

# V&V Reference Report

## L2 ASCDS Version : 10.5.1.1

Observation 18392 - L2 Version 1  
Chandra X-Ray Center

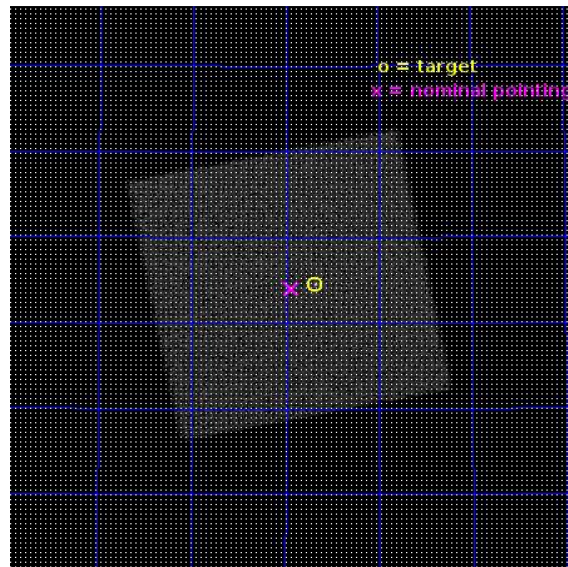
L2 Processing Date : Sep 20 2016

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# 1 Front

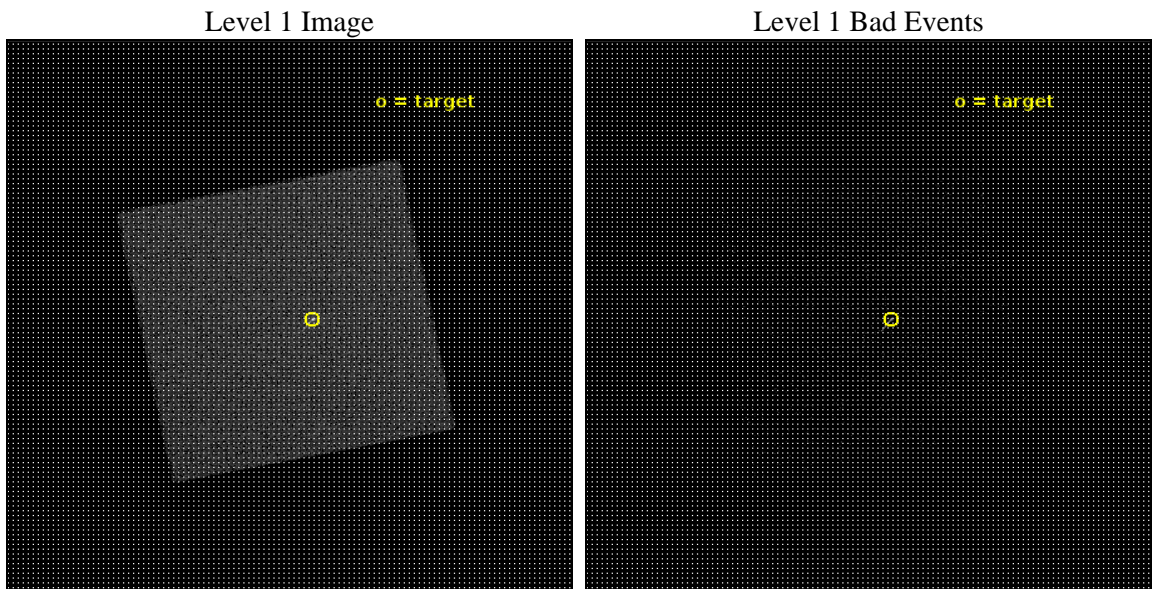
seq_num	291287	Sequence number
obs_id	18392	Observation id
title	AO-17 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.23332809158	Nominal RA [deg]
dec_nom	45.733464077581	Nominal Dec [deg]
roll_nom	213.67987003538	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1180.0313179493	[s]
livetime	1166.4018380492	Ontime multiplied by DTCOR
l2events	115221	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	1180.0313179493	[s]
caldbver	4.7.2	&#160	l1events	193989	Number of level 1 events
date	2016-09-21T02:05:17	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

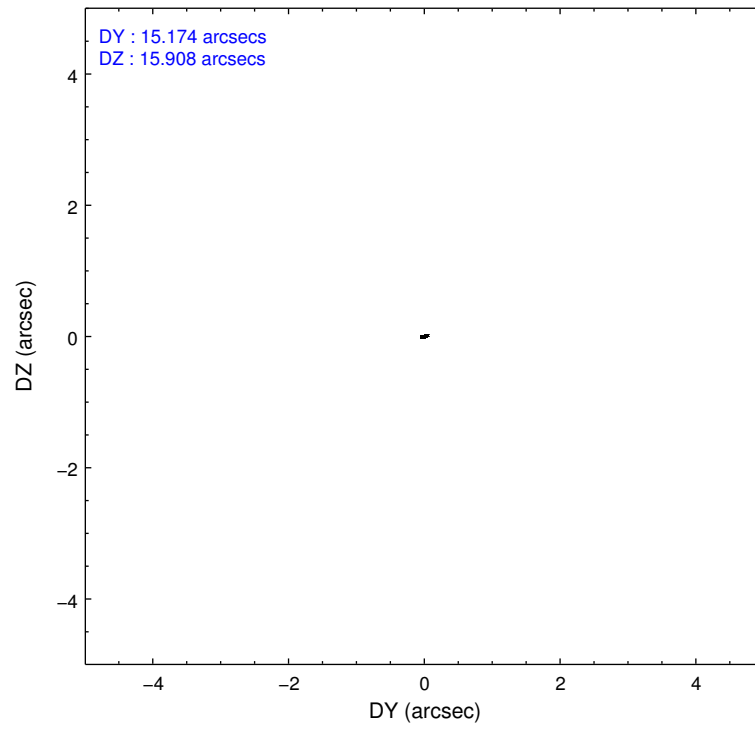
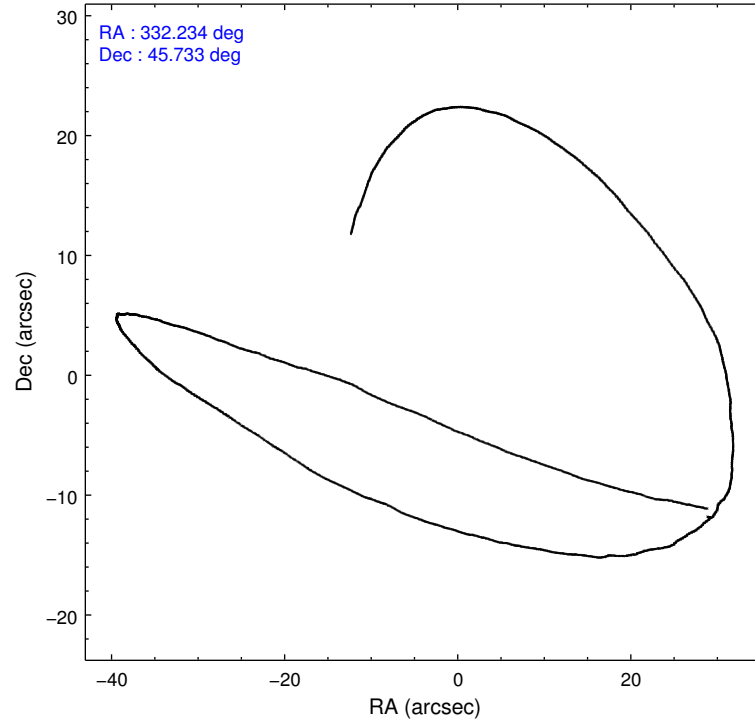
	<b>segment 0</b>
level 1 events	193989
rejected events	42430
rejected %	21%

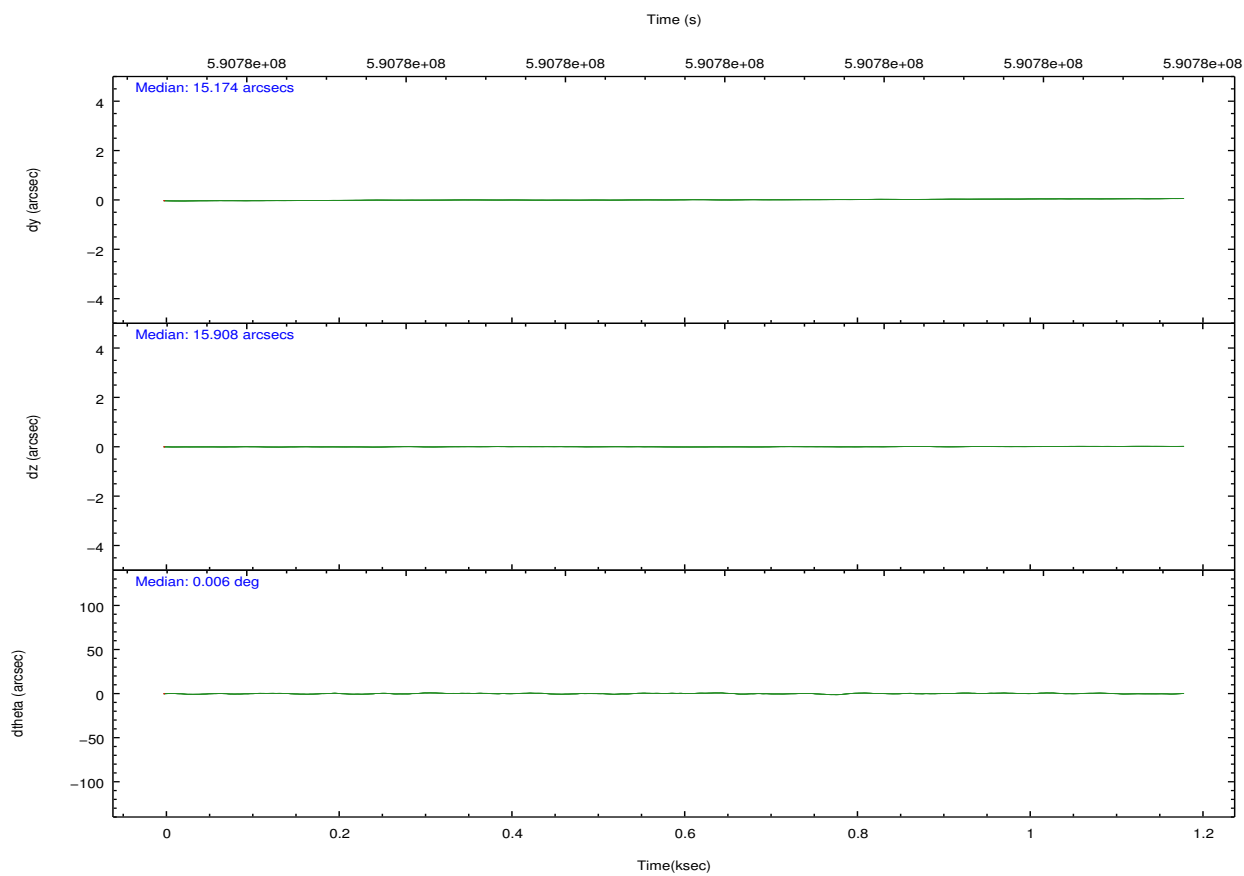
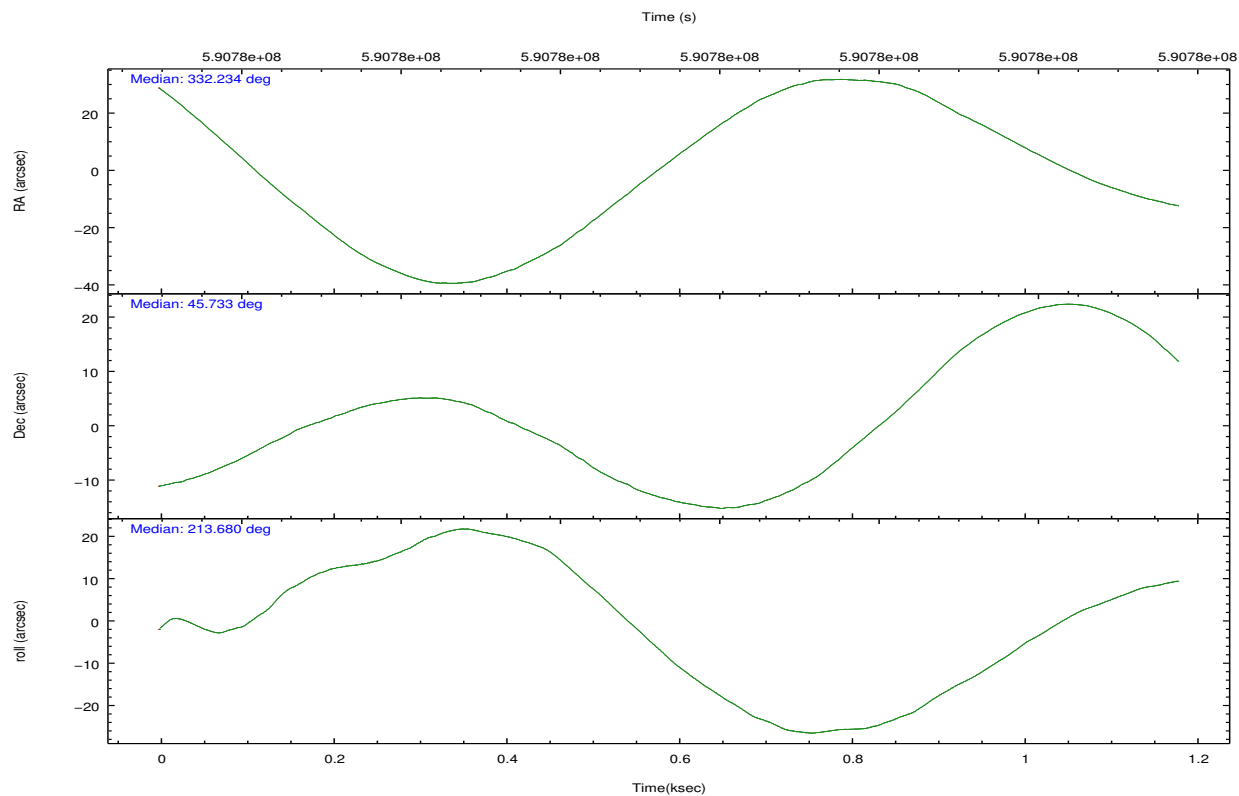
## 2.2 Compared Parameters

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	332.250114	332.2333280915811
[deg] Pointing Dec	45.757675	45.73346407758111
[deg] Pointing Roll	213.763041	213.6798700353787
[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)	590783537.184000	590783161.7286201
Observation start date	2016-09-20T18:31:09	2016-09-20T18:26:01
[s] Observation end time (MET)	590784537.184000	590784671.55371
Observation end date	2016-09-20T18:47:49	2016-09-20T18:51:11

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

## 2.3 Aspect





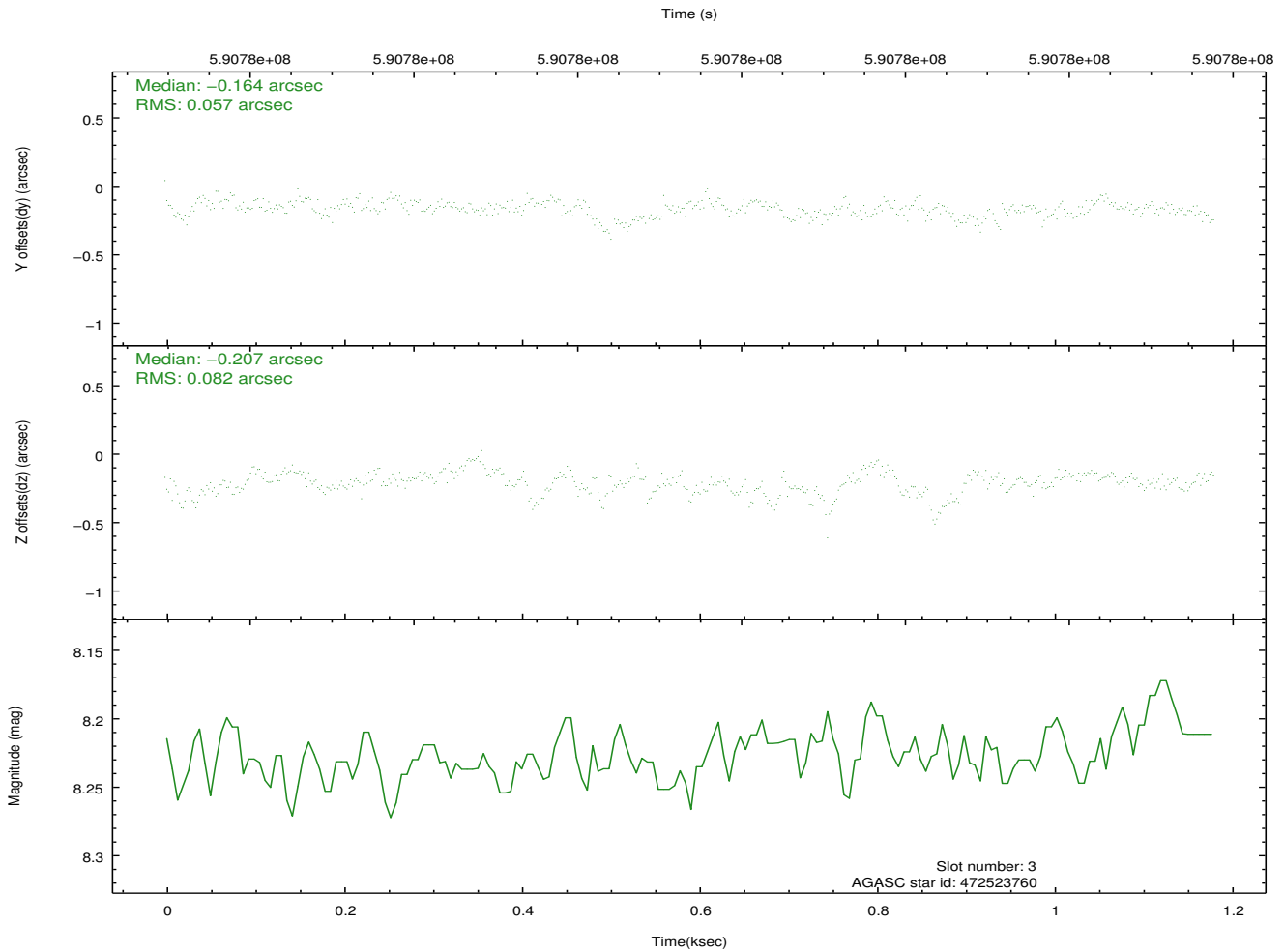
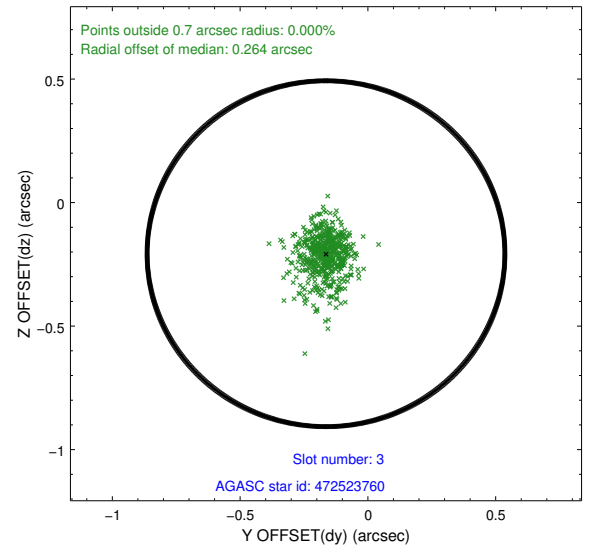
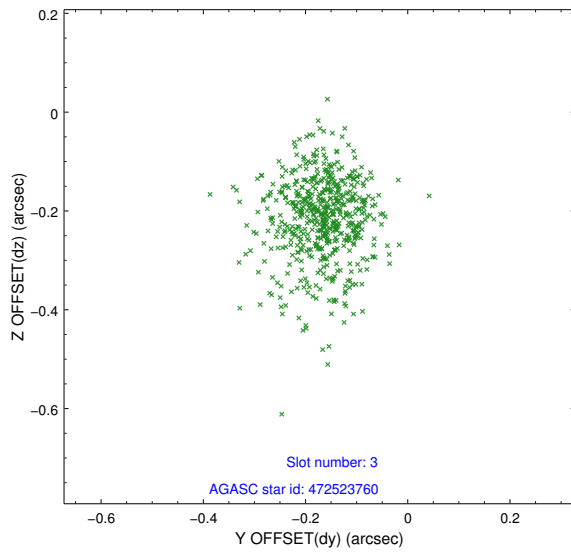
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-2	7.05	289	0.108	-0.158	0.006	0.010	0.000000	0.000000	841.82	-1305.70
1	FID		HRC-I-3	7.13	288	-0.281	0.057	0.006	0.011	0.000000	0.000000	-1196.87	996.01
2	FID		HRC-I-4	7.05	289	0.291	0.014	0.007	0.011	0.000000	0.000000	1267.91	1001.68
3	GUIDE	used	472523760	8.23	577	-0.164	-0.207	0.099	0.179	331.645363	45.403260	1977.74	208.43
4	GUIDE	used	472665256	8.99	577	0.182	0.176	0.147	0.236	332.808125	46.195041	-2029.09	-537.43
5	GUIDE	used	472655152	9.40	577	-0.046	-0.226	0.181	0.295	332.504239	45.862991	-743.40	39.34
6	GUIDE	used	472654568	9.41	576	-0.294	-0.021	0.191	0.286	332.194449	45.063576	1505.89	2000.98
7	GUIDE	used	472663080	9.37	575	0.319	0.270	0.165	0.270	332.652741	46.473840	-2260.21	-1584.74

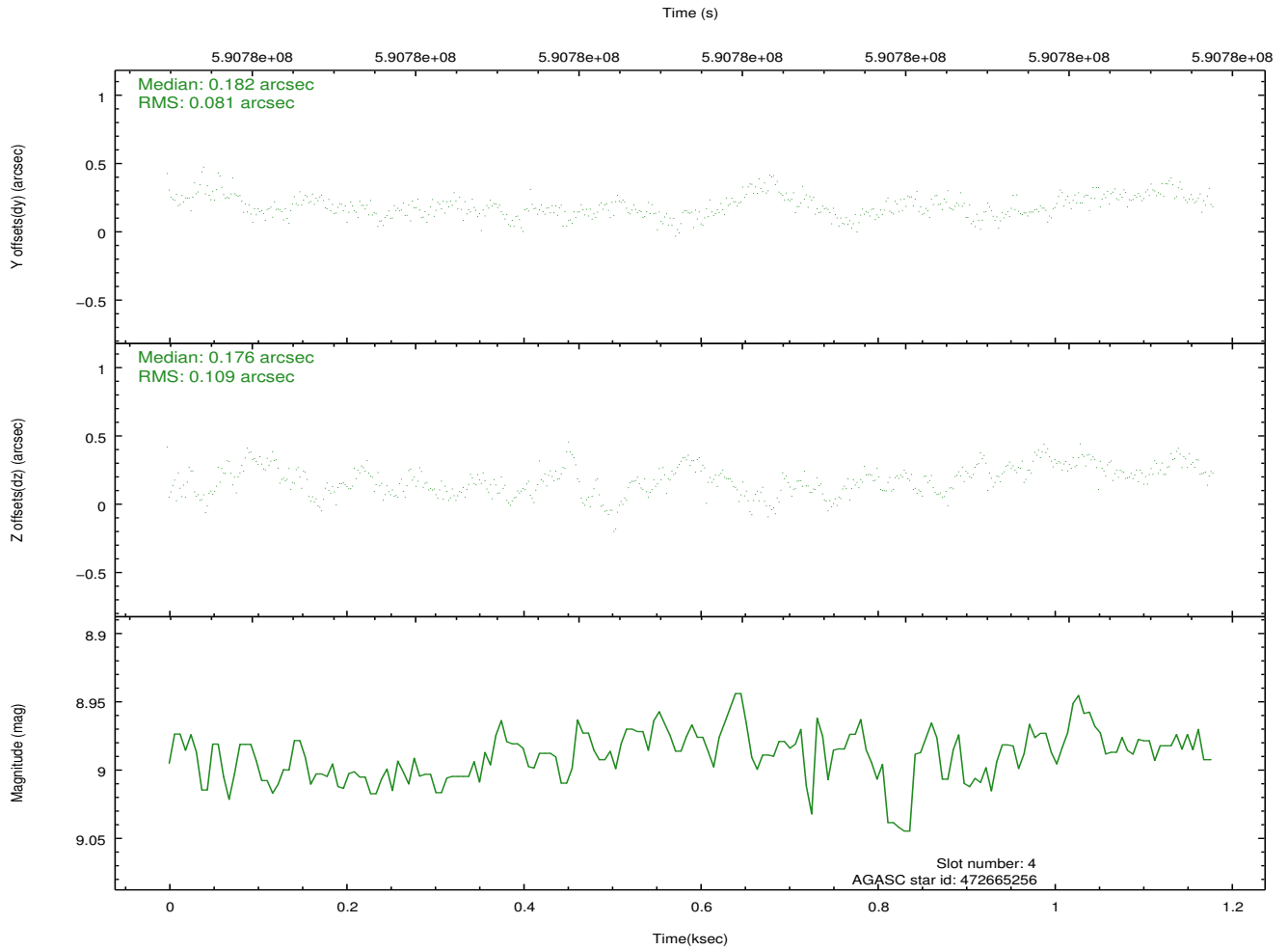
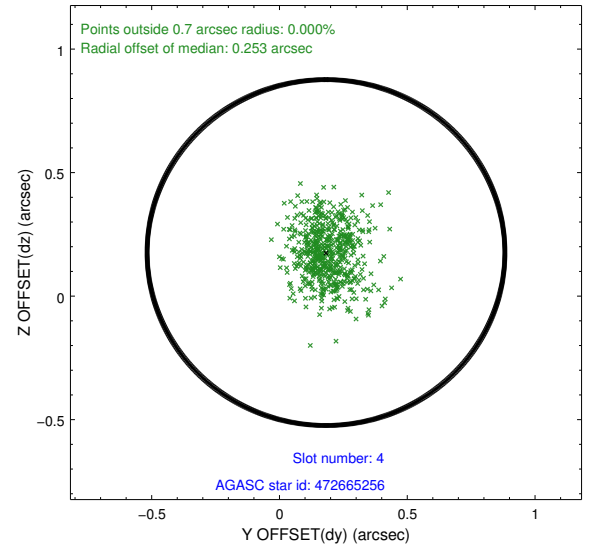
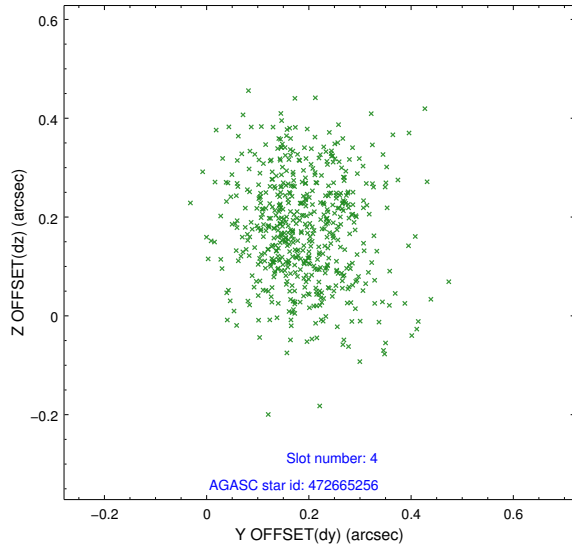


## 2.4 Star Slots

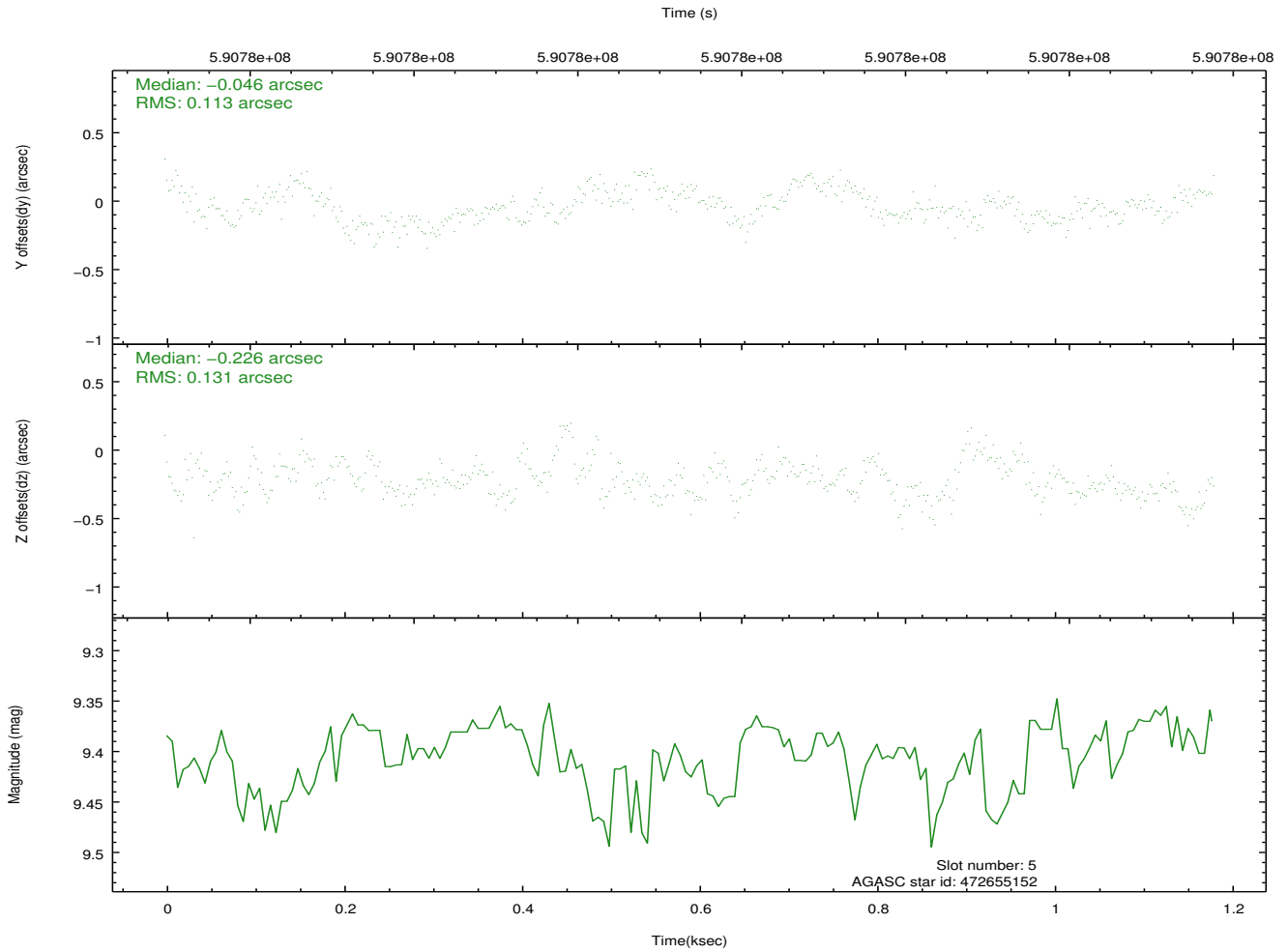
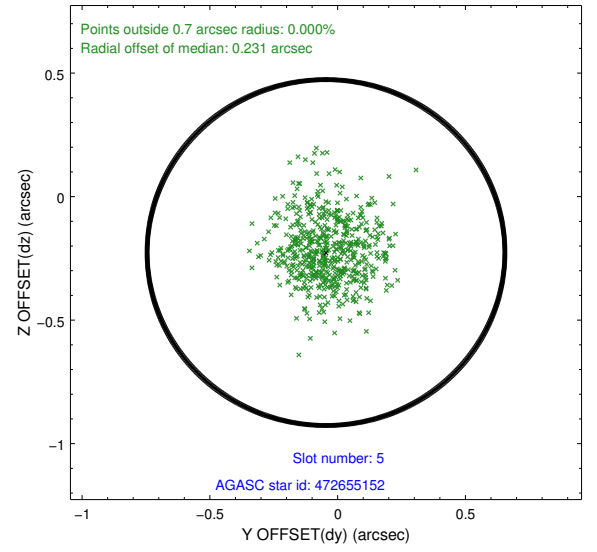
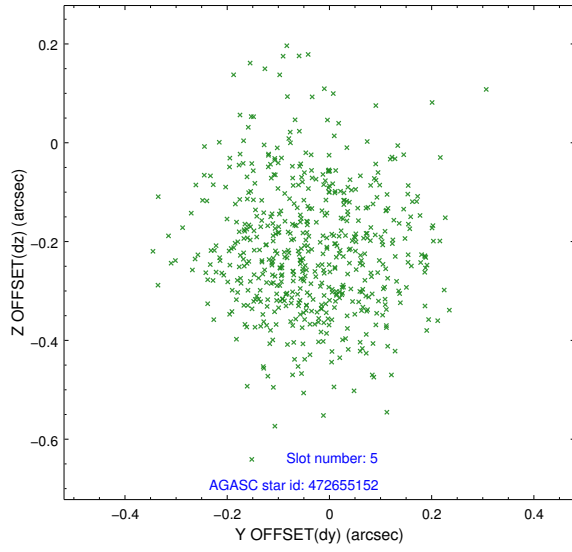
### 2.4.1 Slot 3



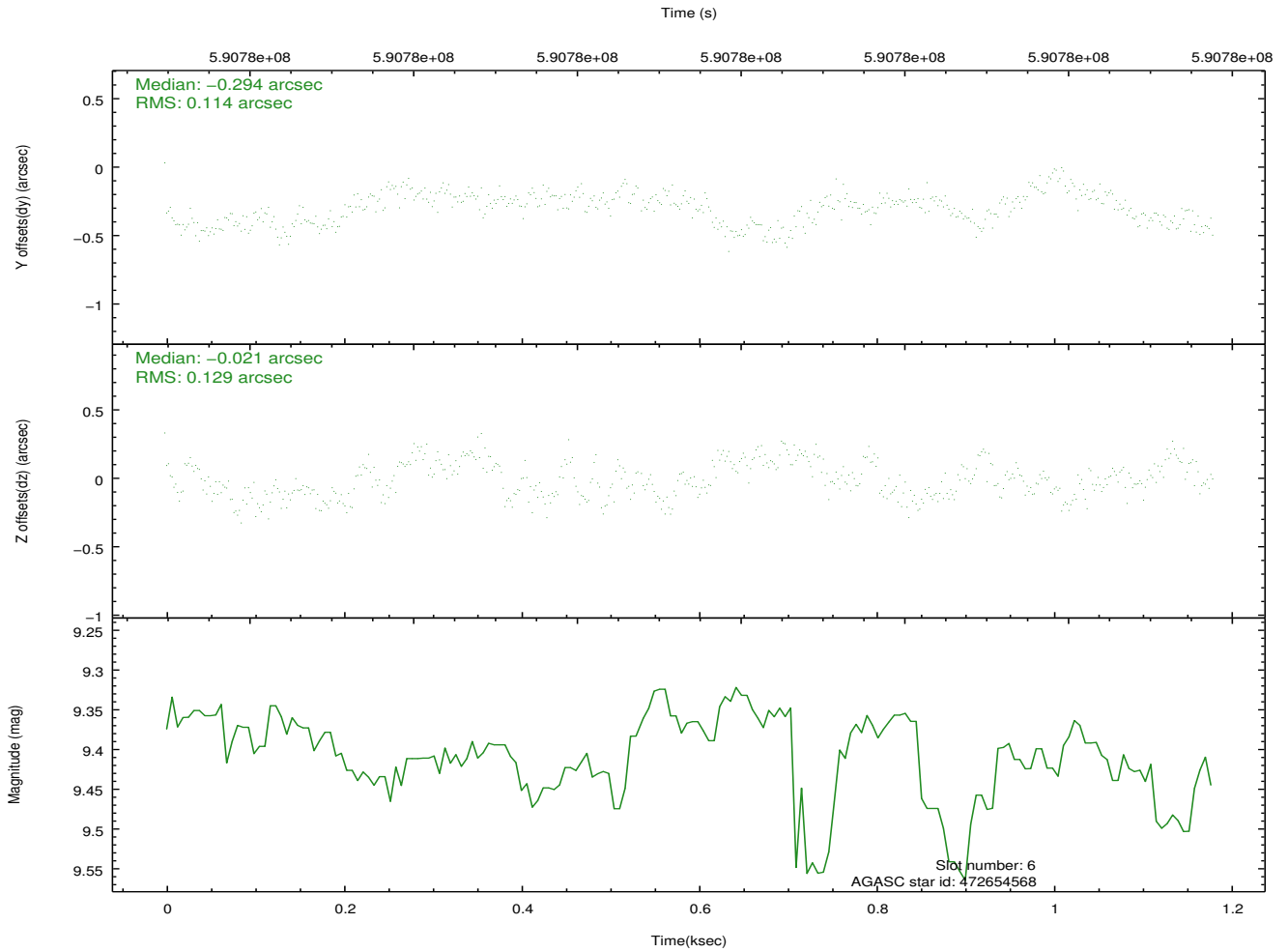
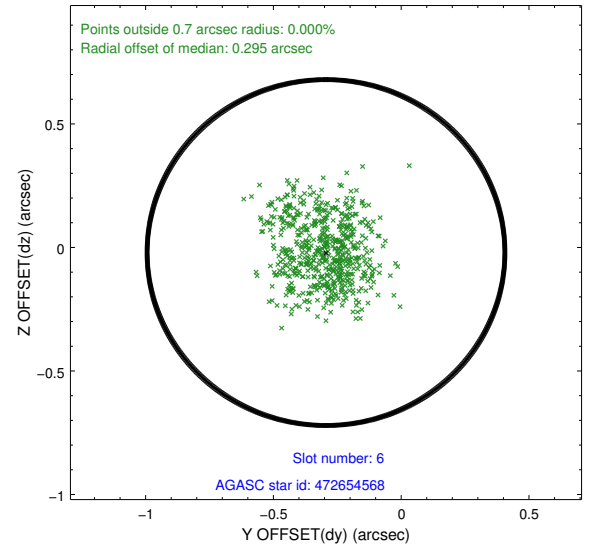
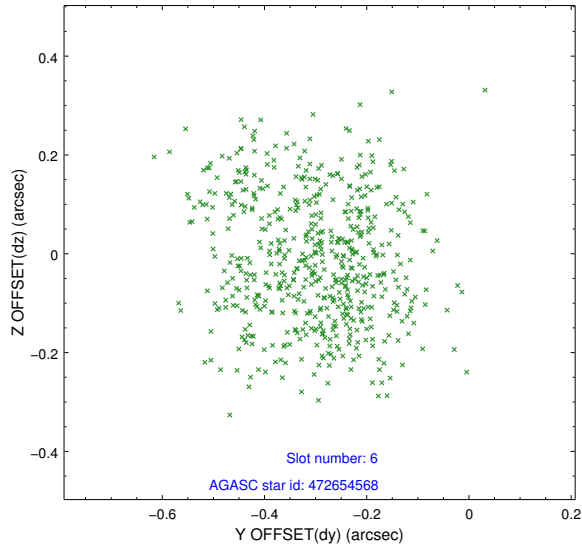
## 2.4.2 Slot 4



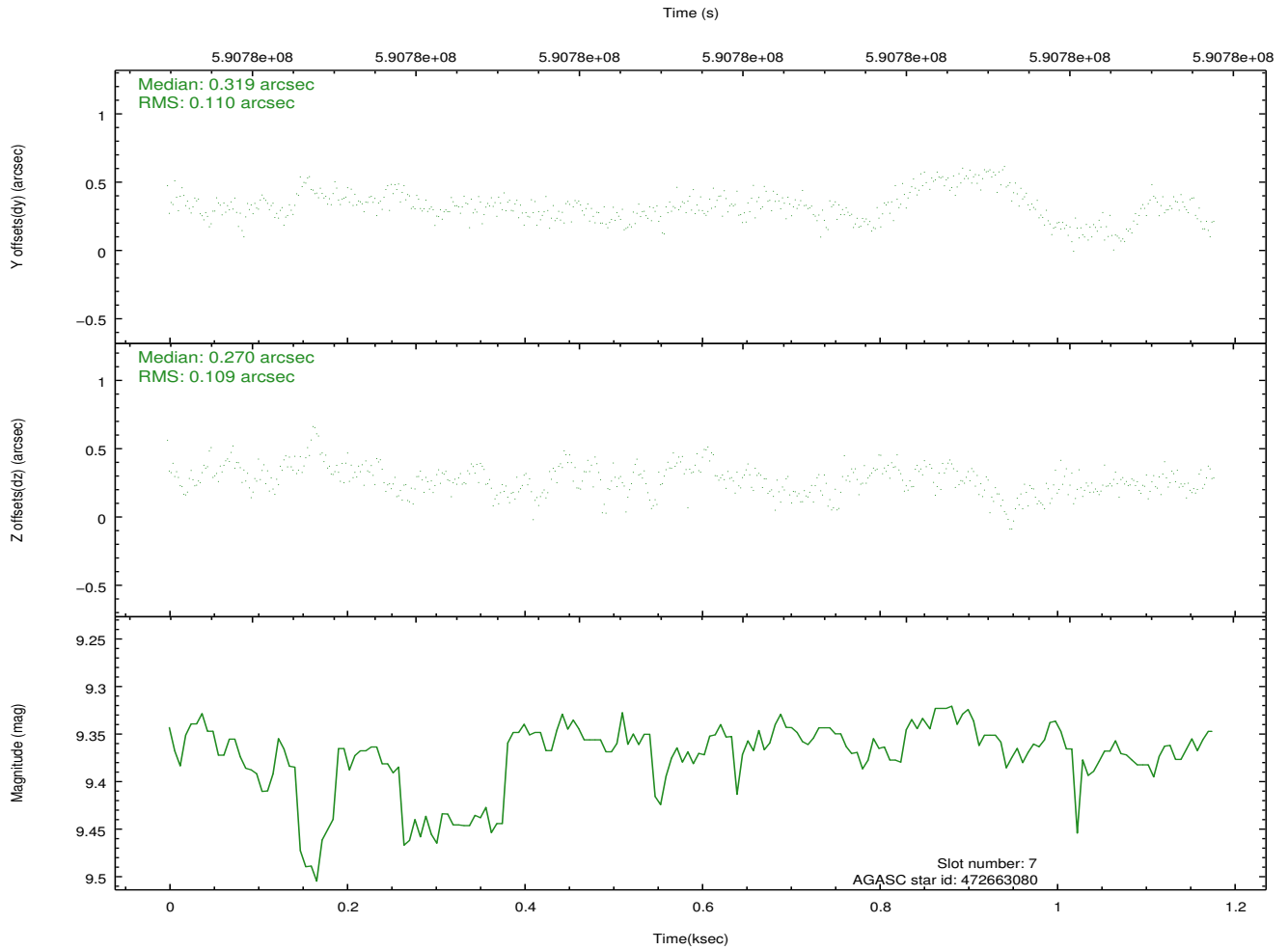
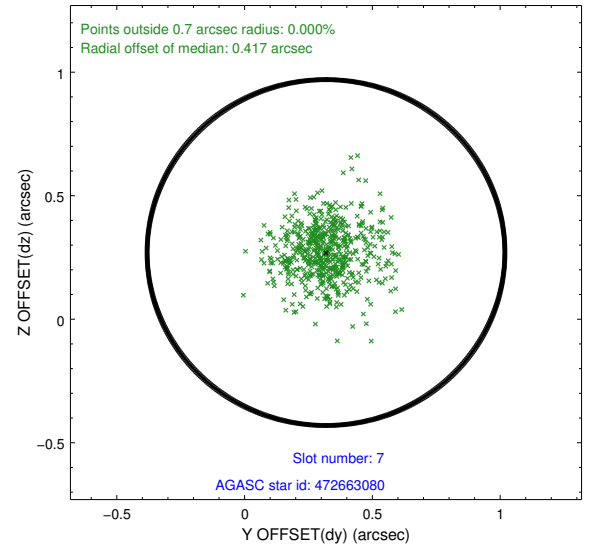
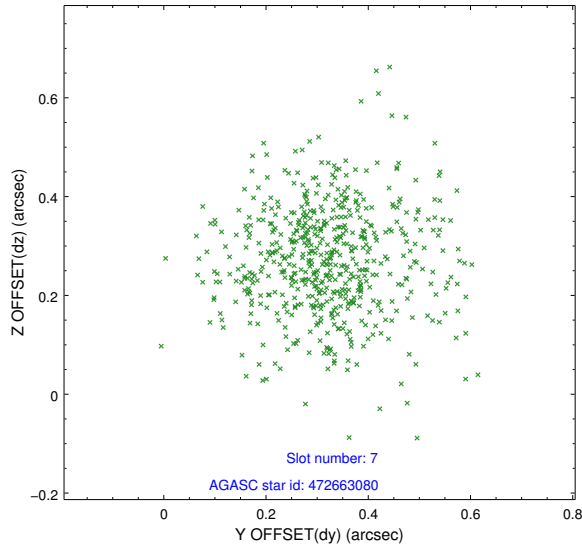
### 2.4.3 Slot 5



## 2.4.4 Slot 6

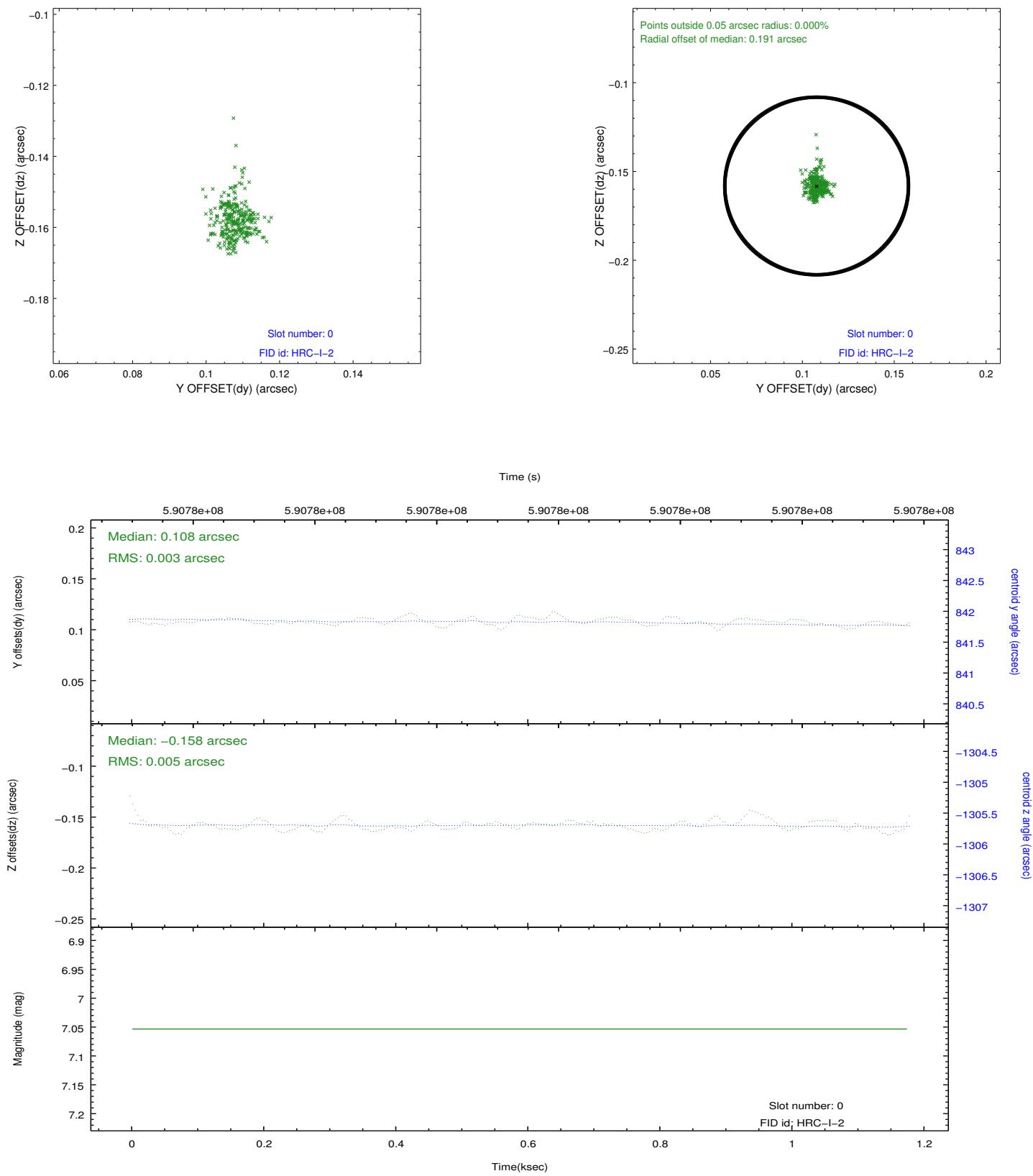


## 2.4.5 Slot 7

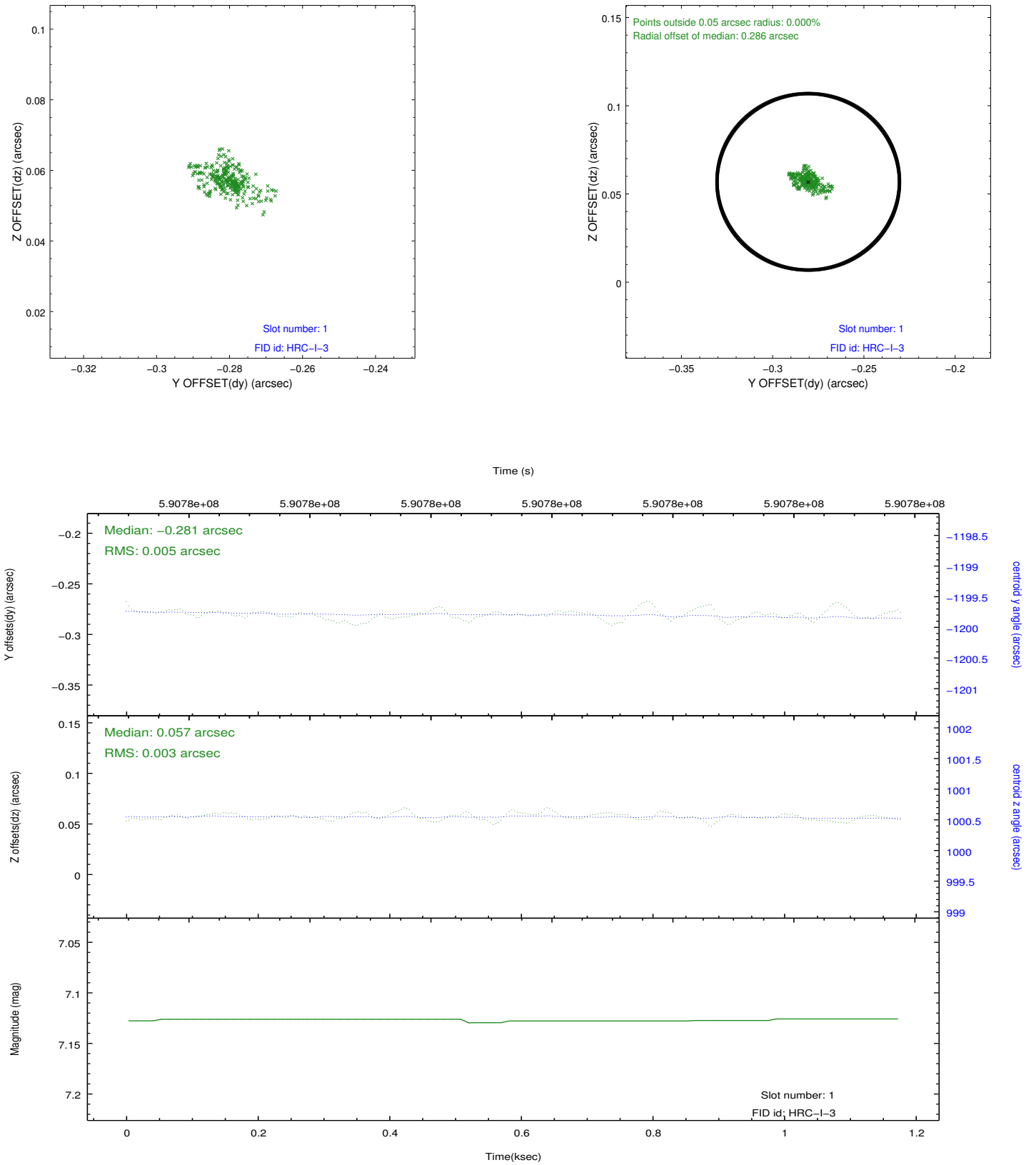


# 2.5 FID Slots

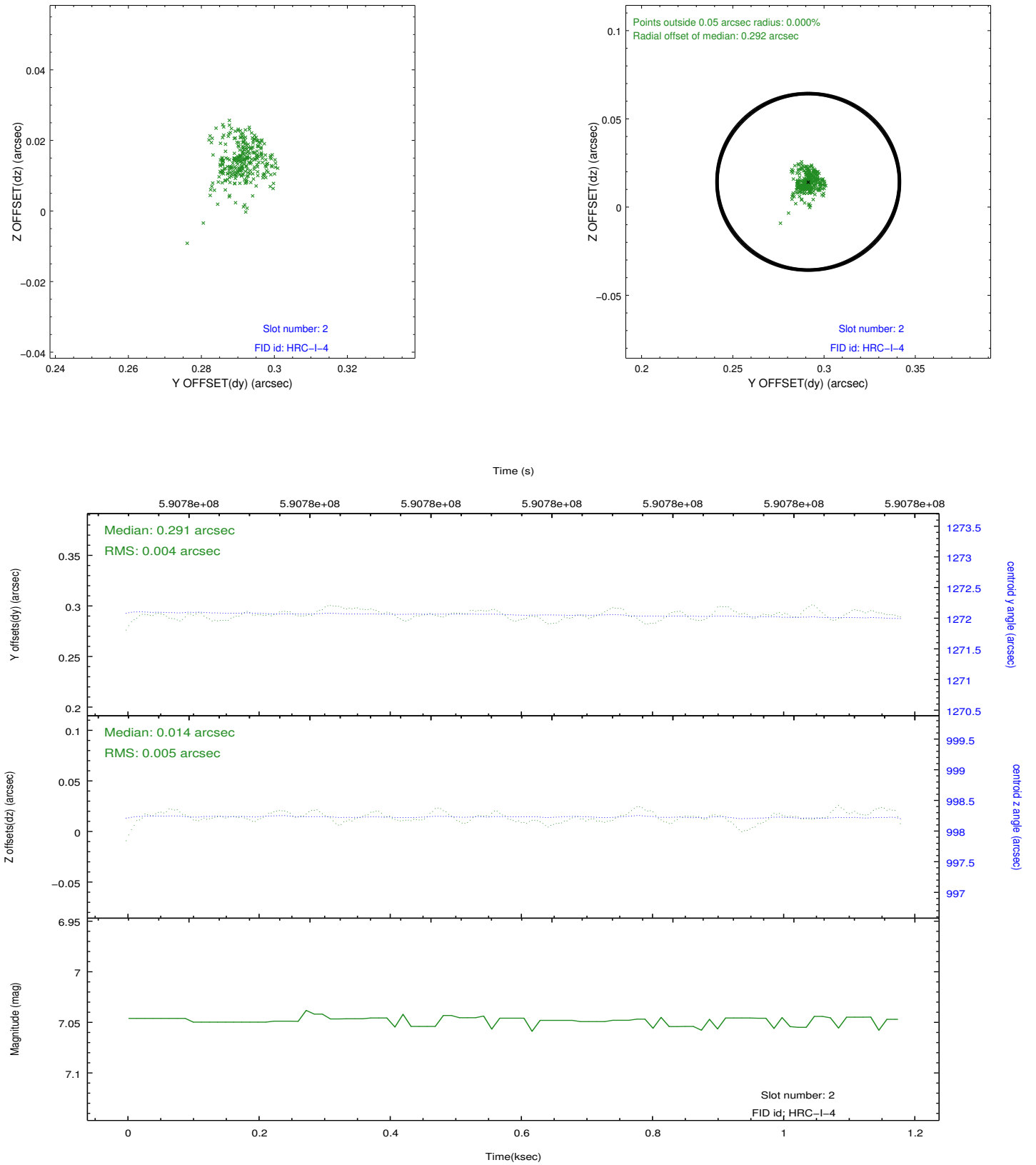
## 2.5.1 Slot 0



## 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	1.1800313179493

### A.2 Comments