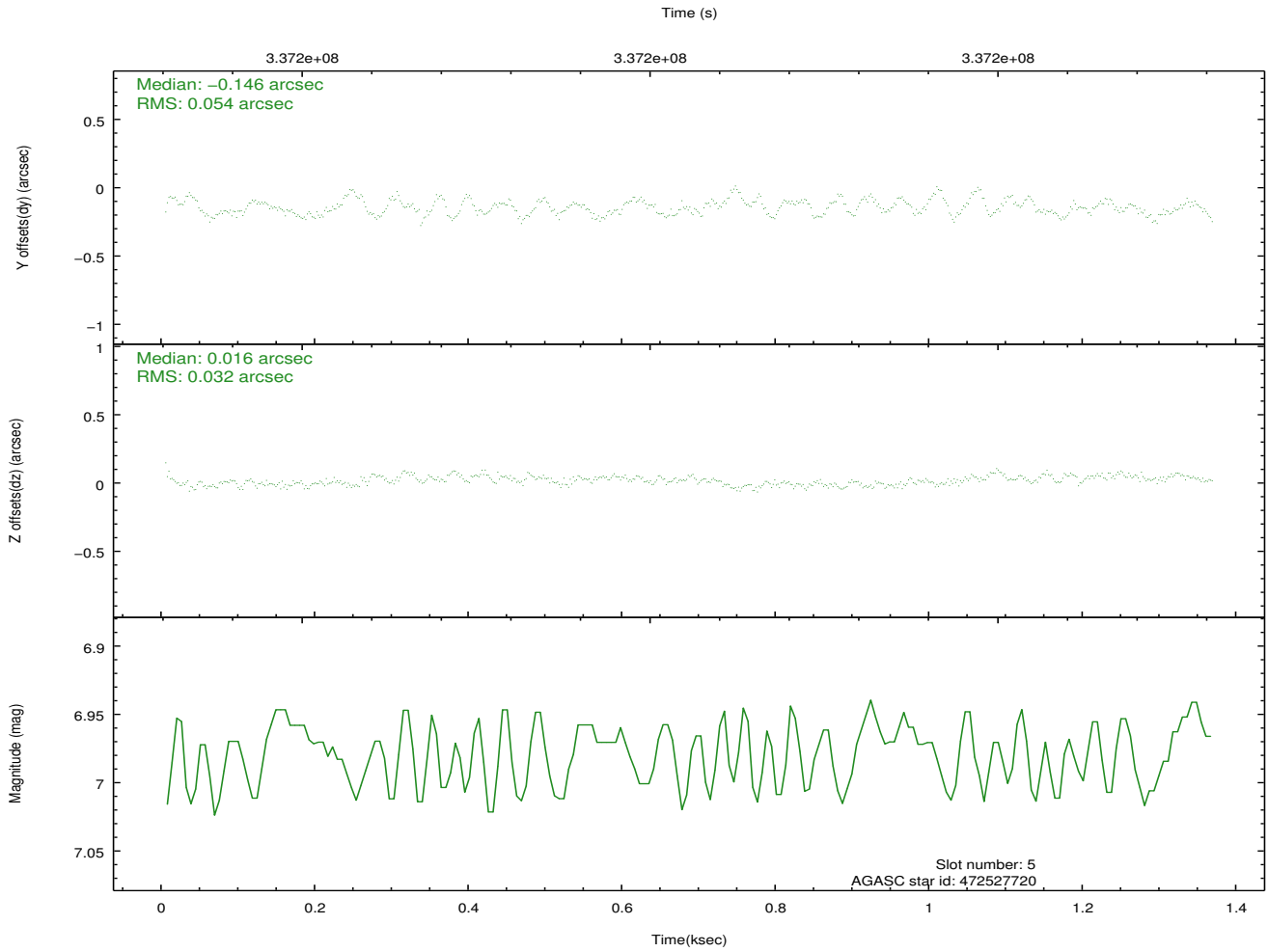
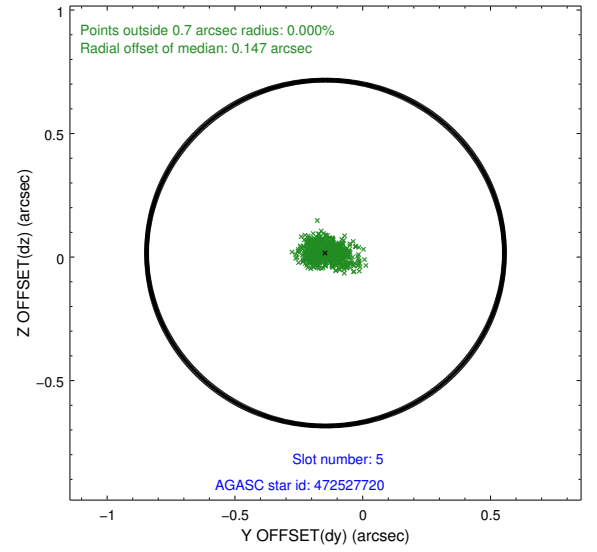
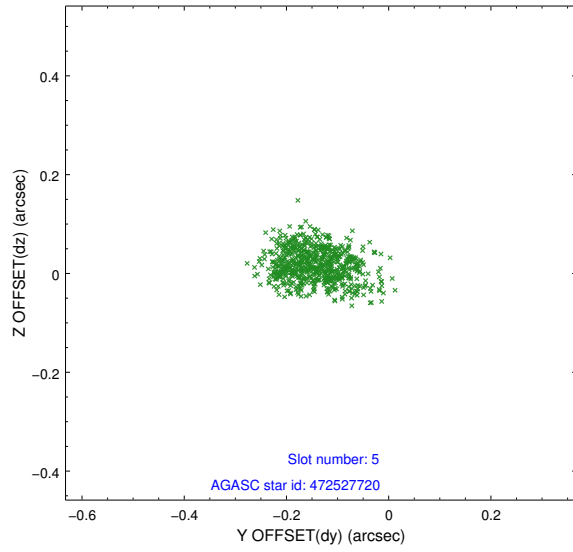
### 2.4.1 Slot 3



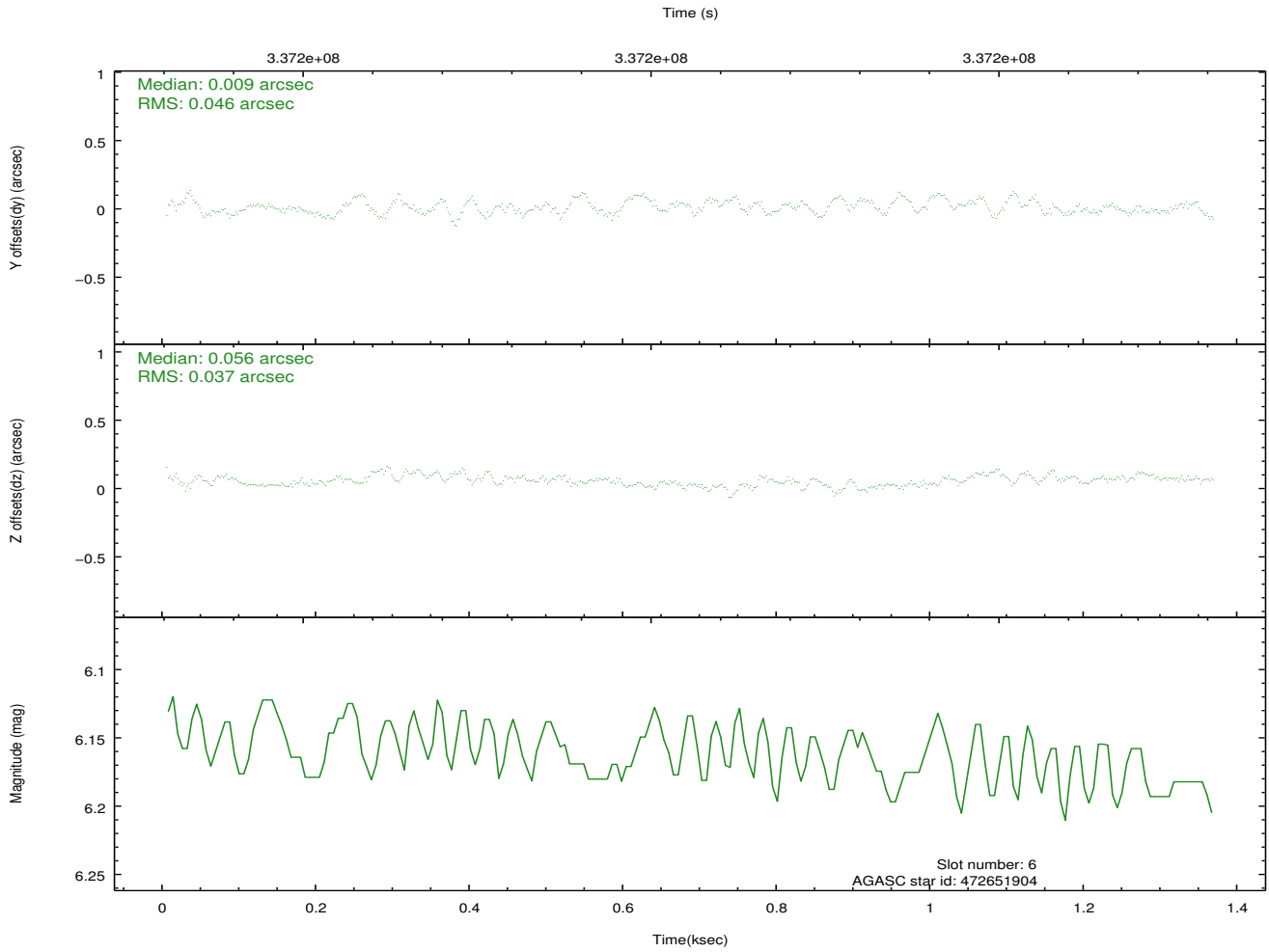
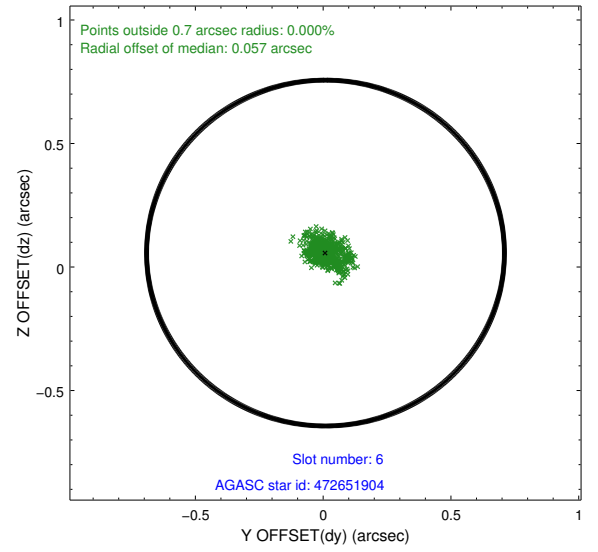
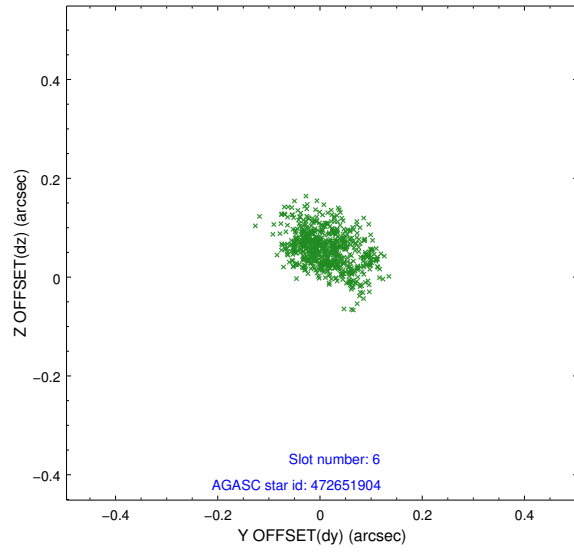
## 2.4.2 Slot 4



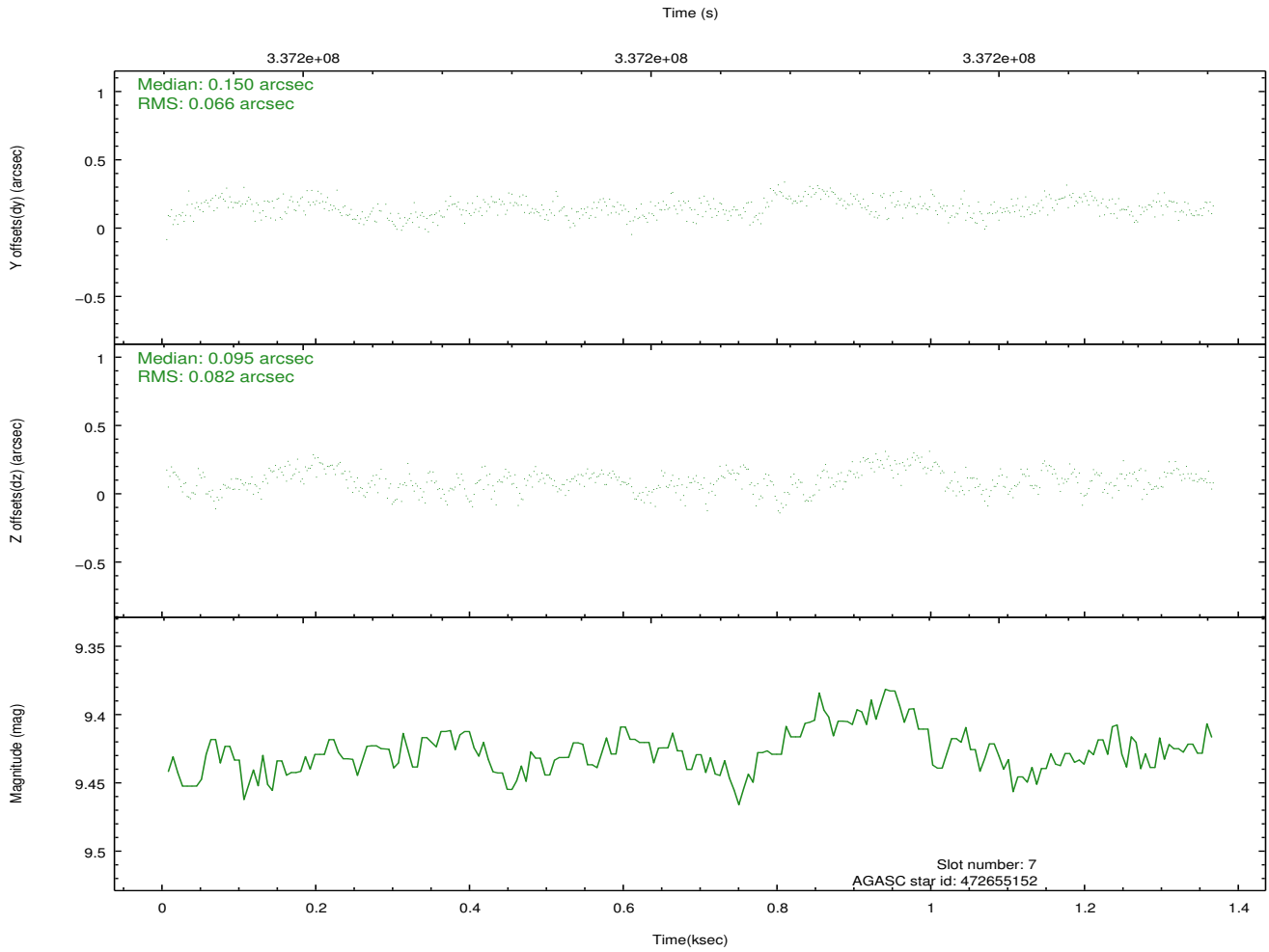
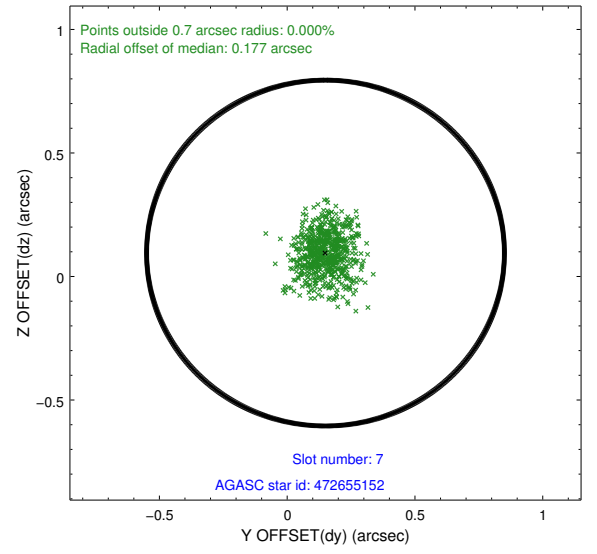
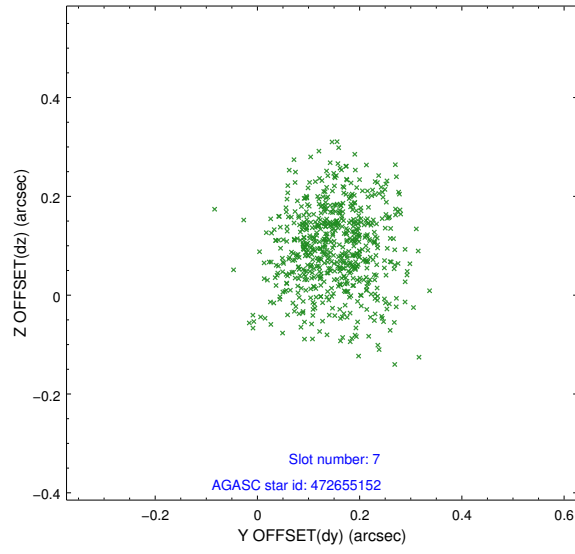
### 2.4.3 Slot 5



## 2.4.4 Slot 6

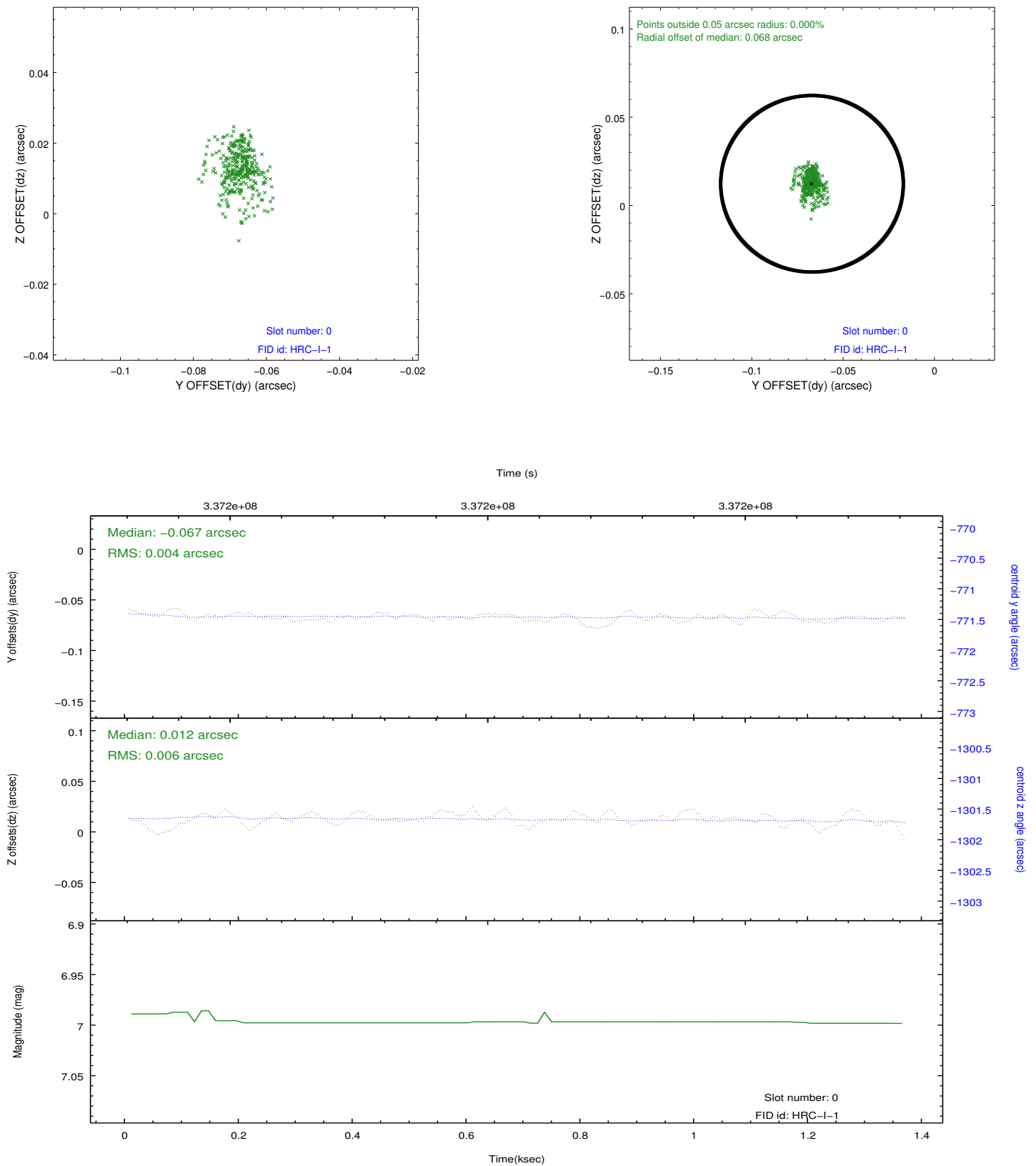


## 2.4.5 Slot 7

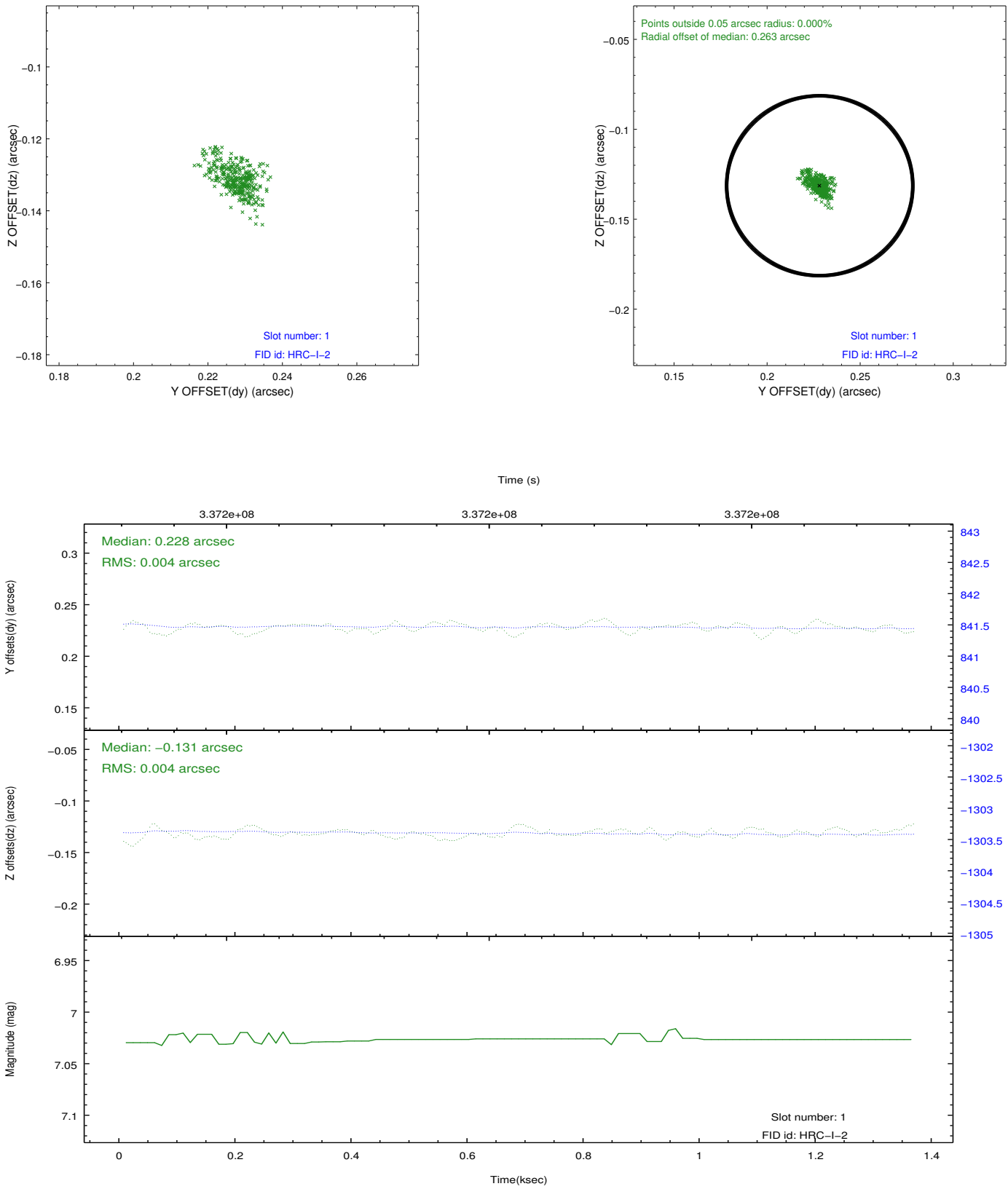


## 2.5 FID Slots

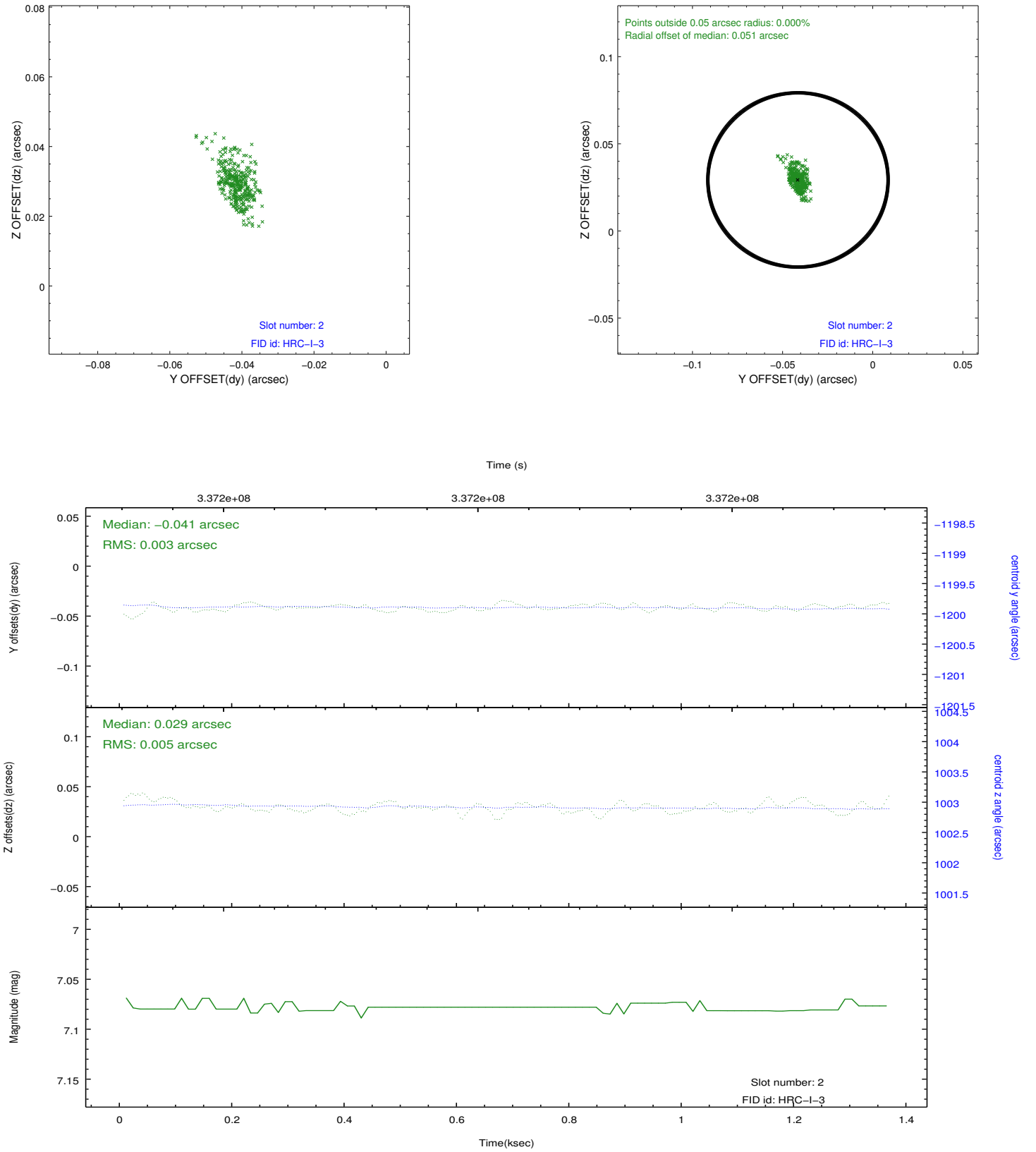
### 2.5.1 Slot 0



2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.08.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.36248131

### A.2 Comments