

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9668 - L2 Version 3  
Chandra X-Ray Center

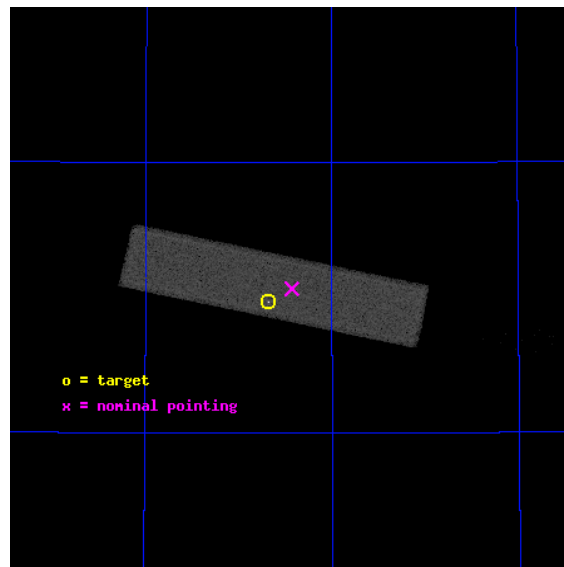
L2 Processing Date : Aug 12 2012

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# 1 Front

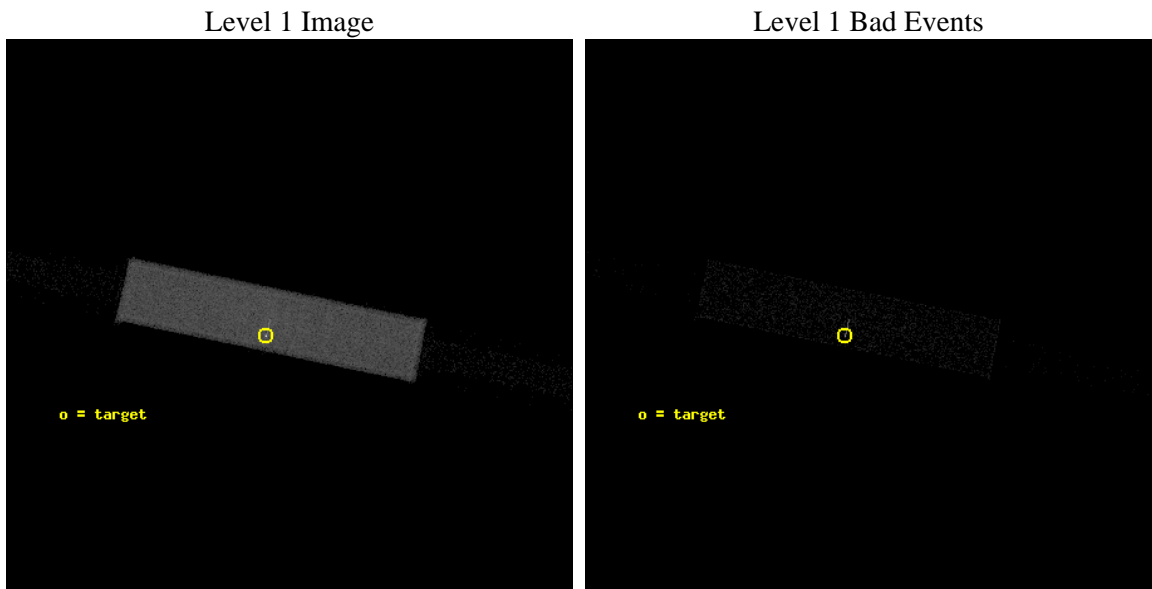
seq_num	290791	Sequence number
obs_id	9668	Observation id
title	AO9 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.10732345094	Nominal RA [deg]
dec_nom	45.766841812841	Nominal Dec [deg]
roll_nom	191.60961679791	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1333.5250654817	[s]
livetime	1321.6406673629	Ontime multiplied by DTCOR
l2events	85211	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	1333.5250654817	[s]
caldsver	4.5.1.1	&#160	l1events	130380	Number of level 1 events
date	2012-08-12T17:40:01	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

Level 1 Events

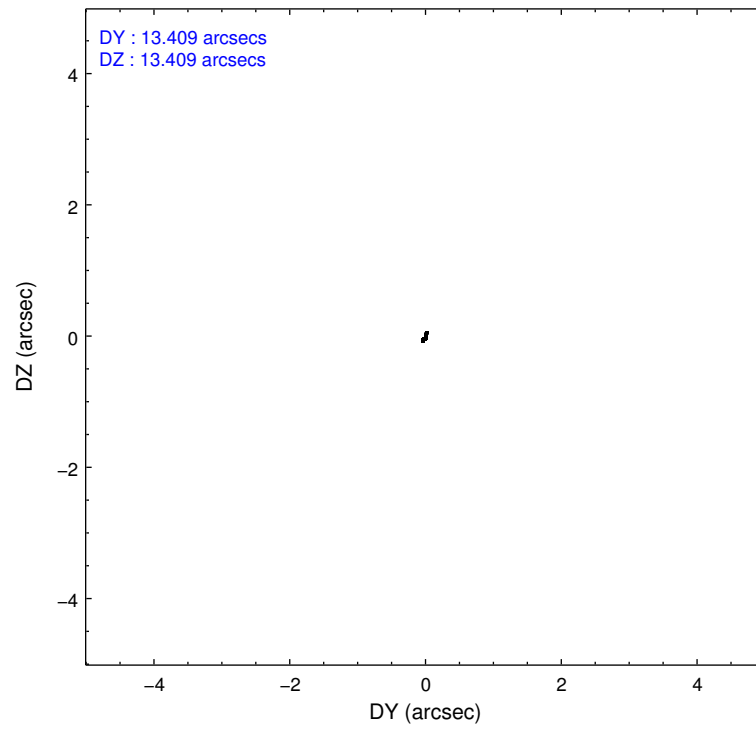
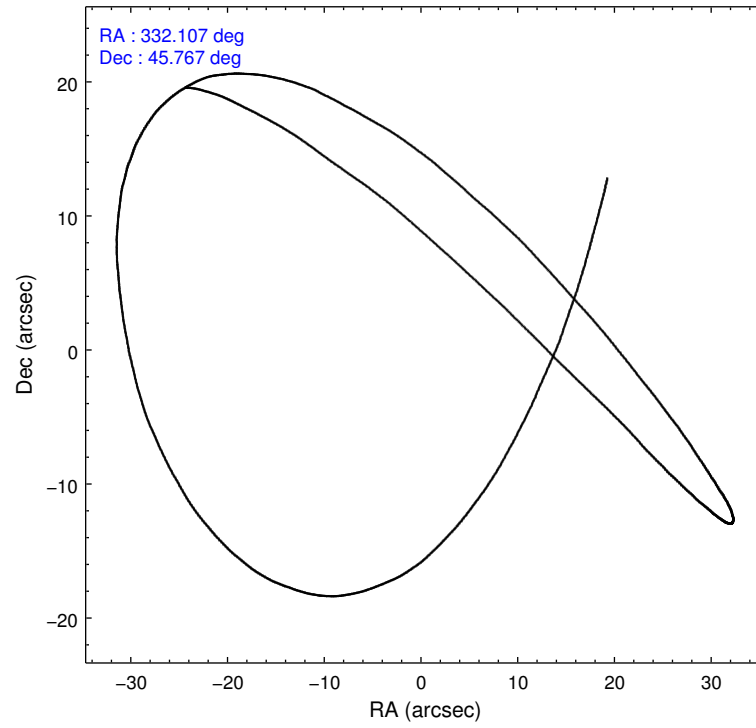
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	932	128483	965
rejected events	932	26273	944
rejected %	100%	20%	97%

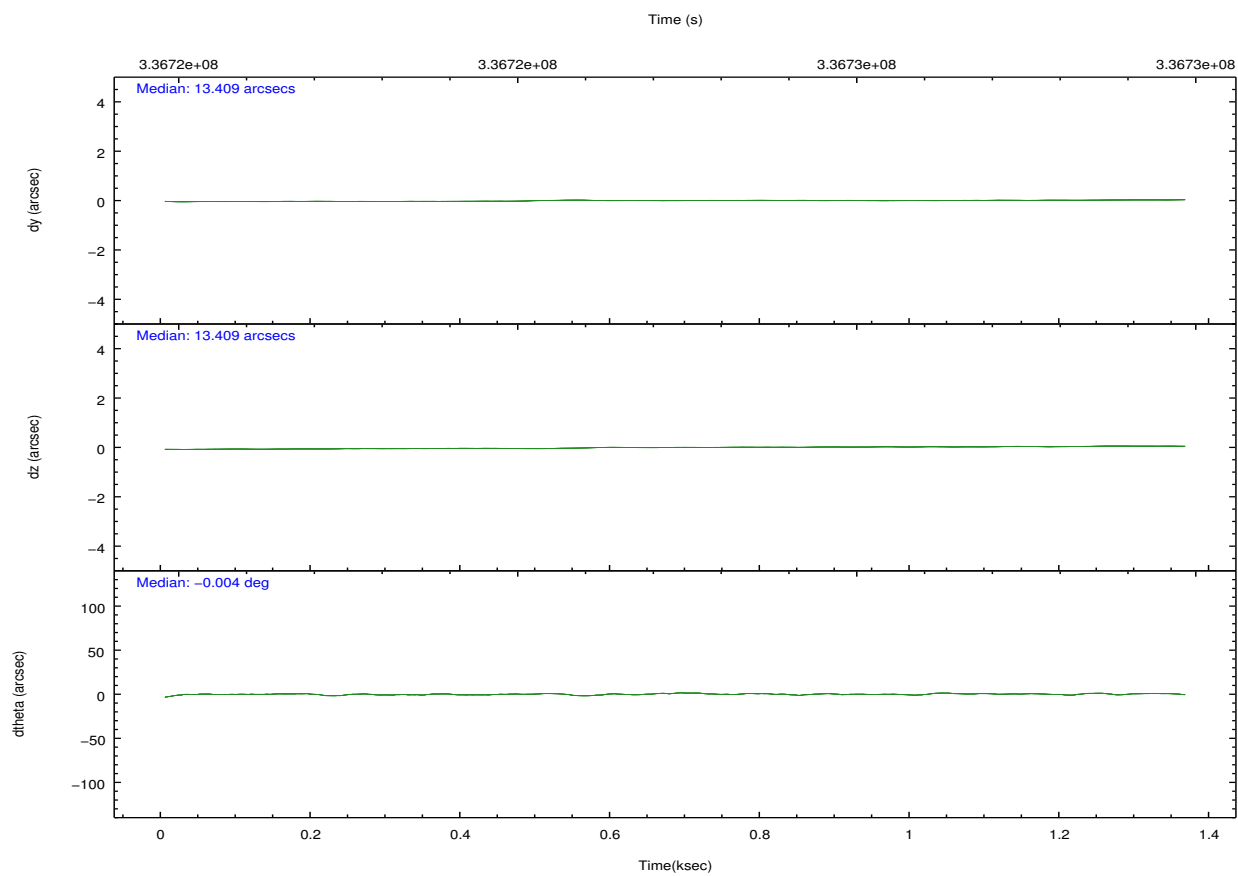
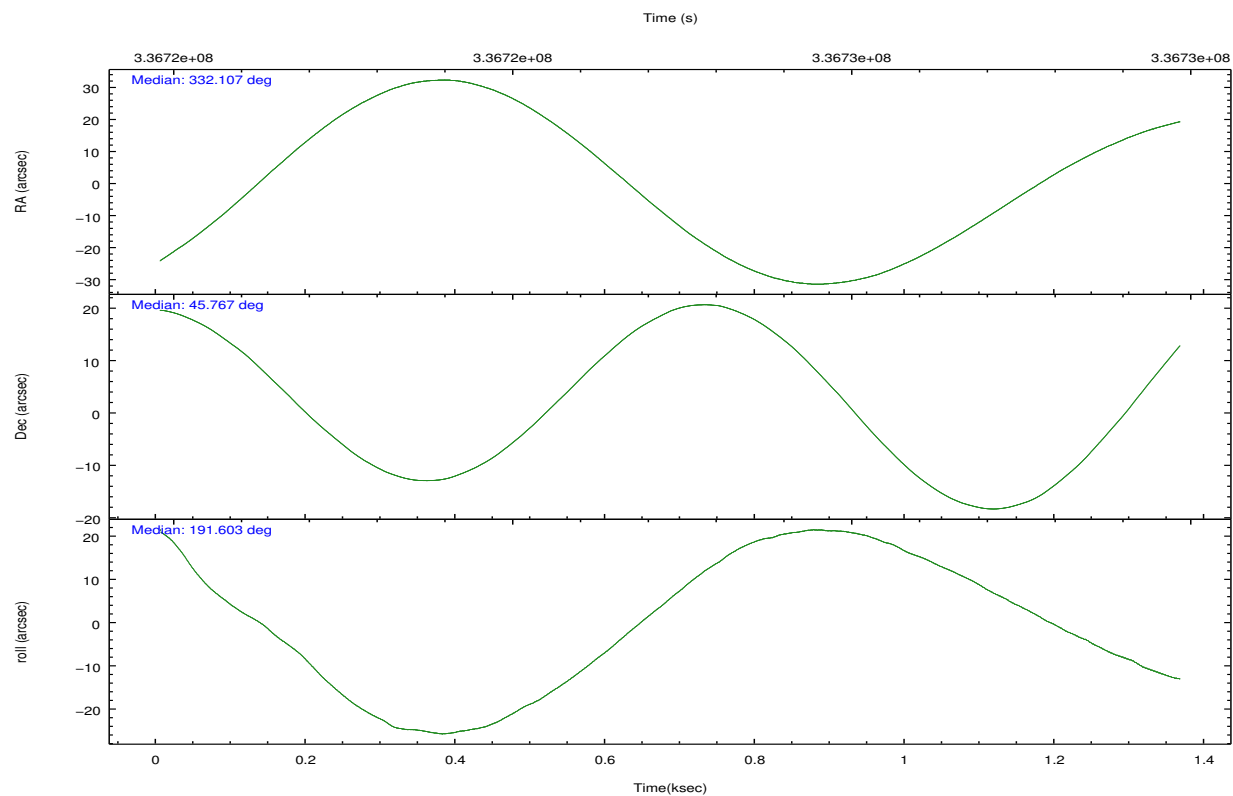
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.136319	332.1073234509411
[deg] Pointing Dec	45.787534	45.76684181284105
[deg] Pointing Roll	191.521482	191.6096167979077
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	336724733.184000	336724356.63332
Observation start date	2008-09-02T06:37:48	2008-09-02T06:32:36
[s] Observation end time (MET)	336725913.184000	336726046.3459
Observation end date	2008-09-02T06:57:28	2008-09-02T07:00:46

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

## 2.3 Aspect





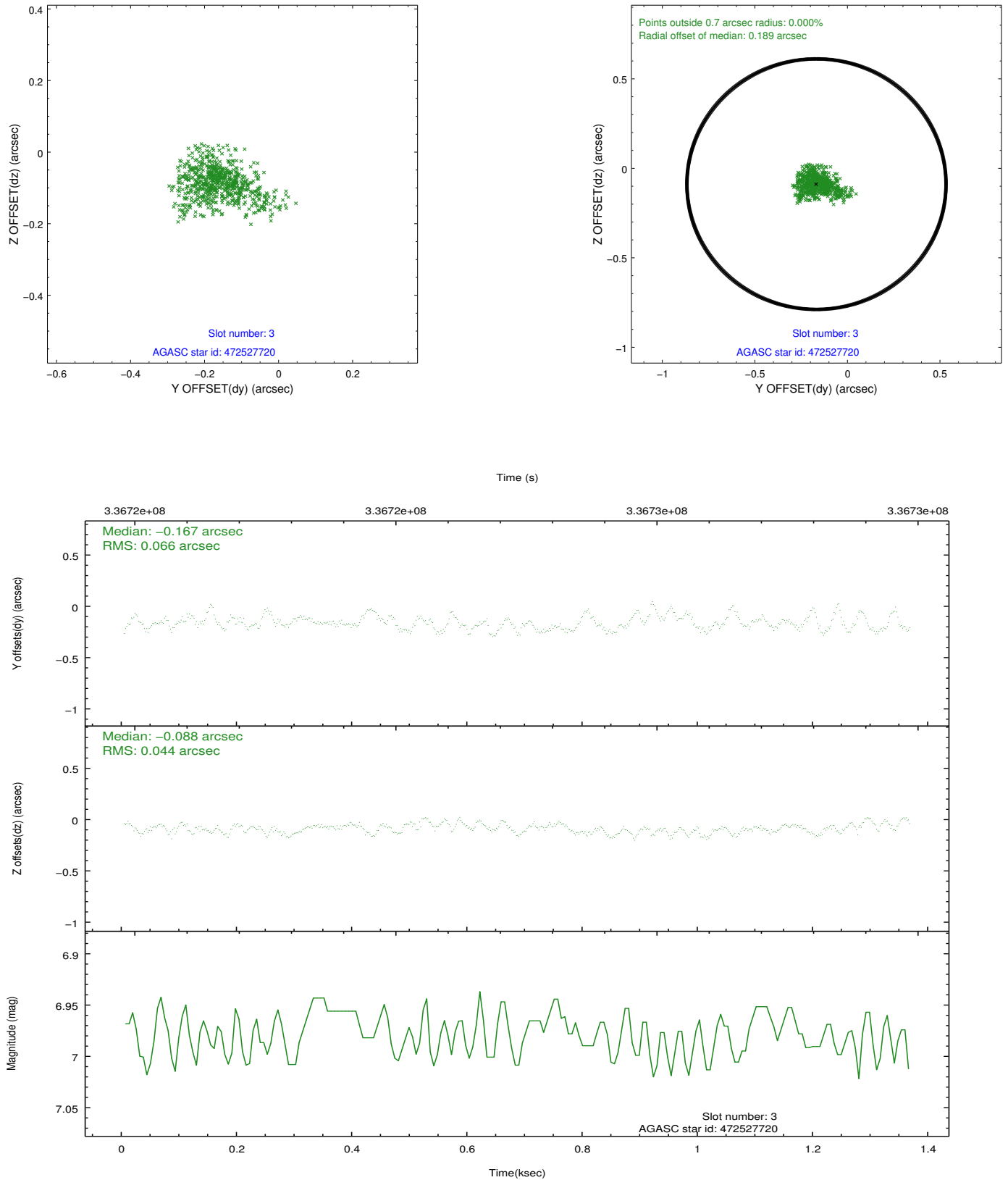
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.01	333	0.085	-0.153	0.007	0.011	0.000000	0.000000	-1167.74	-462.21
1	FID	HRC-S-2	7.00	333	0.213	-0.117	0.004	0.010	0.000000	0.000000	1228.54	-456.16
2	FID	HRC-S-3	7.01	333	0.091	-0.031	0.007	0.011	0.000000	0.000000	-1166.78	566.06
3	GUIDE	472527720	6.98	666	-0.167	-0.088	0.081	0.140	331.460205	45.112509	2167.56	2029.16
4	GUIDE	472533912	9.15	664	-0.026	-0.027	0.109	0.183	331.791136	46.368695	426.27	-2222.07
5	GUIDE	472535576	7.87	666	-0.112	0.035	0.063	0.102	331.438373	46.291802	1338.75	-2138.20
6	GUIDE	472655152	9.43	664	0.089	0.049	0.112	0.189	332.504239	45.862991	-955.53	-89.25
7	GUIDE	472665256	9.01	665	0.218	0.029	0.089	0.137	332.808125	46.195041	-1935.08	-1112.41

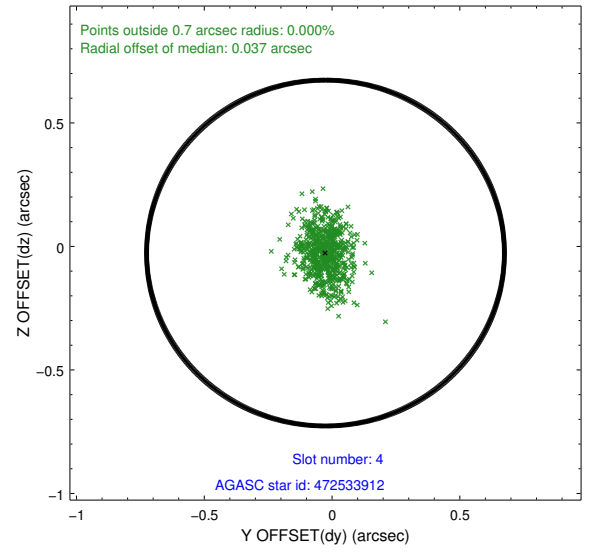
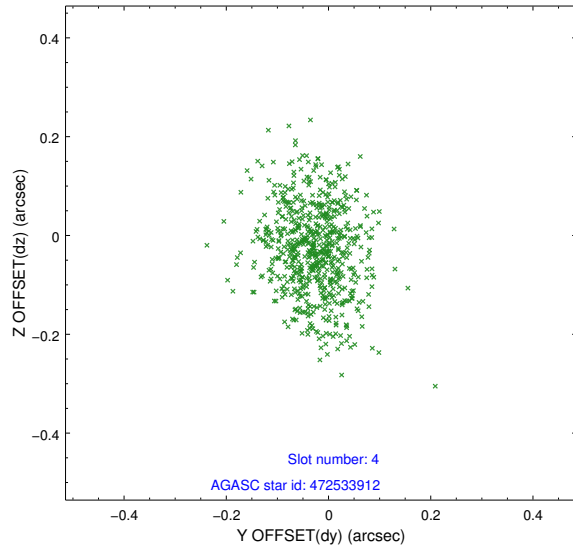


## 2.4 Star Slots

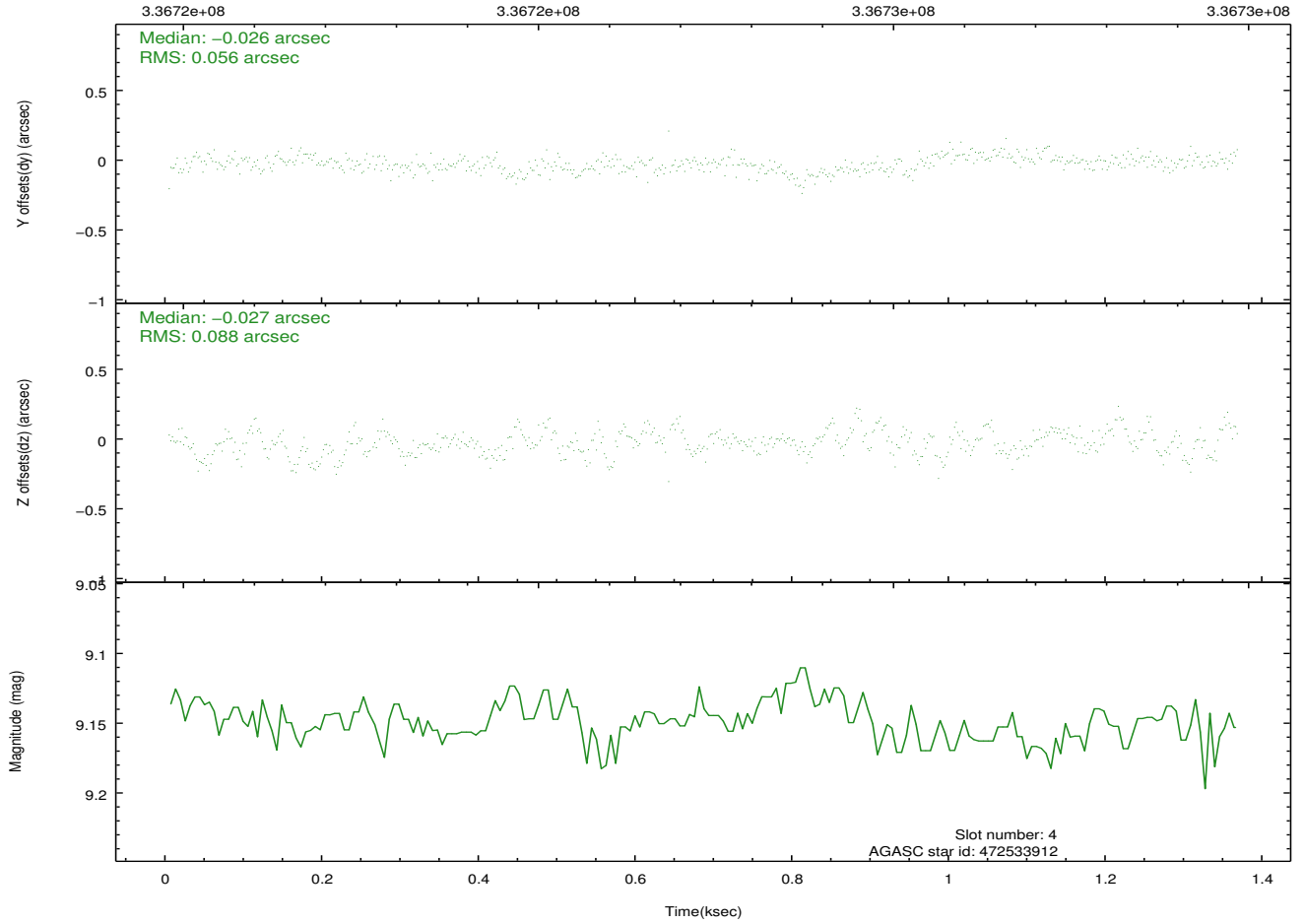
### 2.4.1 Slot 3



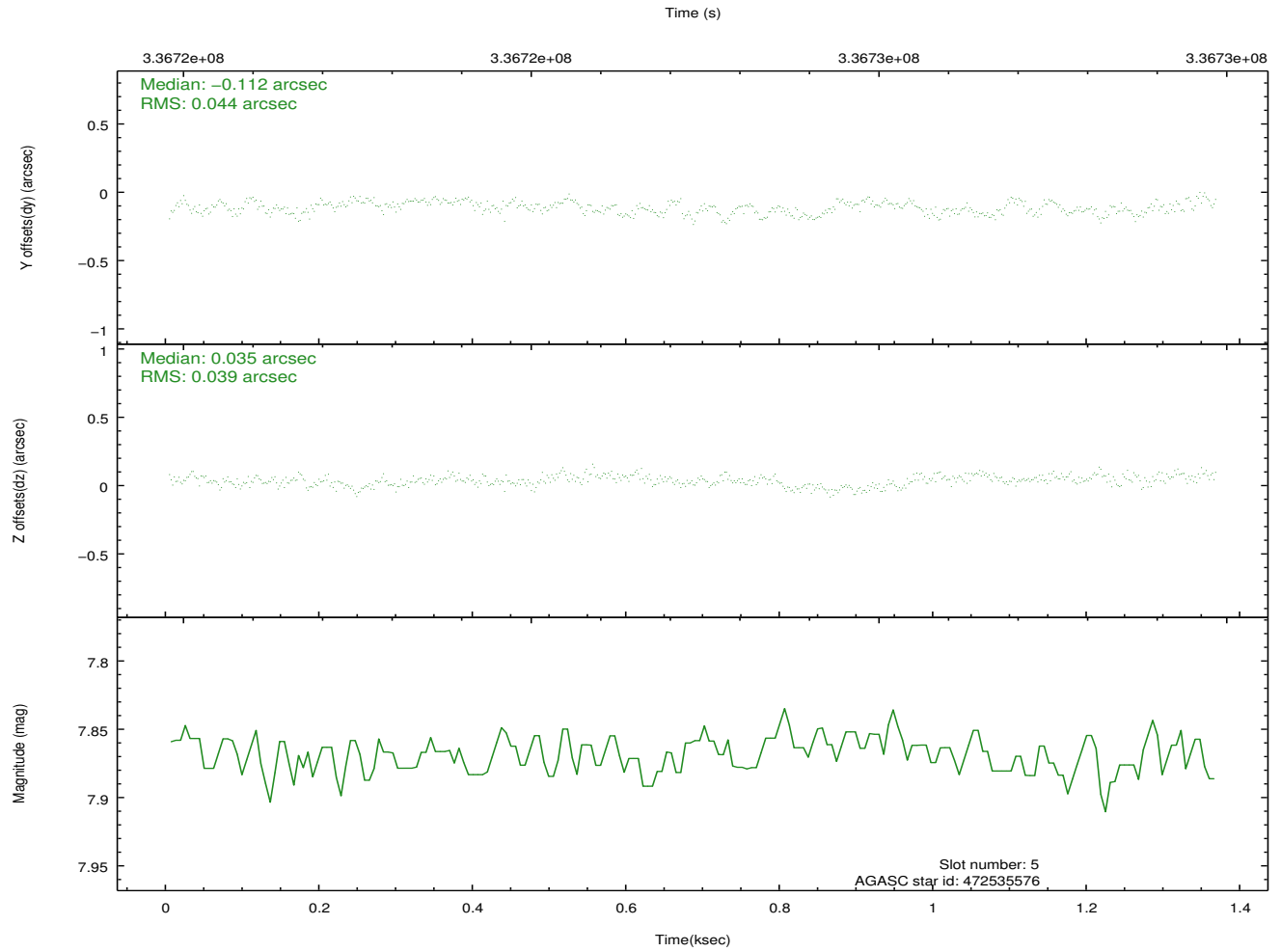
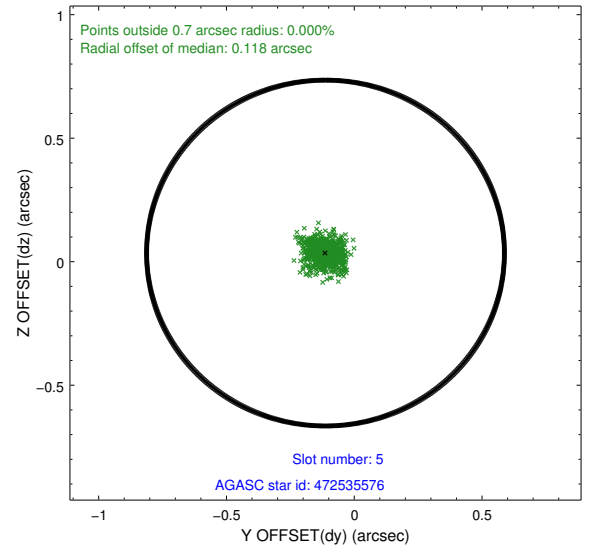
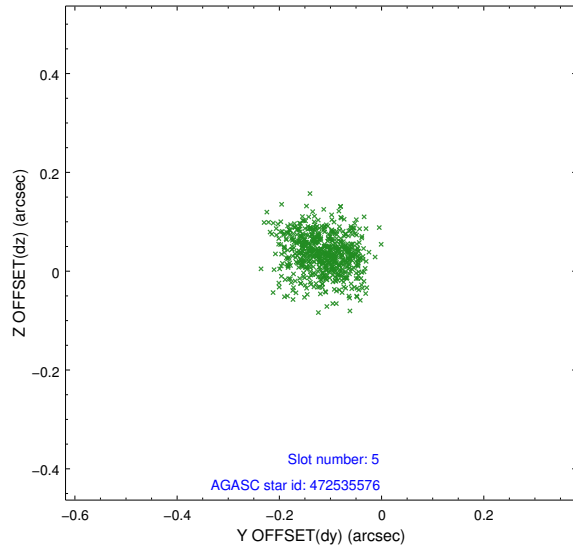
## 2.4.2 Slot 4



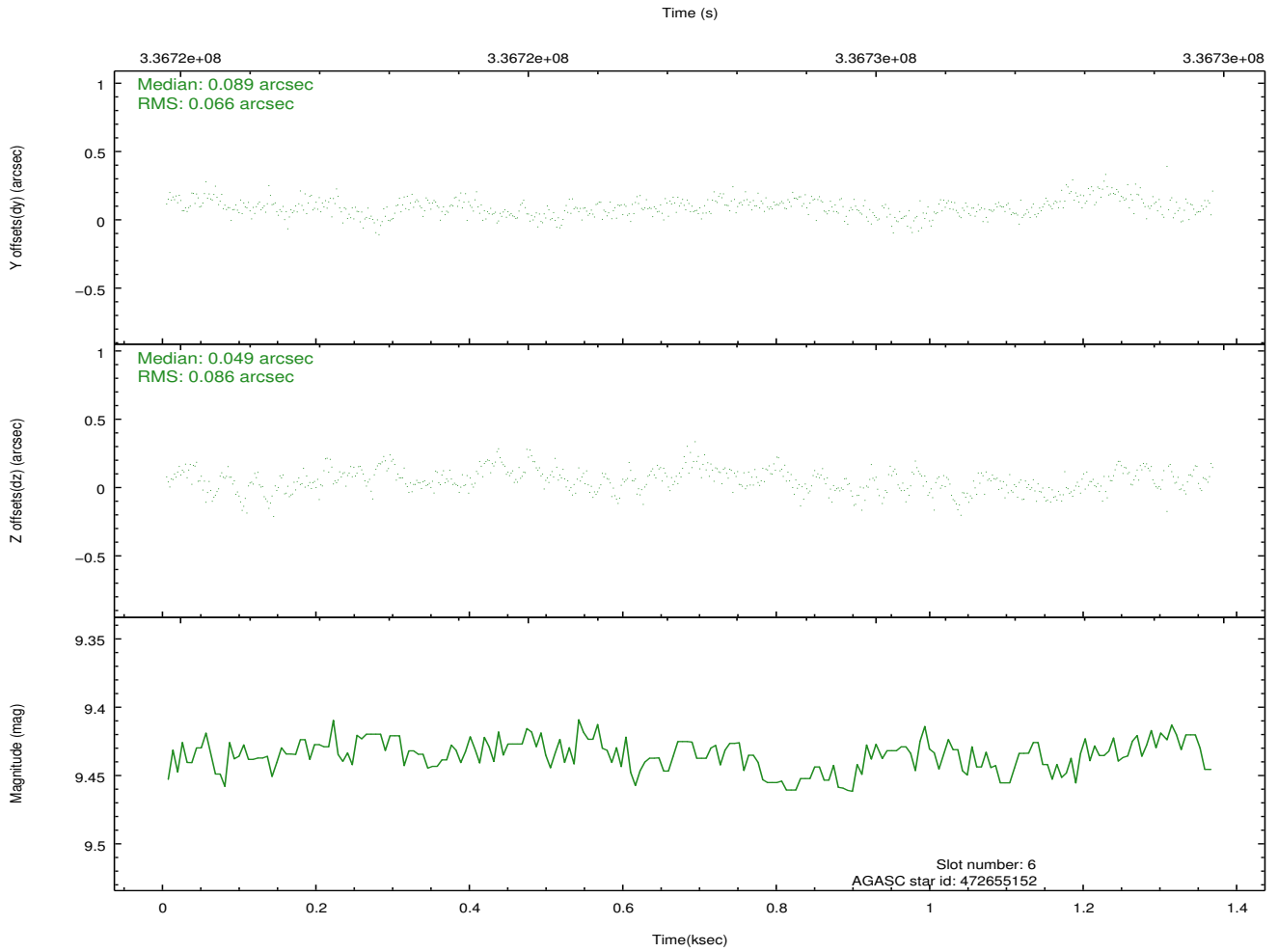
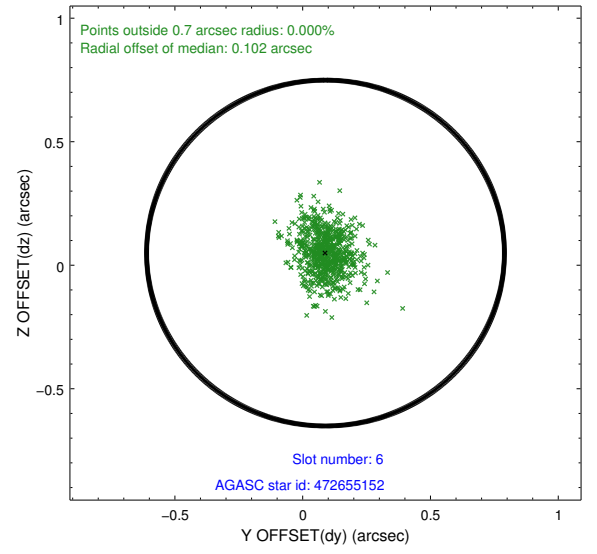
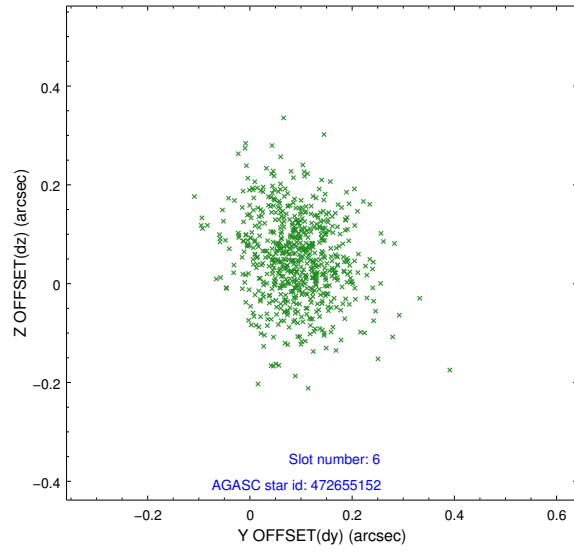
Time (s)



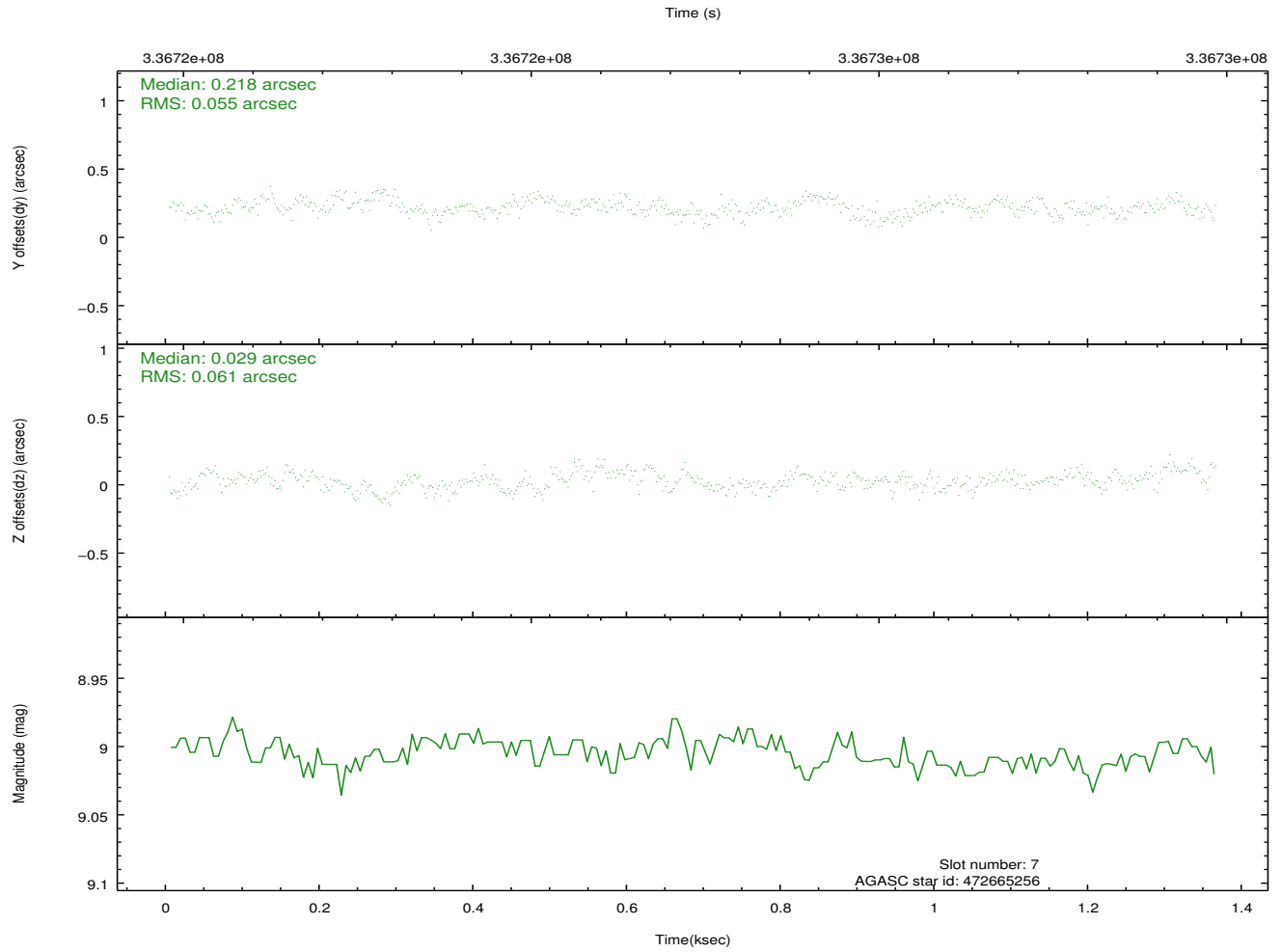
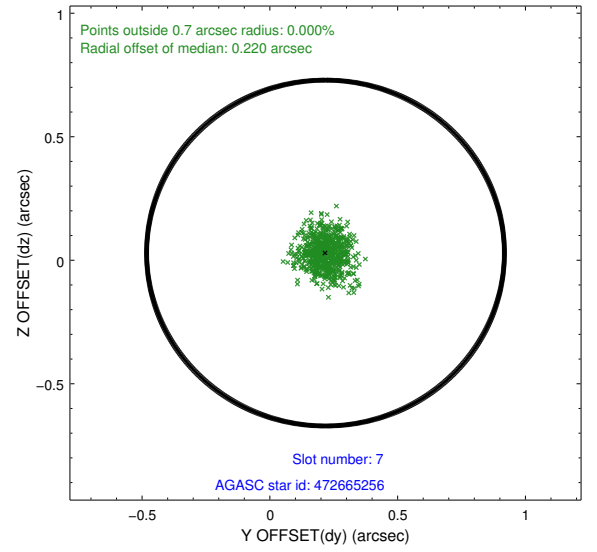
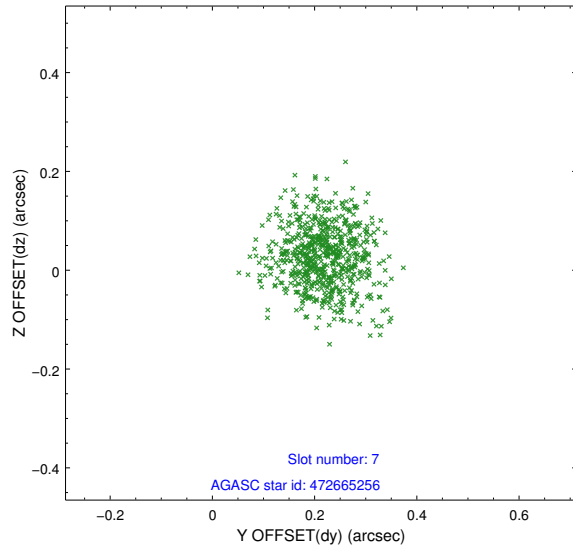
### 2.4.3 Slot 5



## 2.4.4 Slot 6

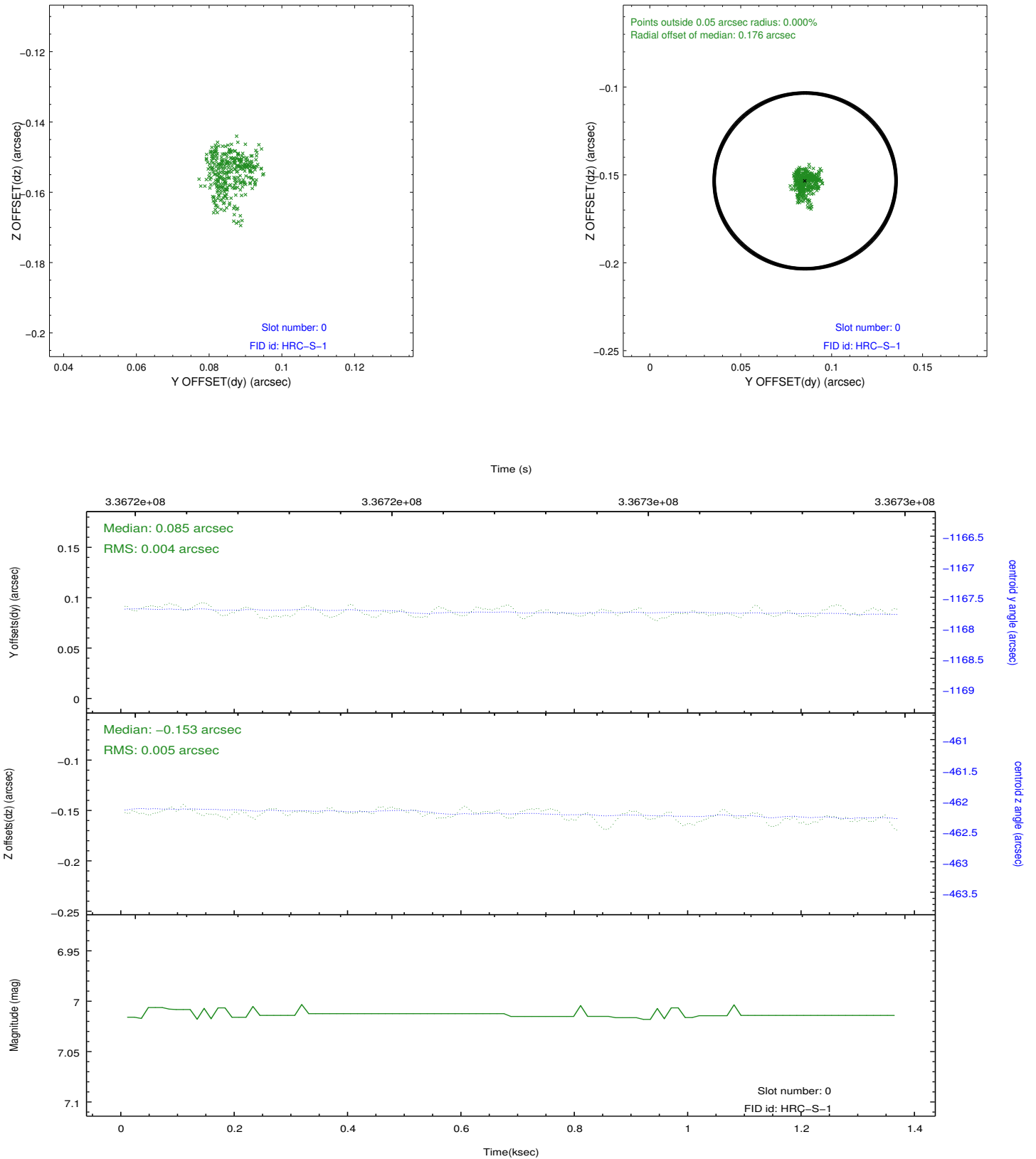


## 2.4.5 Slot 7

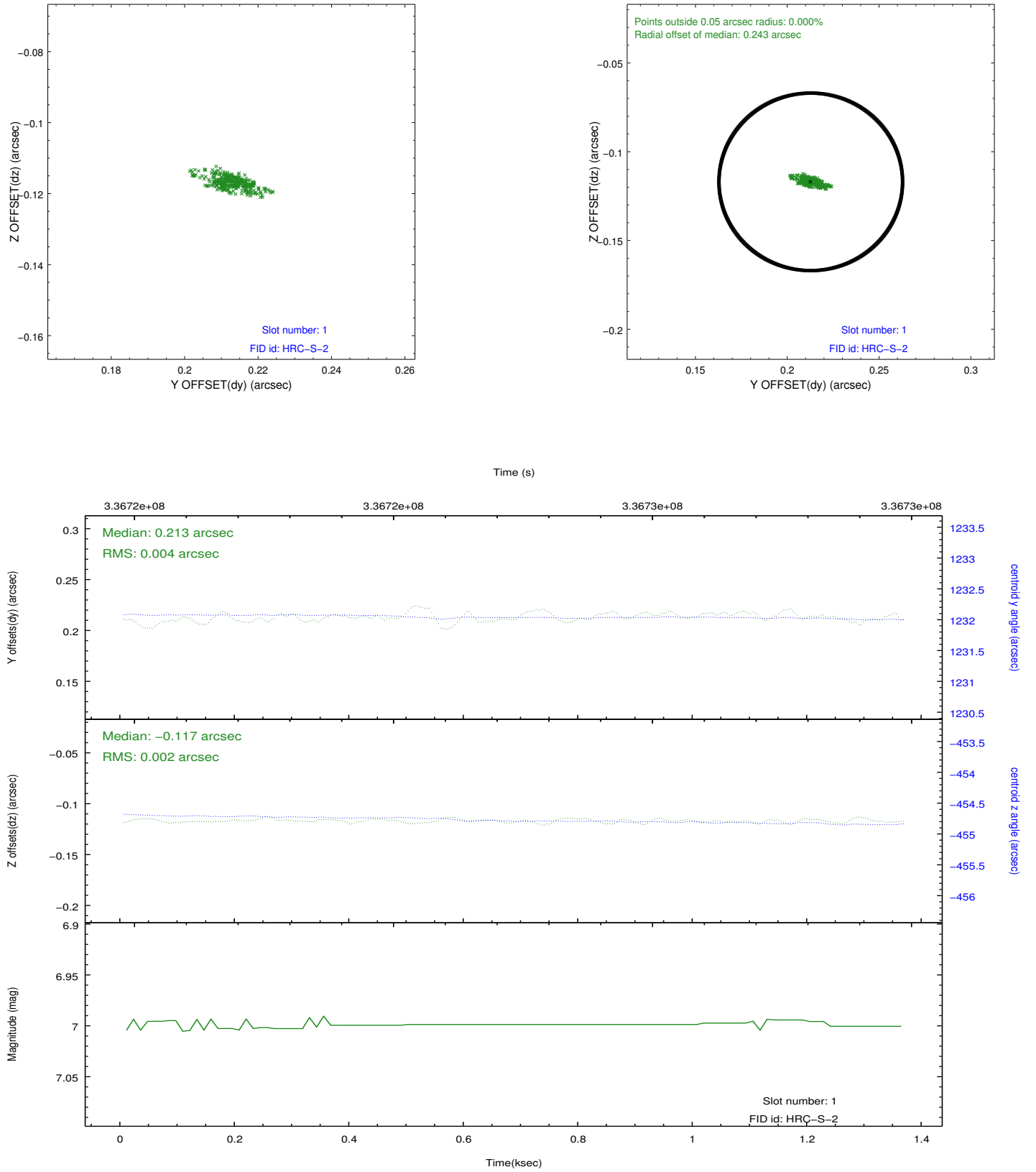


## 2.5 FID Slots

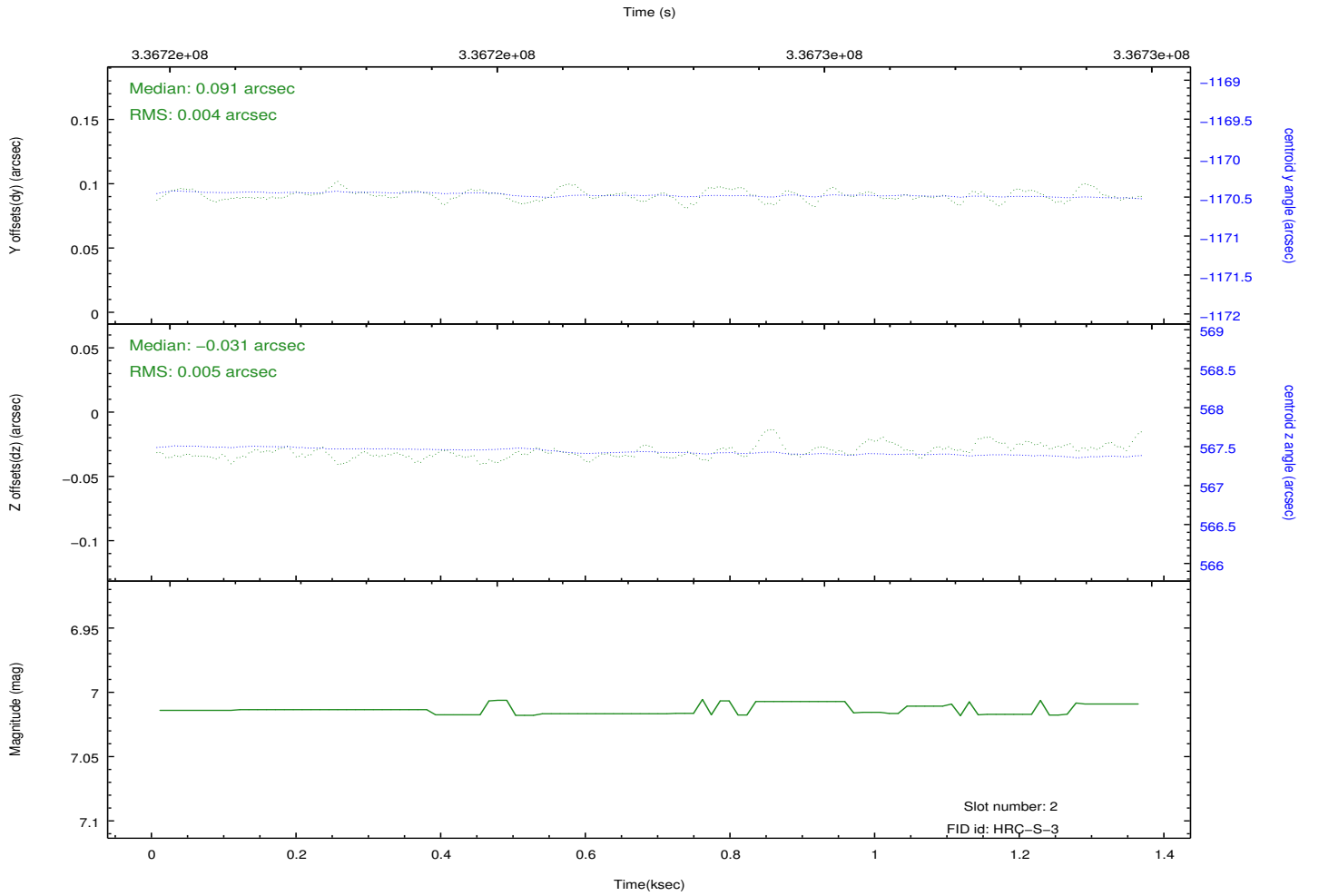
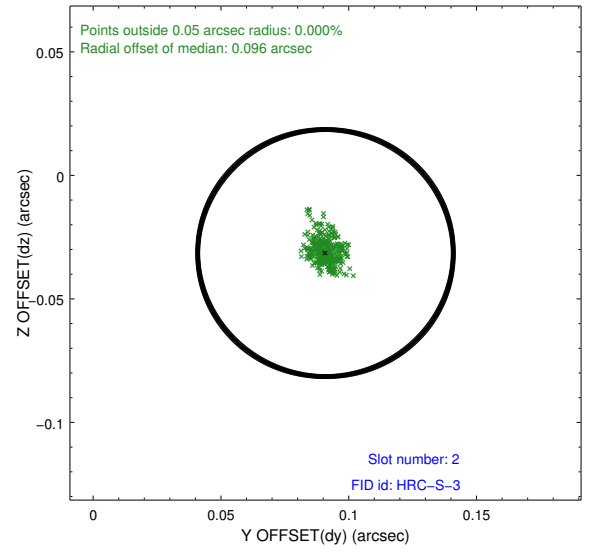
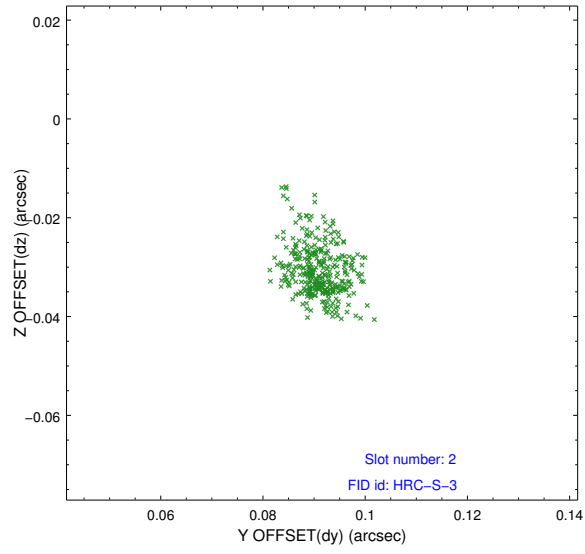
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.08.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.33352506

### A.2 Comments