

# V&V Reference Report

## L2 ASCDS Version : 10.5.1.1

Observation 18394 - L2 Version 1  
Chandra X-Ray Center

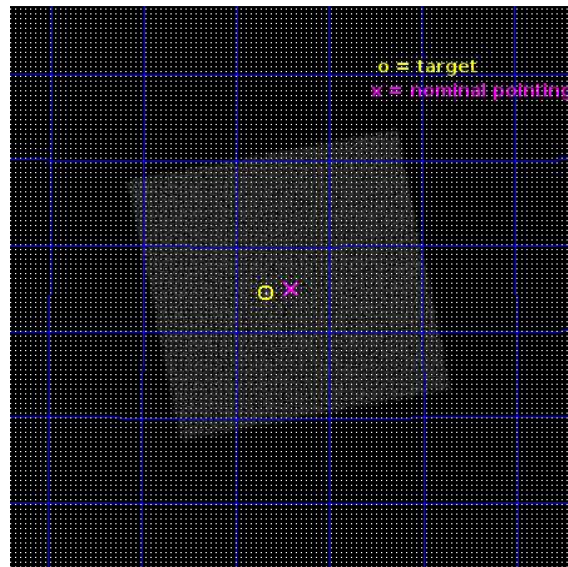
L2 Processing Date : Sep 20 2016

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# 1 Front

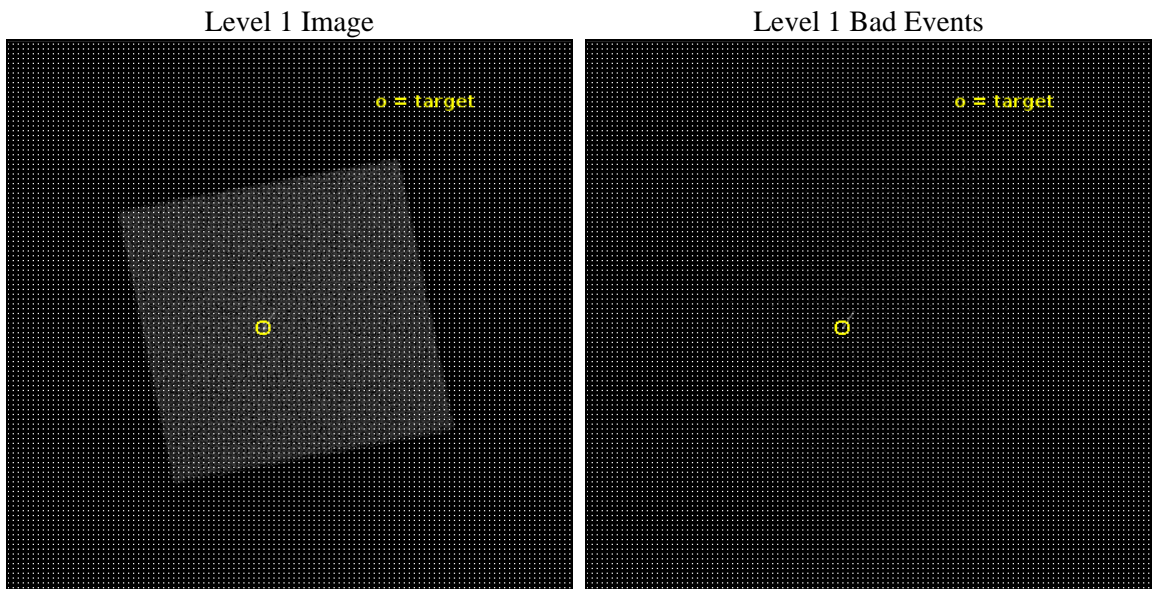
seq_num	291289	Sequence number
obs_id	18394	Observation id
title	AO-17 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.10154692297	Nominal RA [deg]
dec_nom	45.751468742634	Nominal Dec [deg]
roll_nom	213.87012954943	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1186.1813184023	[s]
livetime	1172.550152542	Ontime multiplied by DTCOR
l2events	115240	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	10.5.1.1	Processing system revision	ontime	1186.1813184023	[s]
caldsver	4.7.2	&#160	l1events	193465	Number of level 1 events
date	2016-09-21T02:07:19	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

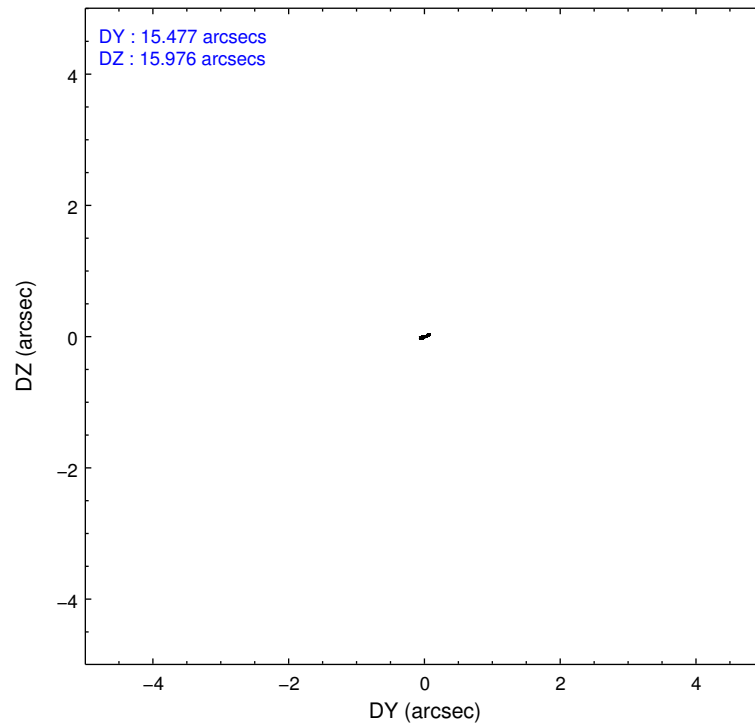
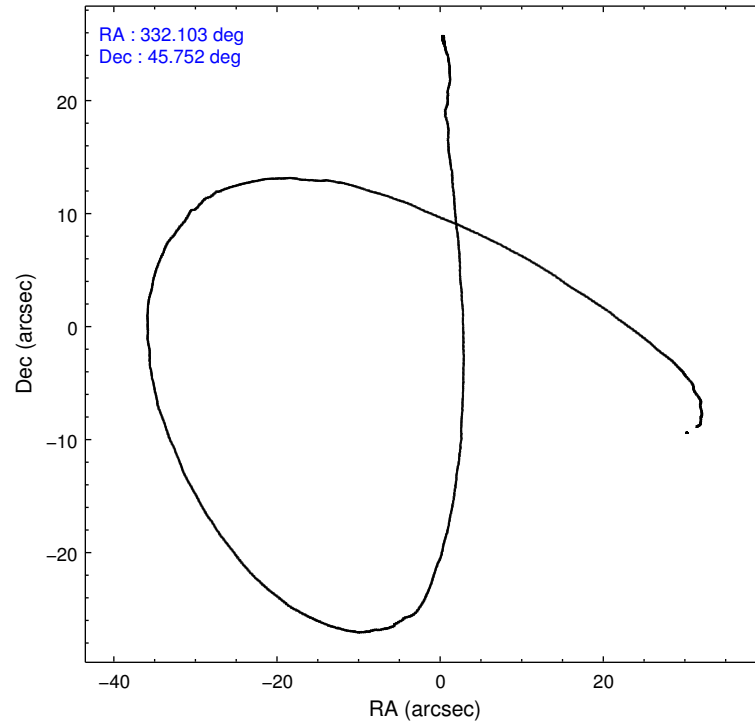
	<b>segment 0</b>
level 1 events	193465
rejected events	41604
rejected %	21%

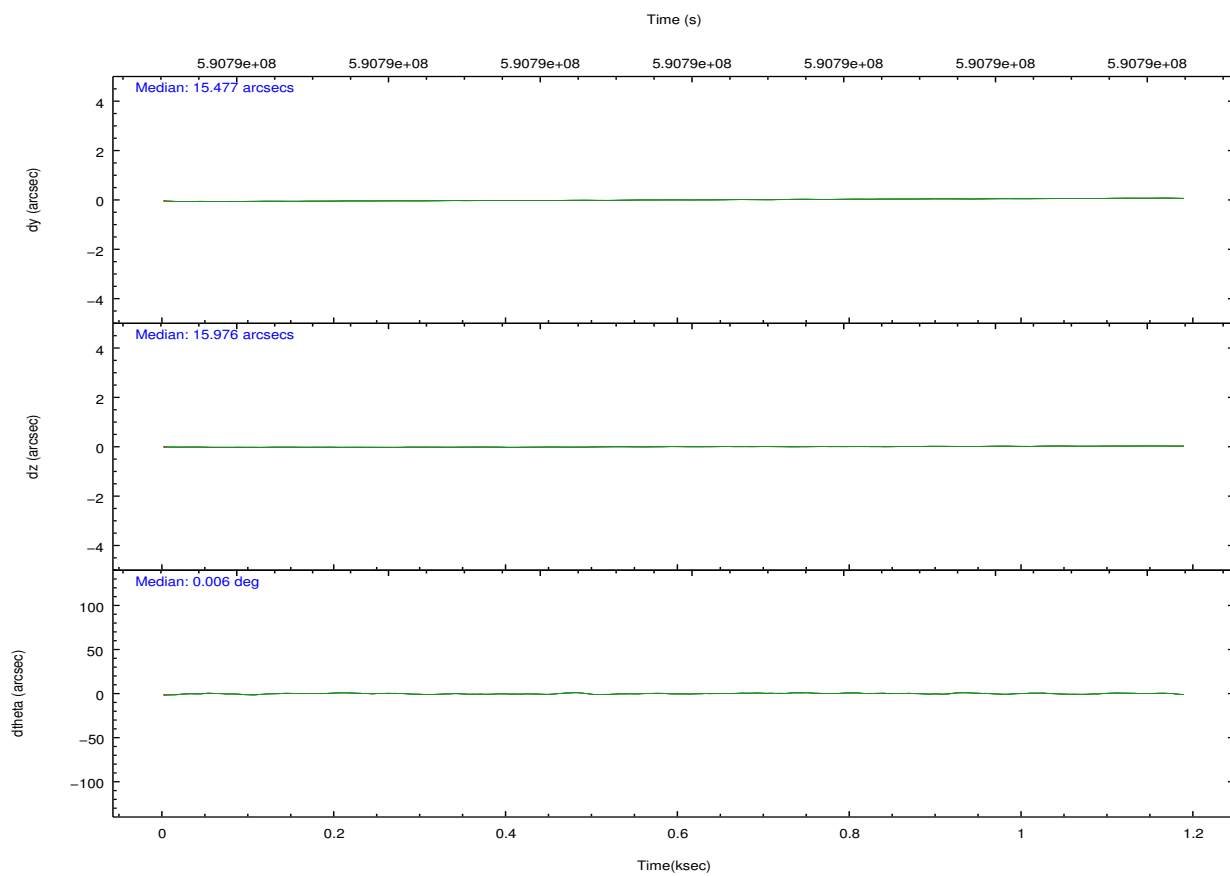
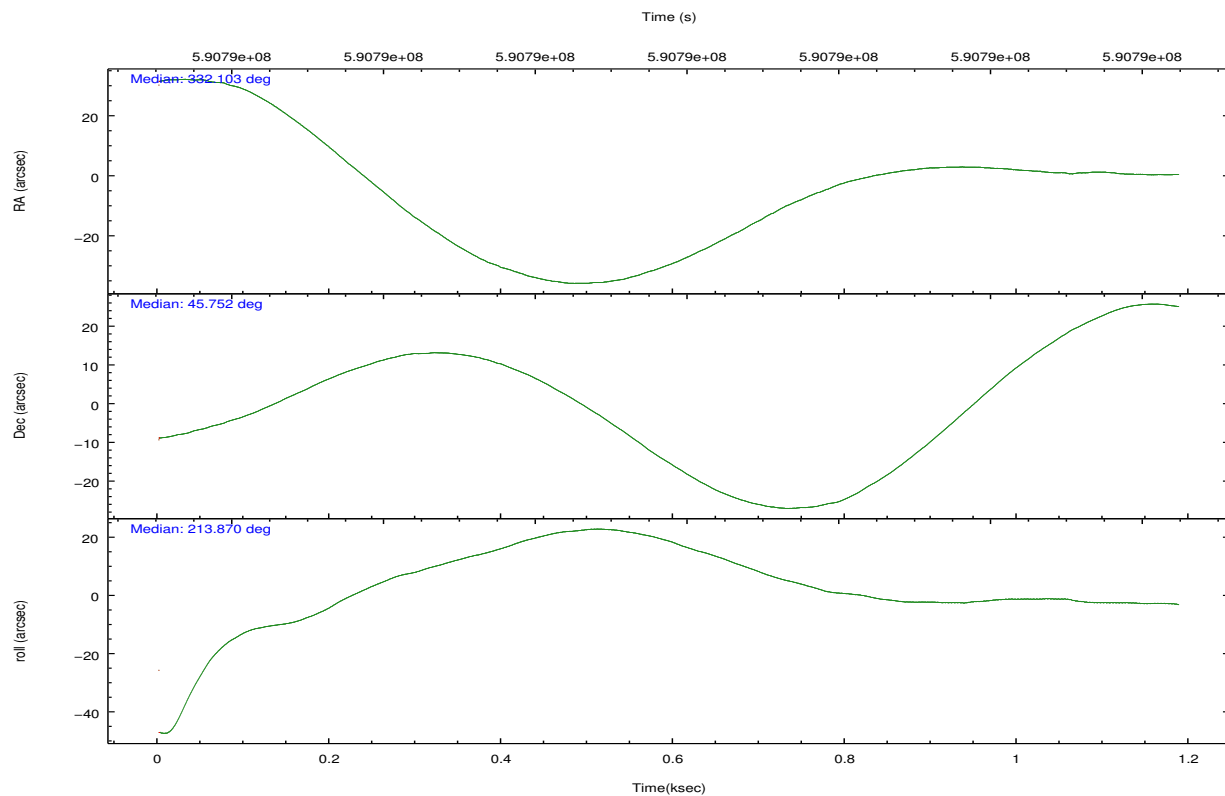
## 2.2 Compared Parameters

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	332.117487	332.1015469229687
[deg] Pointing Dec	45.775961	45.75146874263414
[deg] Pointing Roll	213.954502	213.8701295494316
[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)	590786557.184000	590786181.3788
Observation start date	2016-09-20T19:21:29	2016-09-20T19:16:21
[s] Observation end time (MET)	590787557.184000	590787691.20389
Observation end date	2016-09-20T19:38:09	2016-09-20T19:41:31

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

## 2.3 Aspect





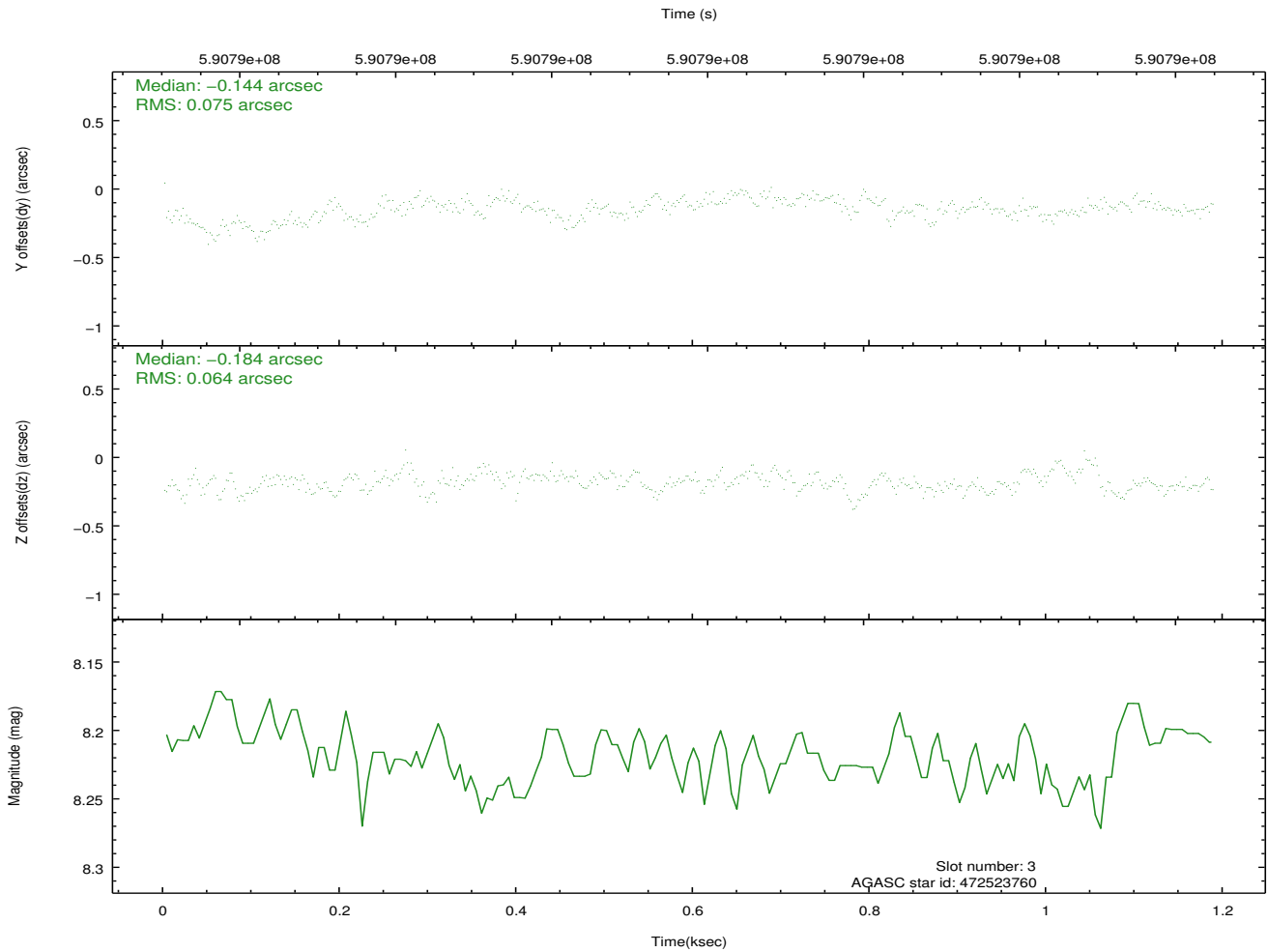
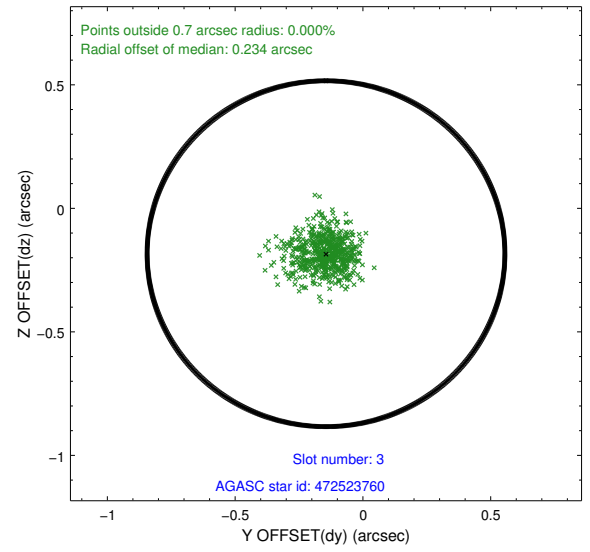
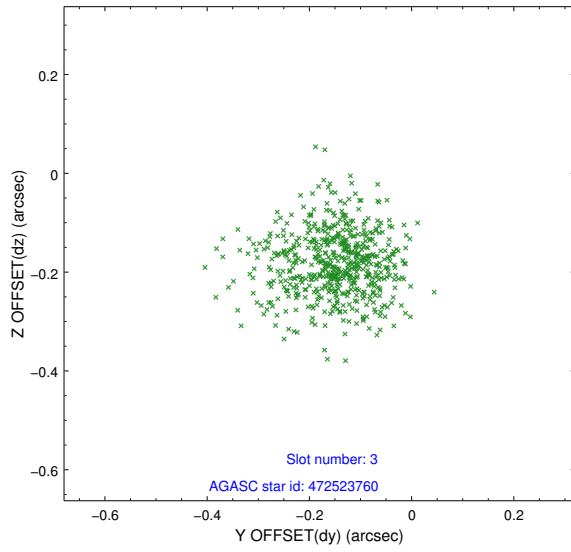
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-2	7.06	290	0.102	-0.158	0.007	0.015	0.000000	0.000000	841.50	-1305.77
1	FID		HRC-I-3	7.13	290	-0.283	0.051	0.005	0.009	0.000000	0.000000	-1197.20	995.98
2	FID		HRC-I-4	7.05	290	0.299	0.020	0.005	0.011	0.000000	0.000000	1267.63	1001.59
3	GUIDE	used	472523760	8.22	580	-0.144	-0.184	0.102	0.173	331.645363	45.403260	1739.39	443.63
4	GUIDE	used	472533912	9.13	579	0.292	0.234	0.167	0.278	331.791136	46.368695	-515.02	-2222.81
5	GUIDE	used	472665256	8.98	580	0.200	0.341	0.116	0.194	332.808125	46.195041	-2273.02	-299.50
6	GUIDE	used	420754040	9.04	580	-0.279	-0.182	0.123	0.210	331.917939	44.882543	2214.35	2383.28
7	GUIDE	used	472655152	9.38	577	-0.057	-0.196	0.189	0.318	332.504239	45.862991	-974.81	284.22

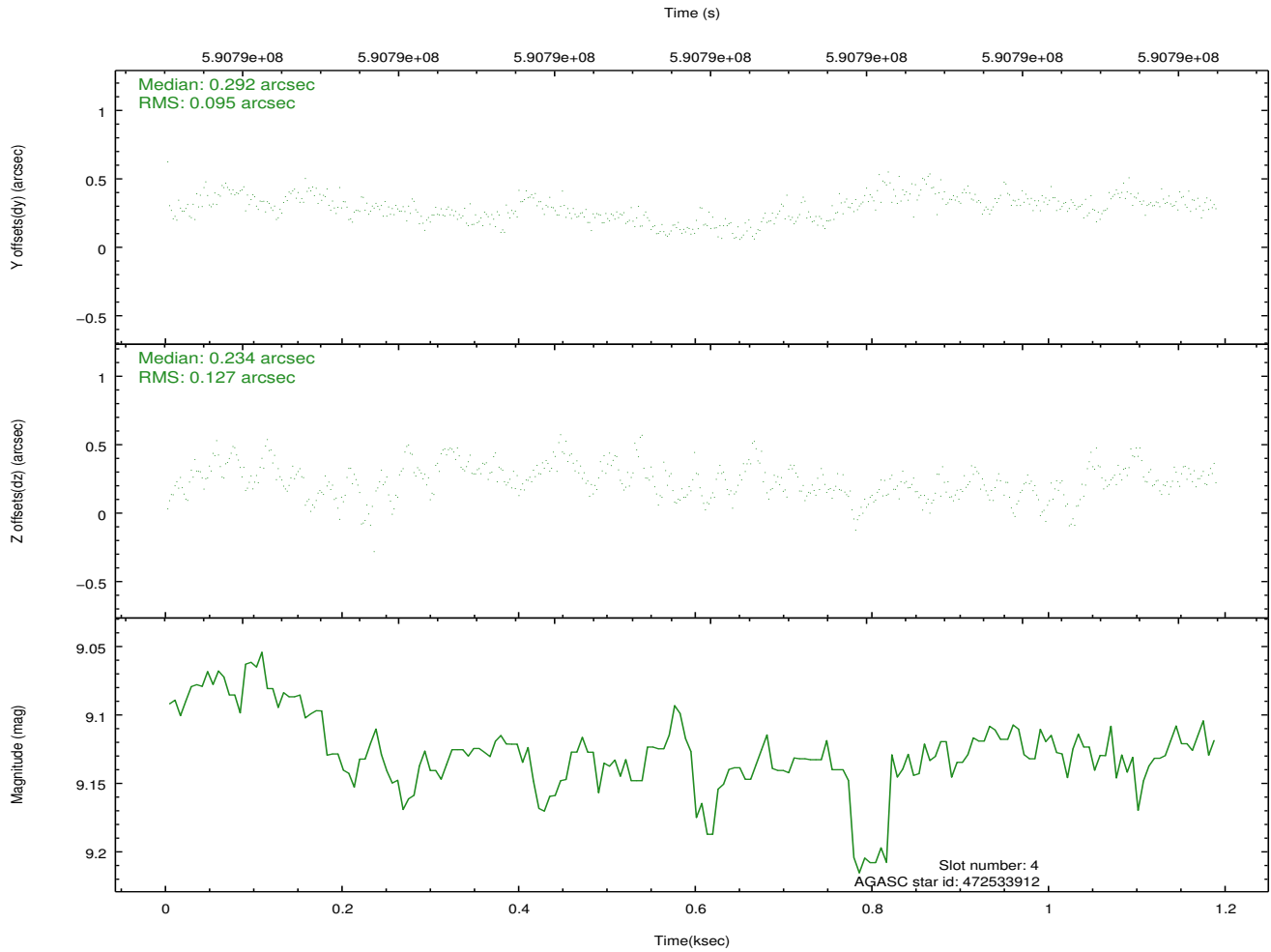
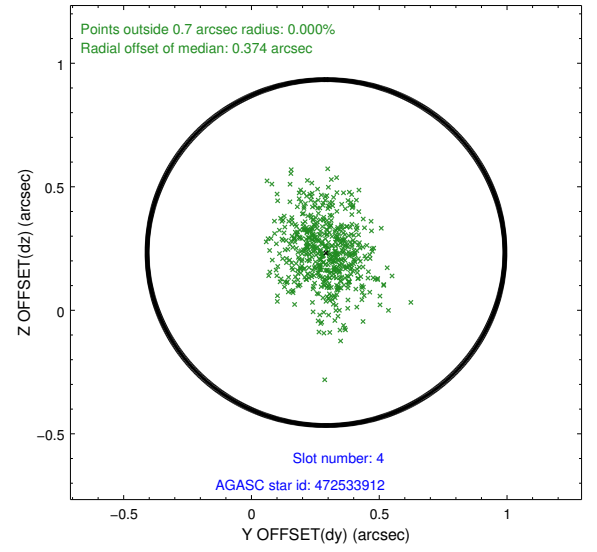
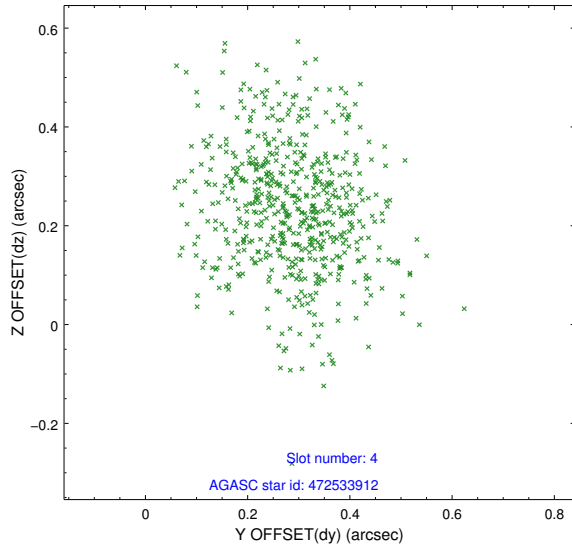


## 2.4 Star Slots

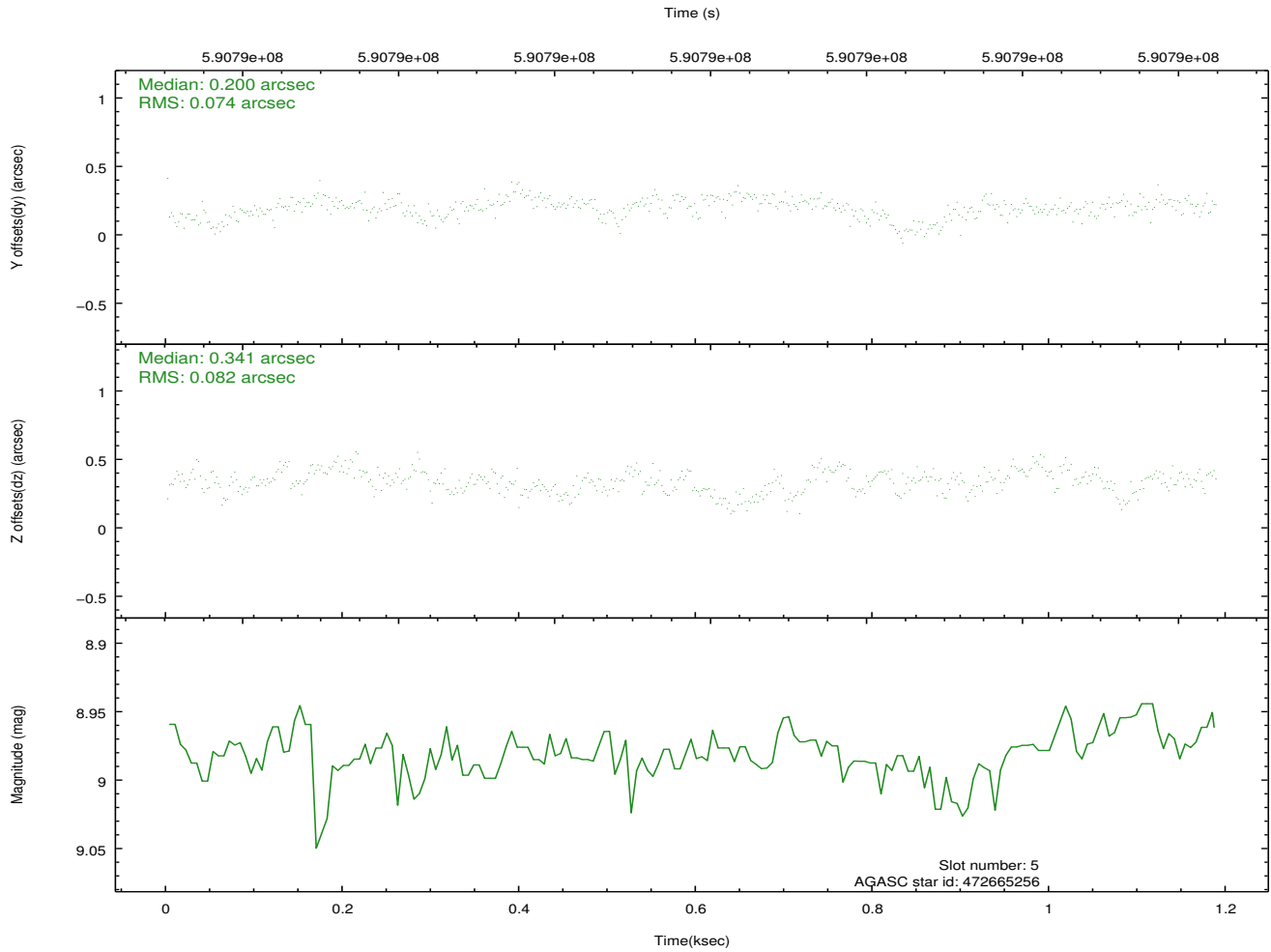
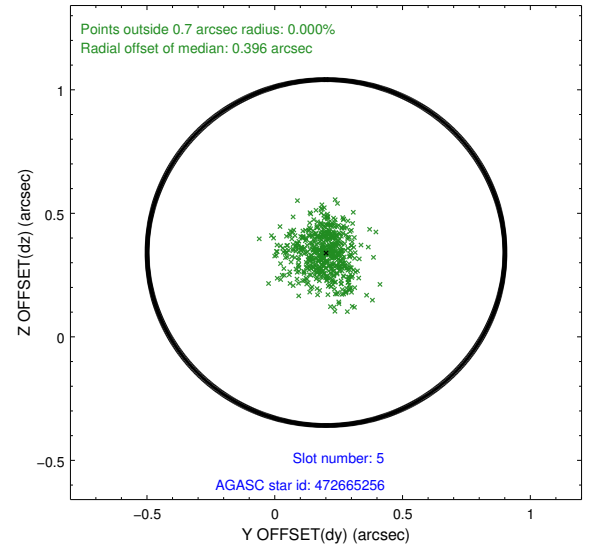
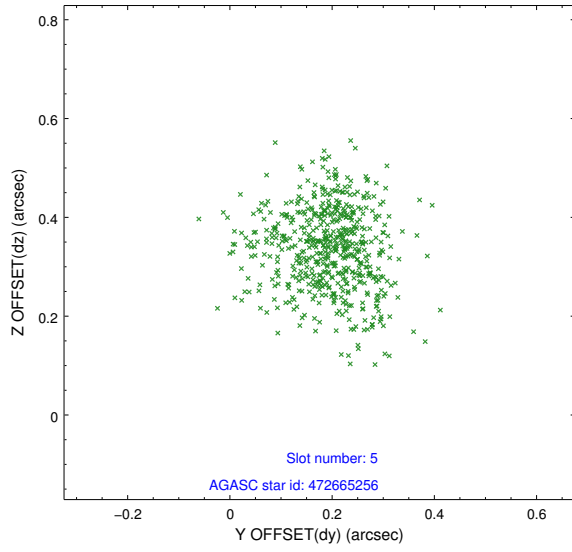
### 2.4.1 Slot 3



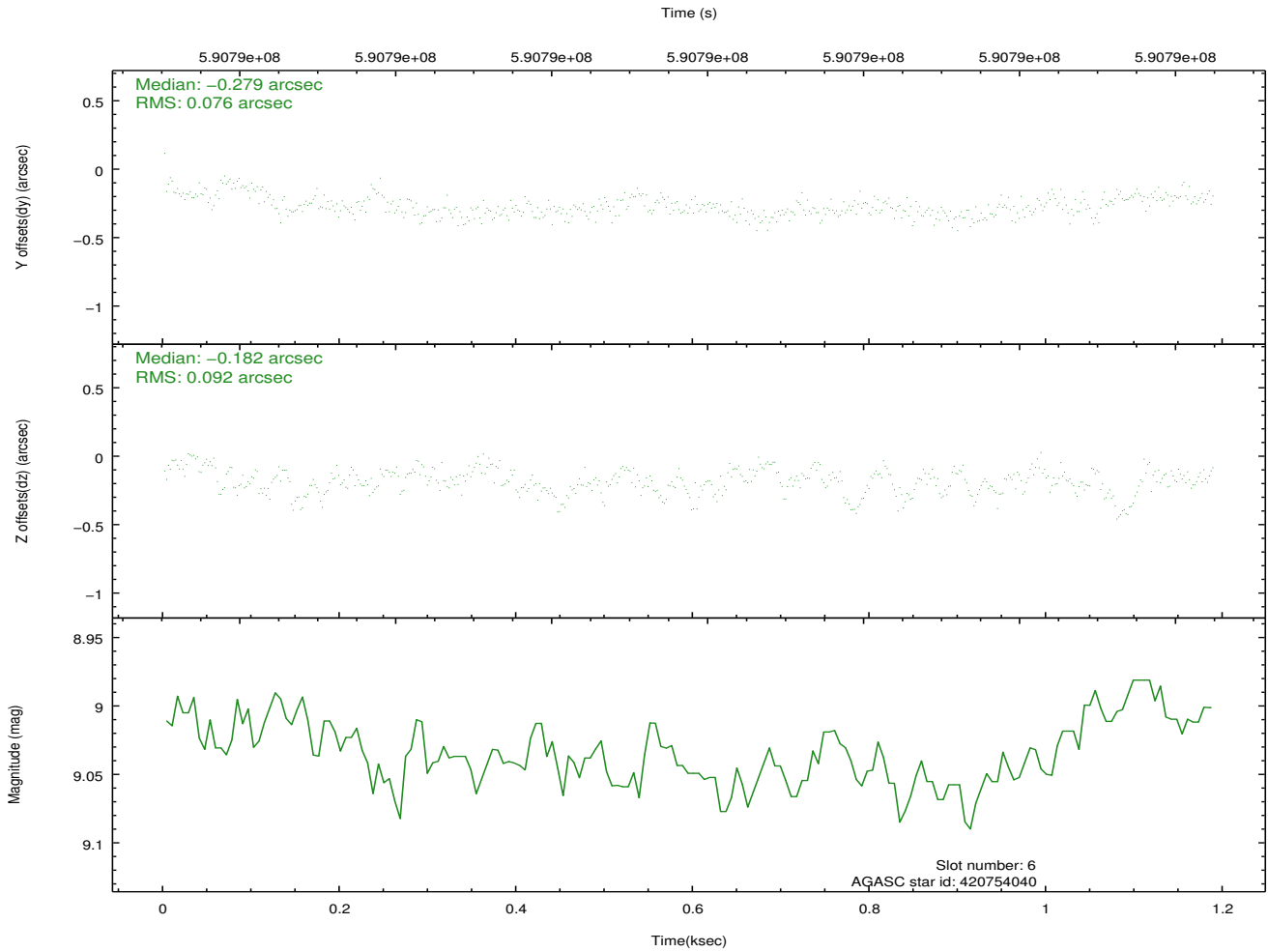
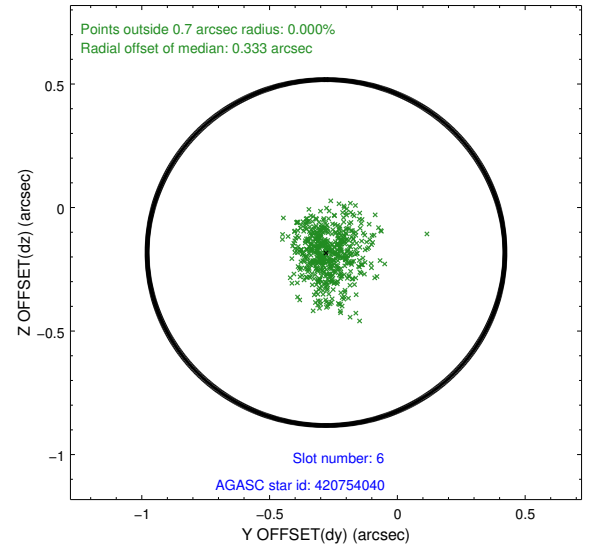
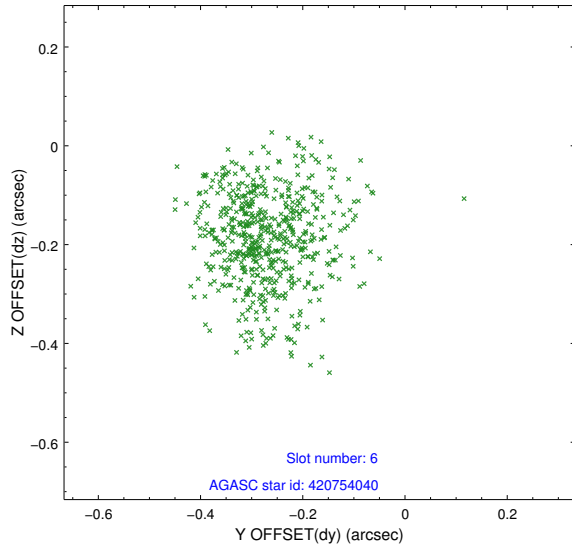
## 2.4.2 Slot 4



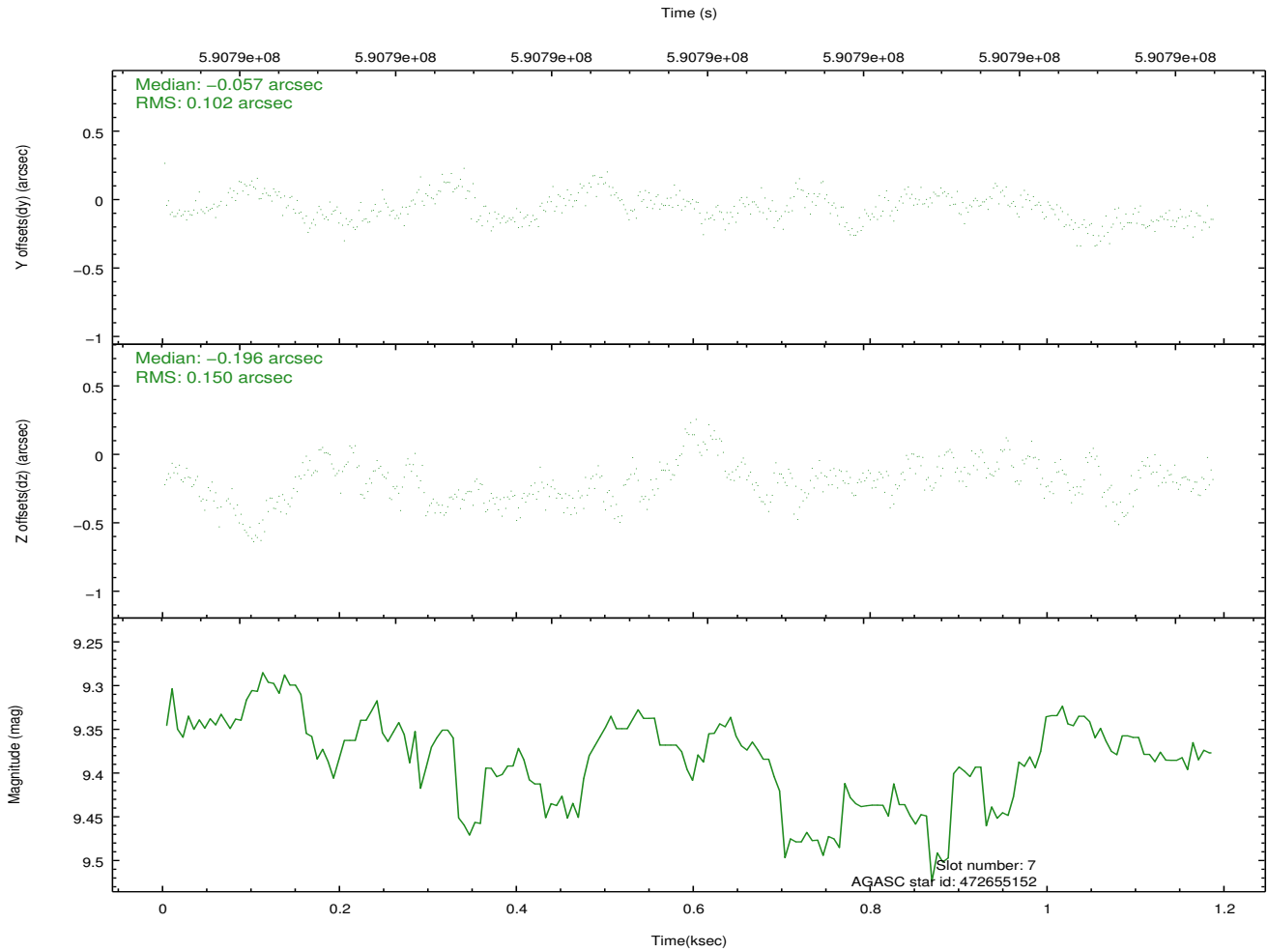
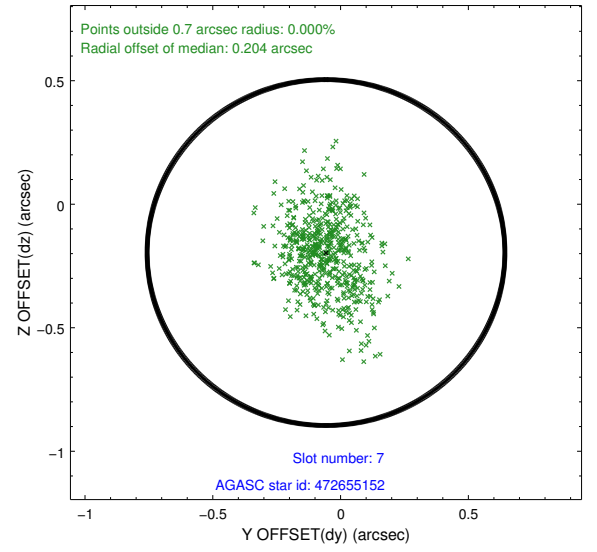
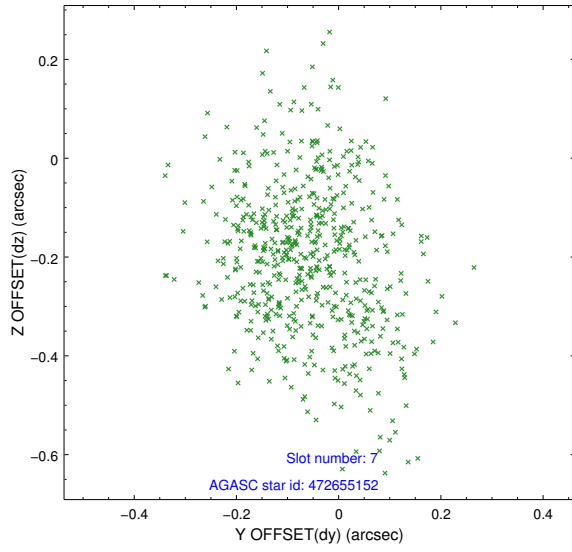
### 2.4.3 Slot 5



## 2.4.4 Slot 6

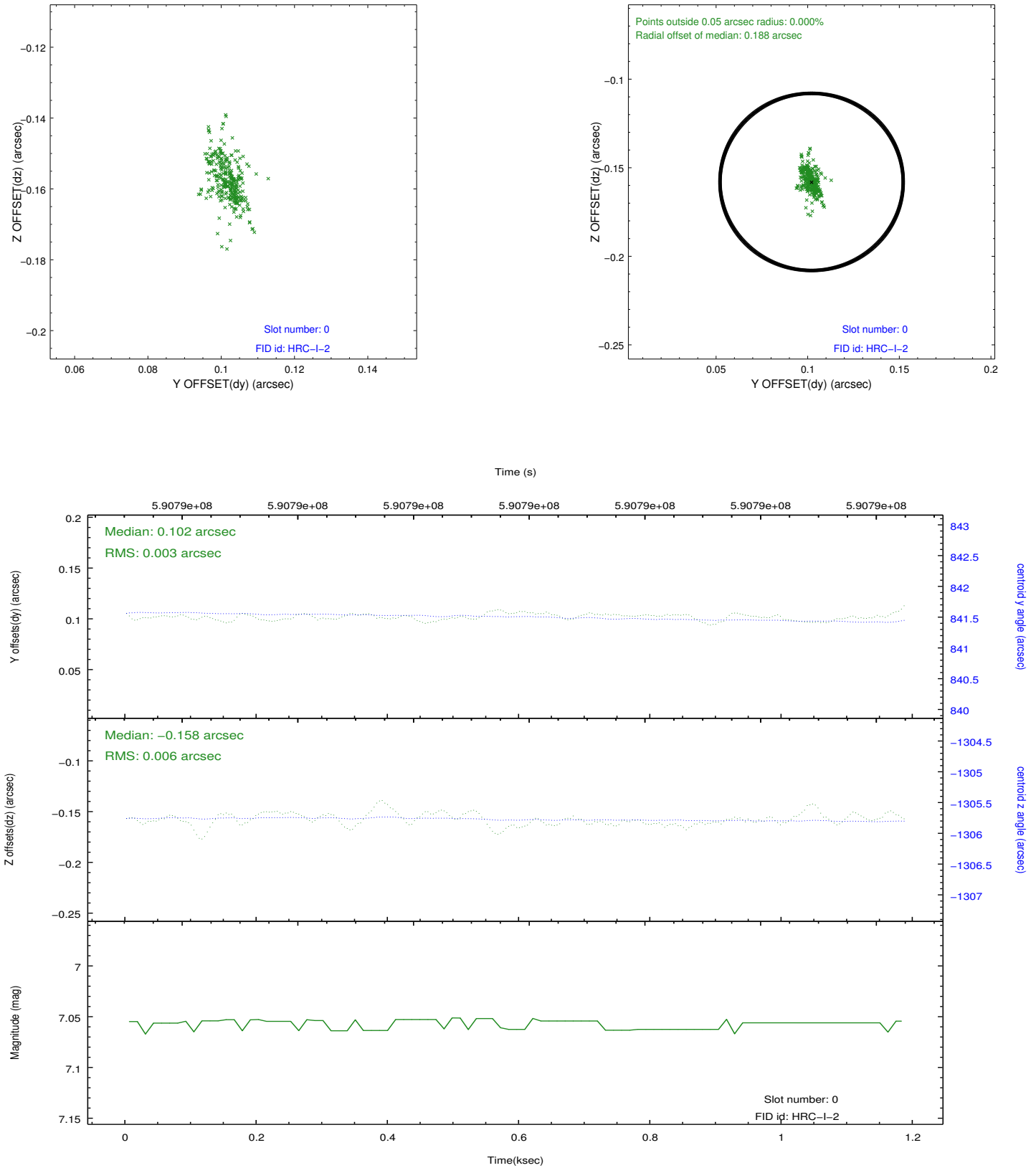


## 2.4.5 Slot 7

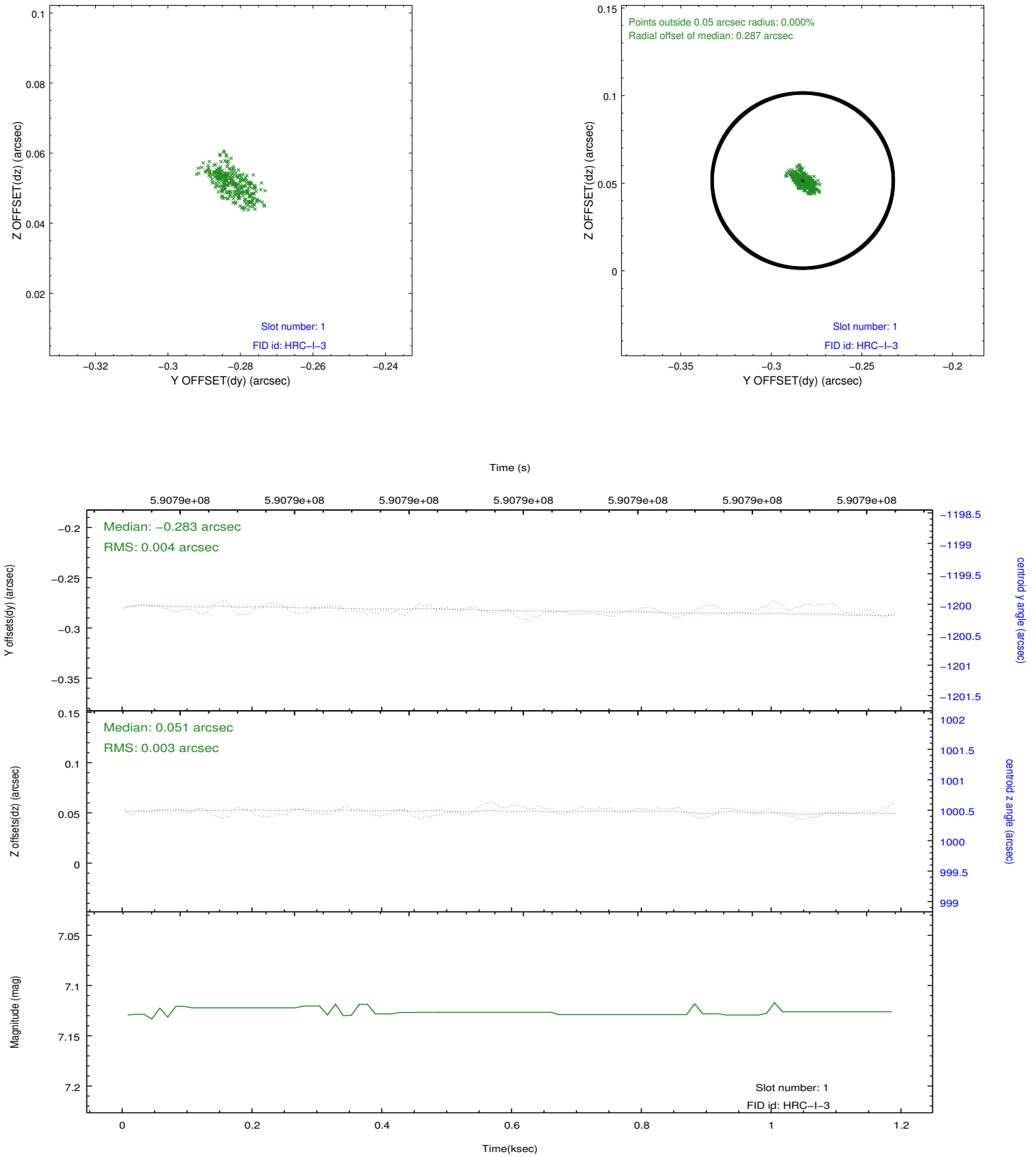


## 2.5 FID Slots

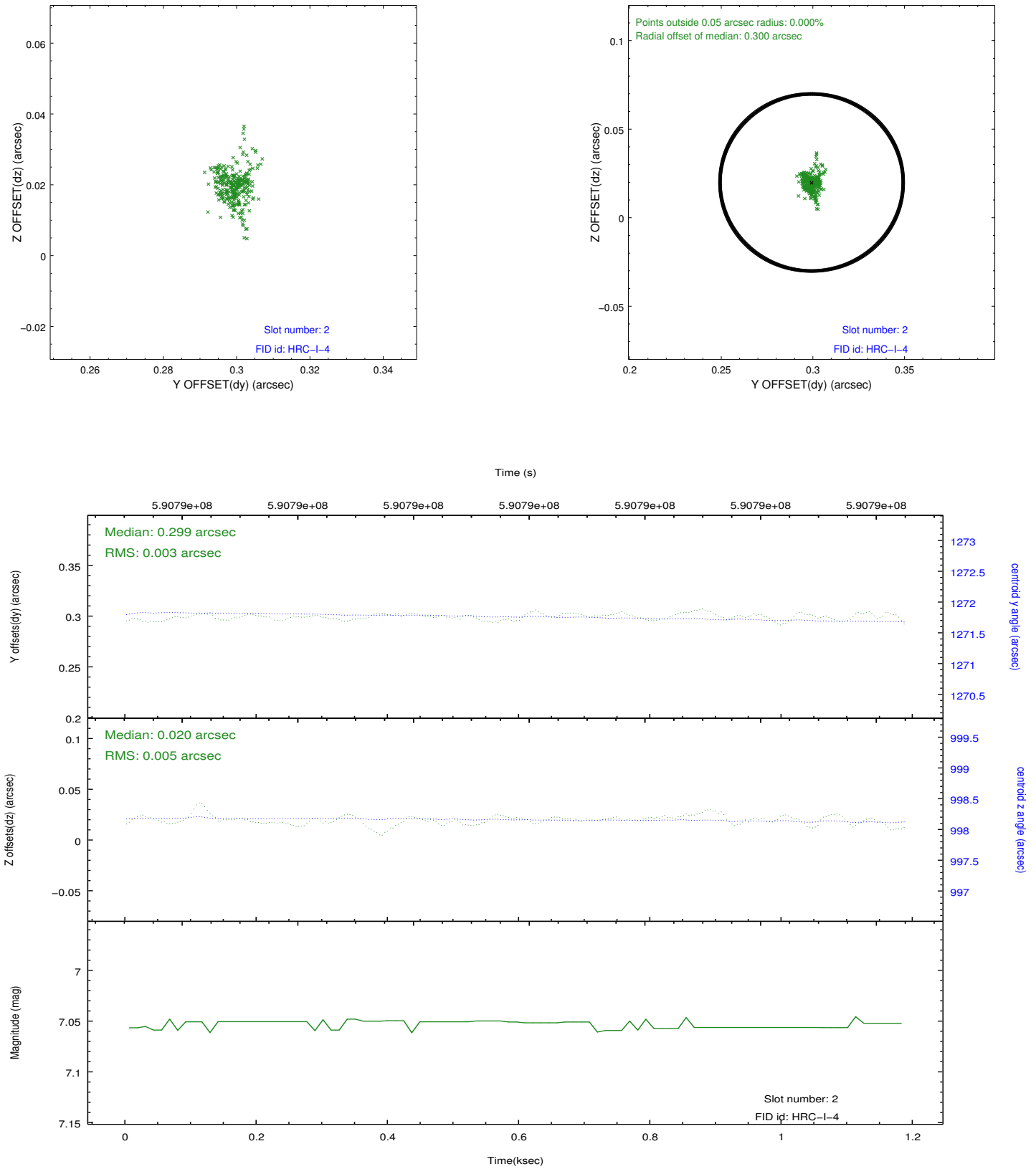
### 2.5.1 Slot 0



## 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)	2016.09.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1861813184023

### A.2 Comments