

# V&V Reference Report

## L2 ASCDS Version : 10.6

Observation 19833 - L2 Version 1  
Chandra X-Ray Center

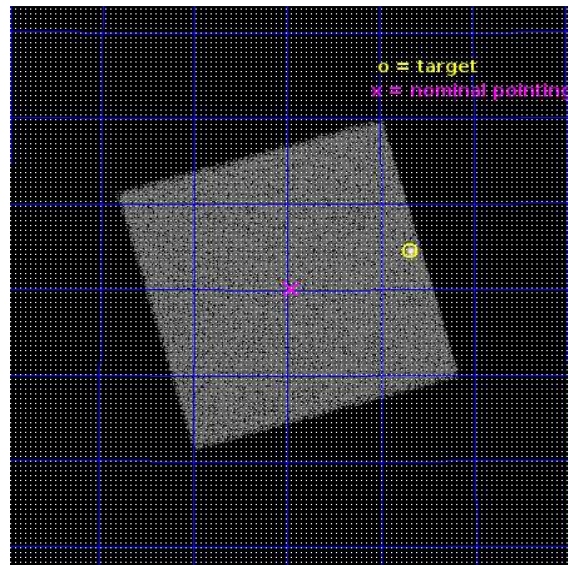
L2 Processing Date : Sep 18 2017

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# 1 Front

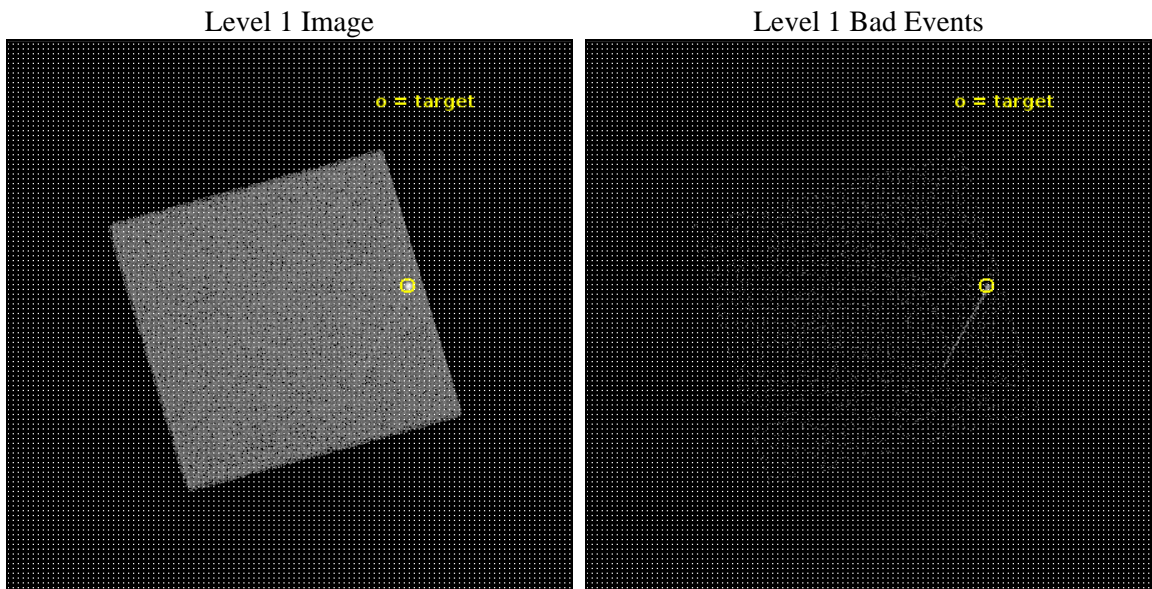
seq_num	291350	Sequence number
obs_id	19833	Observation id
title	AO-18 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.48893735871	Nominal RA [deg]
dec_nom	45.669073863569	Nominal Dec [deg]
roll_nom	208.9368895285	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1182.0813192129	[s]
livetime	1167.5917750534	Ontime multiplied by DTCOR
l2events	125949	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	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	1182.0813192129	[s]
caldsver	4.7.6	&#160	l1events	210832	Number of level 1 events
date	2017-09-18T03:52:01	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

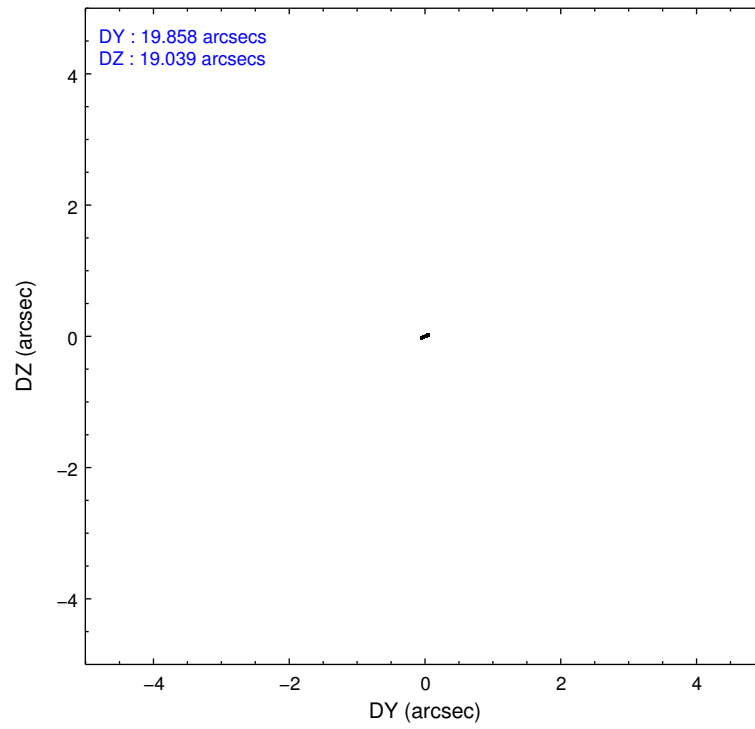
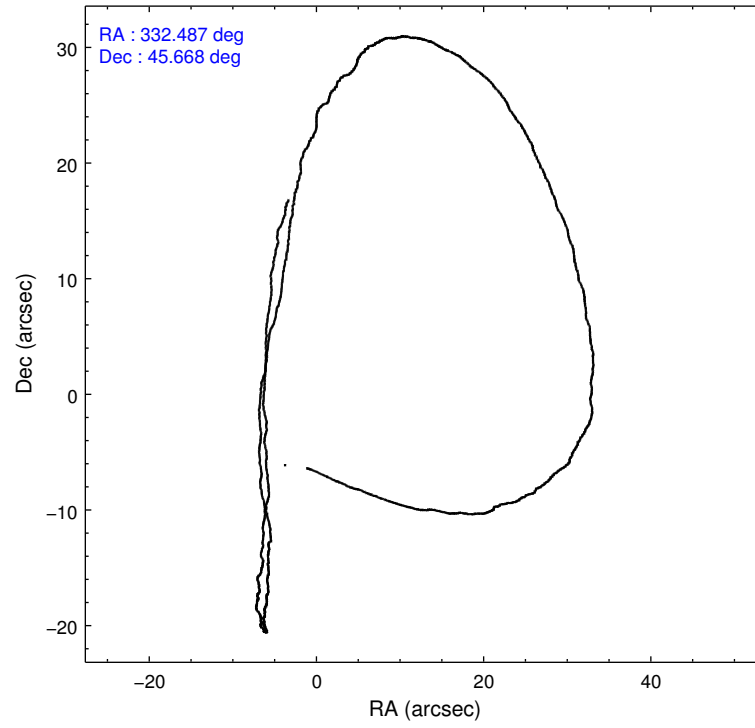
#### Level 1 Events

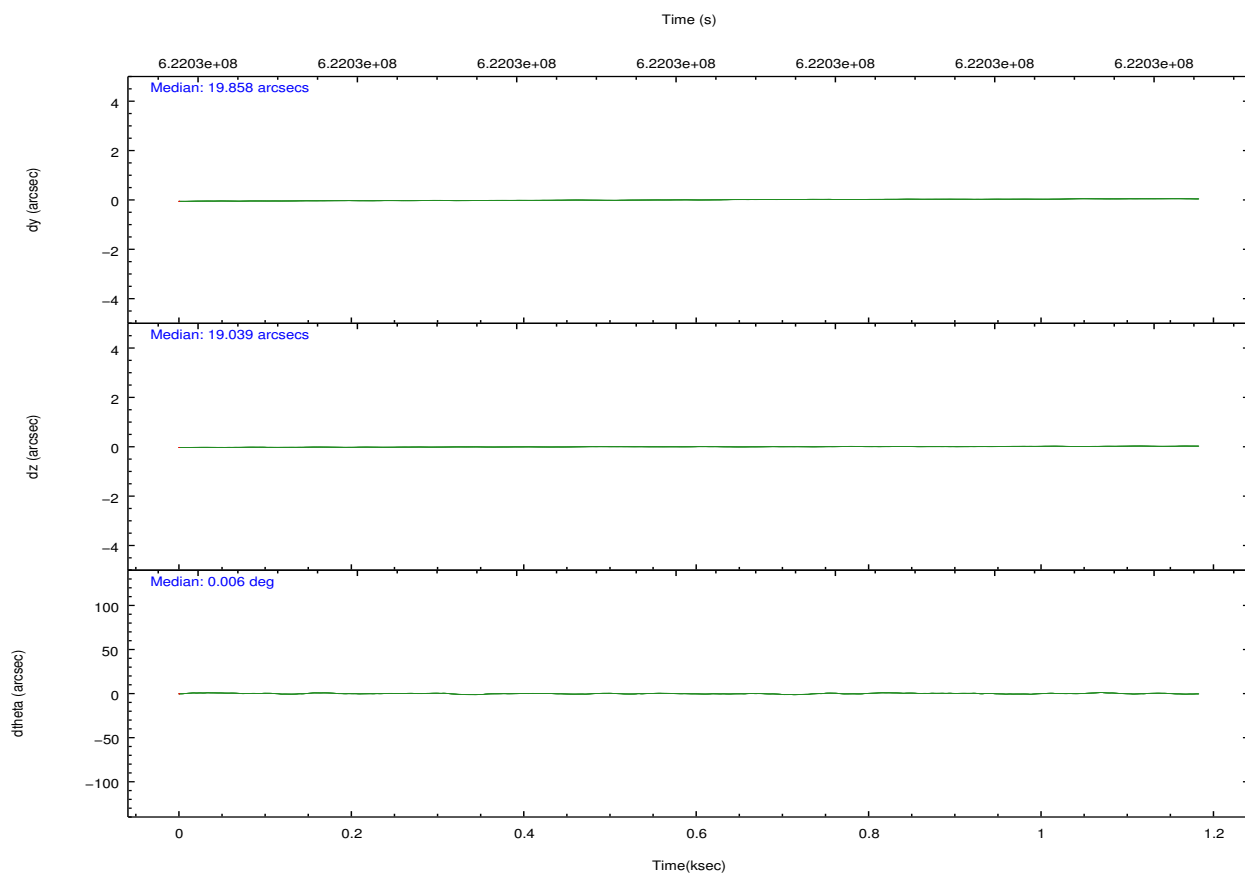
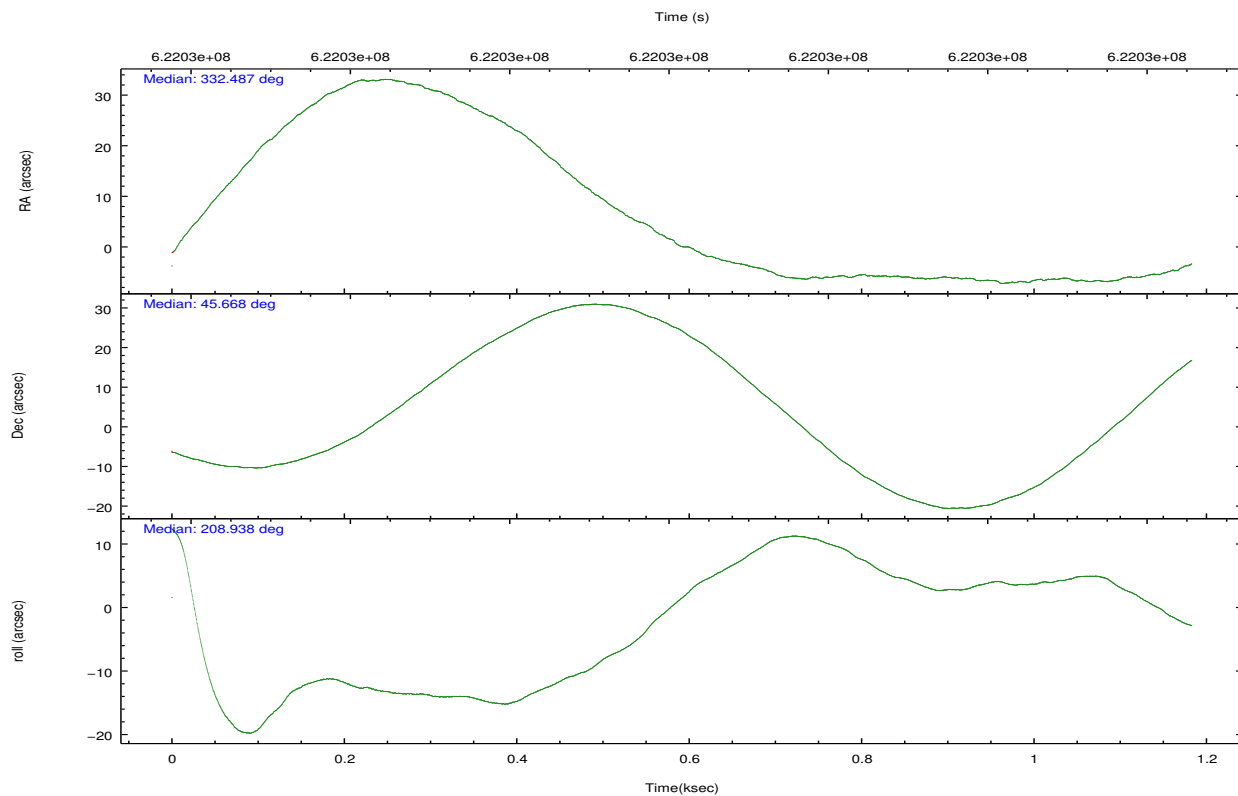
	<b>segment 0</b>
level 1 events	210832
rejected events	45630
rejected %	21%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
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			
[deg] Pointing RA	332.507766	332.4889373587072			
[deg] Pointing Dec	45.693779	45.66907386356949			
[deg] Pointing Roll	209.018521	208.9368895284981			
[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)	622032798.184000	622032422.59206			
Observation start date	2017-09-17T10:52:09	2017-09-17T10:47:02			
[s] Observation end time (MET)	622033798.184000	622033932.41715			
Observation end date	2017-09-17T11:08:49	2017-09-17T11:12:12			

## 2.3 Aspect





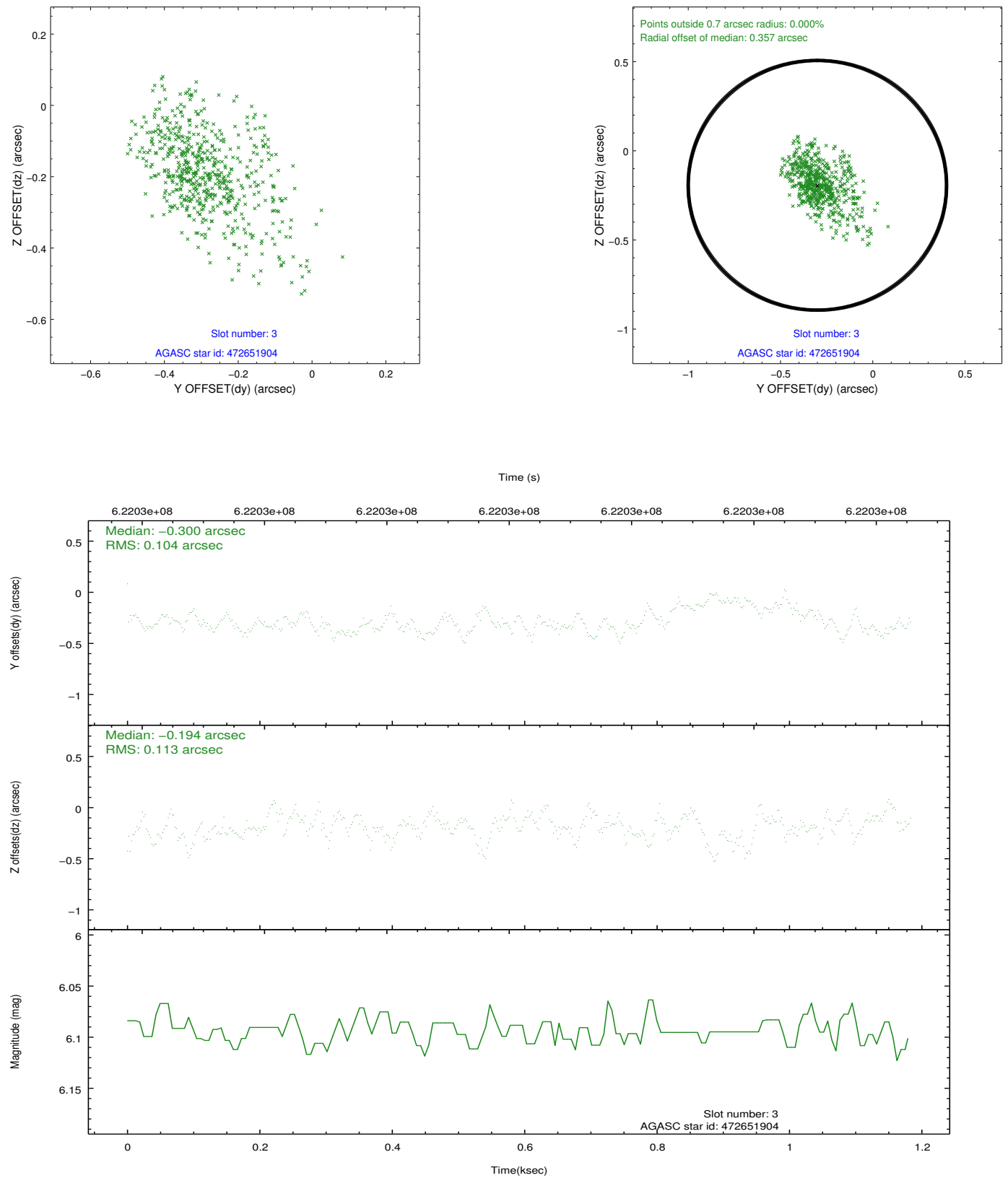
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-2	7.06	289	0.065	-0.100	0.006	0.011	0.000000	0.000000	836.97	-1308.87
1	FID		HRC-I-3	7.11	289	-0.308	0.008	0.006	0.011	0.000000	0.000000	-1201.73	992.75
2	FID		HRC-I-4	7.04	289	0.360	0.005	0.006	0.010	0.000000	0.000000	1263.16	998.43
3	GUIDE	used	472651904	6.09	578	-0.300	-0.194	0.163	0.280	332.170077	45.742257	656.60	-570.68
4	GUIDE	used	472655152	9.39	575	0.143	-0.065	0.238	0.404	332.504239	45.862991	-286.34	-541.33
5	GUIDE	used	472665256	8.96	577	0.279	-0.022	0.155	0.248	332.808125	46.195041	-1530.67	-1220.65
6	GUIDE	used	472523760	8.23	577	-0.339	0.026	0.152	0.247	331.645363	45.403260	2405.14	-158.70
7	GUIDE	used	472659736	9.32	574	0.196	0.278	0.220	0.359	332.848312	46.590160	-2298.70	-2418.49

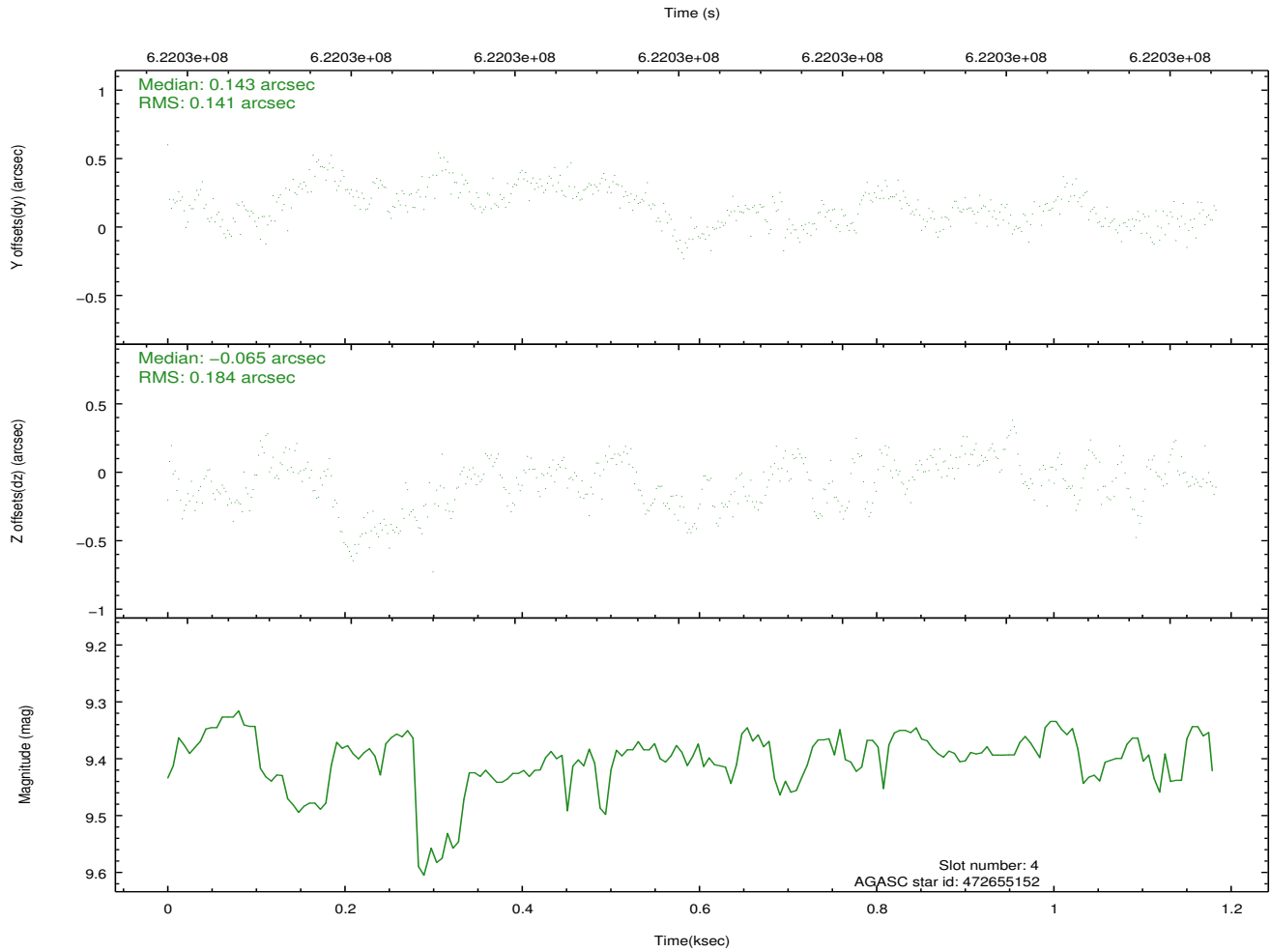
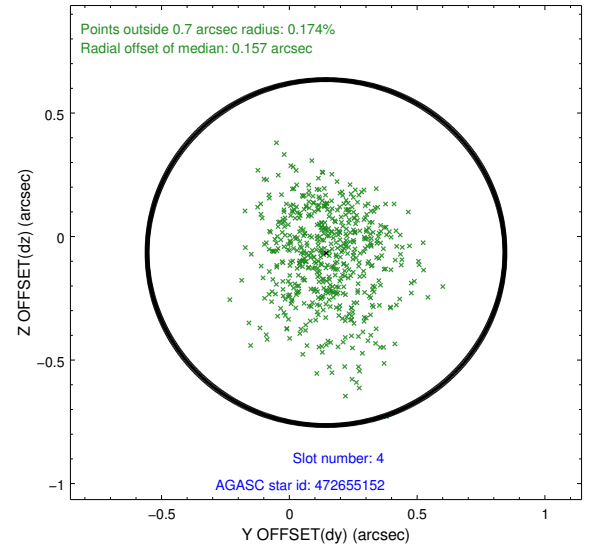
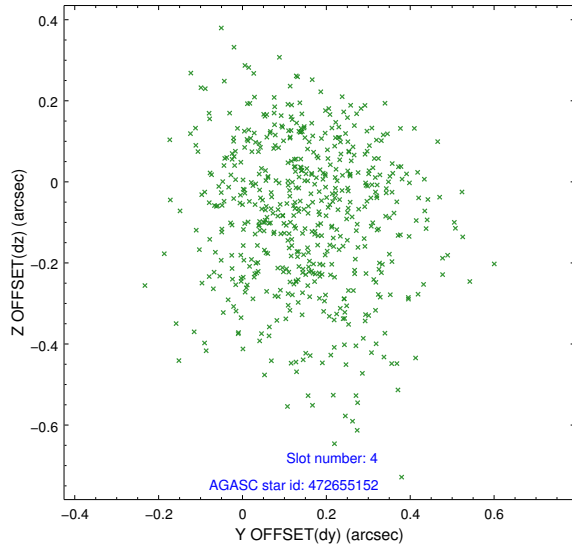


## 2.4 Star Slots

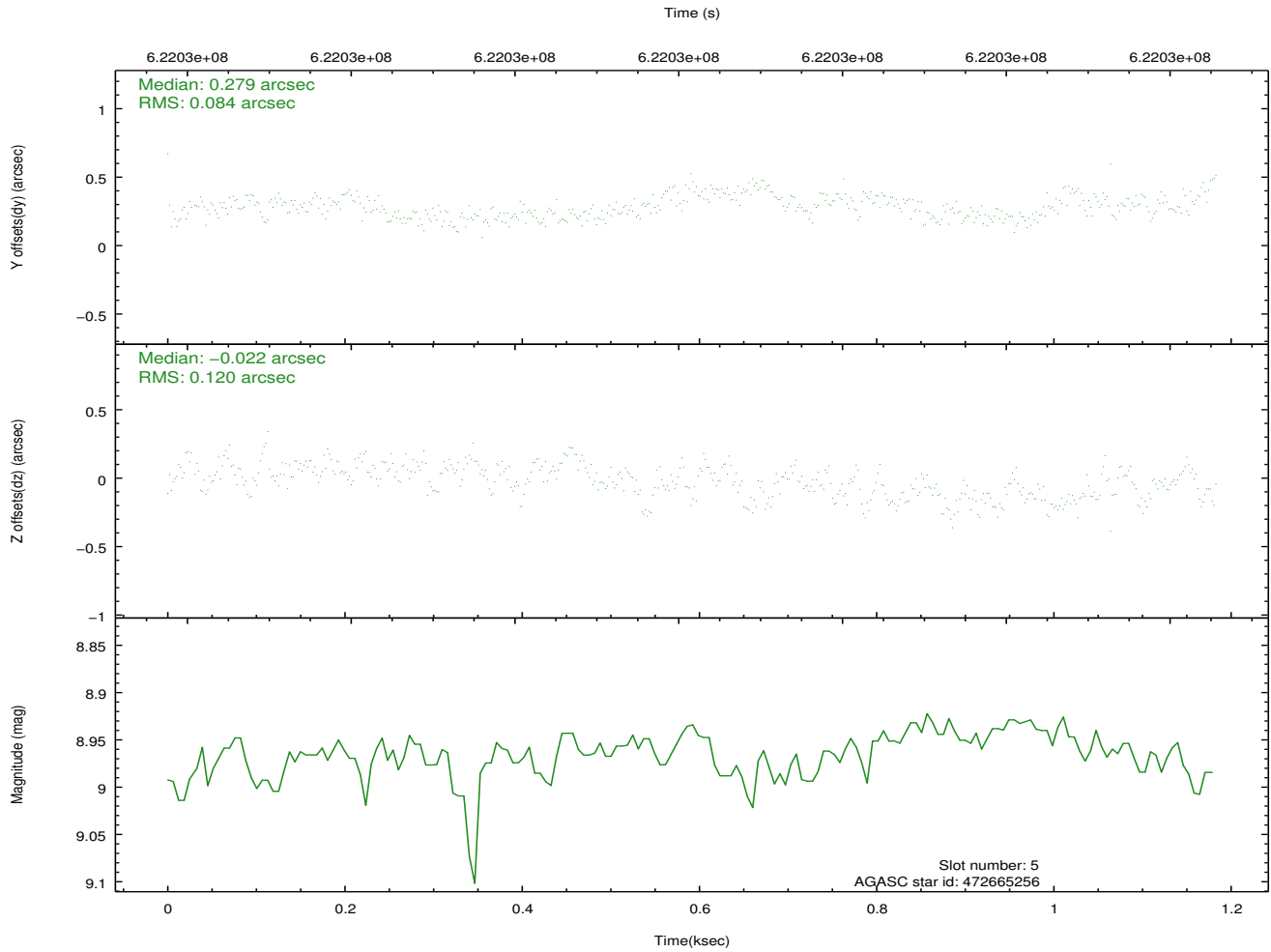
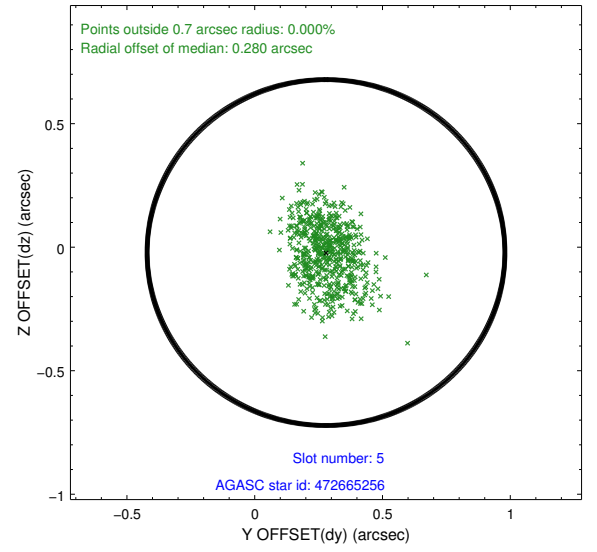
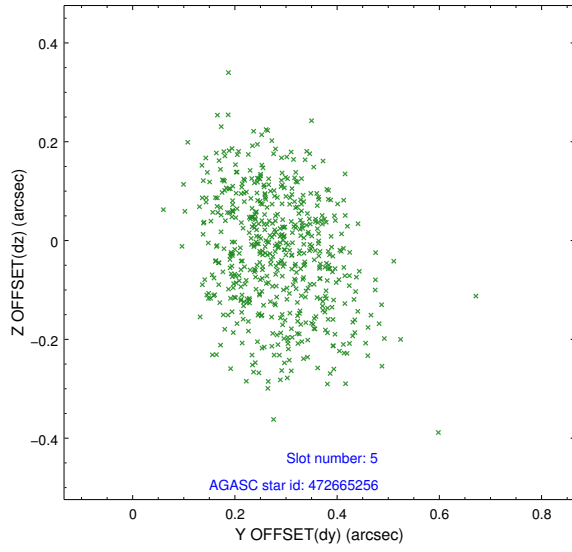
### 2.4.1 Slot 3



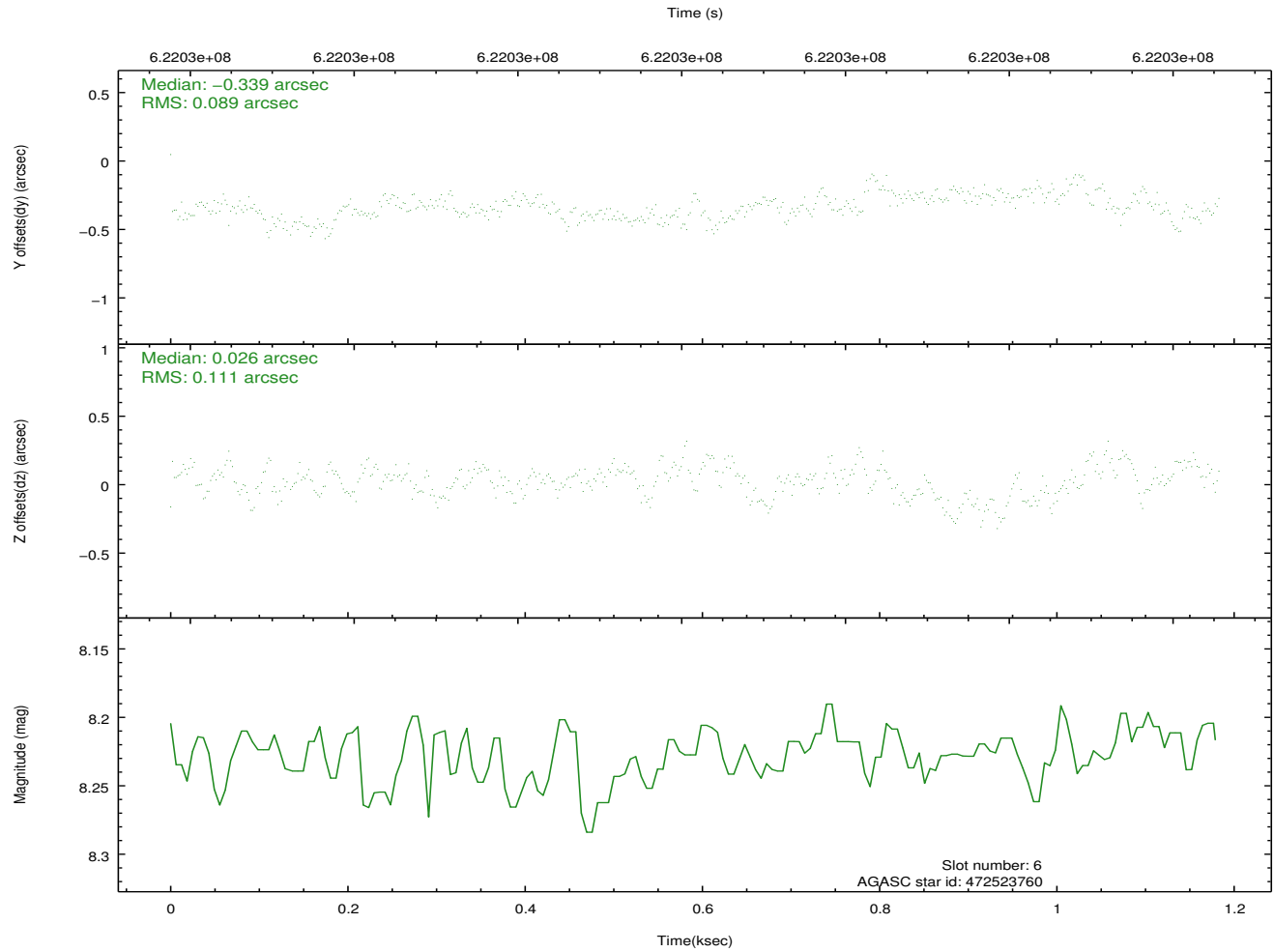
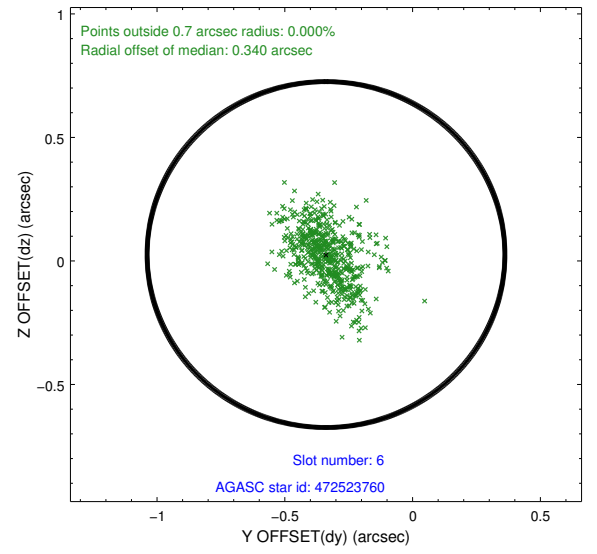
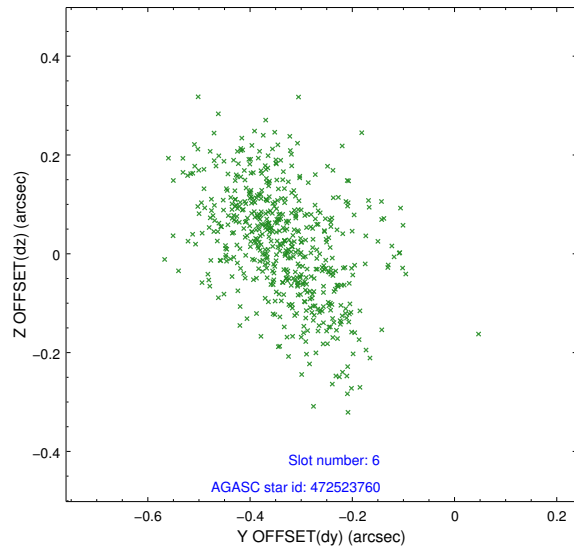
## 2.4.2 Slot 4



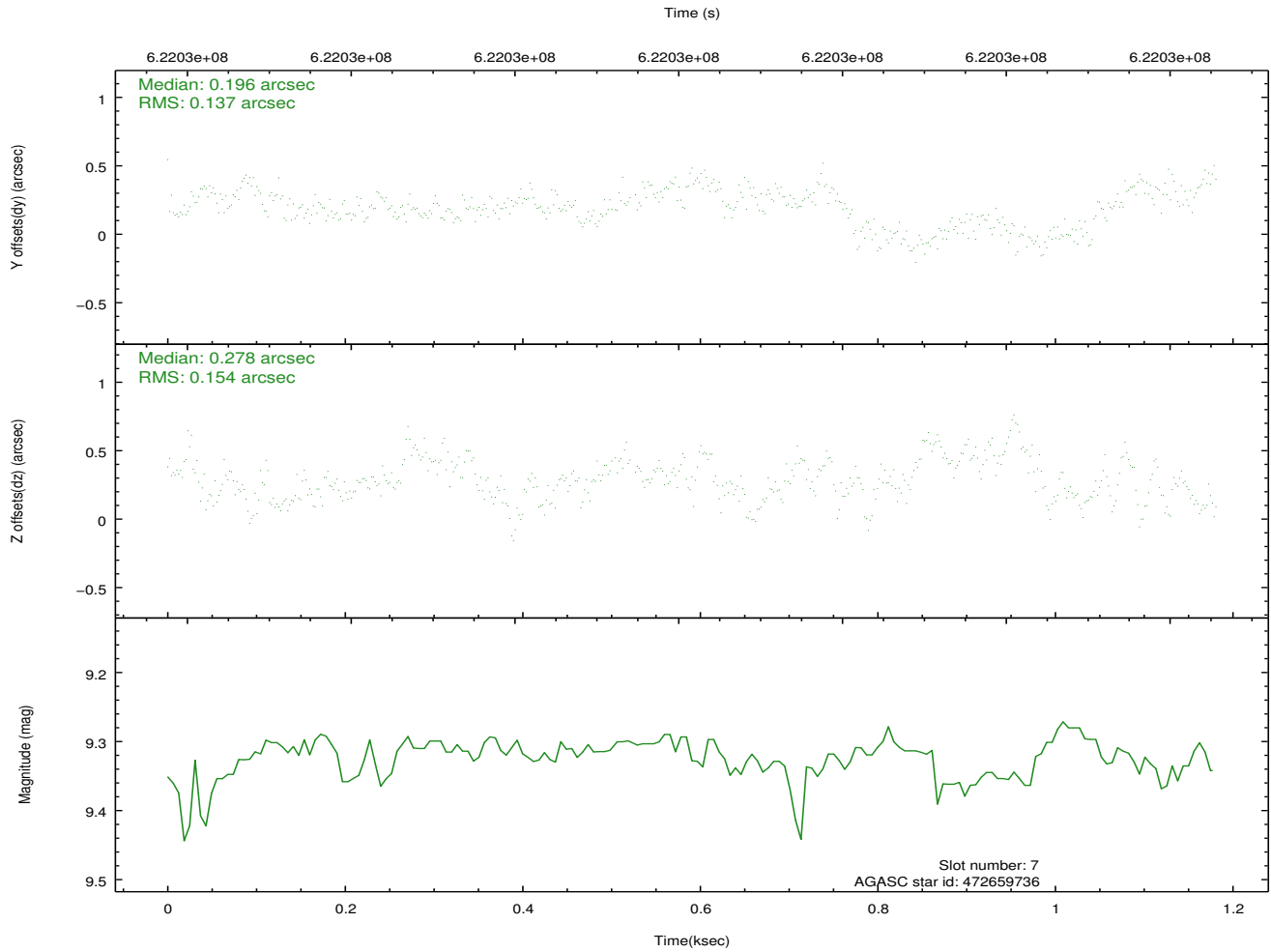
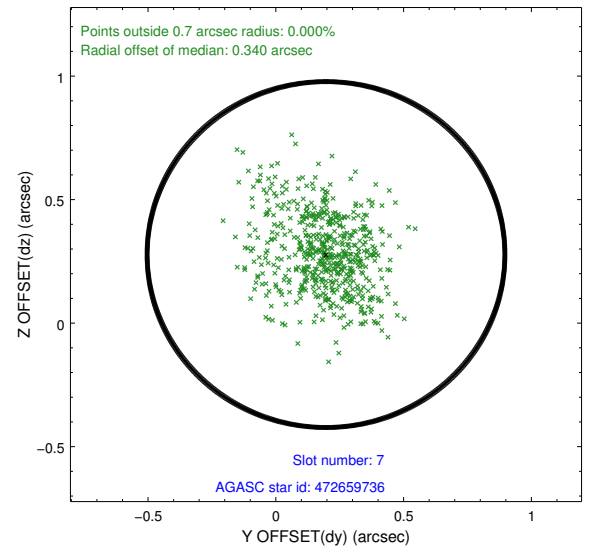
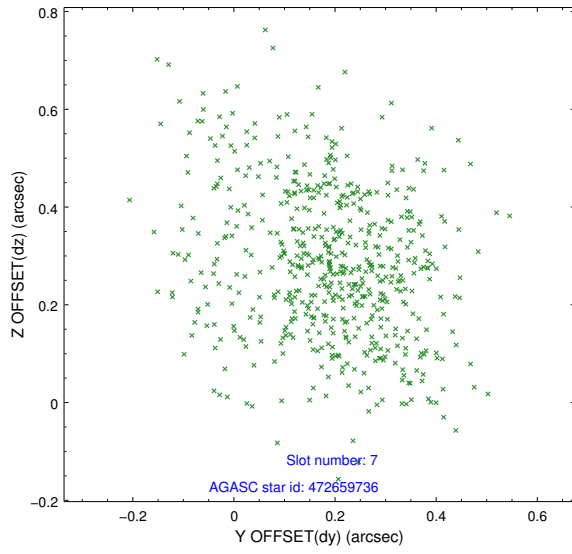
### 2.4.3 Slot 5



## 2.4.4 Slot 6

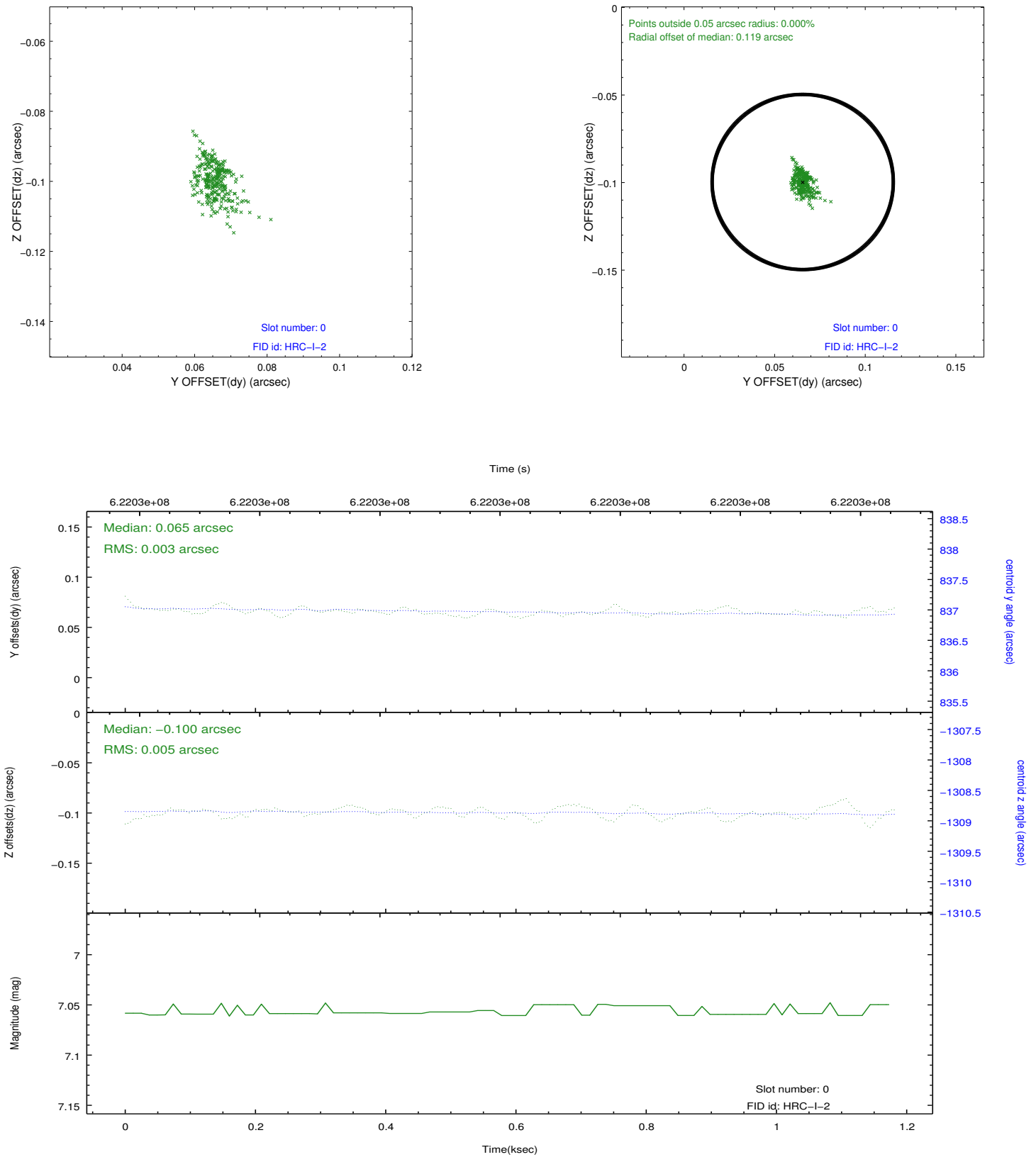


## 2.4.5 Slot 7

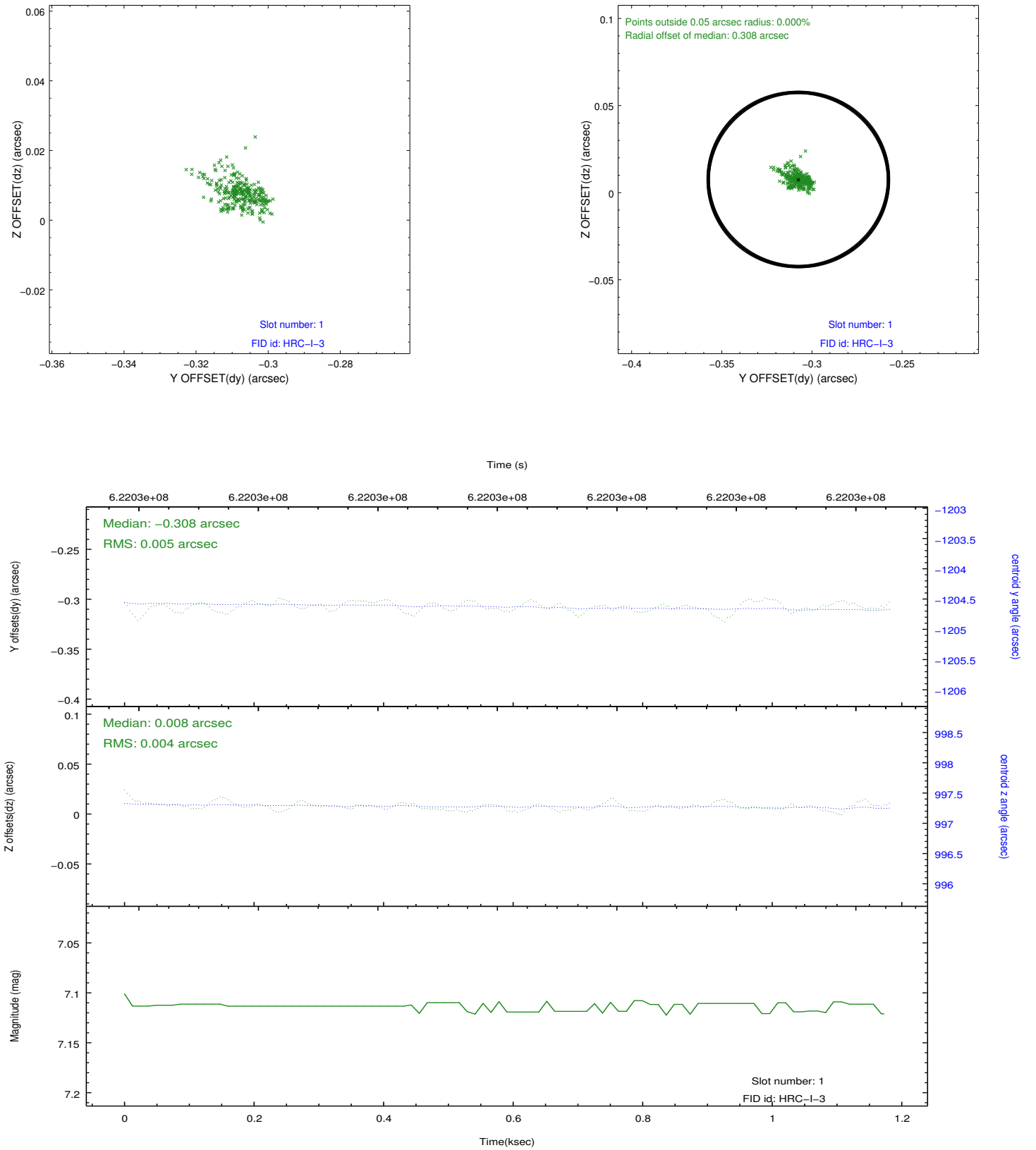


## 2.5 FID Slots

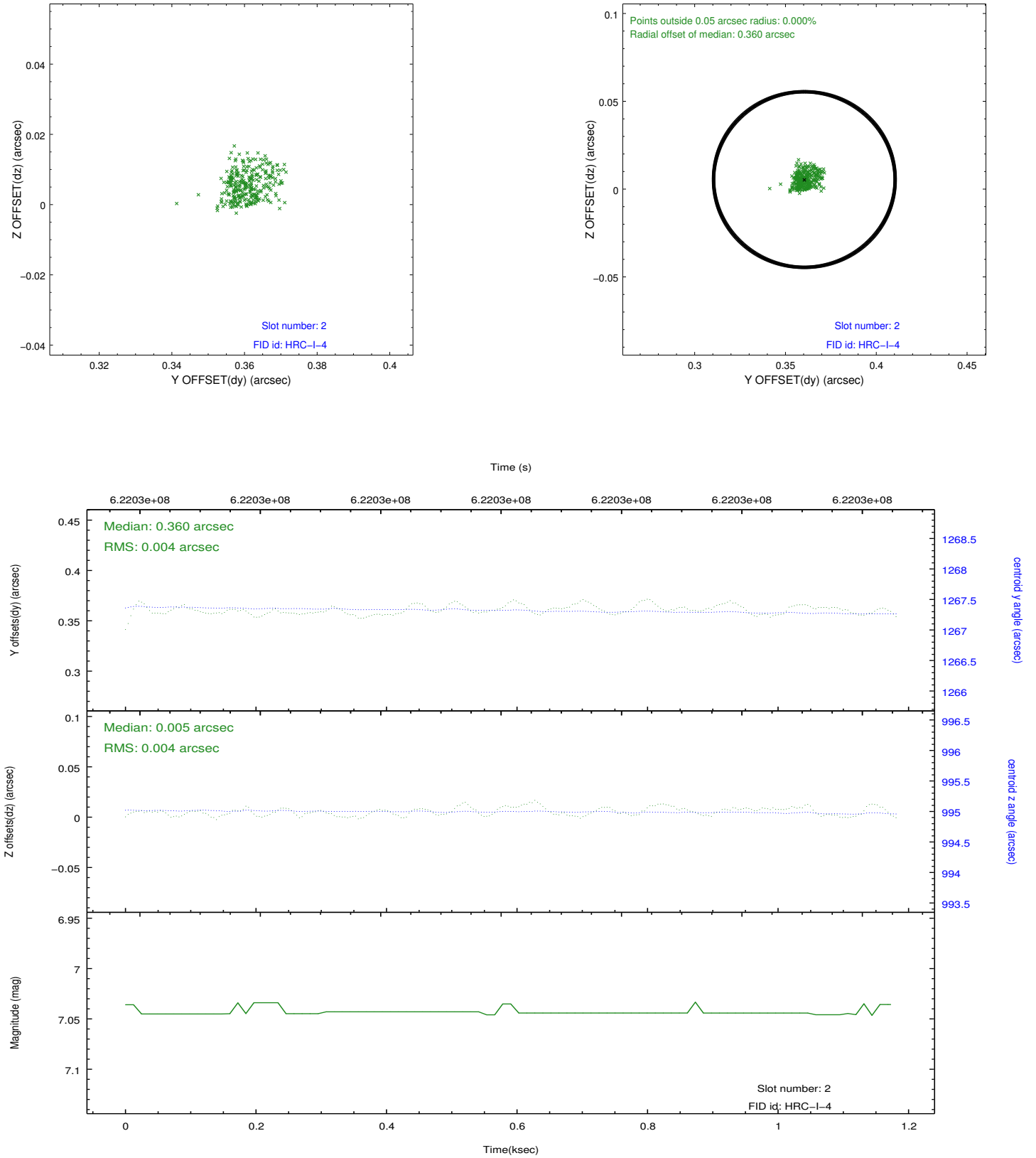
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2017.09.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1820813192129

### A.2 Comments