

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 5118 - L2 Version 3  
Chandra X-Ray Center

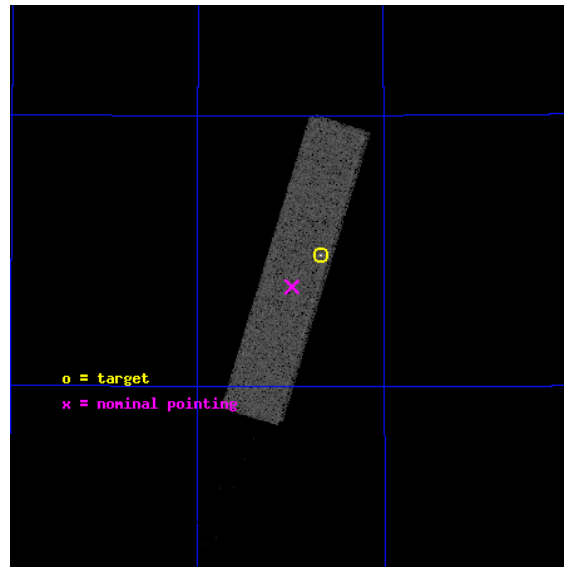
L2 Processing Date : Dec 12 2012

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# 1 Front

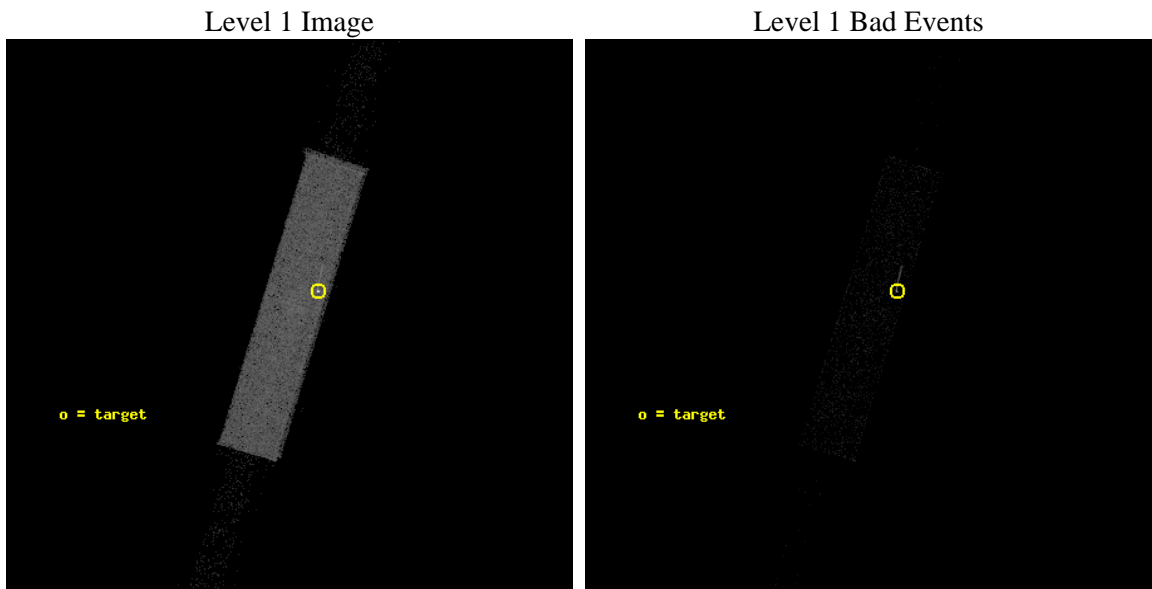
seq_num	290391	Sequence number
obs_id	5118	Observation id
title	AO5B Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.24709767459	Nominal RA [deg]
dec_nom	45.684163792357	Nominal Dec [deg]
roll_nom	287.03758053993	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1052.931297332	[s]
livetime	1046.1029396398	Ontime multiplied by DTCOR
l2events	46610	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	900.000000	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	1052.931297332	[s]
caldsver	4.5.4	&#160	l1events	78222	Number of level 1 events
date	2012-12-12T00:12:11	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

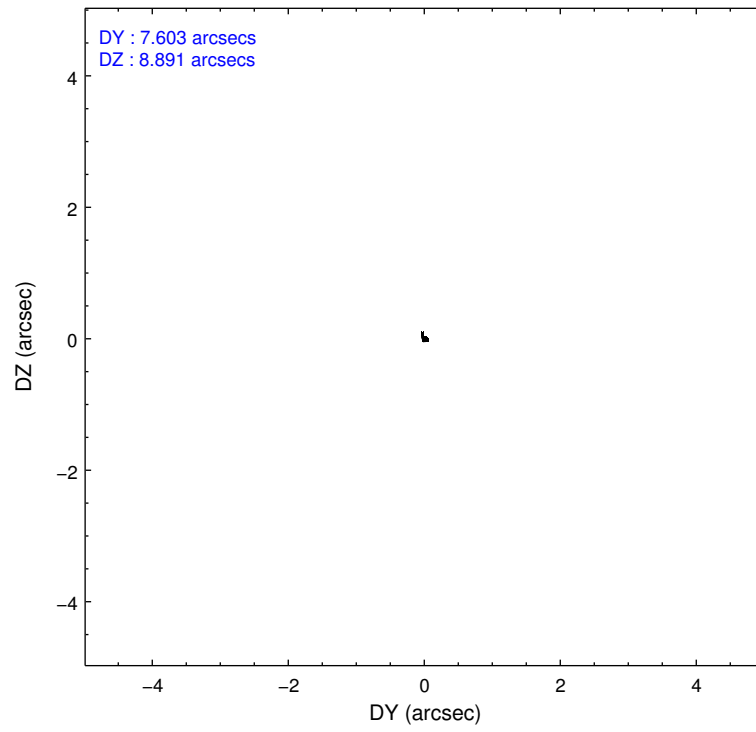
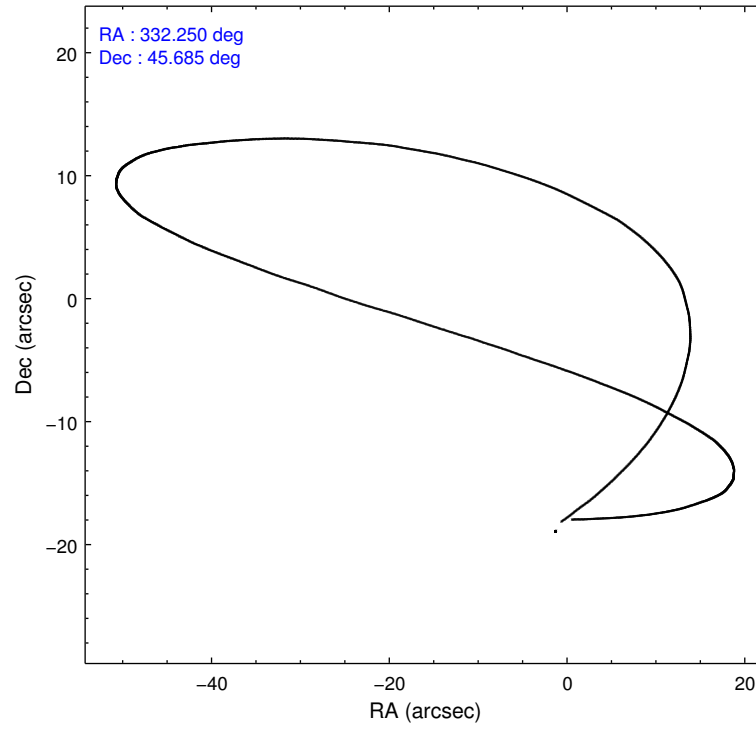
Level 1 Events

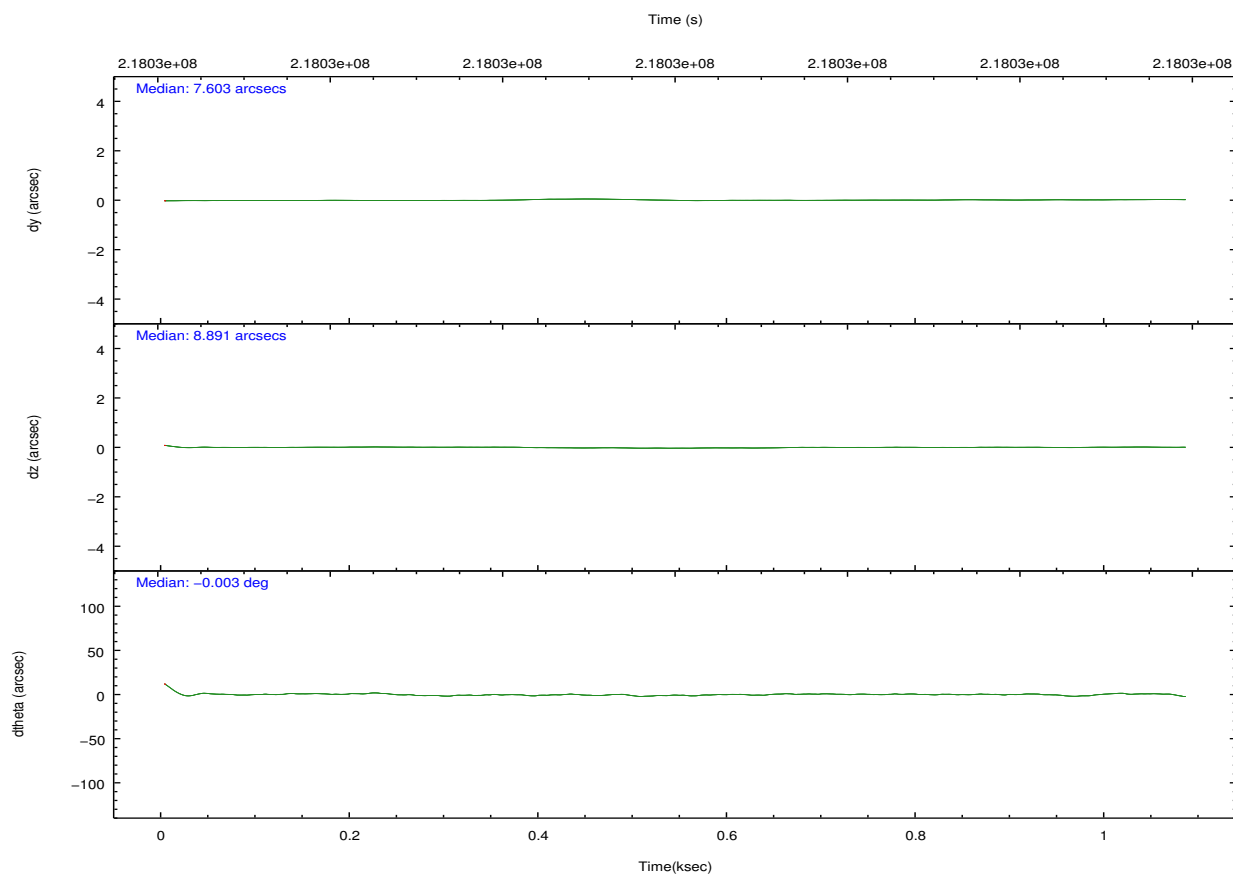
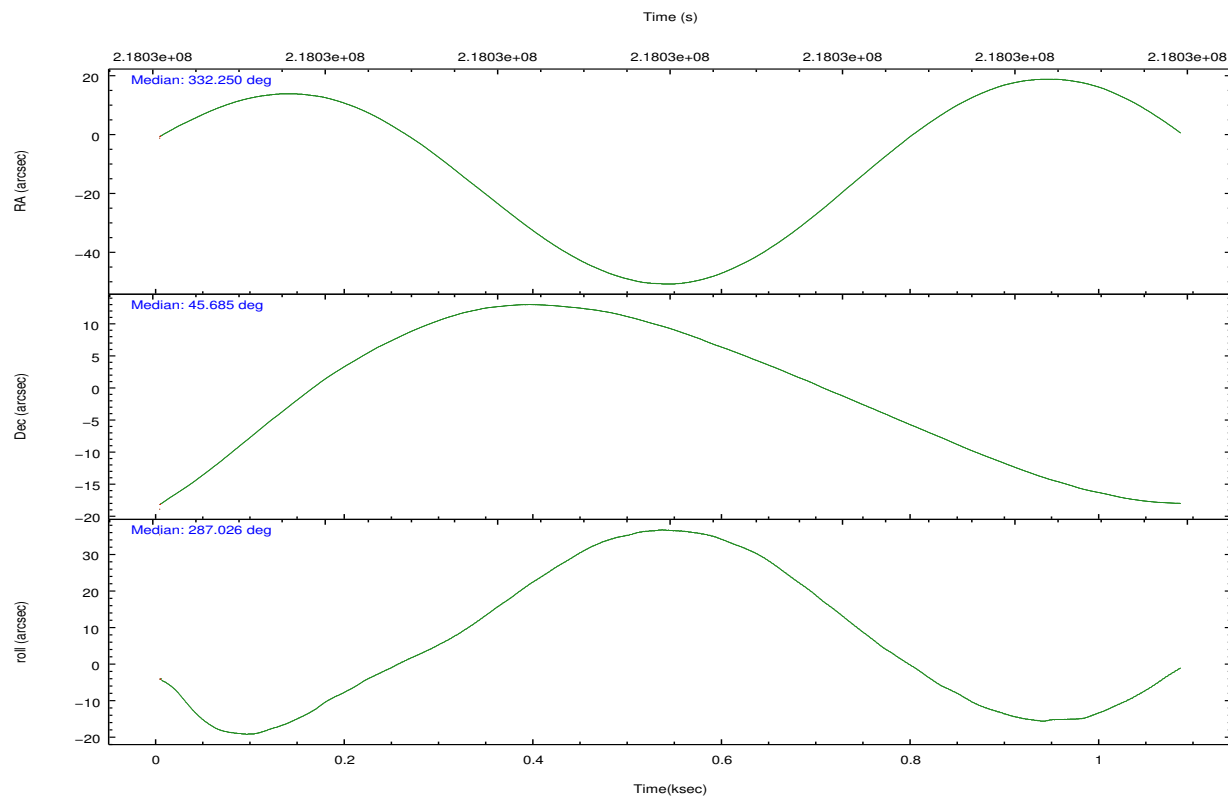
	segment 1	segment 2	segment 3
level 1 events	688	76799	735
rejected events	688	19097	717
rejected %	100%	24%	97%

## 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	332.214036	332.2470976745864			
[deg] Pointing Dec	45.702214	45.68416379235745			
[deg] Pointing Roll	286.993912	287.0375805399344			
[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)	218031243.184000	218030866.73174			
Observation start date	2004-11-28T12:12:59	2004-11-28T12:07:46			
[s] Observation end time (MET)	218032143.184000	218032276.61931			
Observation end date	2004-11-28T12:27:59	2004-11-28T12:31:16			

## 2.3 Aspect





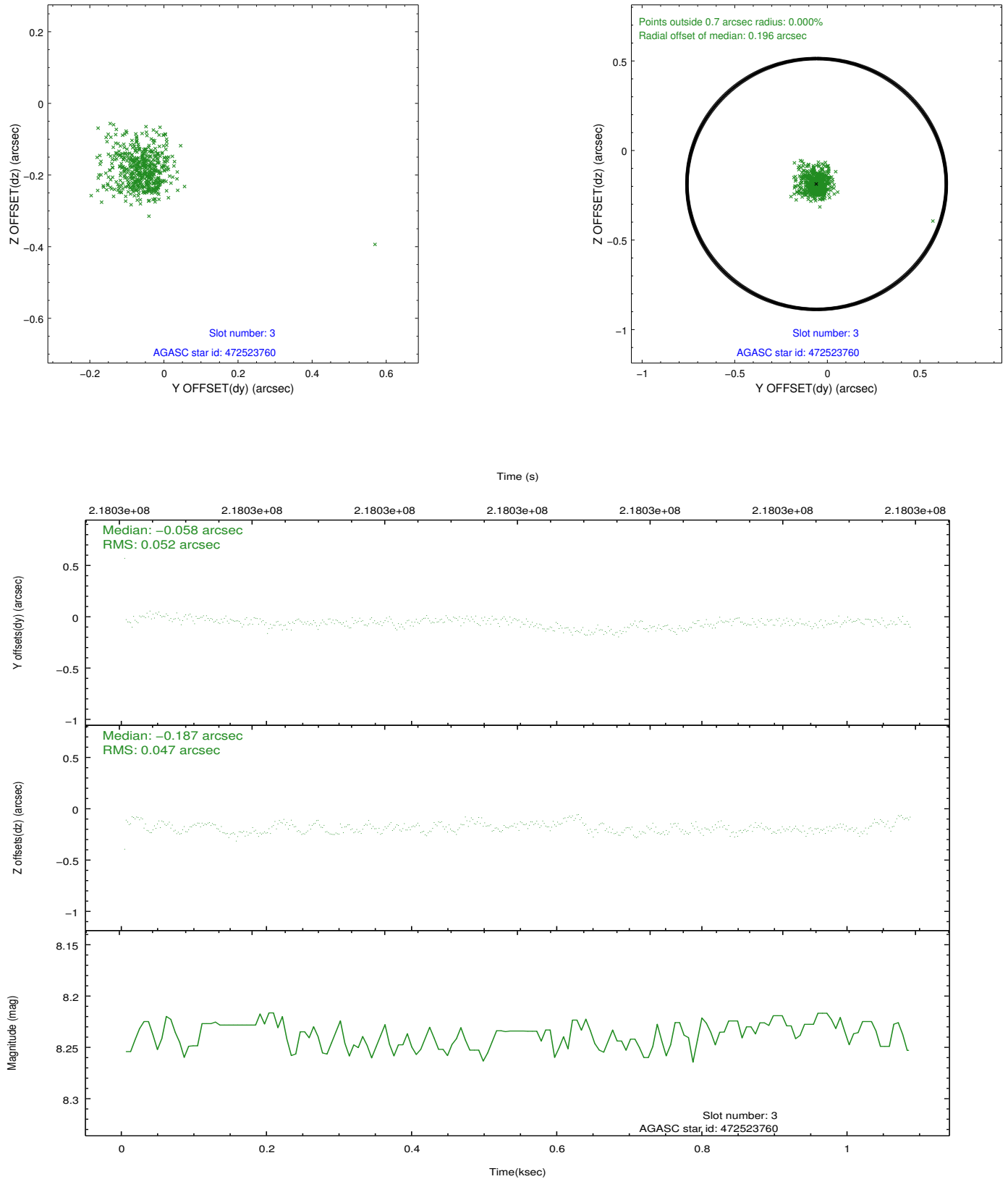
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.04	264	0.108	-0.170	0.006	0.008	0.000000	0.000000	-1161.80	-457.55
1	FID	HRC-S-3	7.04	264	0.056	-0.036	0.007	0.012	0.000000	0.000000	-1168.97	570.38
2	FID	HRC-S-4	7.01	265	0.223	-0.091	0.005	0.008	0.000000	0.000000	1232.17	576.77
3	GUIDE	472523760	8.24	529	-0.058	-0.187	0.065	0.115	331.645363	45.403260	604.96	-1692.22
4	GUIDE	472654568	9.43	526	0.088	0.009	0.144	0.234	332.194449	45.063576	2186.05	-726.76
5	GUIDE	472655152	9.44	529	0.020	0.073	0.103	0.165	332.504239	45.862991	-337.66	859.56
6	GUIDE	472659832	9.46	529	-0.073	0.069	0.102	0.185	332.780399	46.098139	-955.28	1767.27
7	GUIDE	472527720	7.00	528	0.022	0.030	0.116	0.185	331.460205	45.112509	1461.09	-2450.20

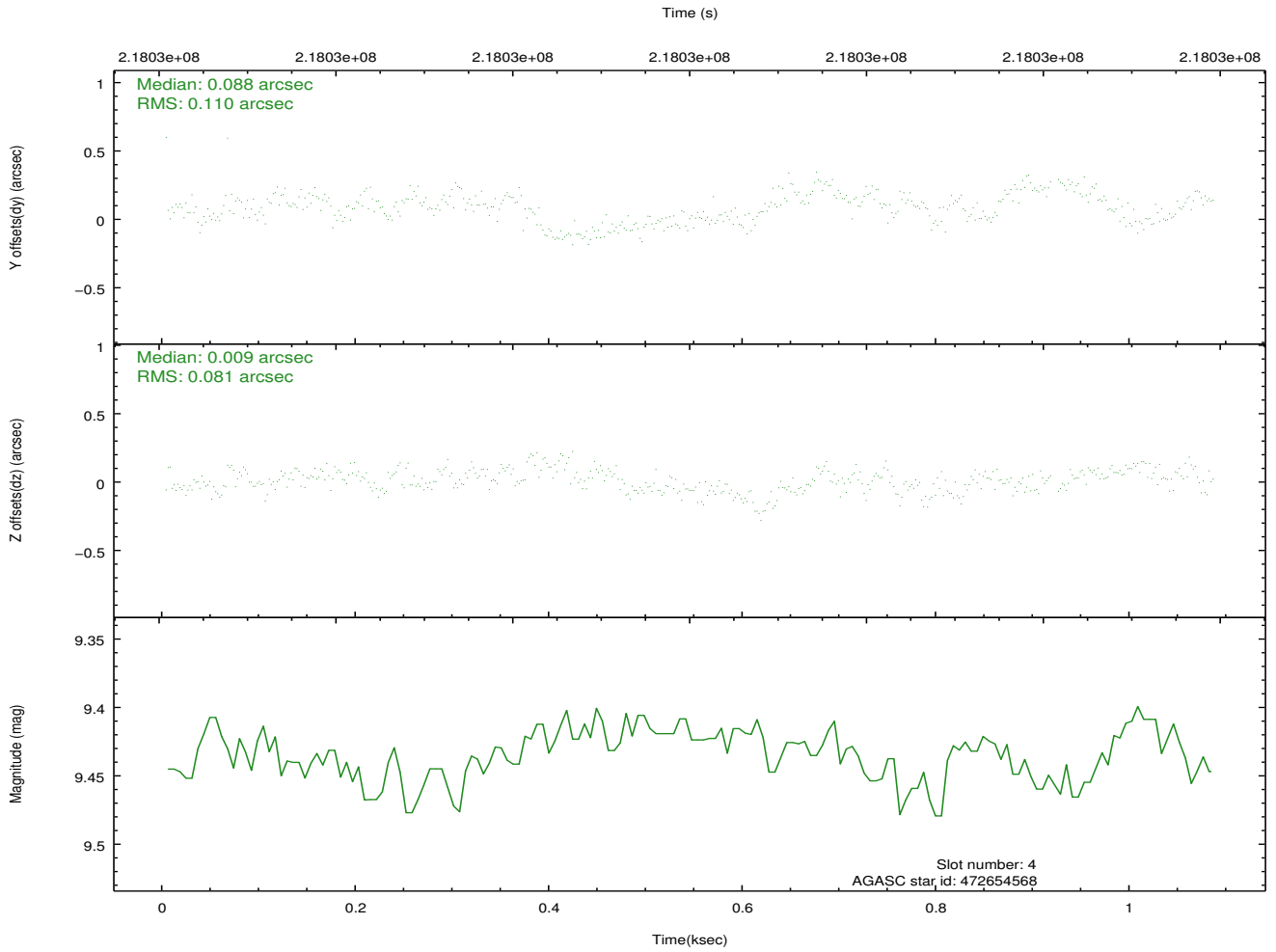
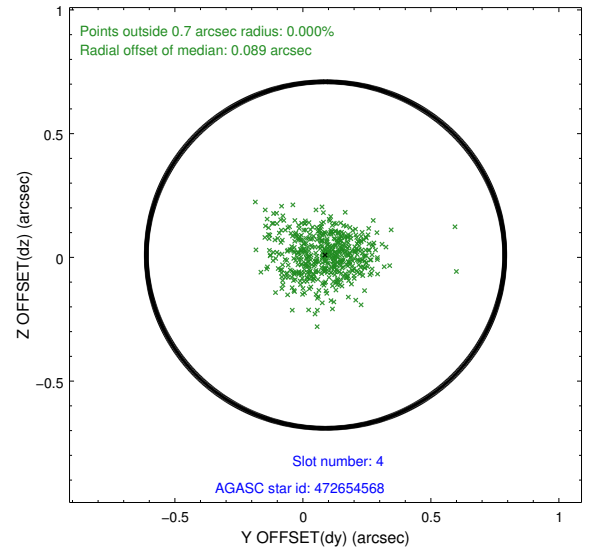
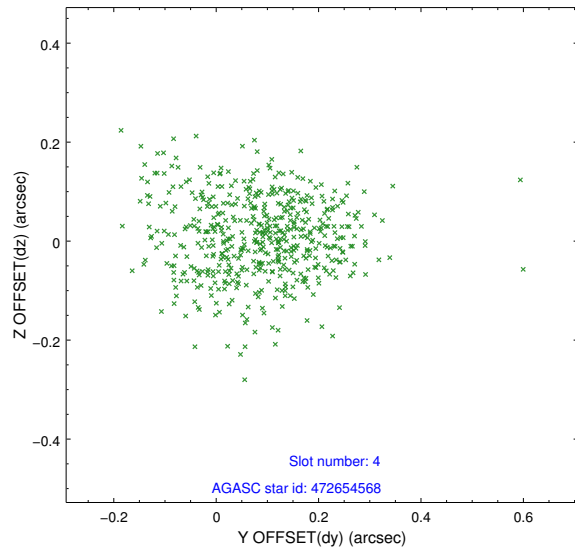


## 2.4 Star Slots

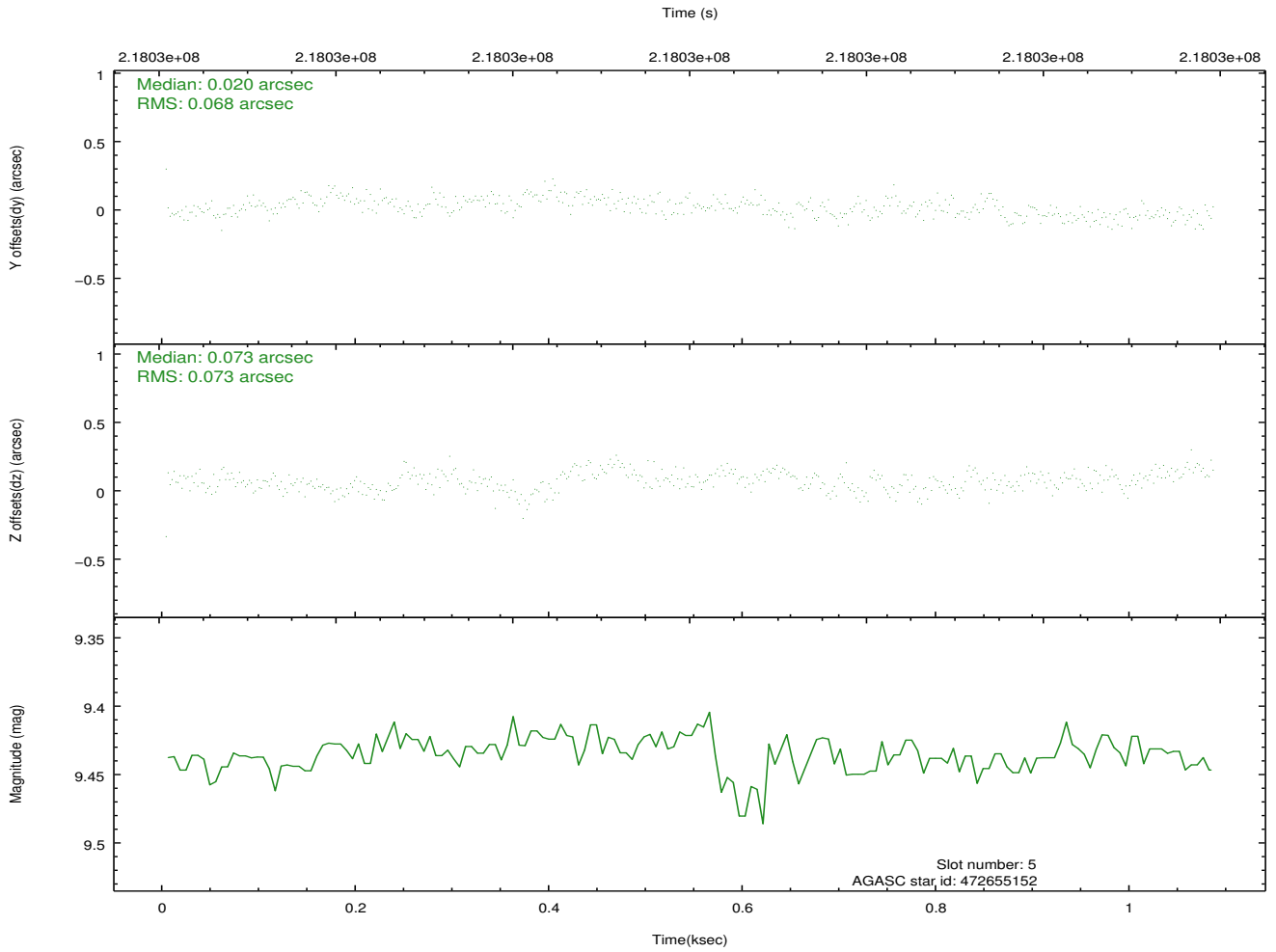
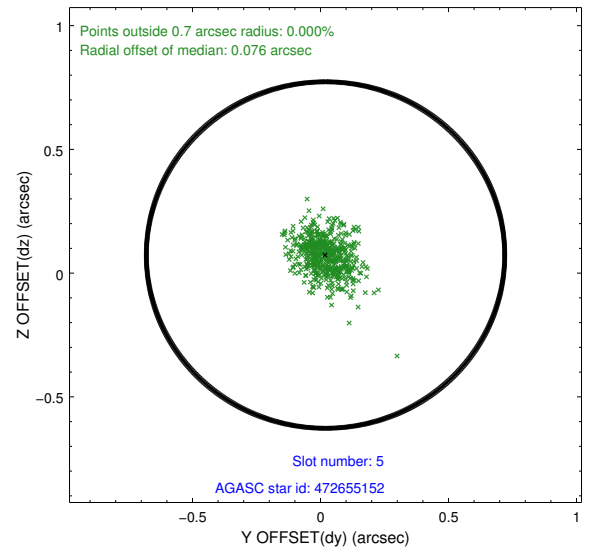
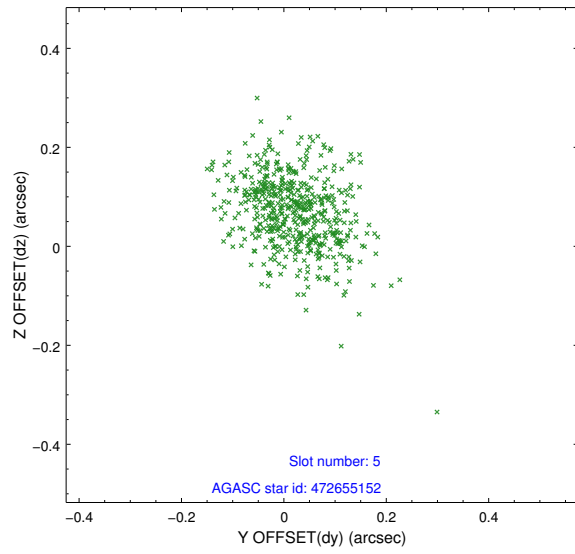
### 2.4.1 Slot 3



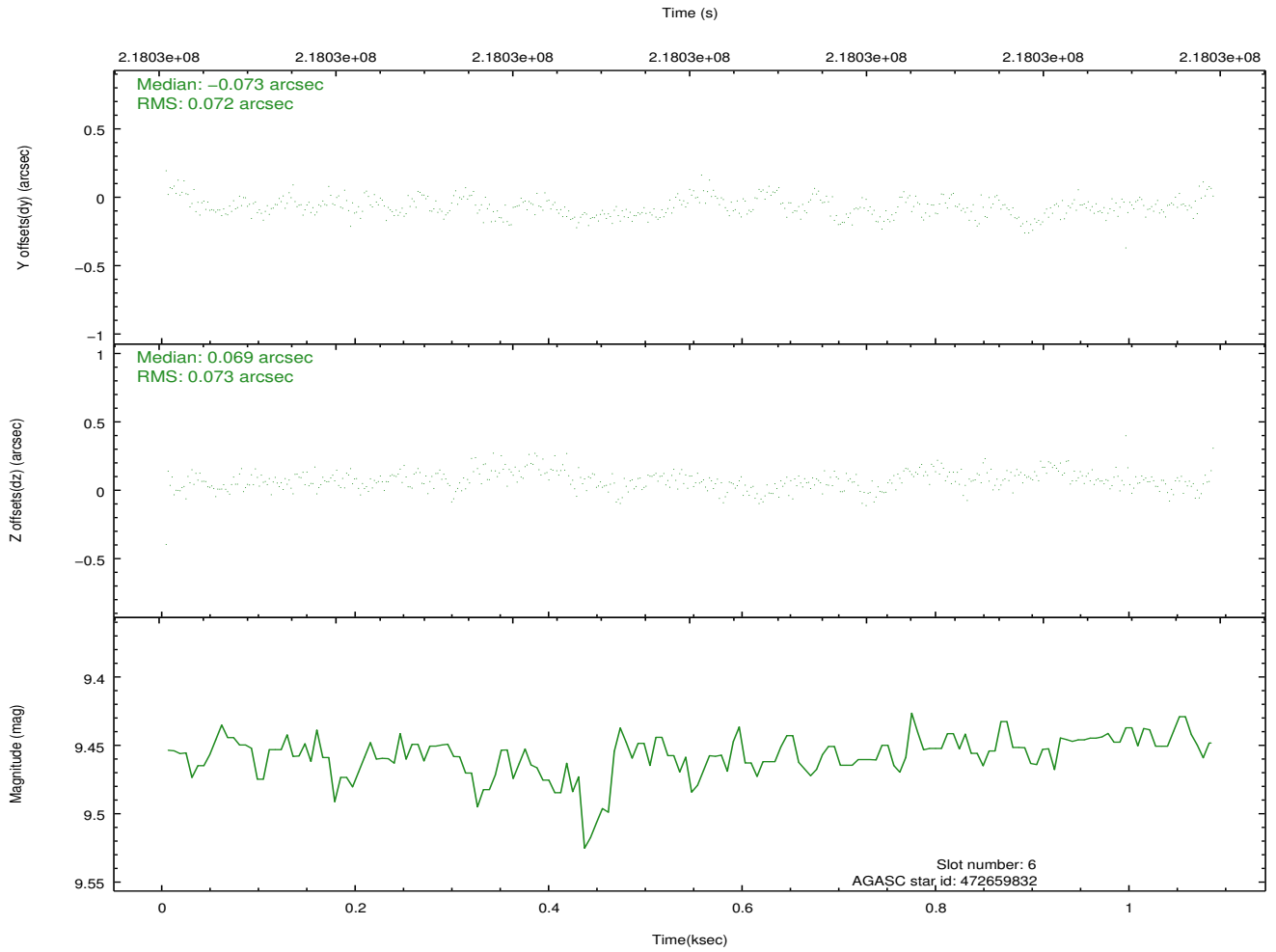
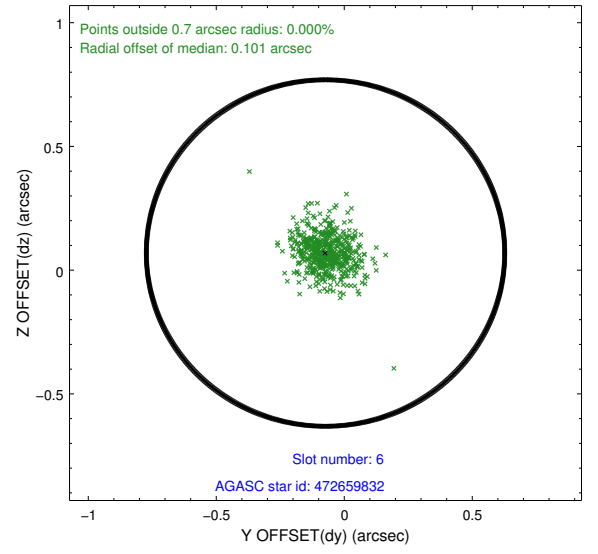
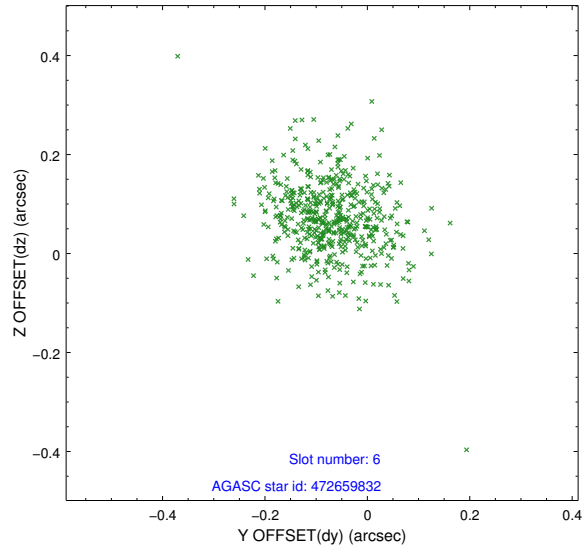
## 2.4.2 Slot 4



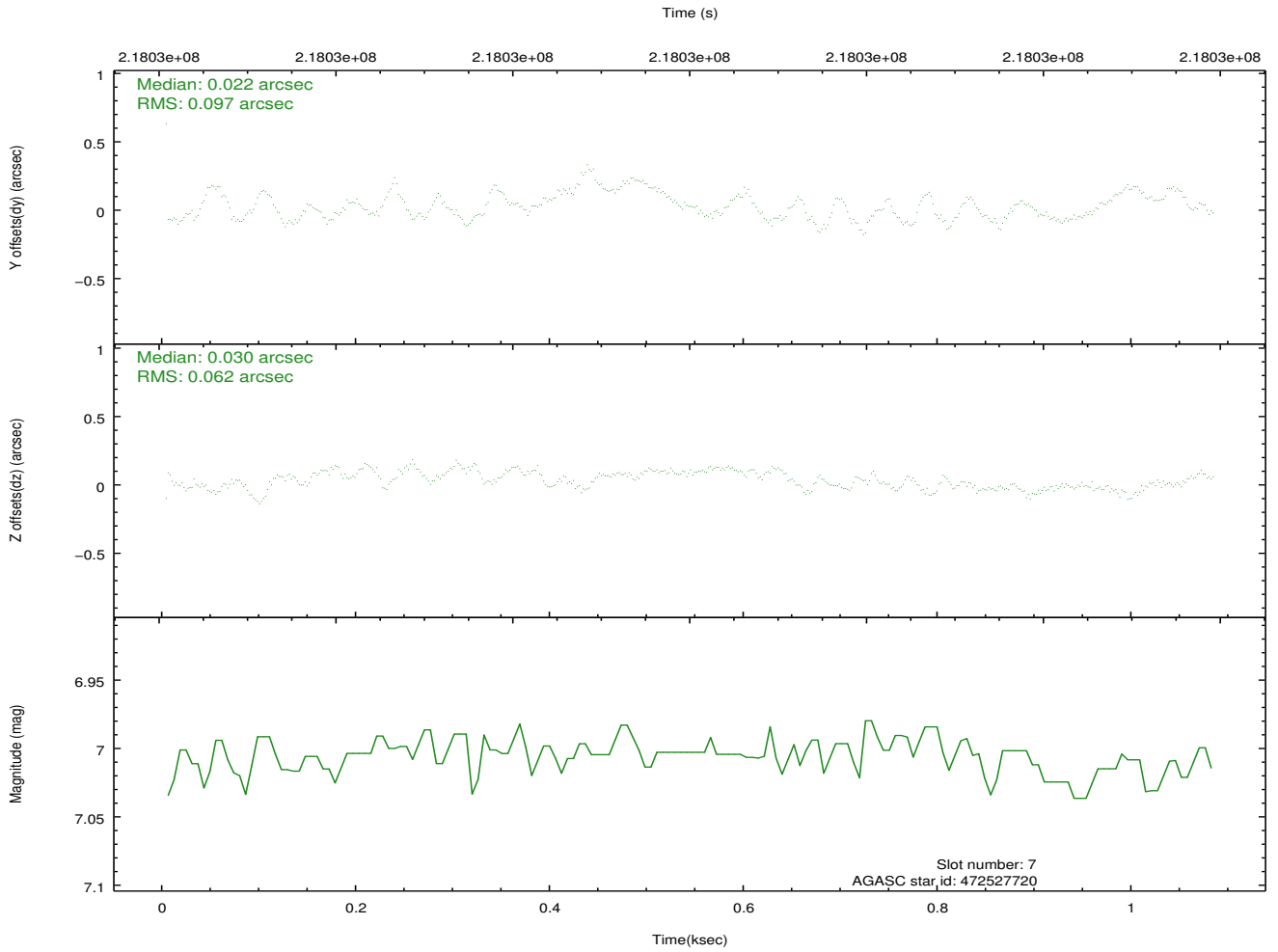
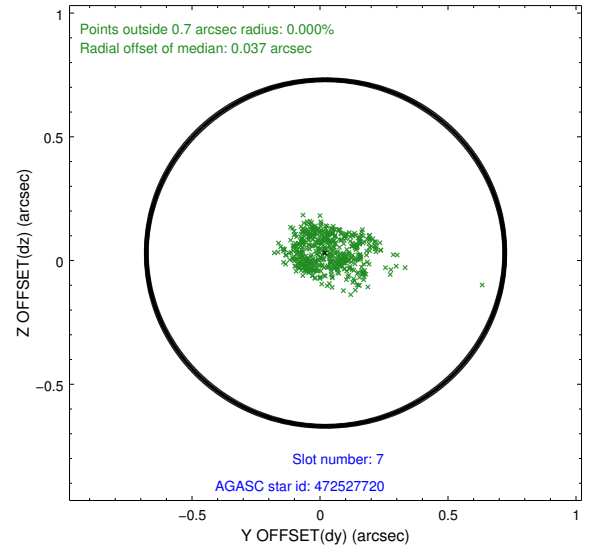
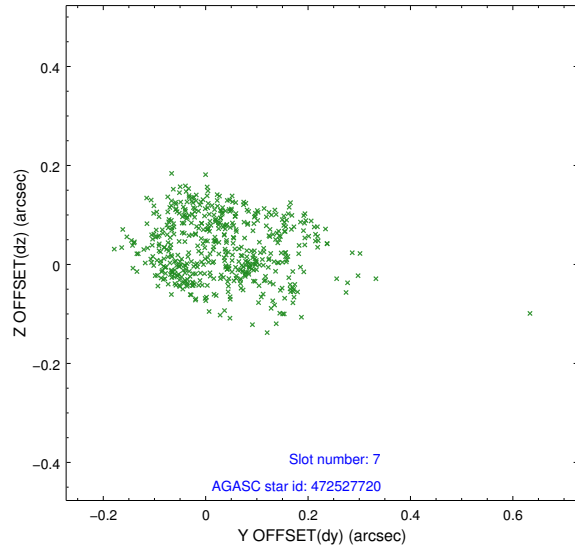
### 2.4.3 Slot 5



## 2.4.4 Slot 6

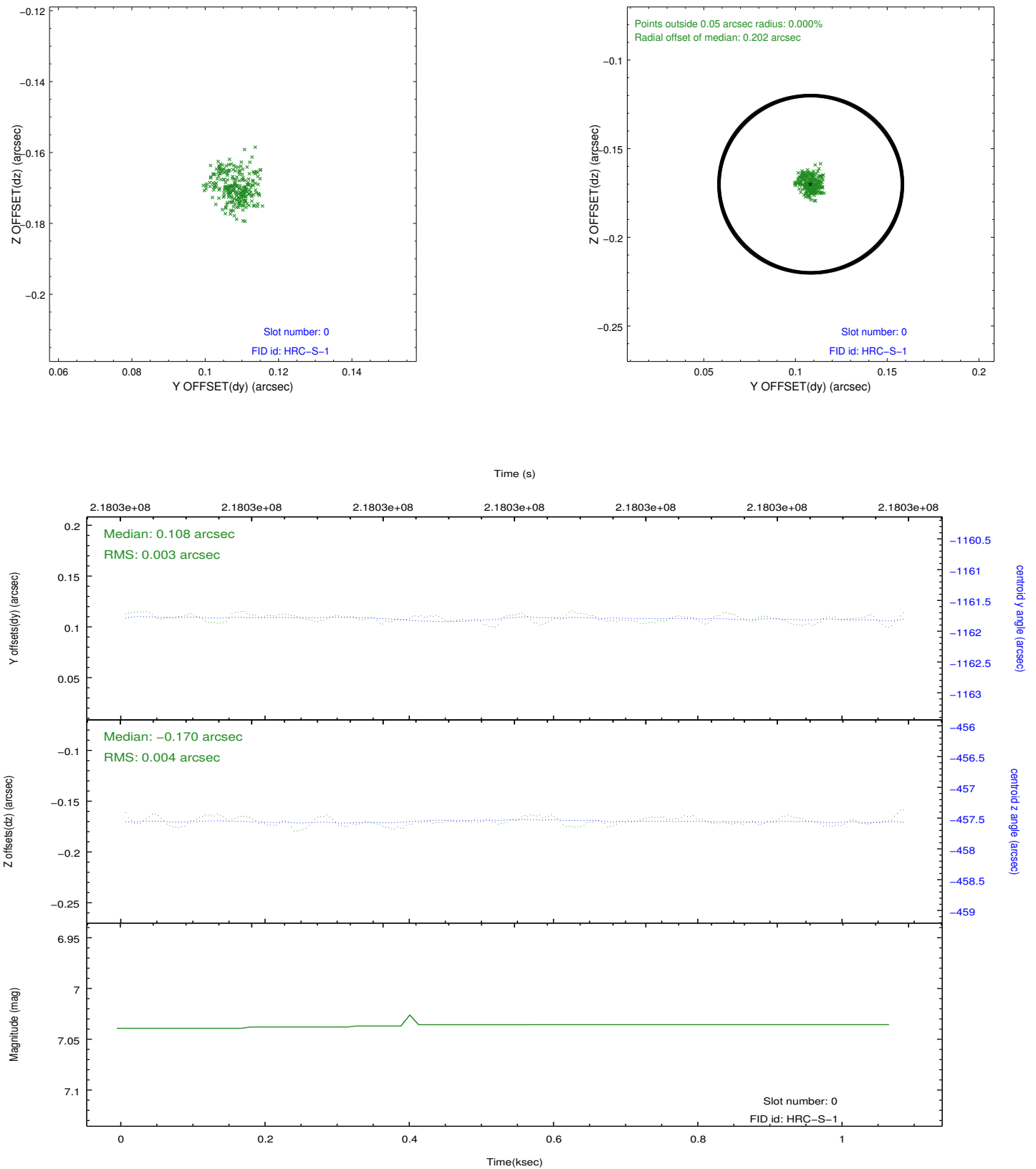


## 2.4.5 Slot 7

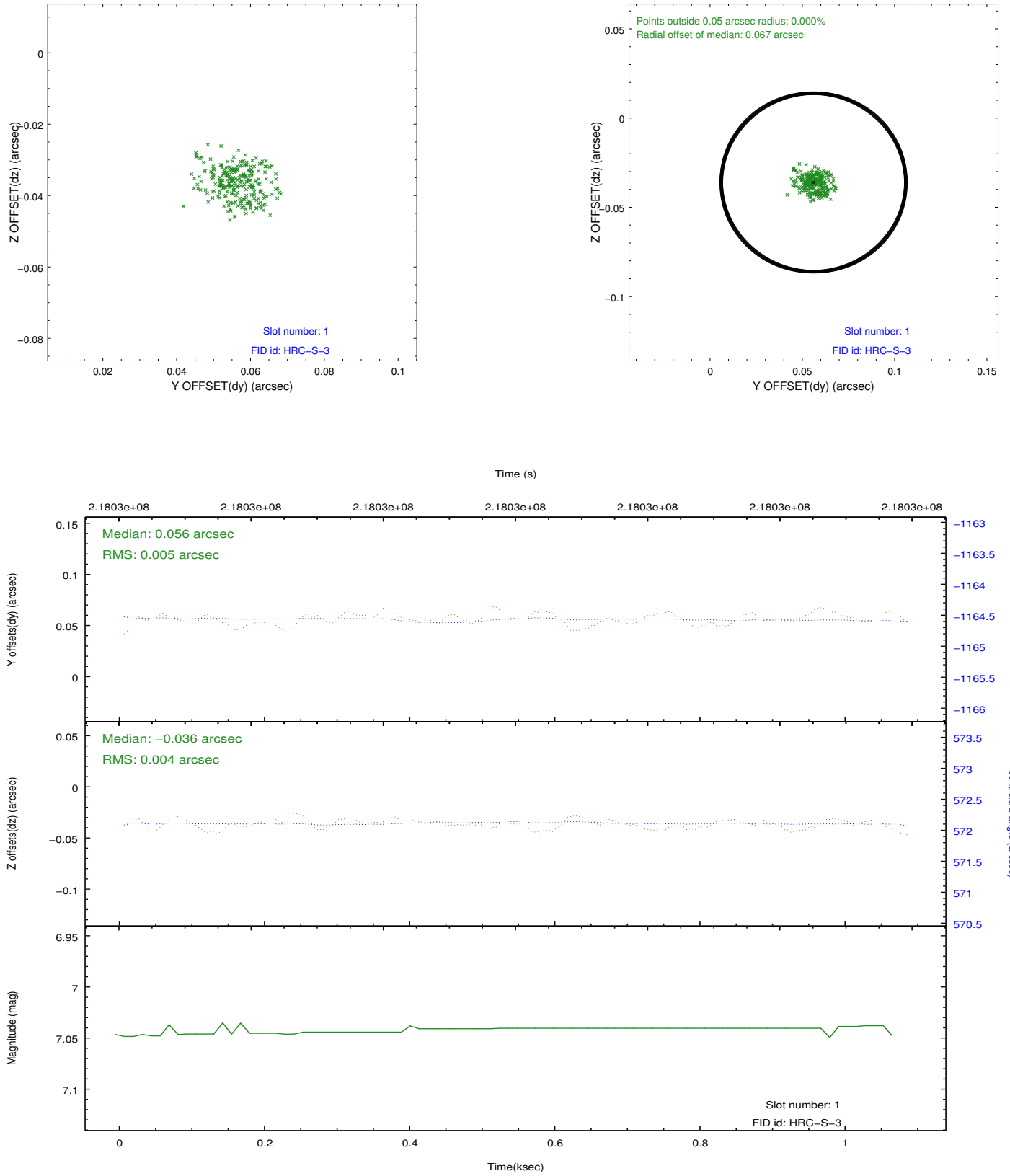


## 2.5 FID Slots

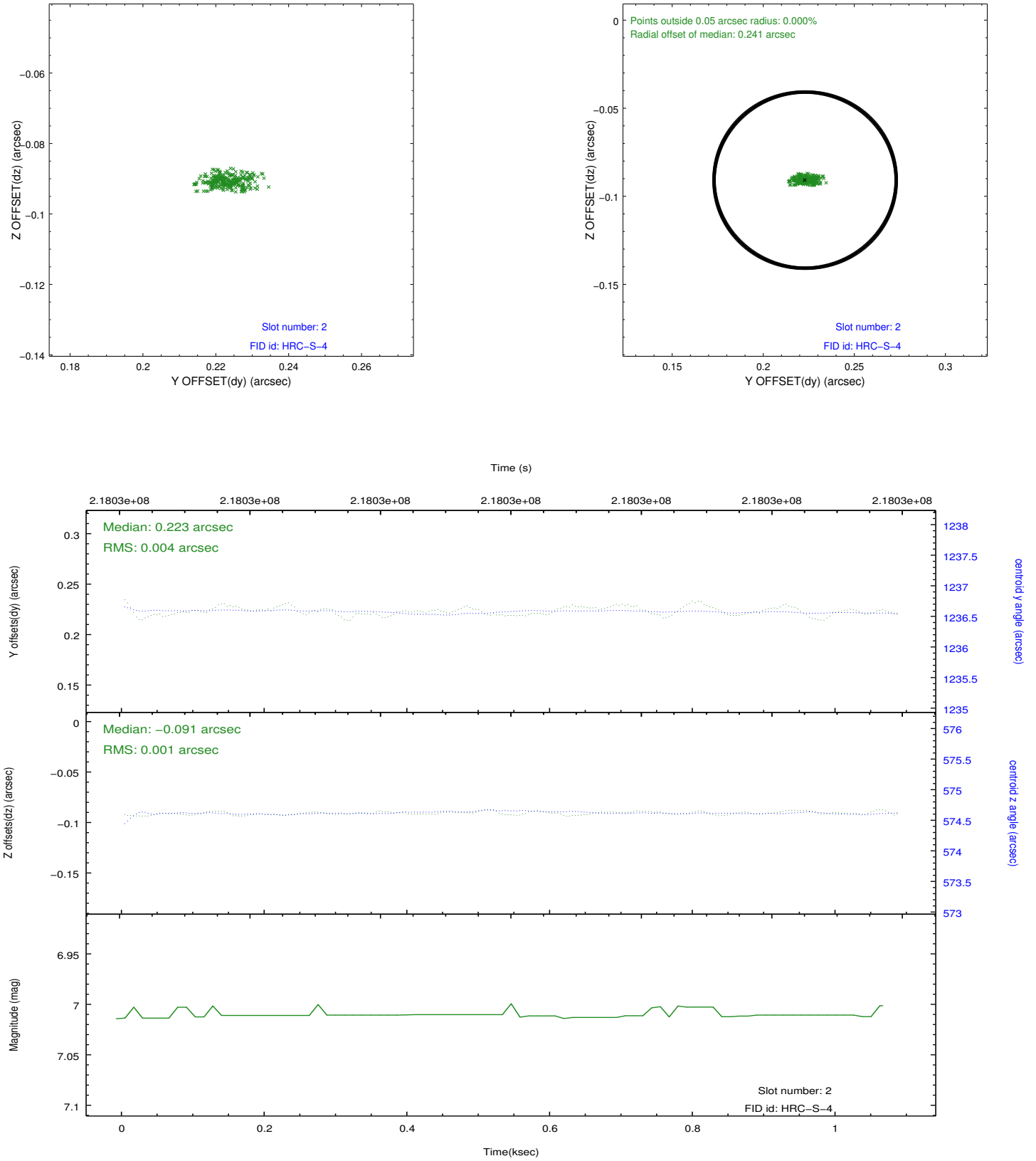
### 2.5.1 Slot 0



## 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)	2013.01.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.052931

### A.2 Comments