

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9650 - L2 Version 3  
Chandra X-Ray Center

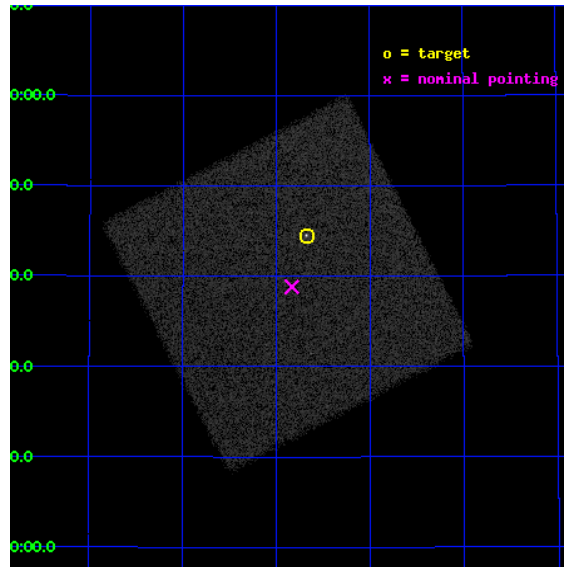
L2 Processing Date : Aug 12 2012

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# 1 Front

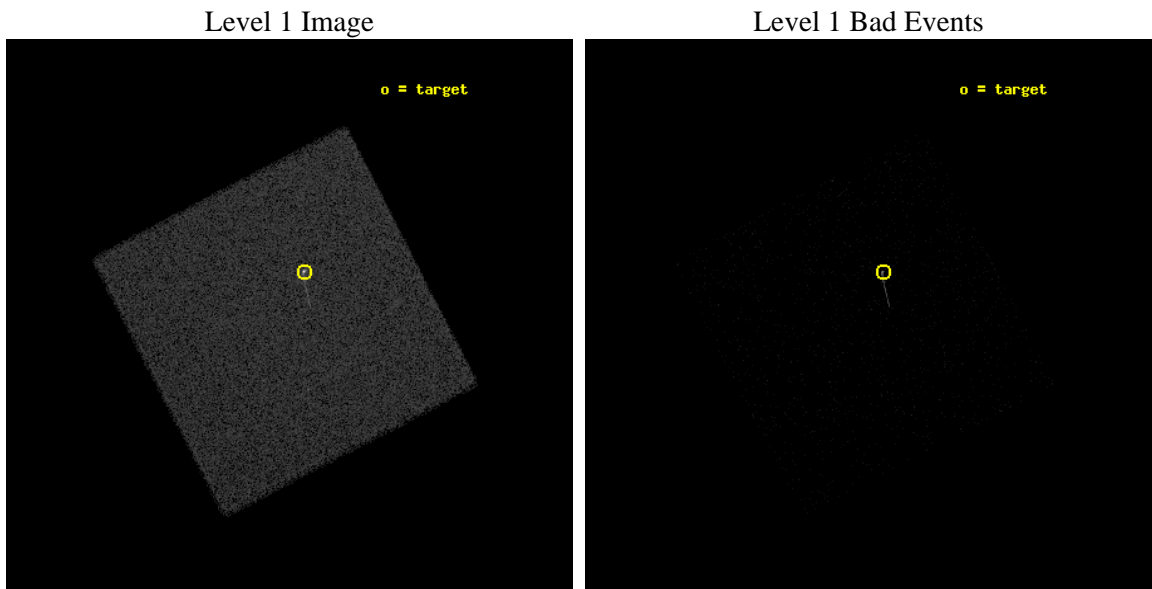
seq_num	290773	Sequence number
obs_id	9650	Observation id
title	AO9 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.20865380561	Nominal RA [deg]
dec_nom	45.647484577485	Nominal Dec [deg]
roll_nom	197.64442686647	Nominal Roll [deg]
revision	3	Processing version of data
ontime	1366.5813171864	[s]
livetime	1351.805428163	Ontime multiplied by DTCOR
l2events	92068	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	1366.5813171864	[s]
caldbver	4.5.1.1	&#160	l1events	163431	Number of level 1 events
date	2012-08-12T19:40:32	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

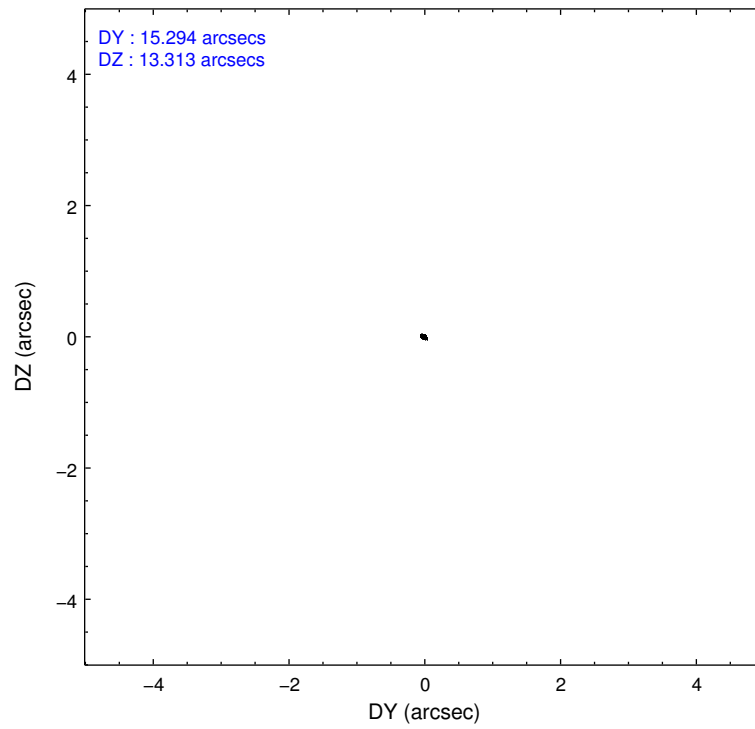
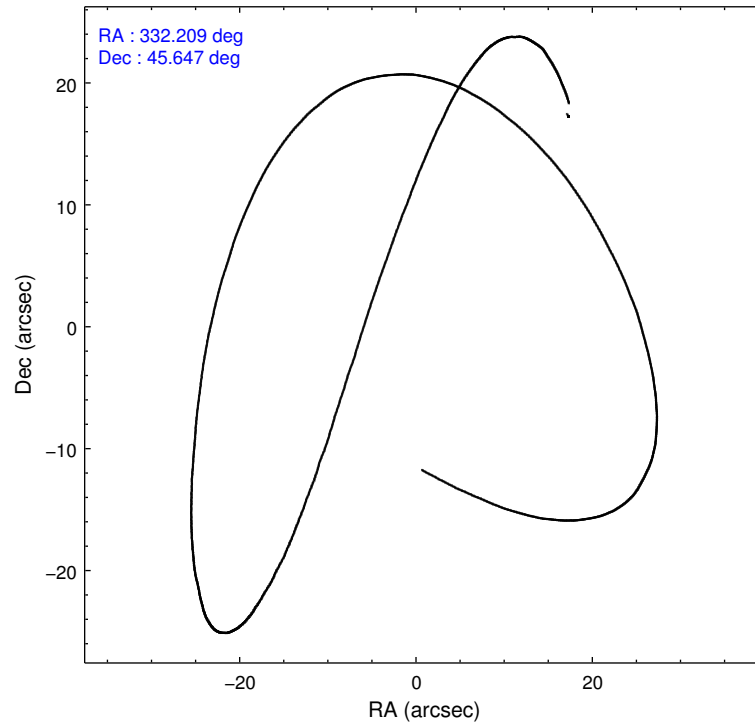
	<b>segment 0</b>
level 1 events	163431
rejected events	31263
rejected %	19%

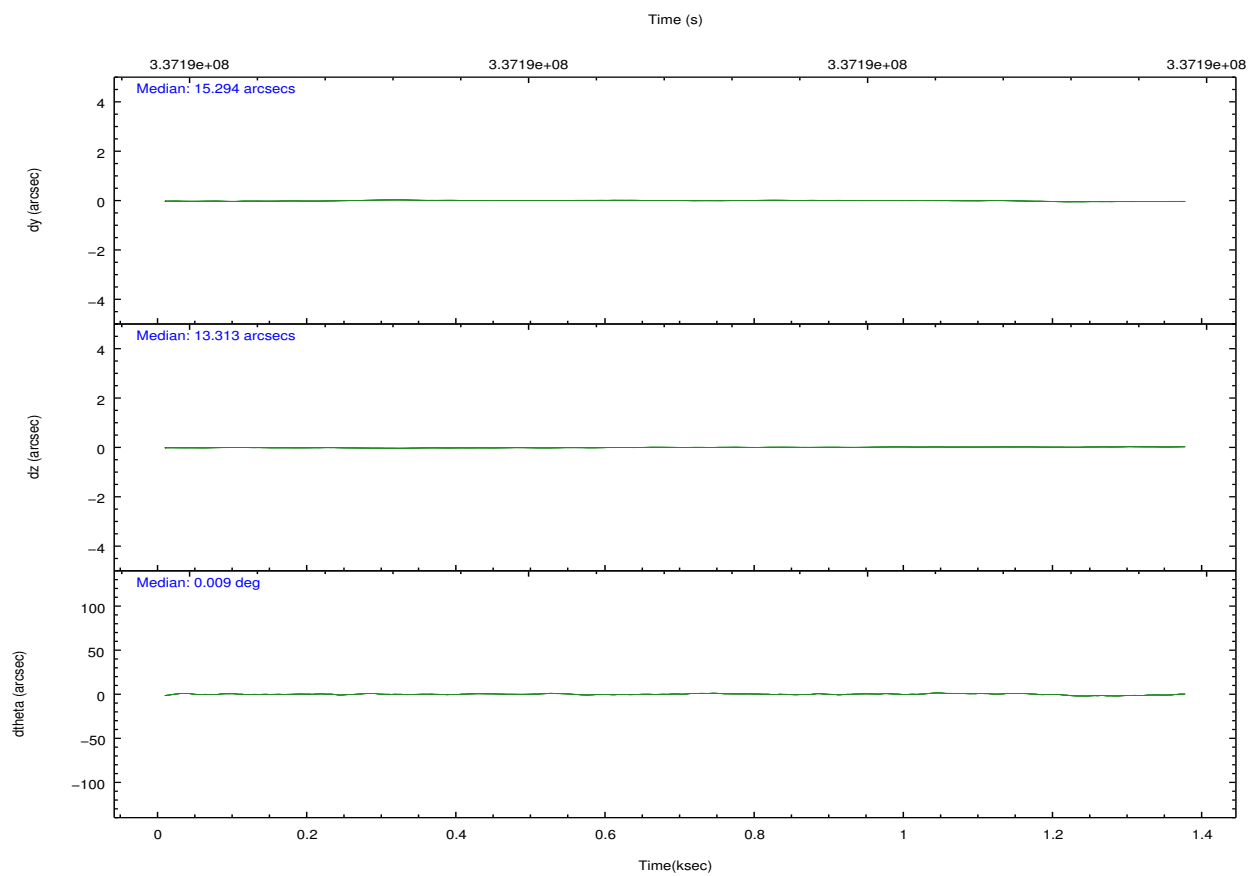
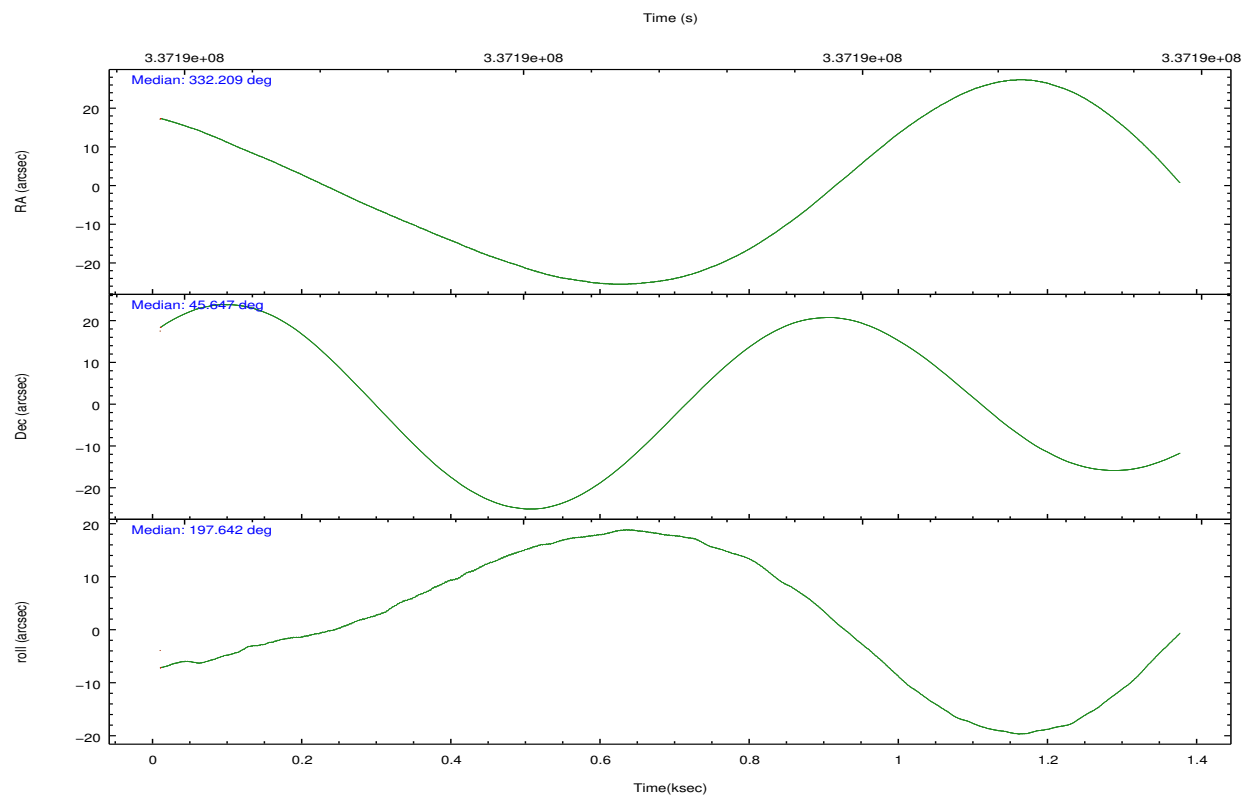
## 2.2 Compared Parameters

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	332.233163	332.2086538056144
[deg] Pointing Dec	45.667872	45.64748457748529
[deg] Pointing Roll	197.722355	197.6444268664659
[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)	337186727.184000	337186351.31852
Observation start date	2008-09-07T14:57:42	2008-09-07T14:52:31
[s] Observation end time (MET)	337187907.184000	337188041.0311
Observation end date	2008-09-07T15:17:22	2008-09-07T15:20:41

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

## 2.3 Aspect



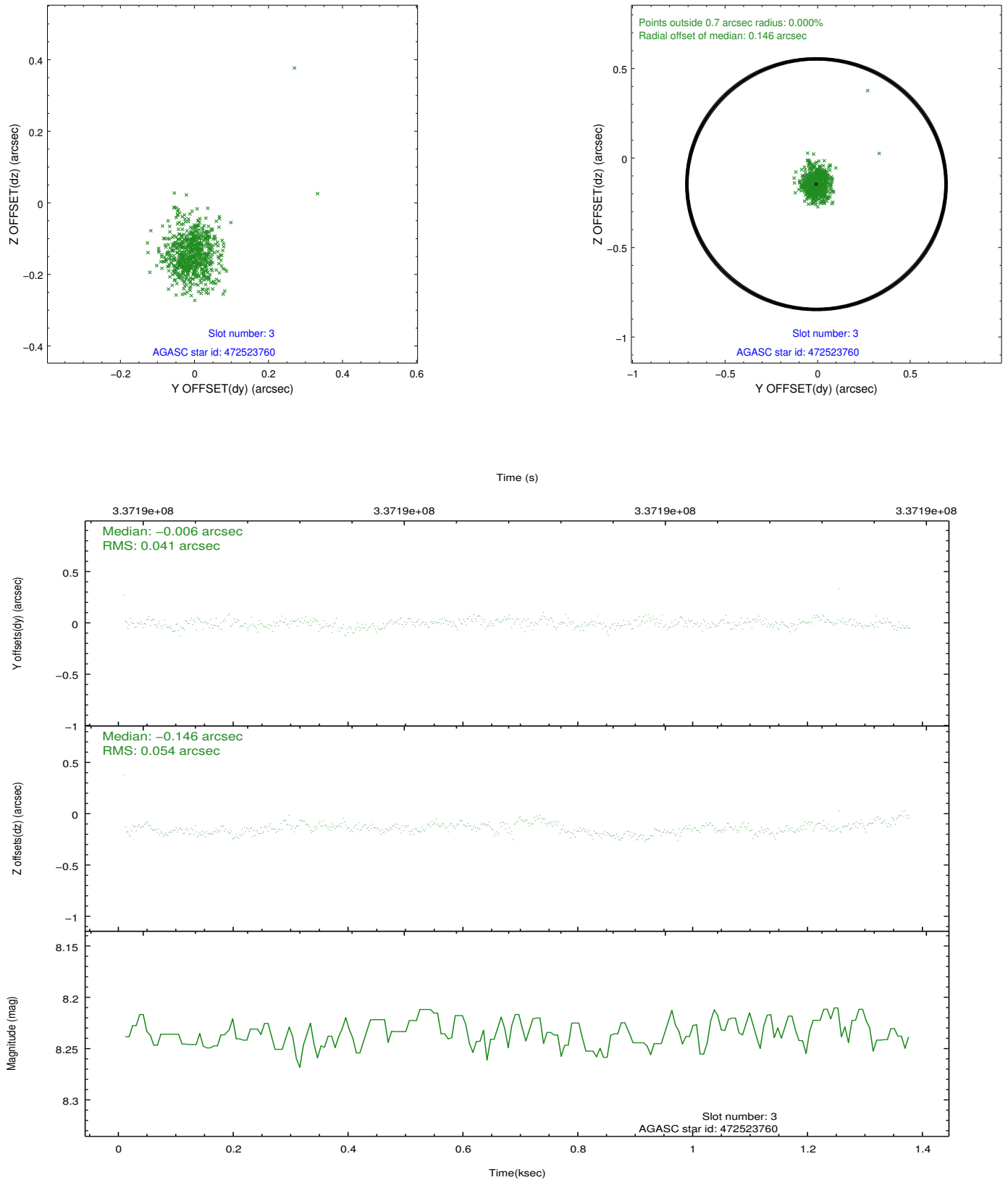


### Slot Statistics

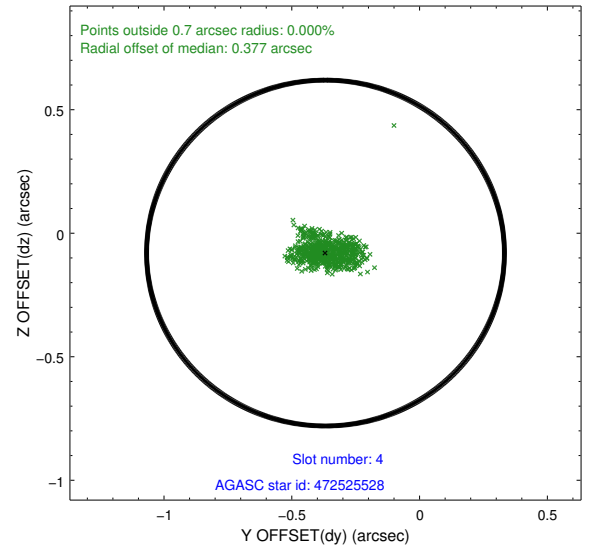
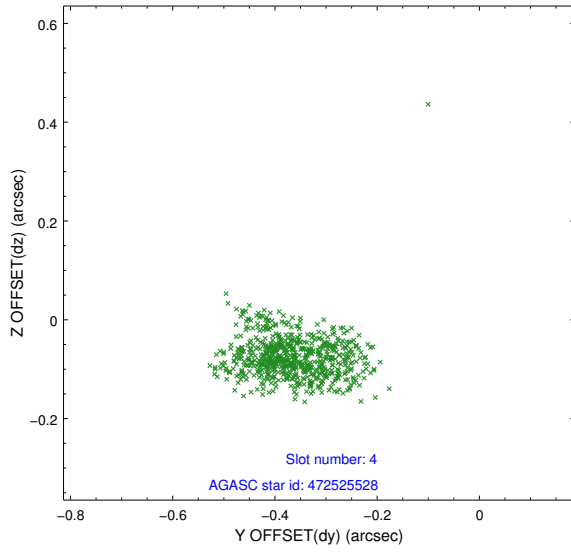
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	7.00	334	-0.063	0.017	0.007	0.011	0.000000	0.000000	-771.18	-1301.31
1	FID	HRC-I-2	7.03	334	0.235	-0.146	0.006	0.010	0.000000	0.000000	839.44	-1306.97
2	FID	HRC-I-3	7.08	334	-0.054	0.040	0.007	0.013	0.000000	0.000000	-1197.11	999.37
3	GUIDE	472523760	8.24	666	-0.006	-0.146	0.065	0.114	331.645363	45.403260	1706.60	449.73
4	GUIDE	472525528	6.64	668	-0.368	-0.080	0.085	0.137	331.551102	45.248694	2108.95	904.80
5	GUIDE	472655152	9.43	668	0.114	0.008	0.130	0.222	332.504239	45.862991	-855.23	-462.01
6	GUIDE	472665256	9.01	668	0.198	0.011	0.094	0.150	332.808125	46.195041	-1942.10	-1377.43
7	GUIDE	472663080	9.41	667	0.059	0.182	0.124	0.197	332.652741	46.473840	-1874.80	-2451.85

## 2.4 Star Slots

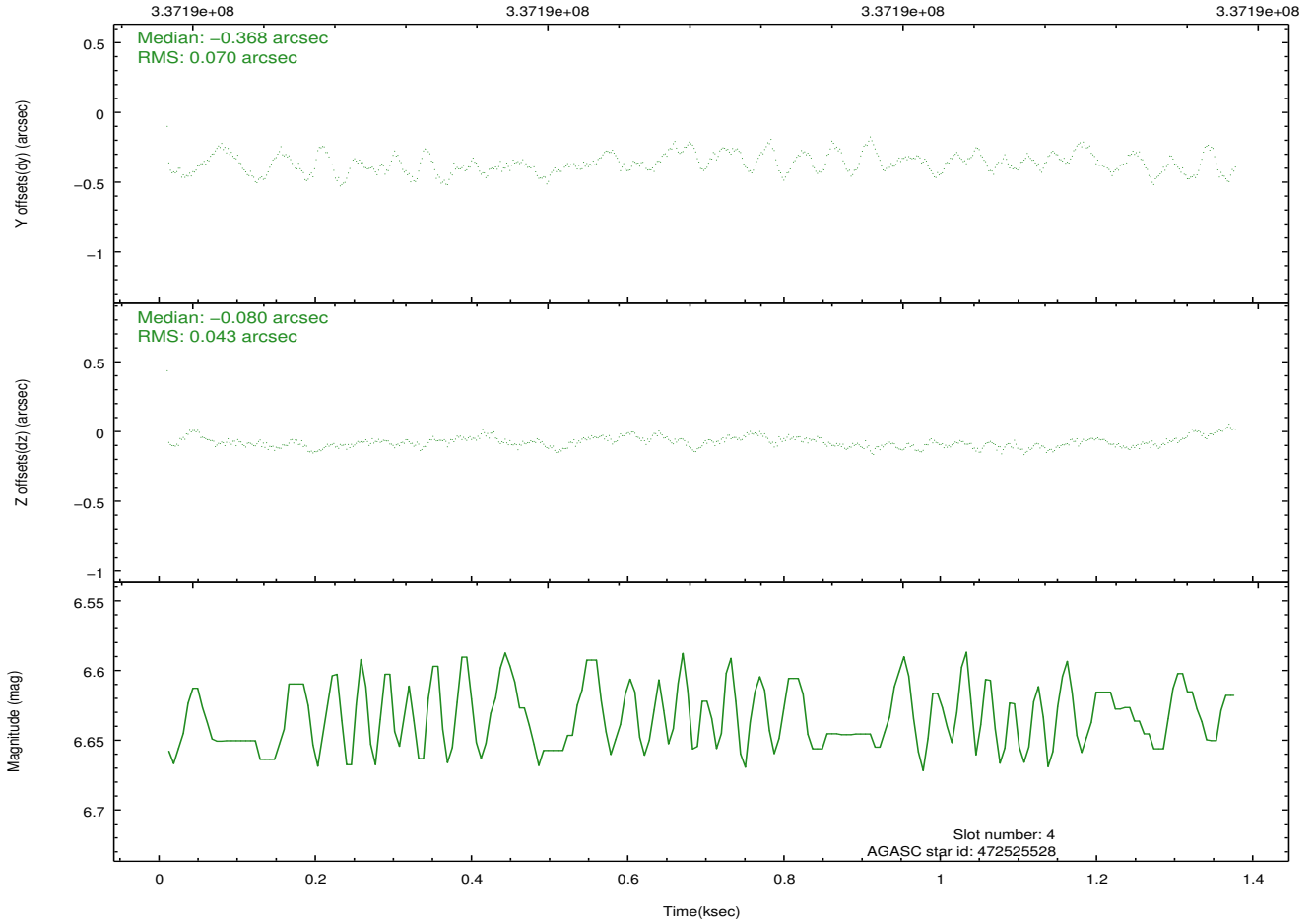
### 2.4.1 Slot 3



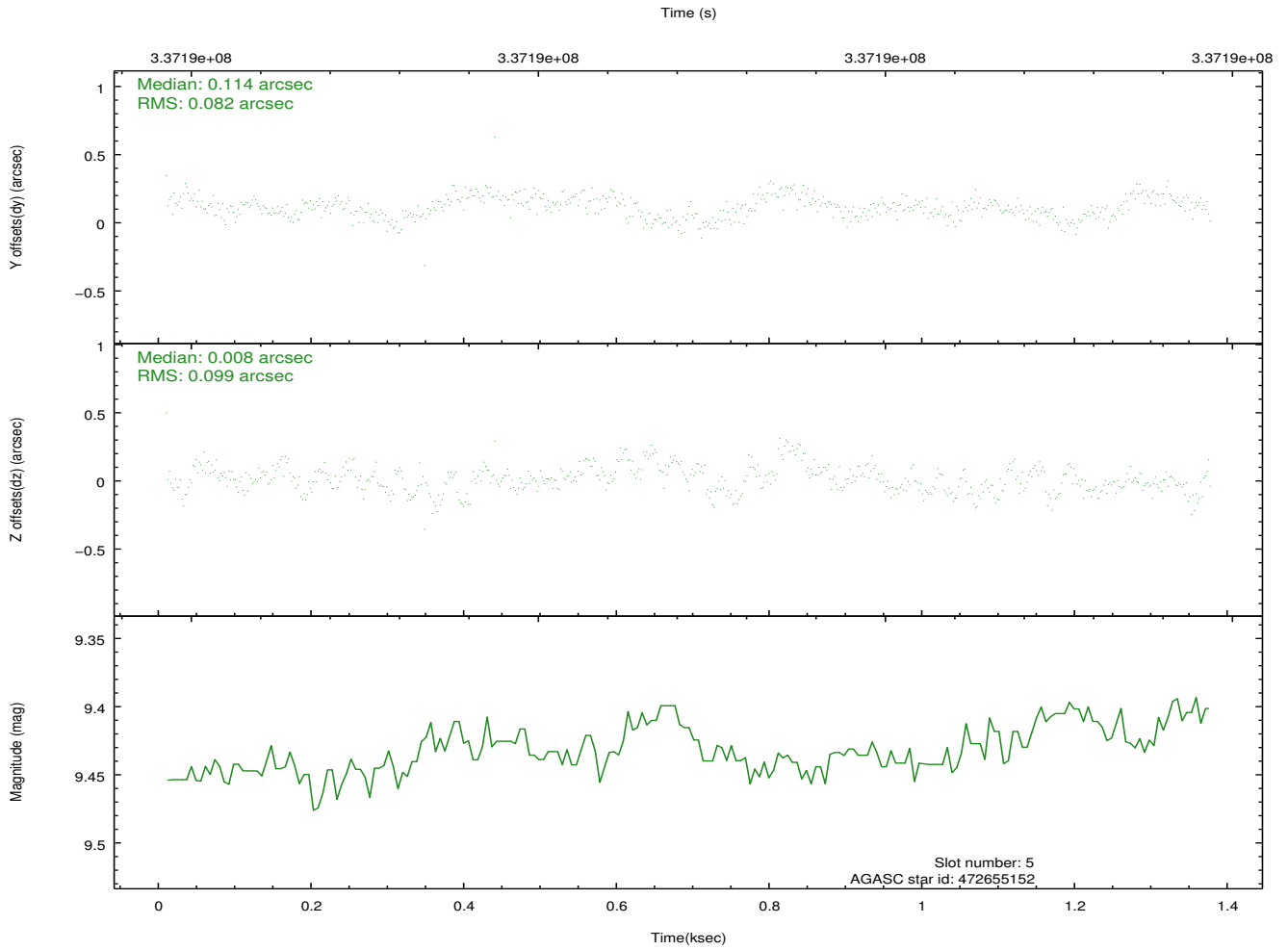
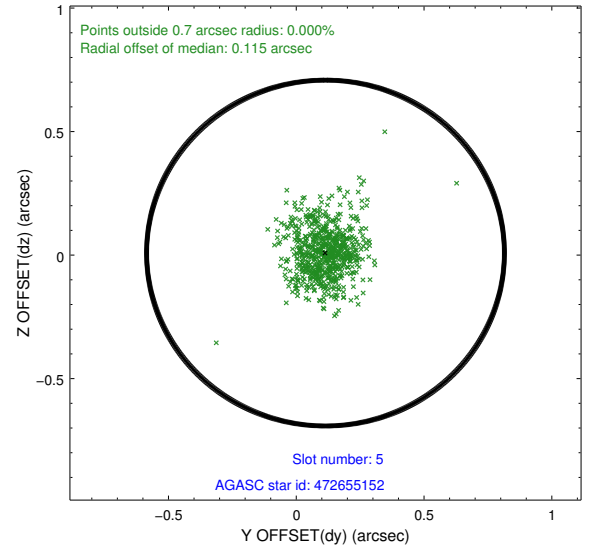
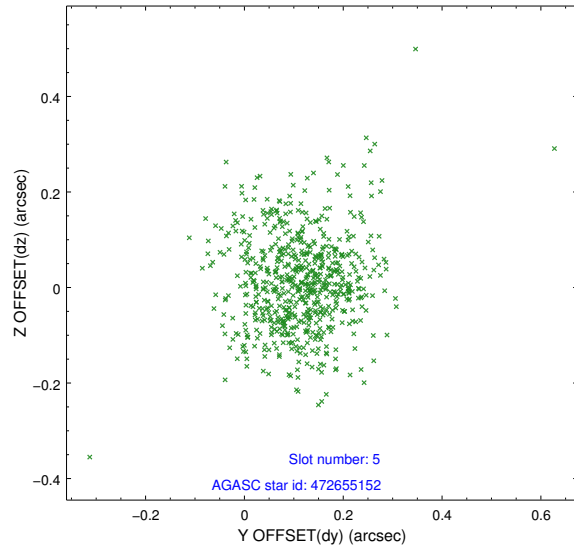
## 2.4.2 Slot 4



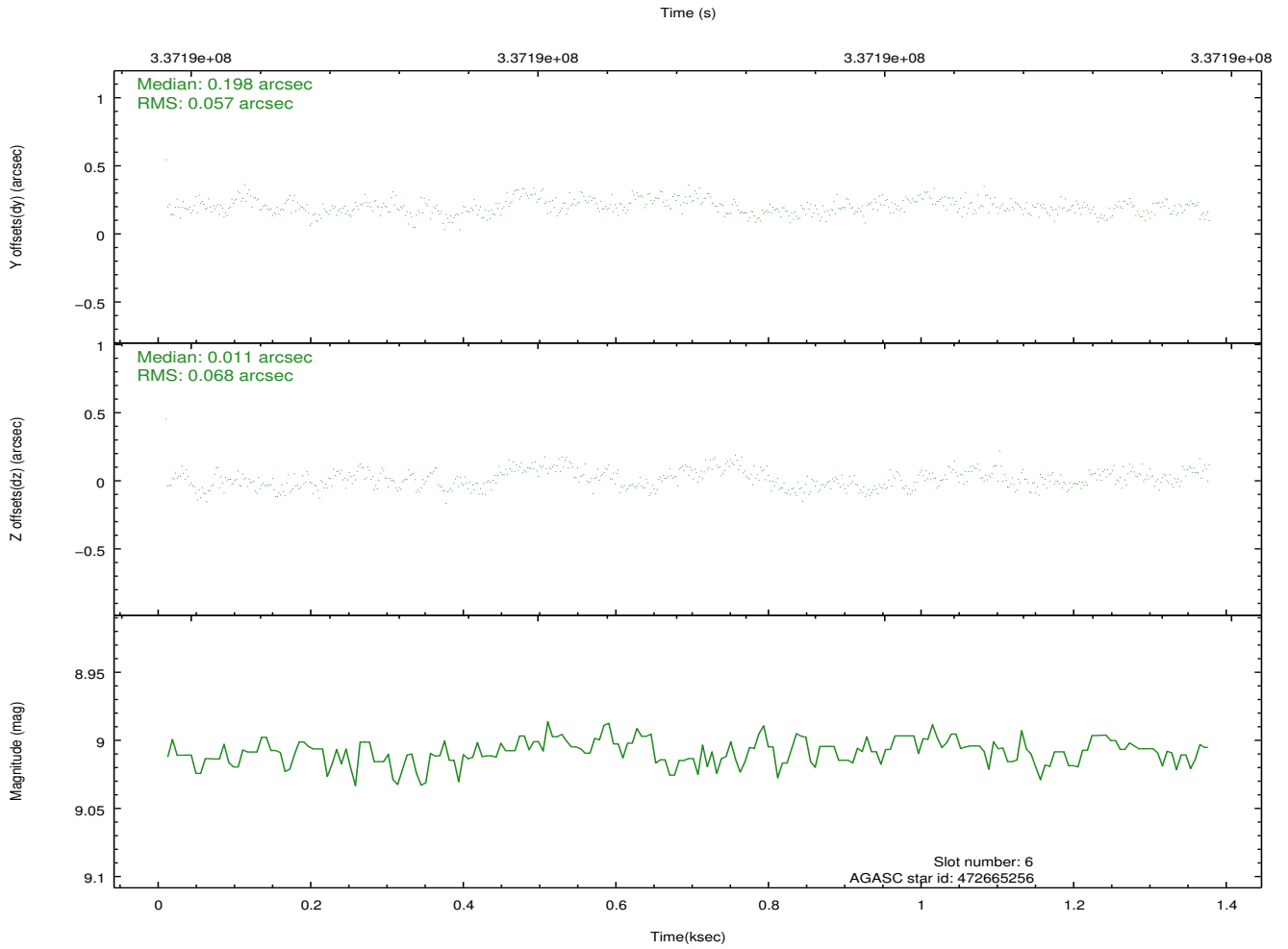
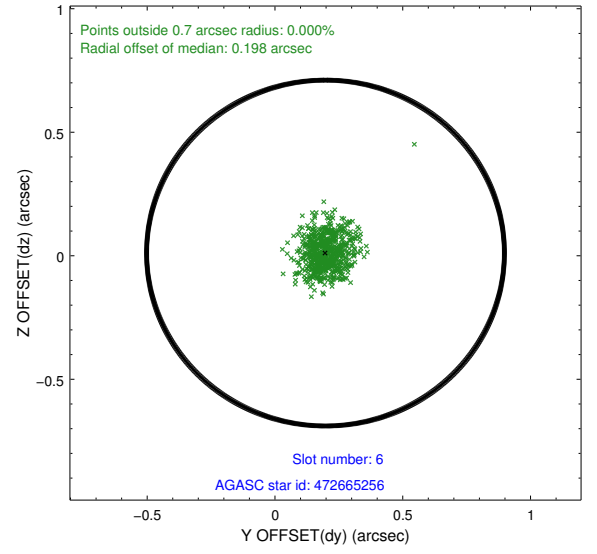
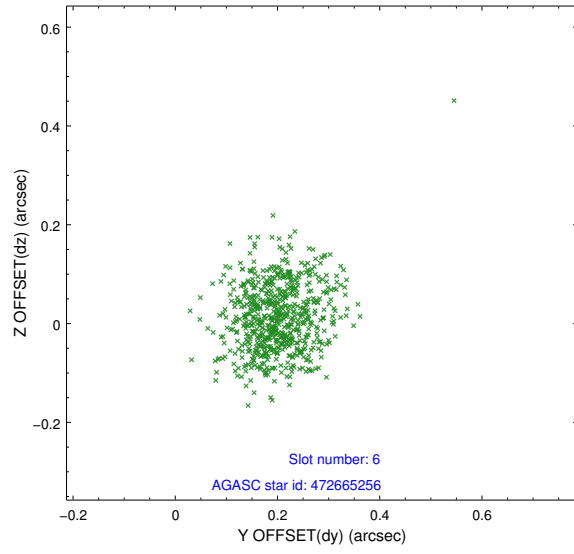
Time (s)



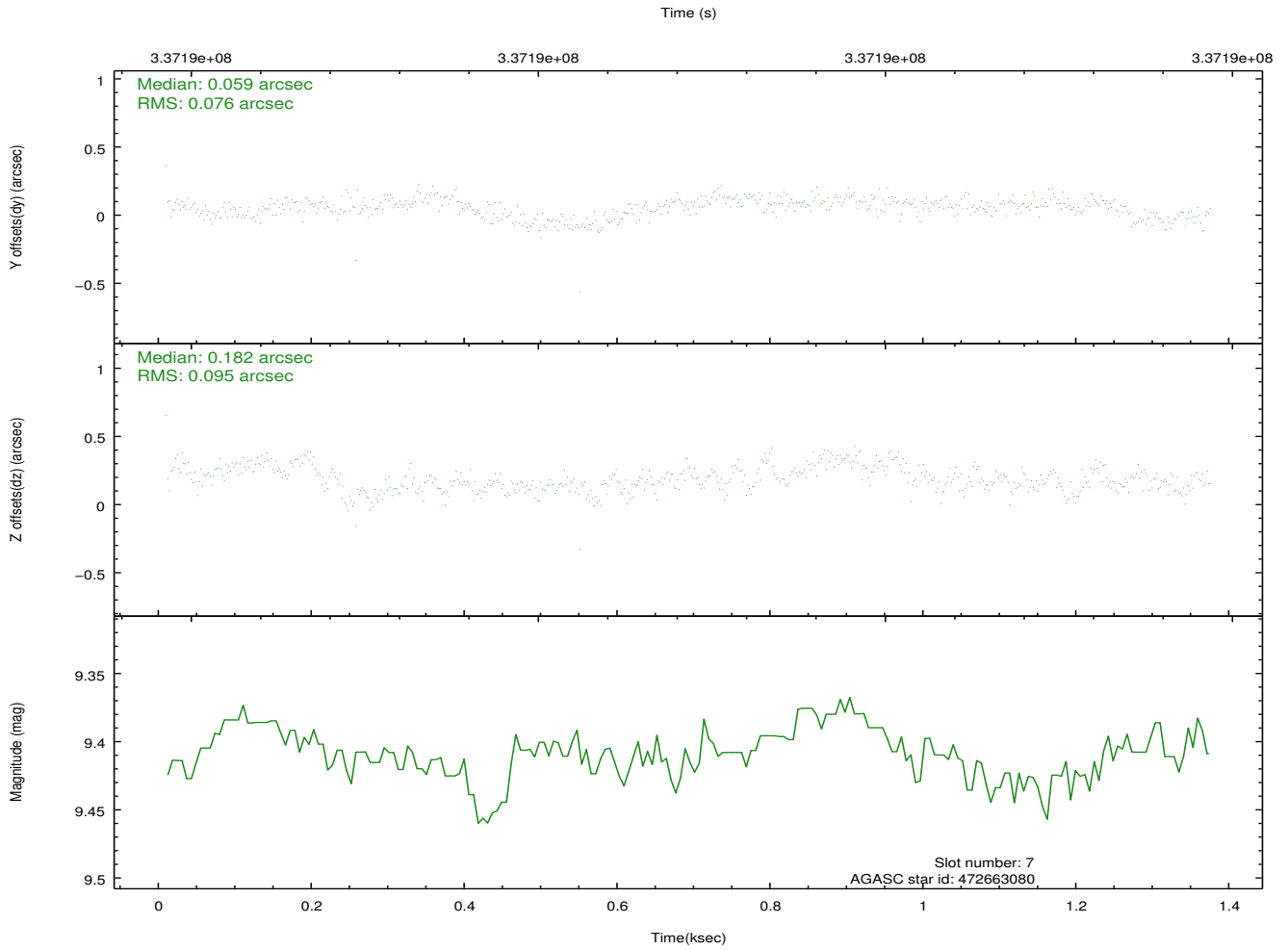
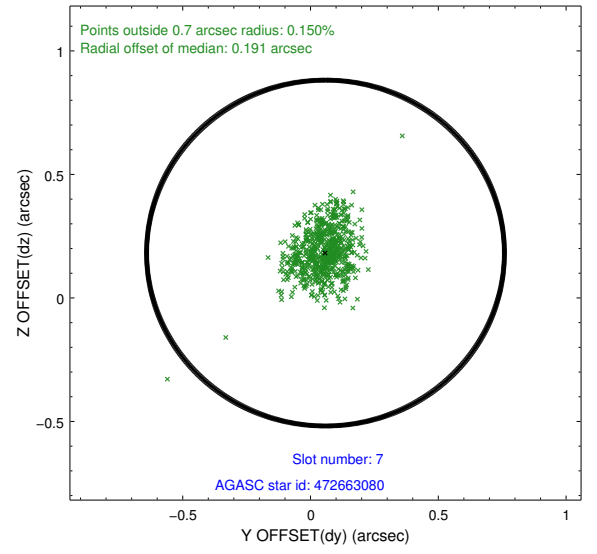
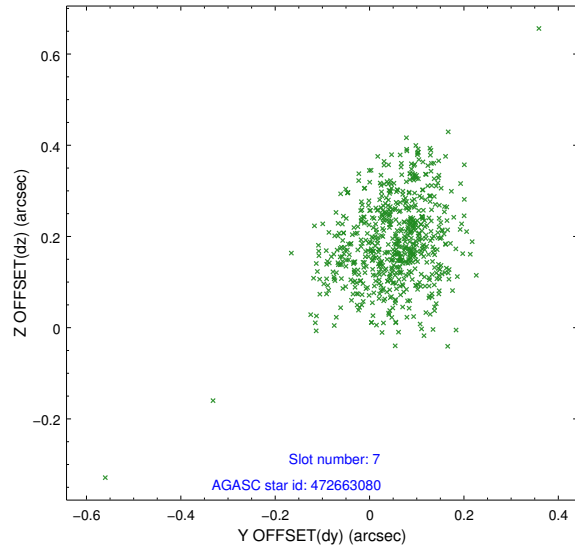
### 2.4.3 Slot 5



## 2.4.4 Slot 6

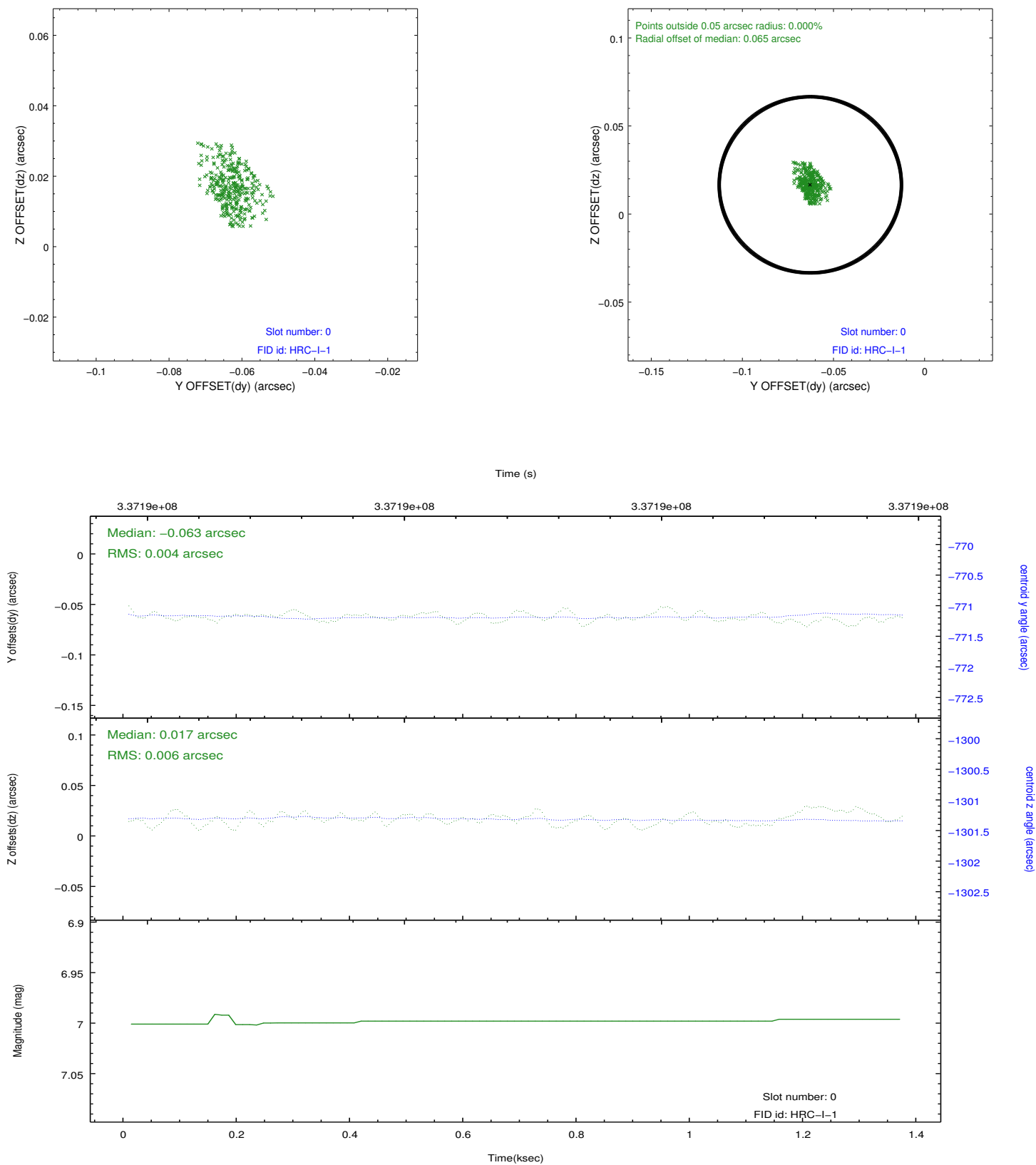


## 2.4.5 Slot 7

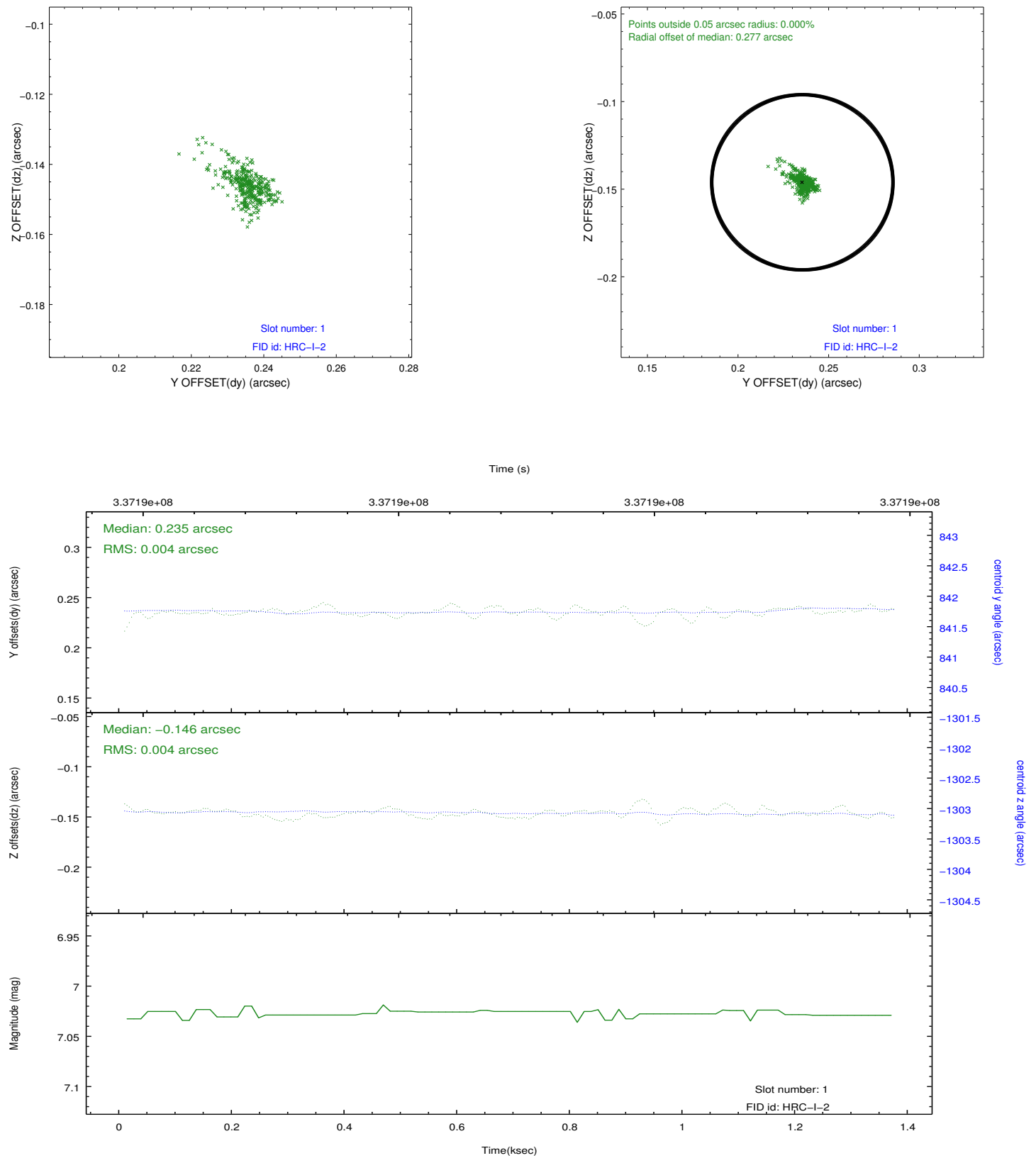


## 2.5 FID Slots

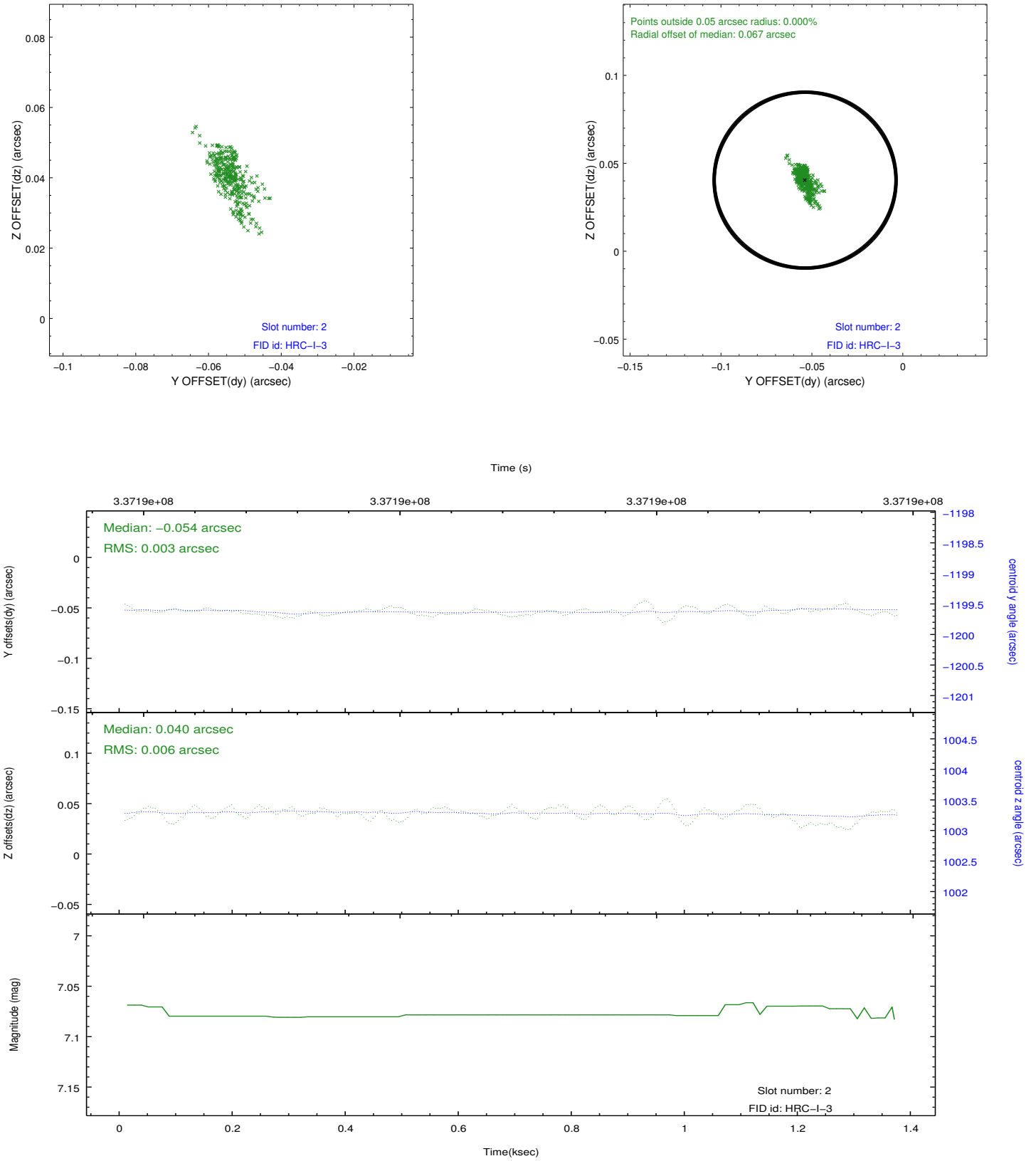
### 2.5.1 Slot 0



## 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)	2012.08.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.36658131

### A.2 Comments