

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4339 - L2 Version 3  
Chandra X-Ray Center

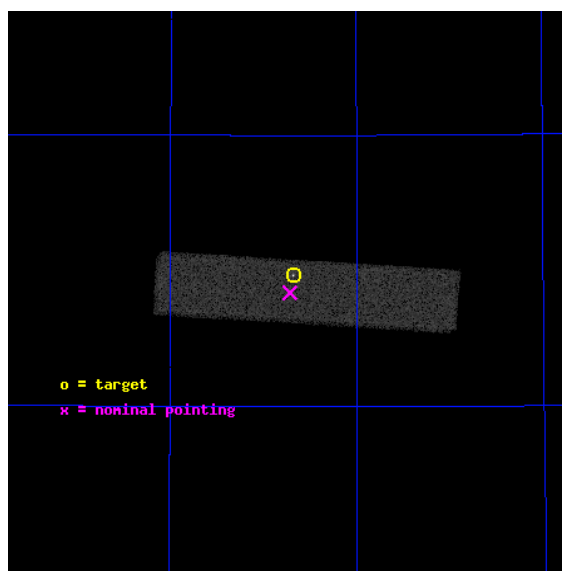
L2 Processing Date : Oct 23 2012

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# 1 Front

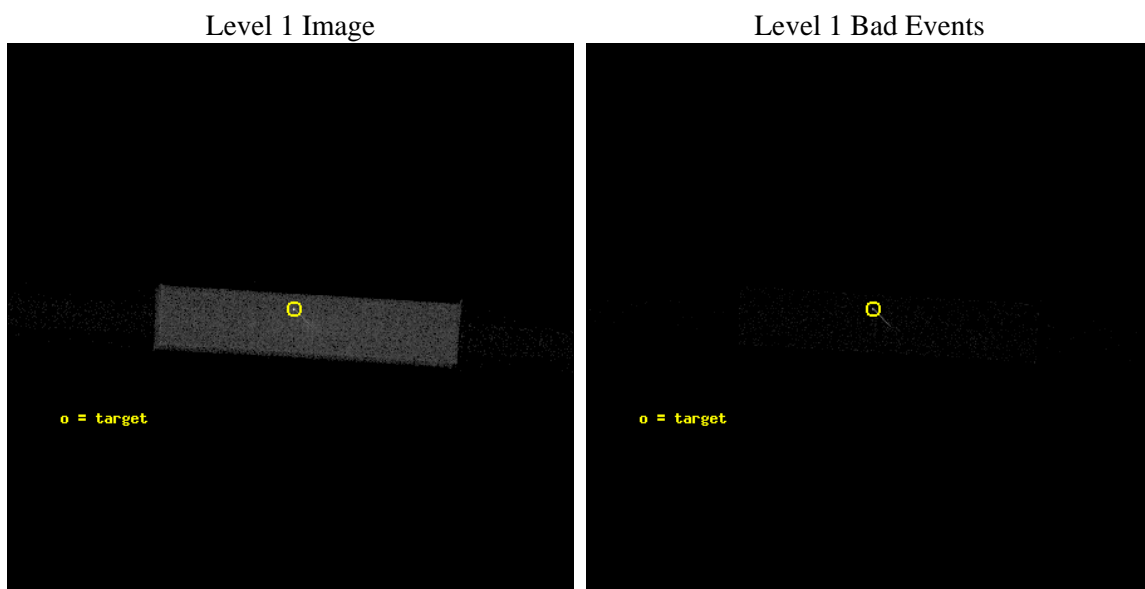
seq_num	290299	Sequence number
obs_id	4339	Observation id
title	AO4A CALIBRATION OBSERVATIONS TO MONITOR SPATIAL VARIATIONS IN THE HRC-S GAIN	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ARLAC	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.17903488922	Nominal RA [deg]
dec_nom	45.709794205	Nominal Dec [deg]
roll_nom	3.4370049204476	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1142.1062980592	[s]
livetime	1136.2495333925	Ontime multiplied by DTCOR
l2events	40446	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	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	1142.1062980592	[s]
caldsver	4.5.2	&#160	l1events	66816	Number of level 1 events
date	2012-10-23T09:06:40	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

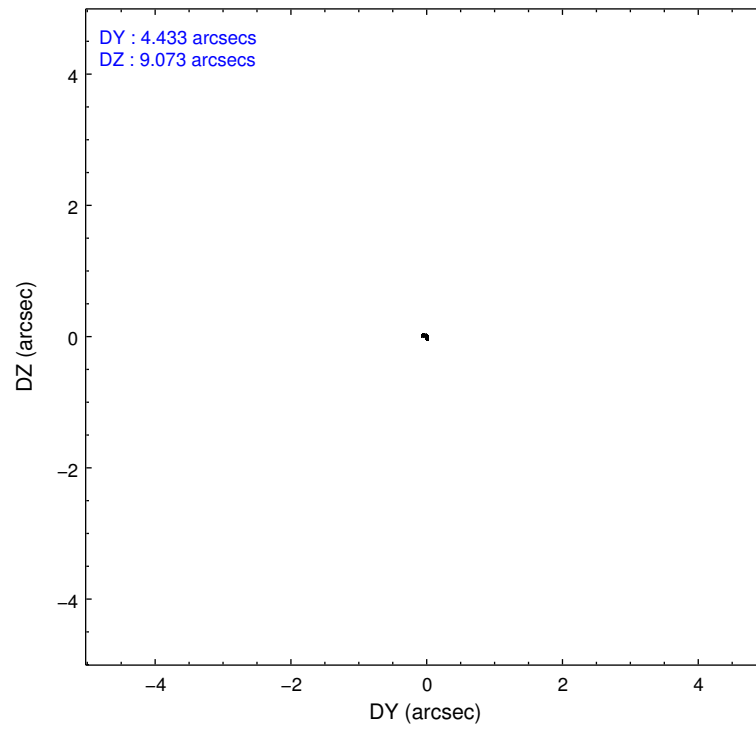
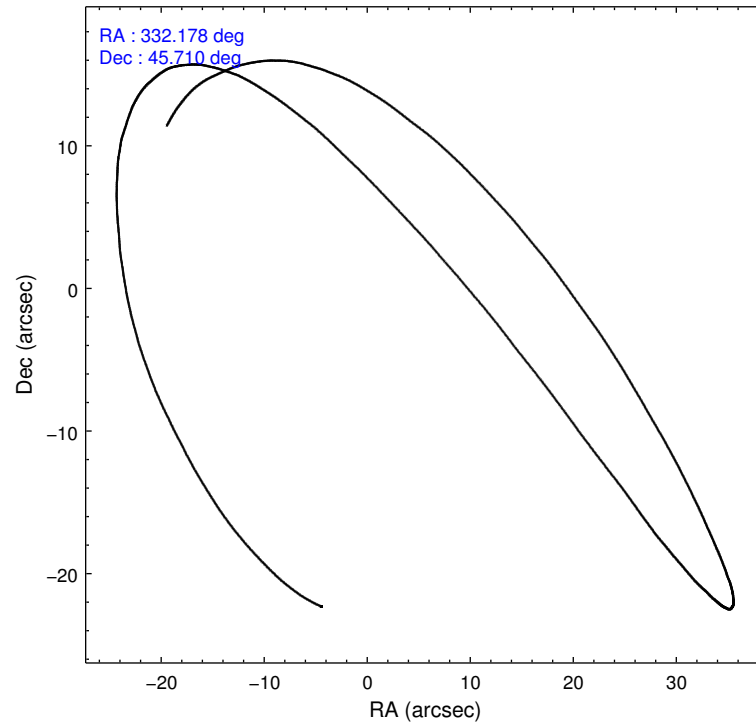
Level 1 Events

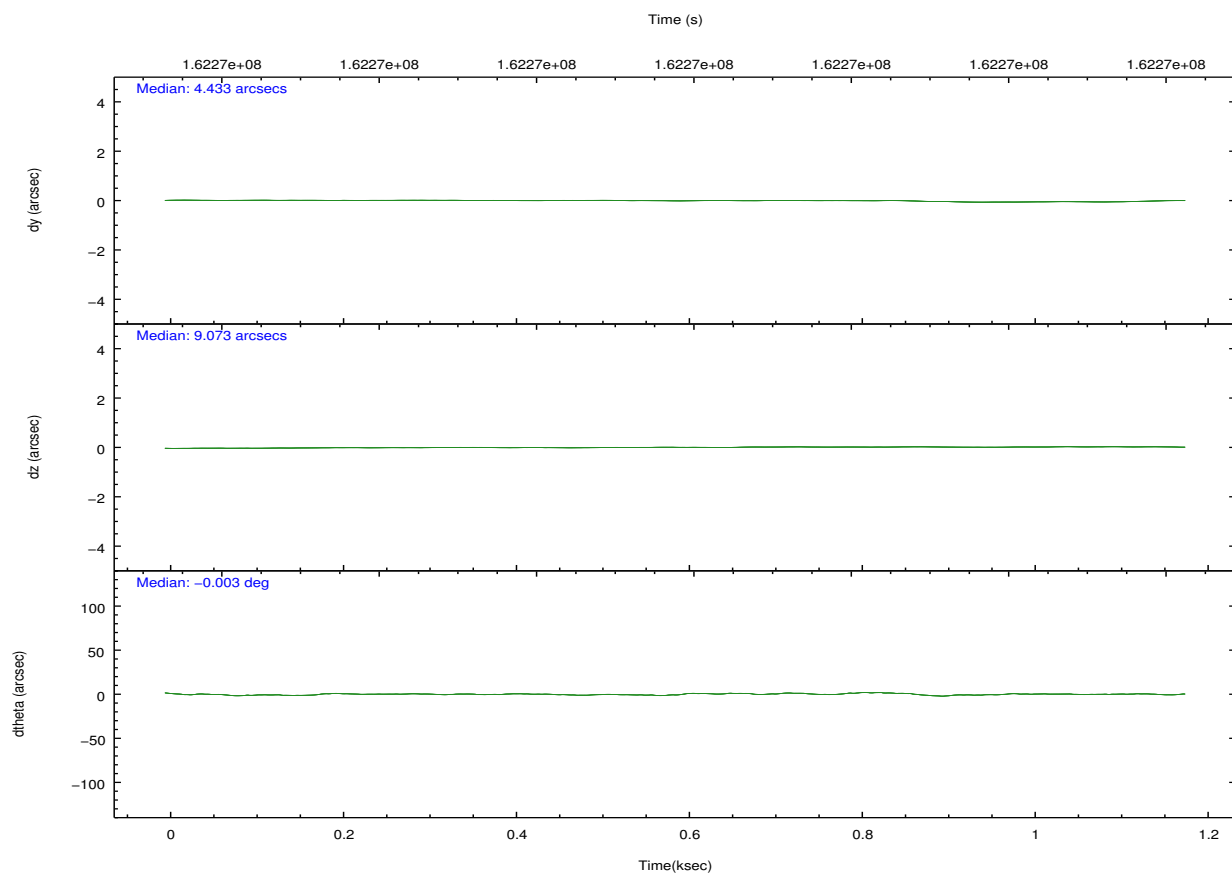
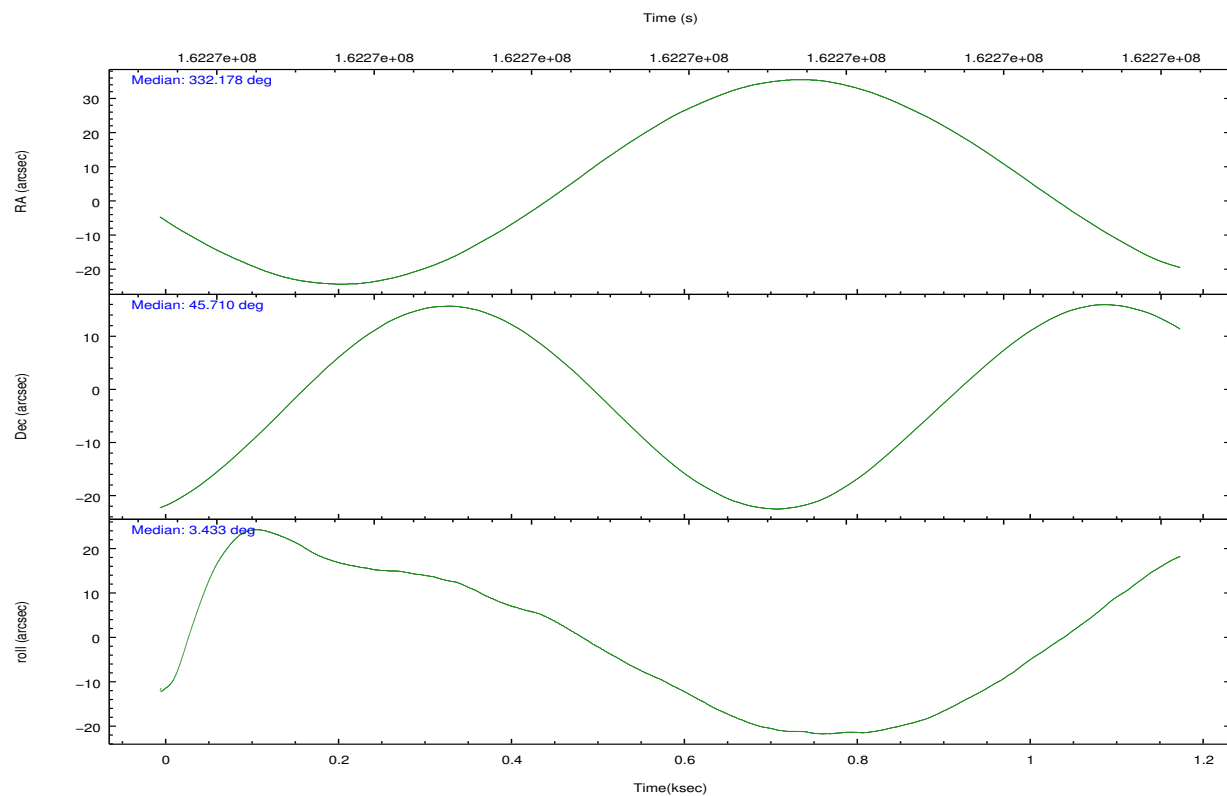
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1142	64607	1067
rejected events	1142	14677	1067
rejected %	100%	22%	100%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
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			
[deg] Pointing RA	332.146500	332.1790348892155			
[deg] Pointing Dec	45.692248	45.70979420499975			
[deg] Pointing Roll	3.393071	3.437004920447584			
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	162272365.184000	162271989.24365			
Observation start date	2003-02-22T03:38:21	2003-02-22T03:33:09			
[s] Observation end time (MET)	162273365.184000	162273499.58121			
Observation end date	2003-02-22T03:55:01	2003-02-22T03:58:19			

## 2.3 Aspect





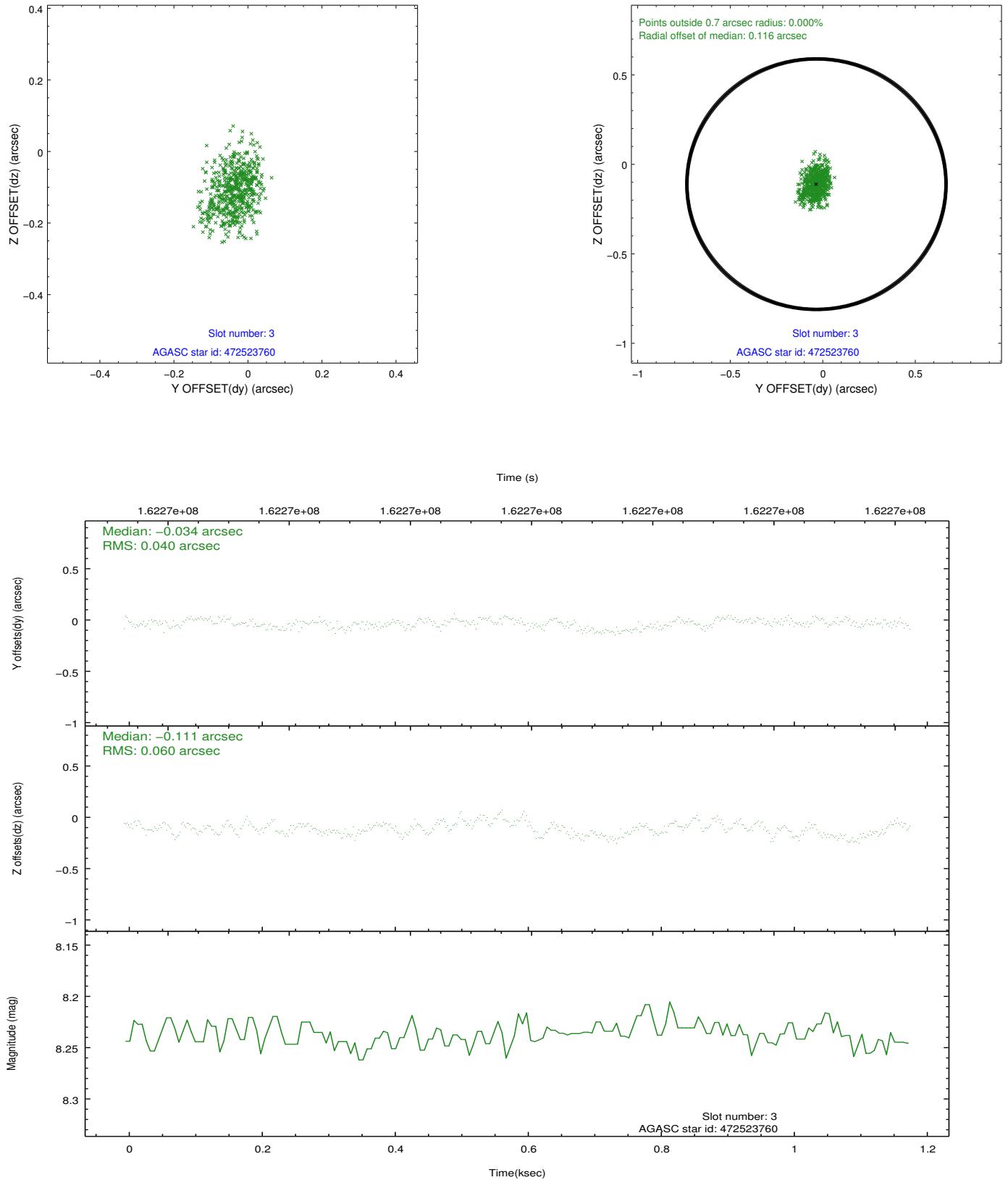
### Slot Statistics

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	288	0.163	-0.171	0.009	0.016	0.000000	0.000000	-1158.47	-457.72
1	FID	HRC-S-2	7.01	287	0.062	-0.086	0.005	0.010	0.000000	0.000000	1237.07	-451.90
2	FID	HRC-S-3	7.03	288	0.165	-0.046	0.008	0.016	0.000000	0.000000	-1156.88	570.37
3	GUIDE	472523760	8.24	577	-0.034	-0.111	0.077	0.128	331.645363	45.403260	-1324.53	-961.98
4	GUIDE	472655152	9.43	563	0.121	-0.009	0.109	0.188	332.504239	45.862991	930.56	559.01
5	GUIDE	472659832	9.46	577	0.023	0.029	0.100	0.160	332.780399	46.098139	1669.34	1370.26
6	GUIDE	472527720	6.99	577	-0.035	-0.094	0.056	0.099	331.460205	45.112509	-1859.42	-1972.80
7	GUIDE	472652872	10.10	572	-0.067	0.177	0.183	0.298	332.255928	45.019274	132.72	-2440.24

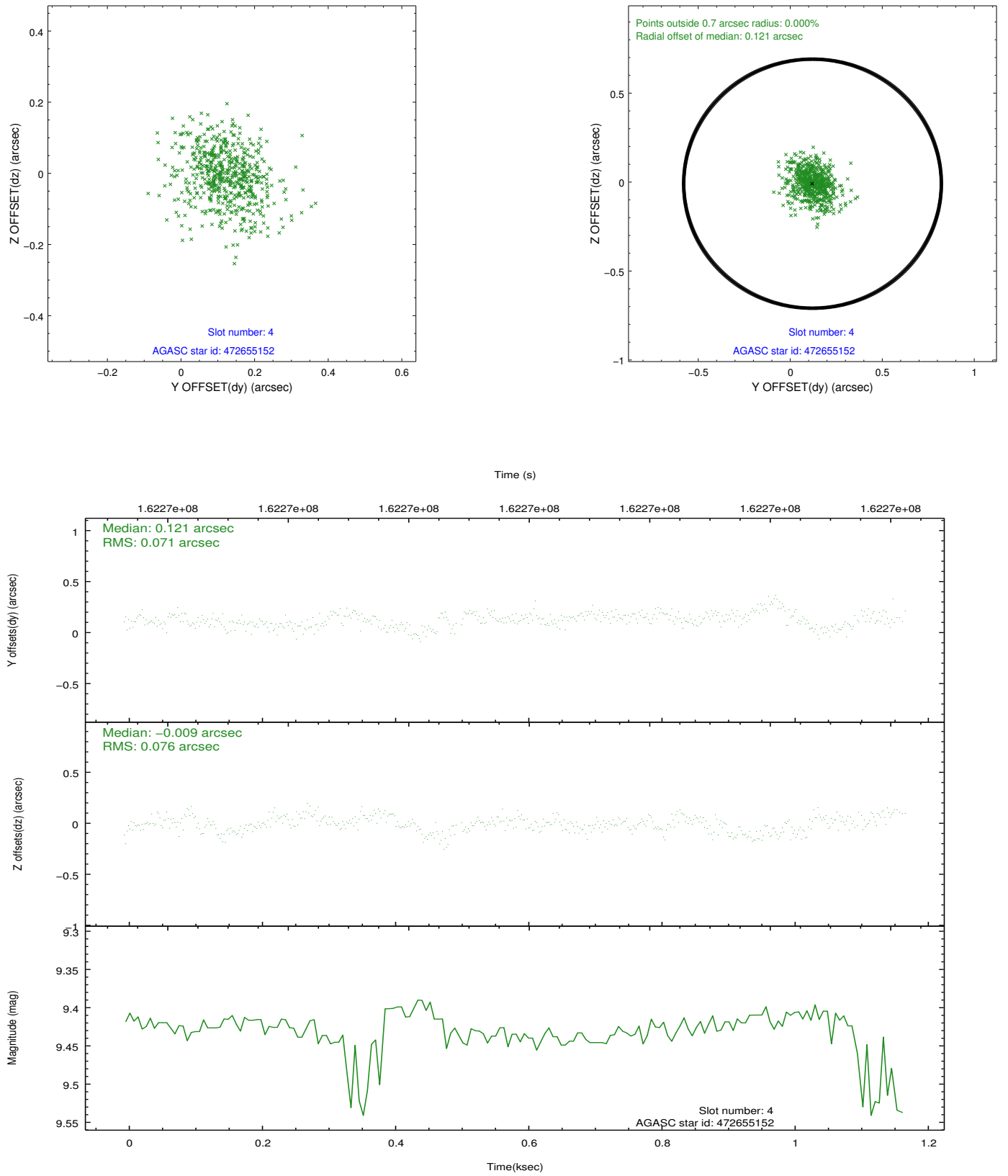


## 2.4 Star Slots

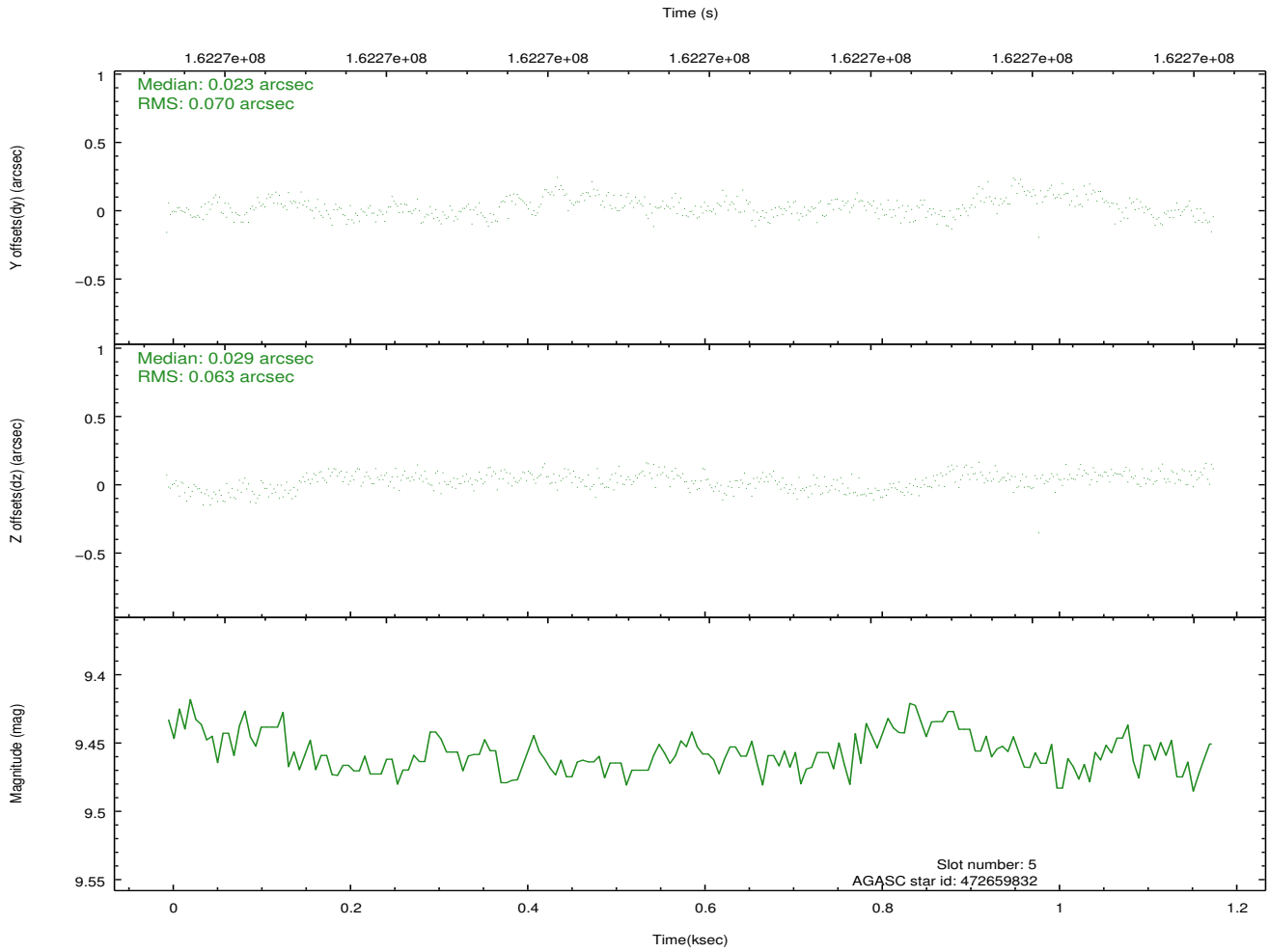
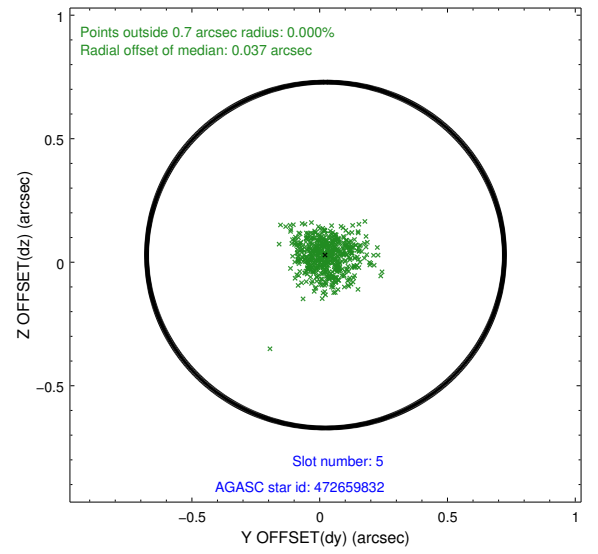
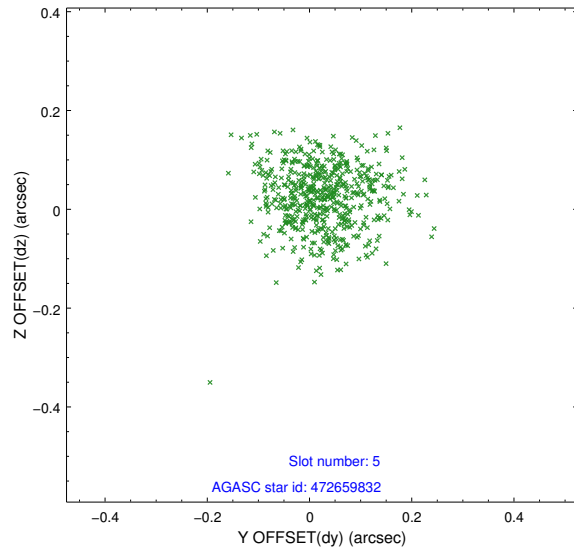
### 2.4.1 Slot 3



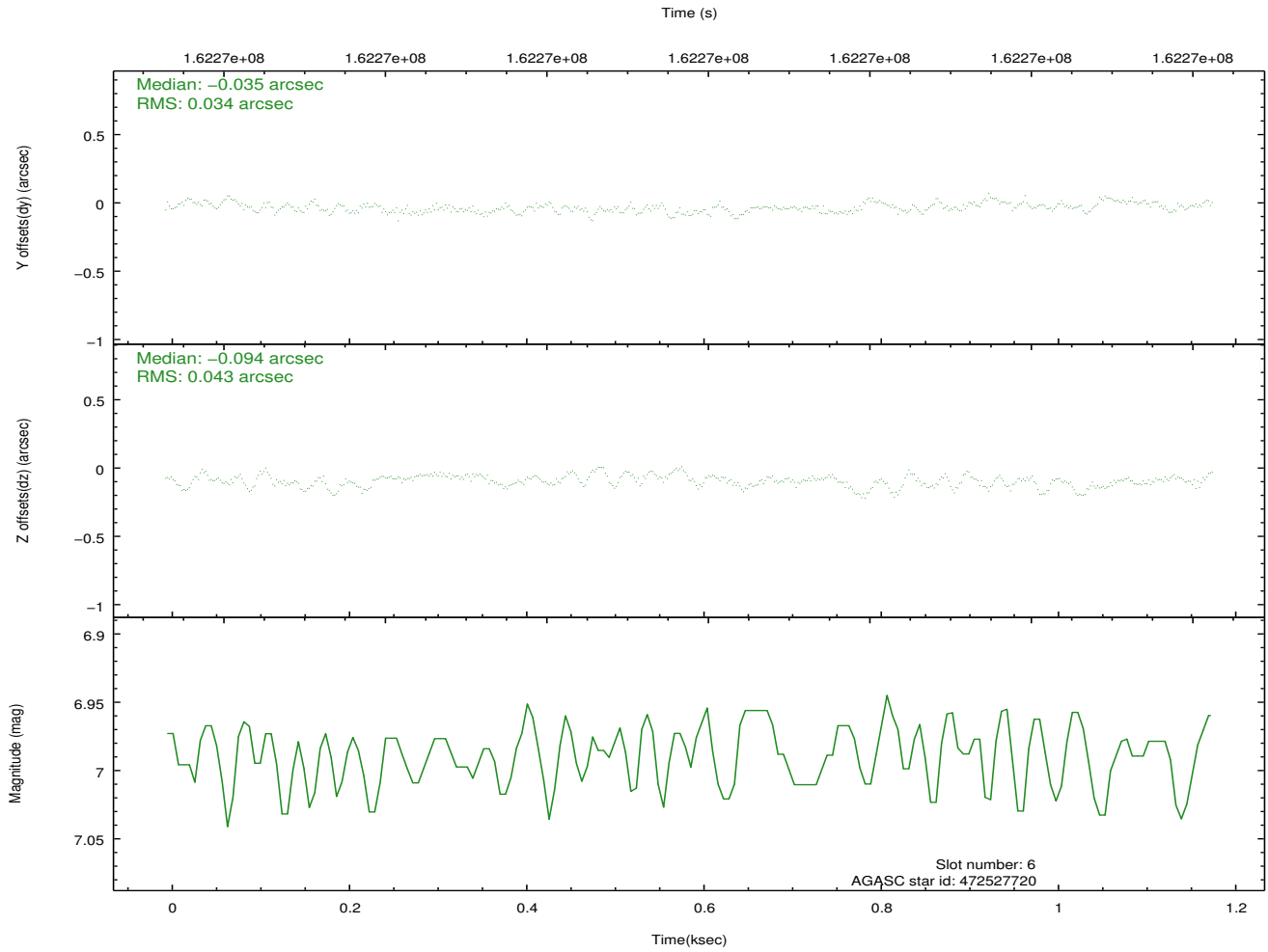
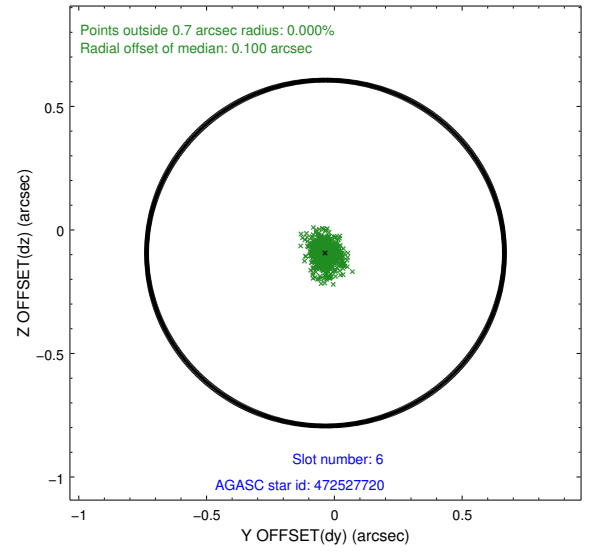
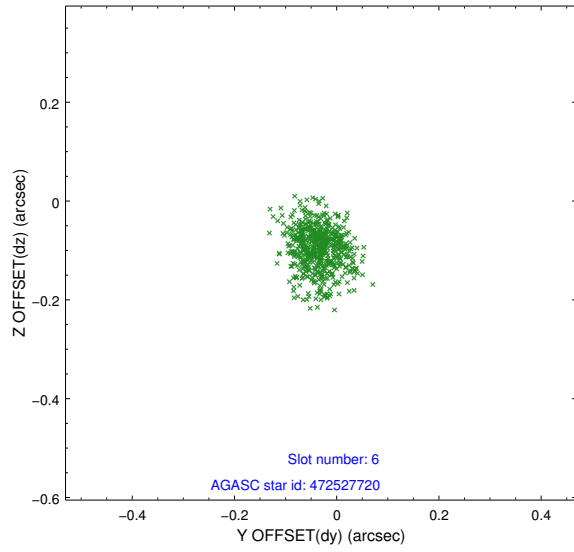
## 2.4.2 Slot 4



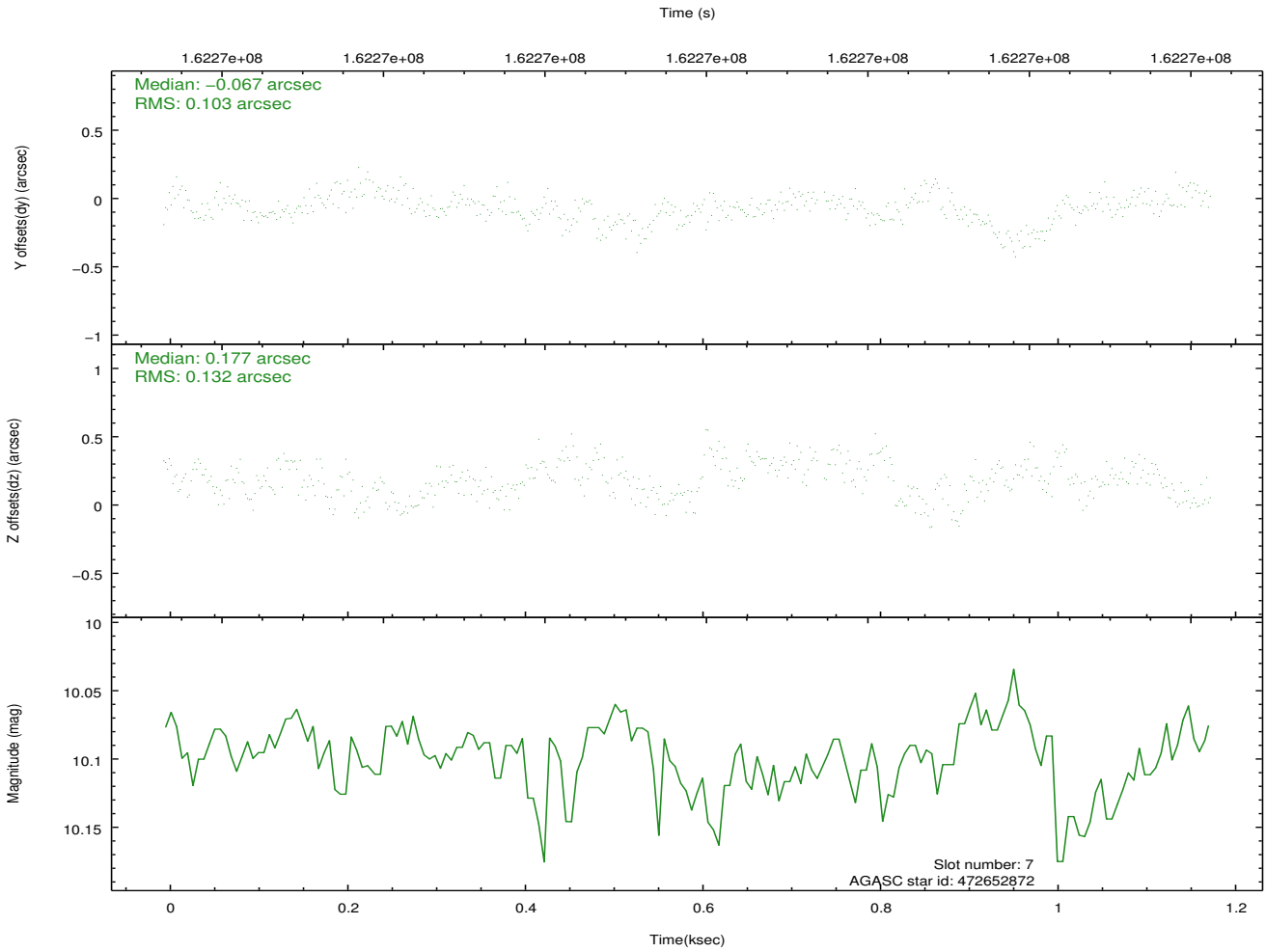
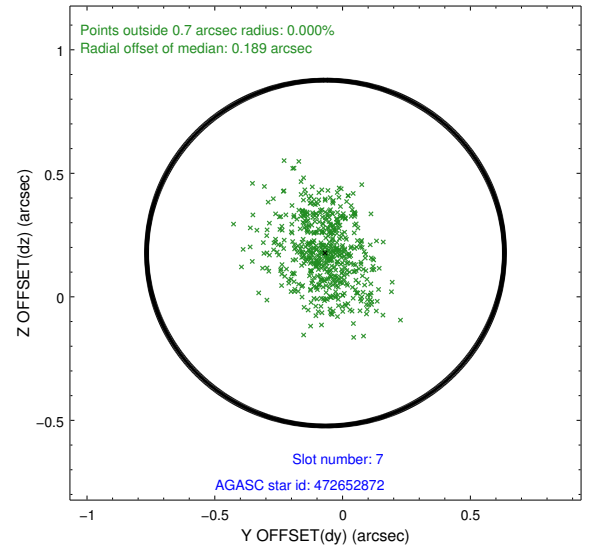
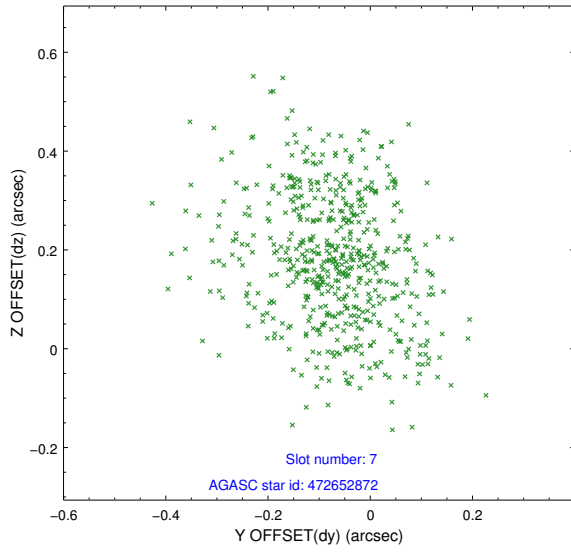
### 2.4.3 Slot 5



## 2.4.4 Slot 6

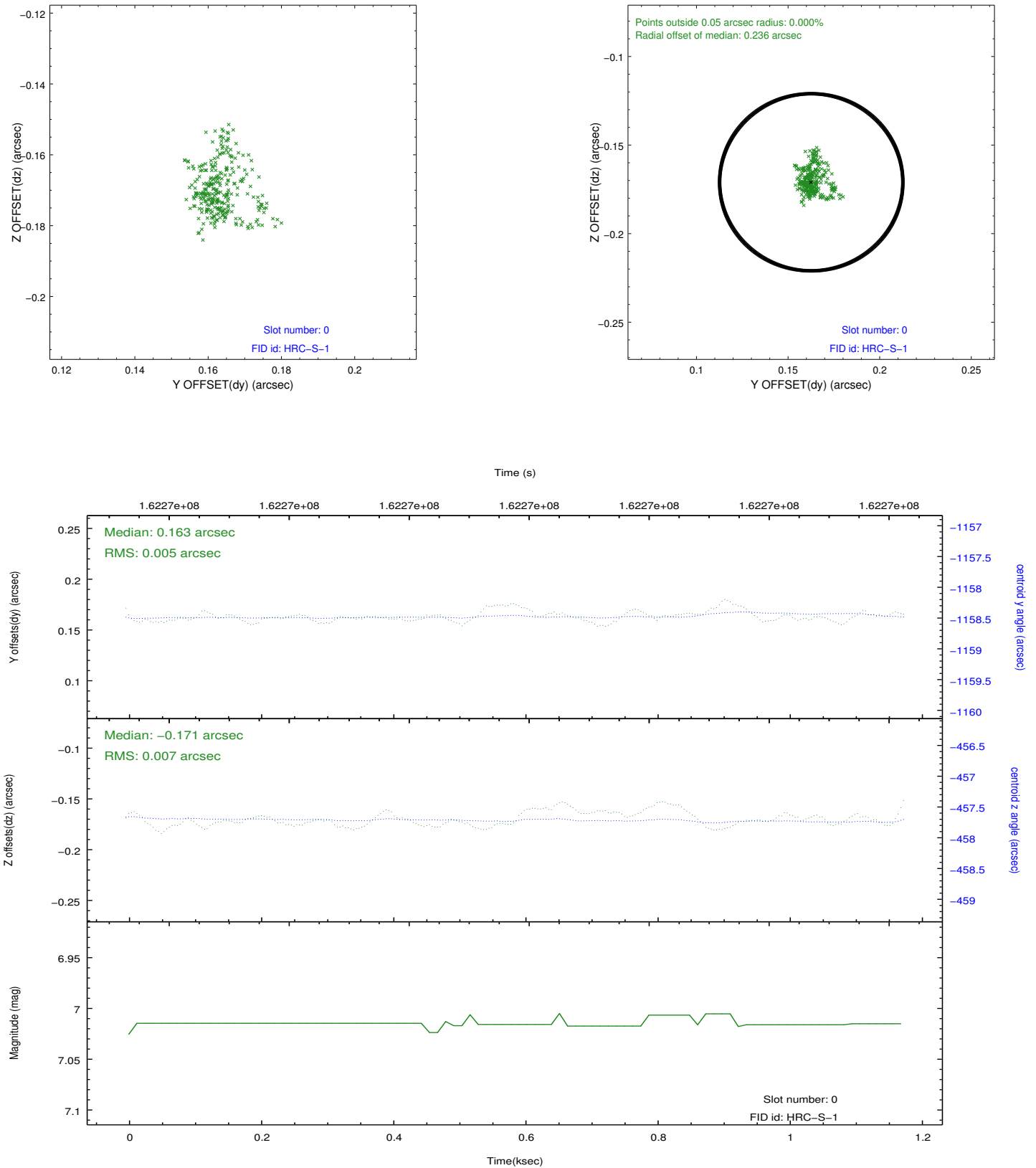


## 2.4.5 Slot 7

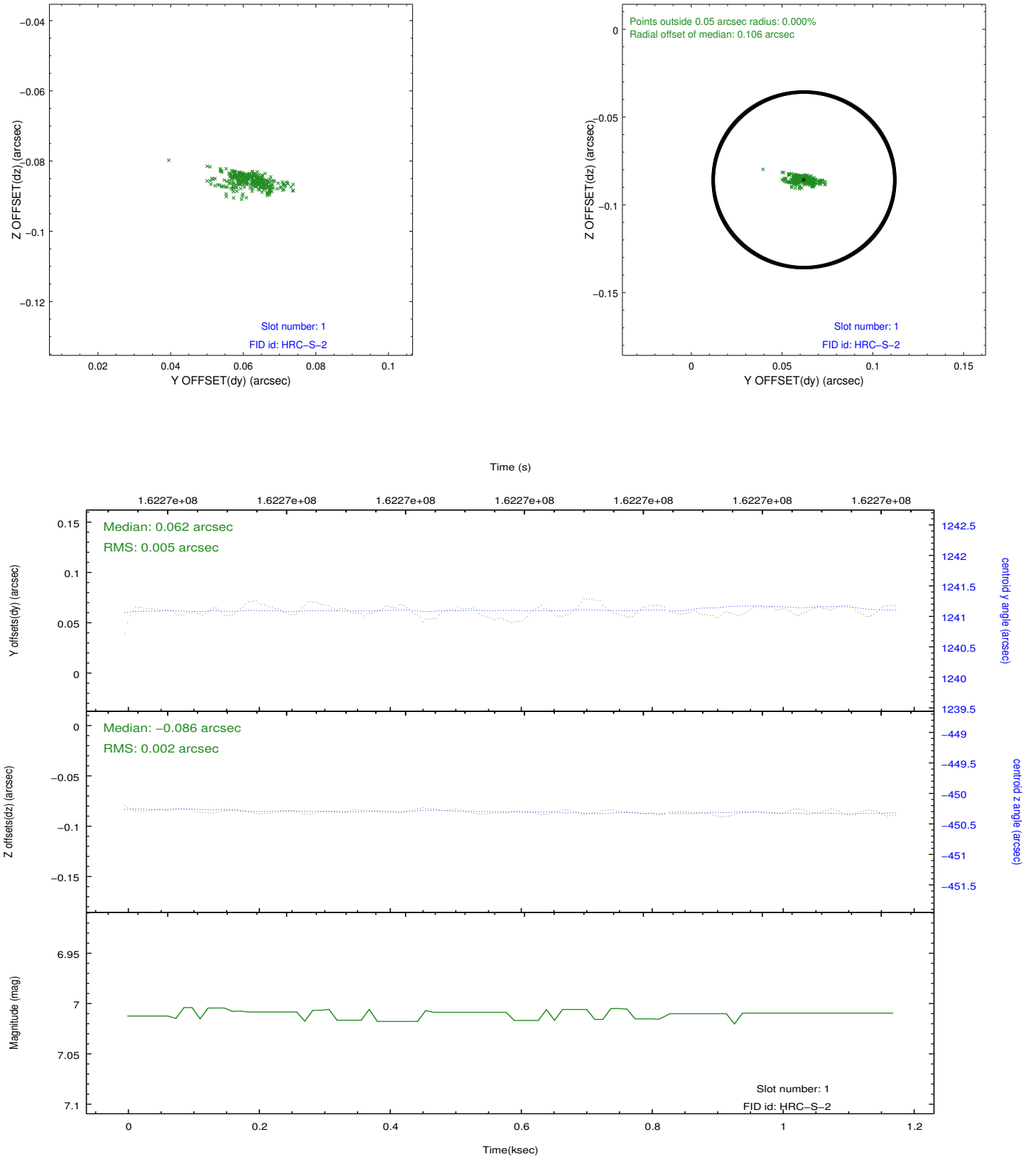


## 2.5 FID Slots

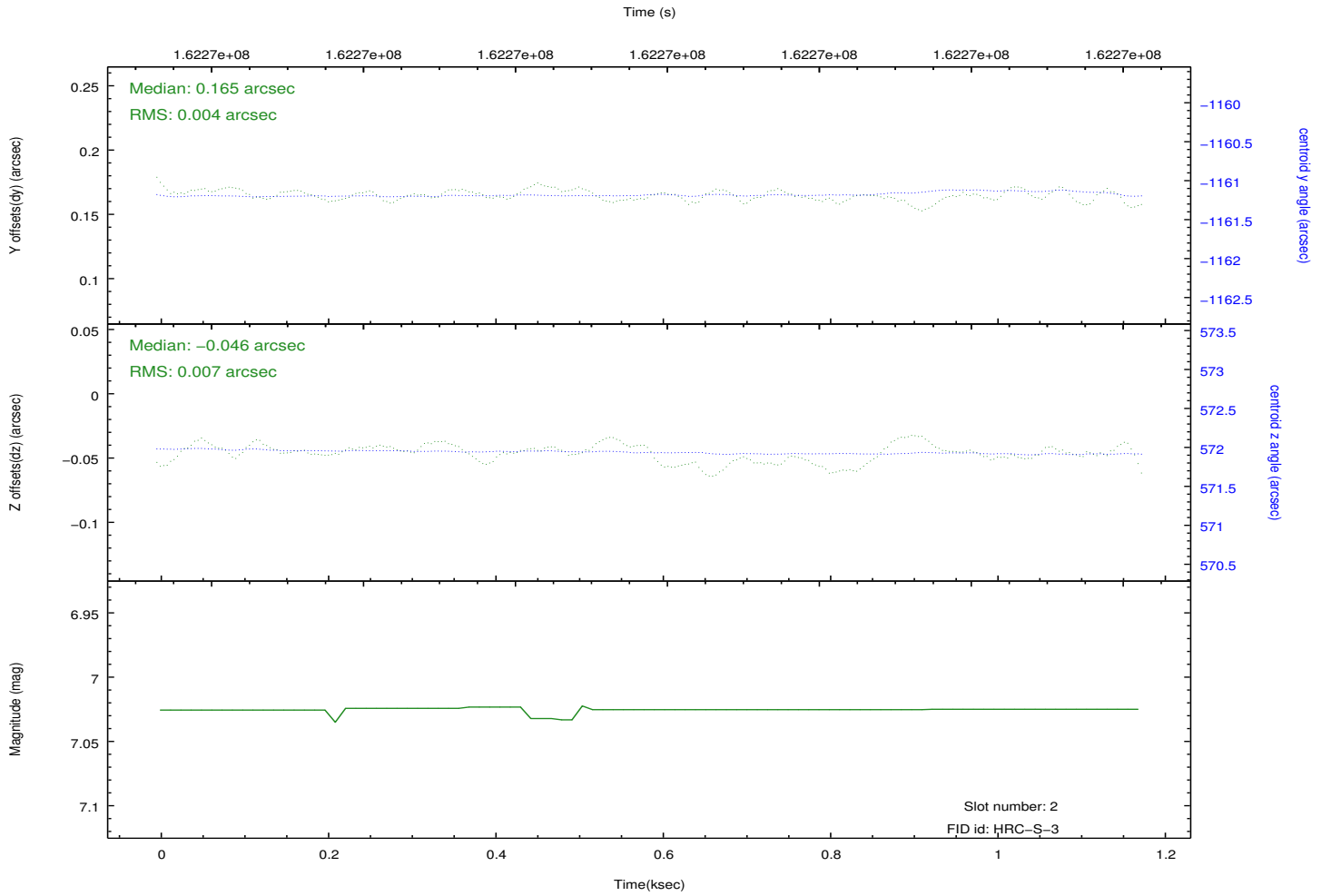
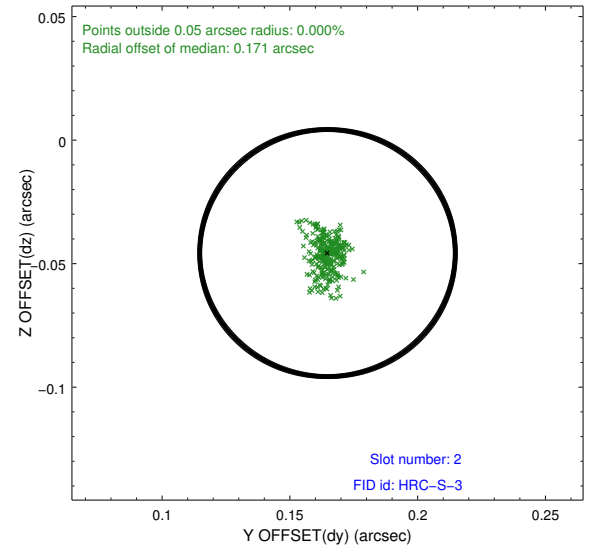
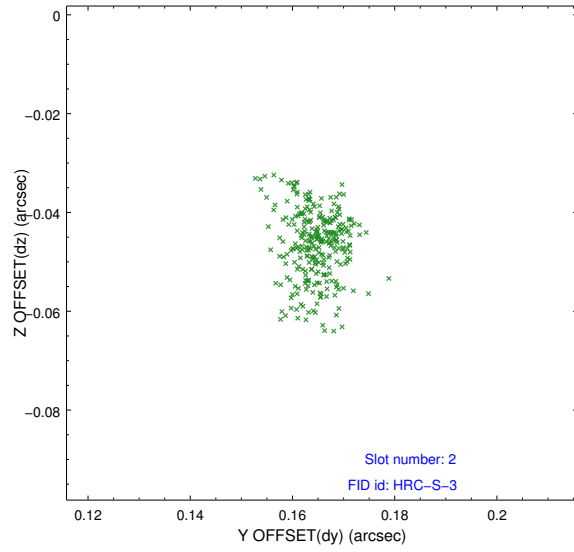
### 2.5.1 Slot 0



## 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)	2012.11.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.142

### **A.2 Comments**