

# V&V Reference Report

## L2 ASCDS Version : 10.5.1.1

Observation 18407 - L2 Version 1  
Chandra X-Ray Center

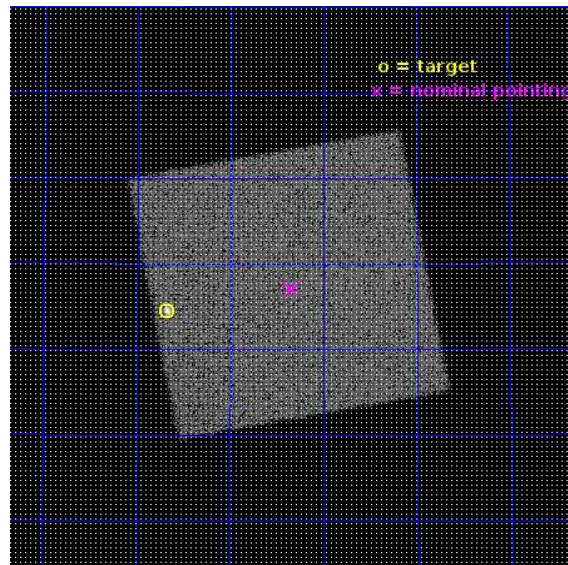
L2 Processing Date : Sep 21 2016

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# 1 Front

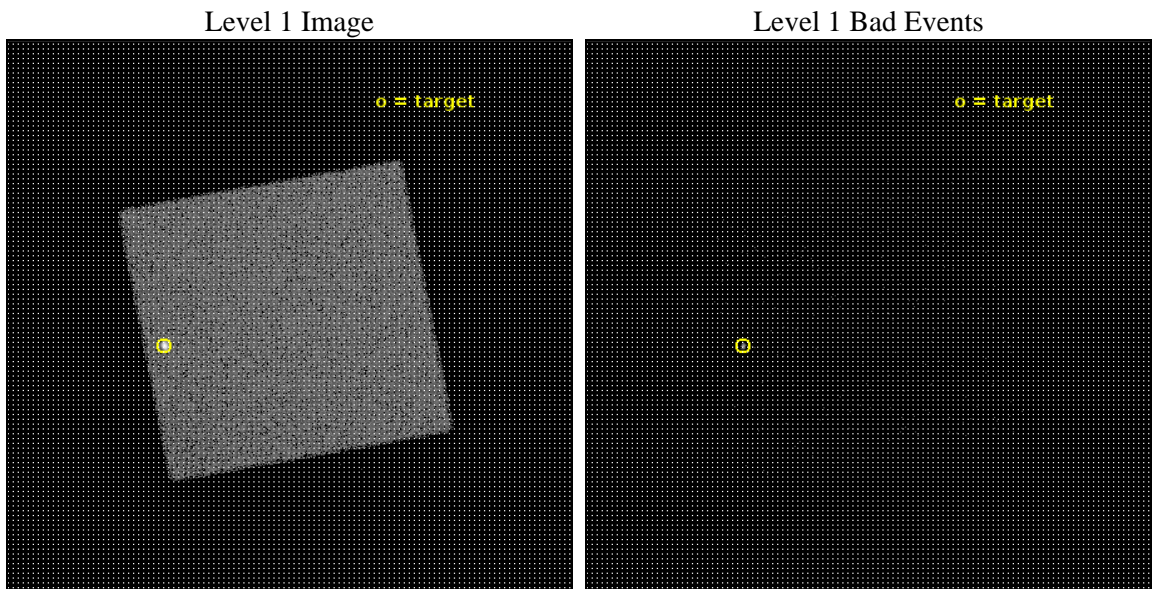
seq_num	291302	Sequence number
obs_id	18407	Observation id
title	AO-17 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	331.83619836424	Nominal RA [deg]
dec_nom	45.785329861313	Nominal Dec [deg]
roll_nom	214.44968689222	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1185.6688182354	[s]
livetime	1172.1016543702	Ontime multiplied by DTCOR
l2events	113504	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	1185.6688182354	[s]
caldbver	4.7.2	&#160	l1events	179329	Number of level 1 events
date	2016-09-21T12:48:47	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

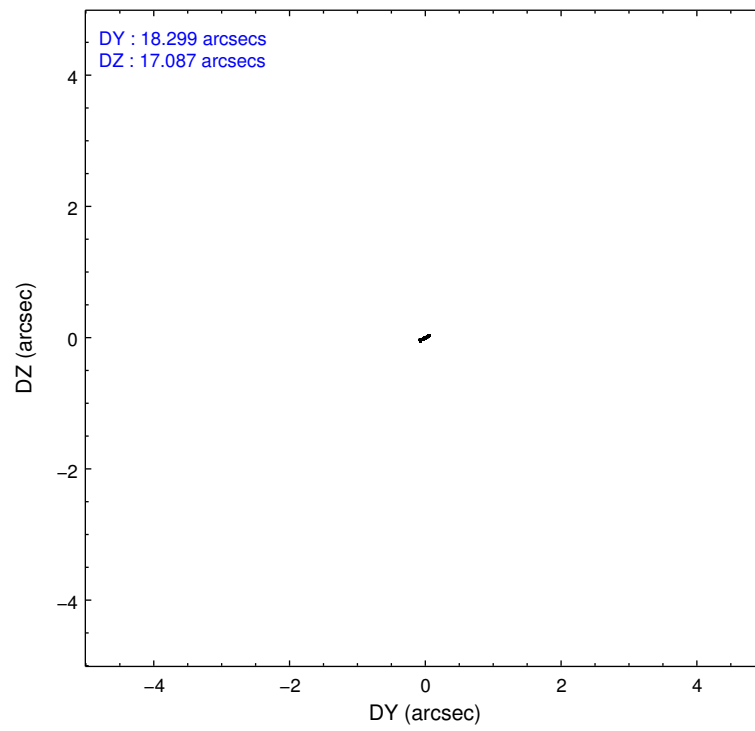
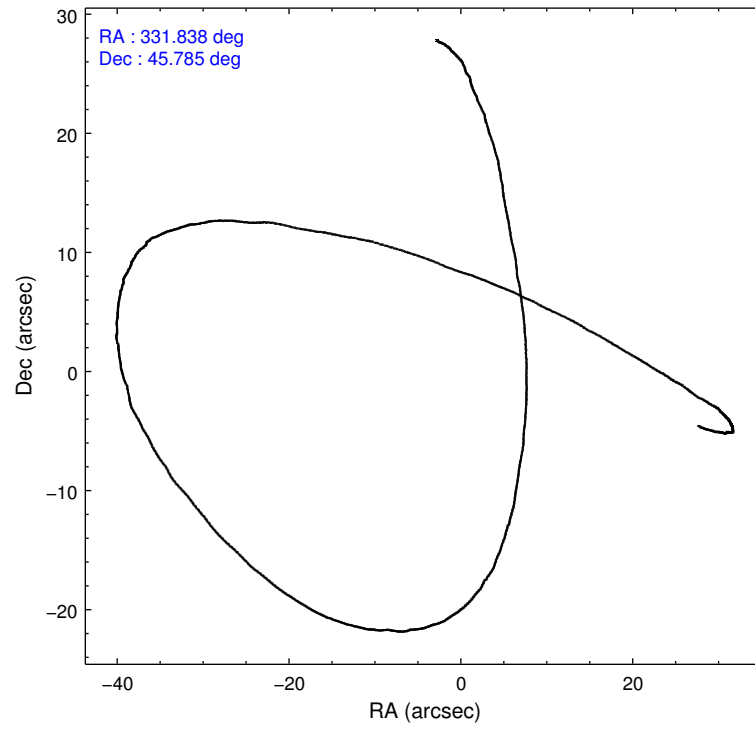
#### Level 1 Events

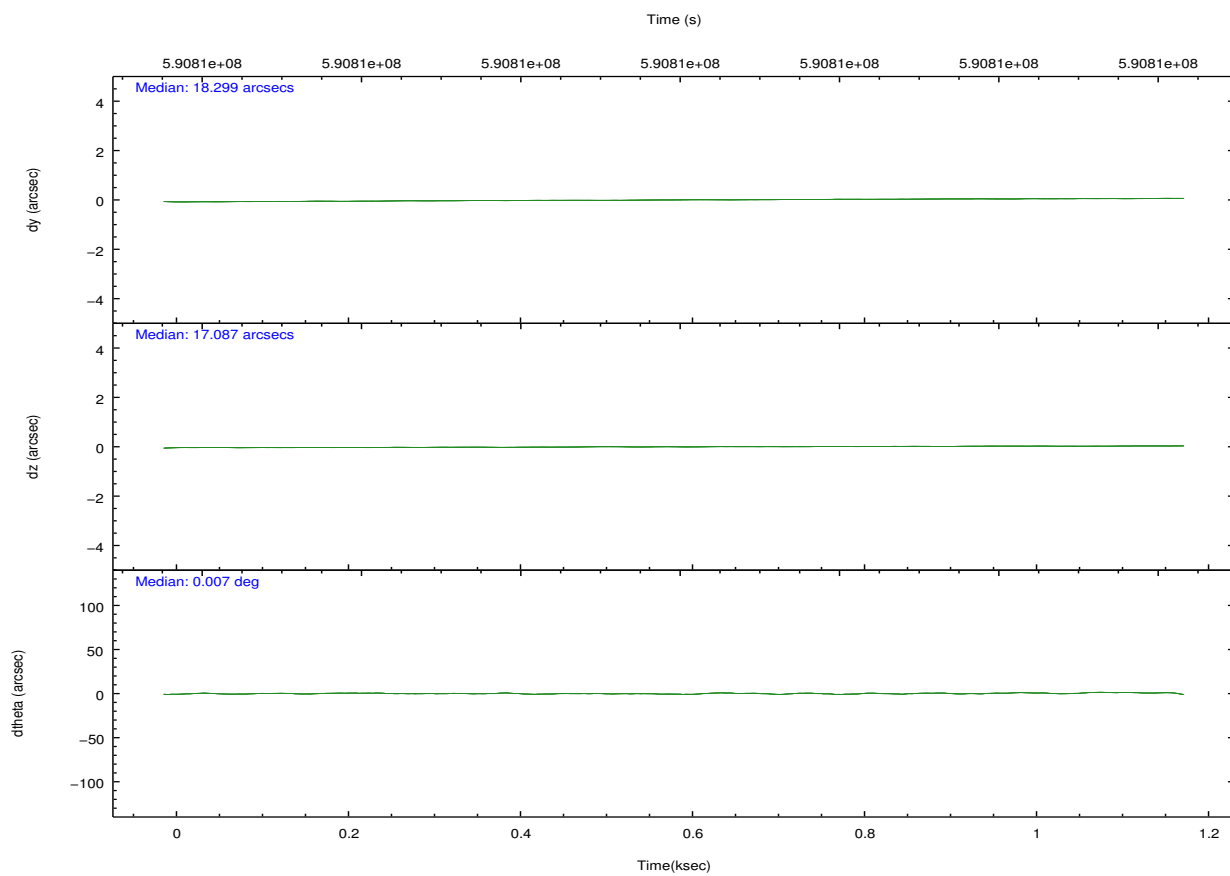
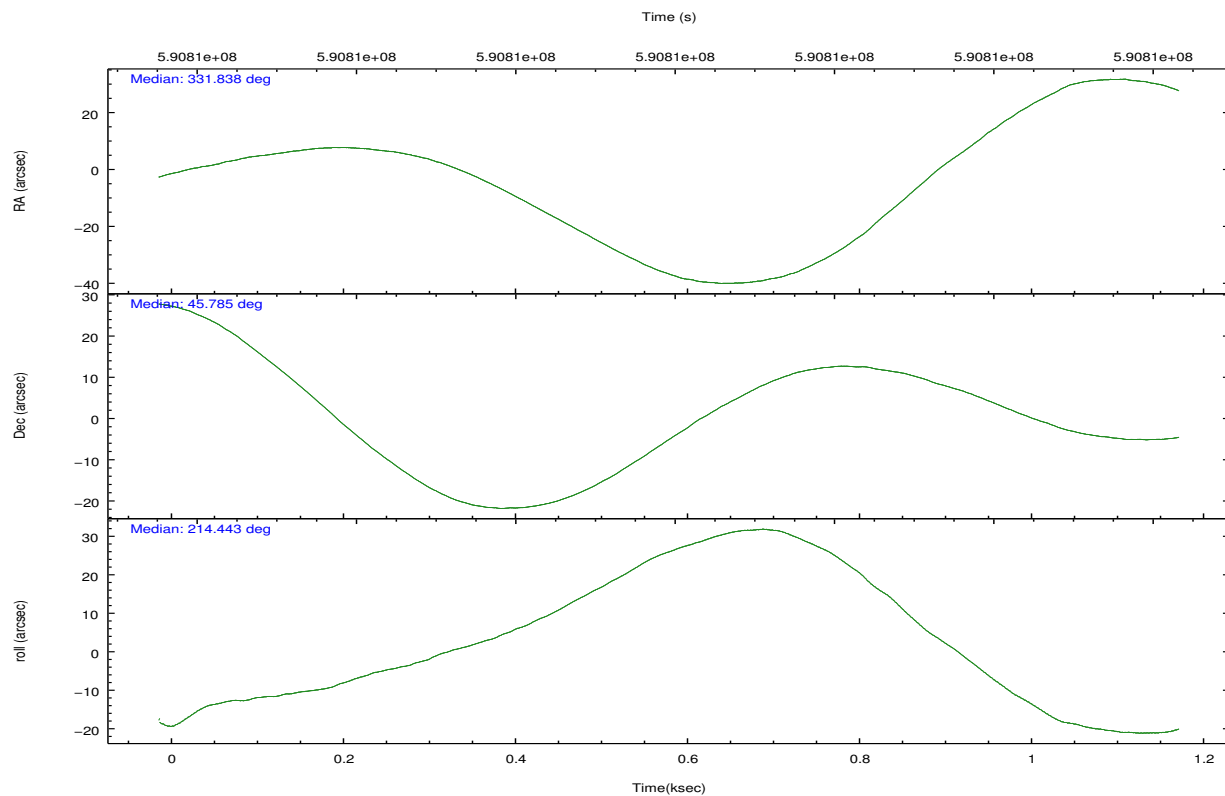
	<b>segment 0</b>
level 1 events	179329
rejected events	29001
rejected %	16%

## 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	331.851348	331.836198364237			
[deg] Pointing Dec	45.810335	45.78532986131265			
[deg] Pointing Roll	214.534382	214.449686892224			
[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)	590806187.184000	590805811.15493			
Observation start date	2016-09-21T00:48:39	2016-09-21T00:43:31			
[s] Observation end time (MET)	590807187.184000	590807855.51754			
Observation end date	2016-09-21T01:05:19	2016-09-21T01:17:35			

## 2.3 Aspect





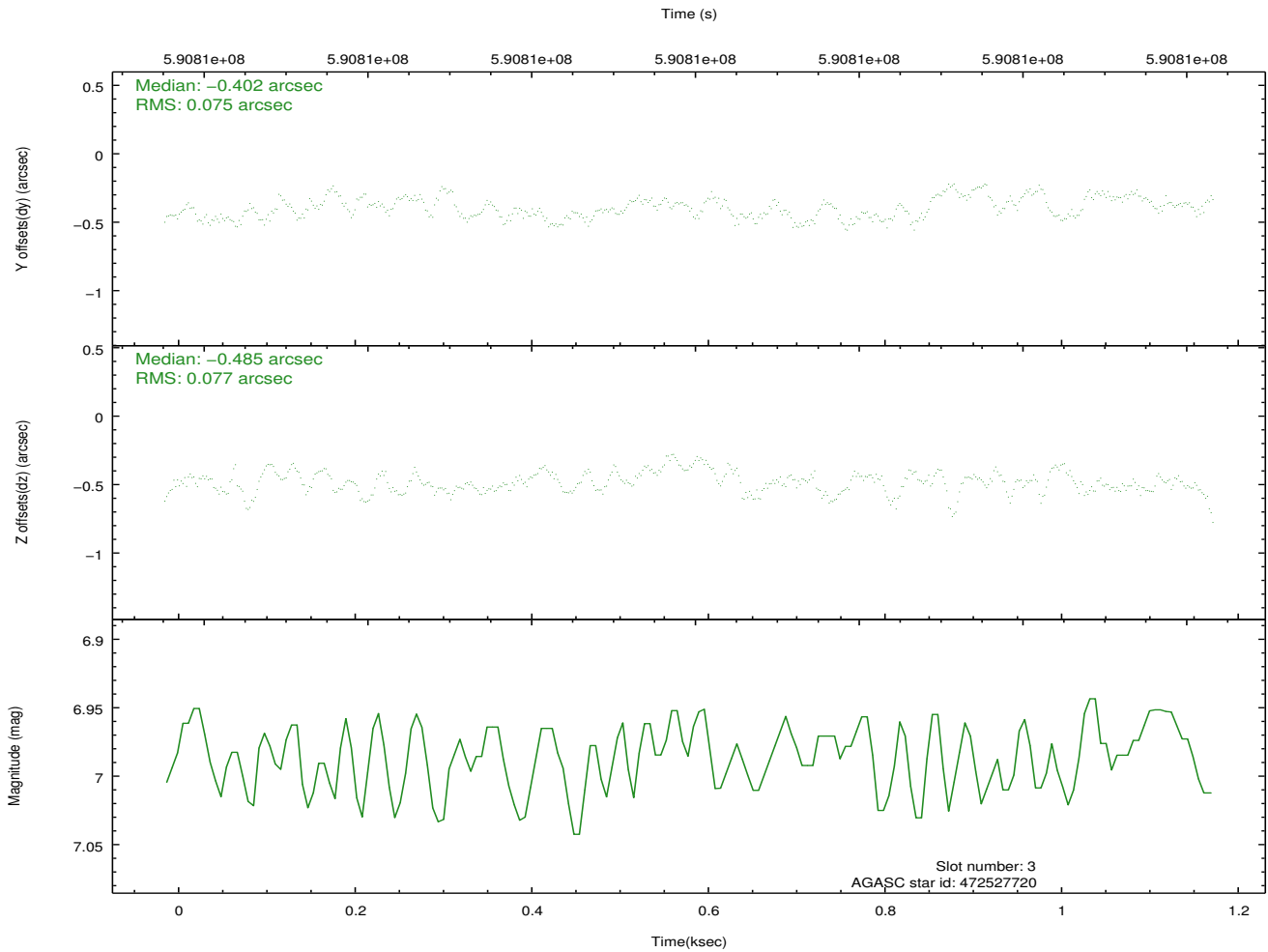
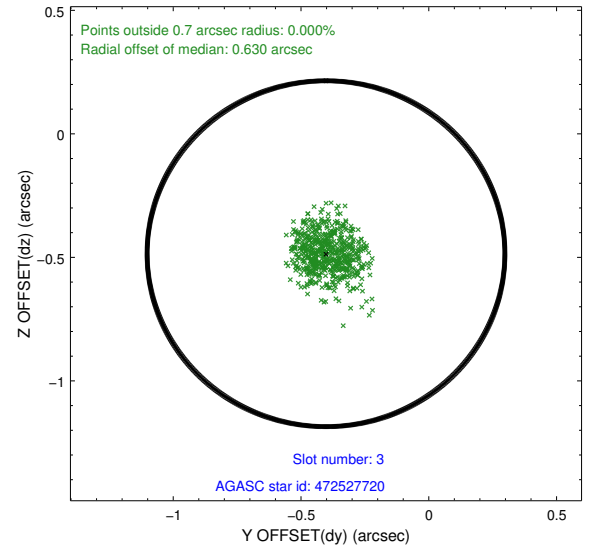
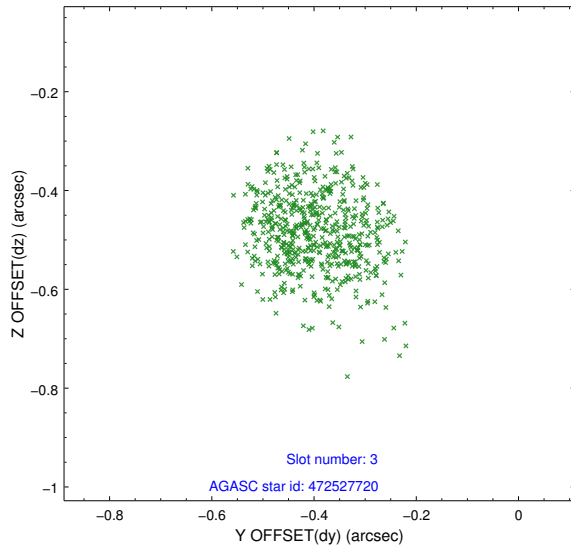
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.04	290	-0.182	0.005	0.006	0.009	0.000000	0.000000	-774.33	-1305.24
1	FID		HRC-I-2	7.06	290	0.392	-0.185	0.005	0.008	0.000000	0.000000	836.20	-1311.46
2	FID		HRC-I-3	7.12	290	-0.090	0.091	0.005	0.011	0.000000	0.000000	-1199.91	994.87
3	GUIDE	used	472527720	6.99	580	-0.402	-0.485	0.119	0.177	331.460205	45.112509	2243.10	1502.57
4	GUIDE	used	472533912	9.11	580	0.214	0.198	0.172	0.303	331.791136	46.368695	-1009.93	-1739.41
5	GUIDE	used	472535576	7.86	580	0.043	0.039	0.101	0.162	331.438373	46.291802	-137.16	-2016.75
6	GUIDE	used	472536328	8.11	580	0.127	0.340	0.121	0.204	331.496671	46.454831	-589.49	-2416.19
7	GUIDE	used	472655152	9.38	579	0.013	-0.092	0.174	0.265	332.504239	45.862991	-1458.52	760.68

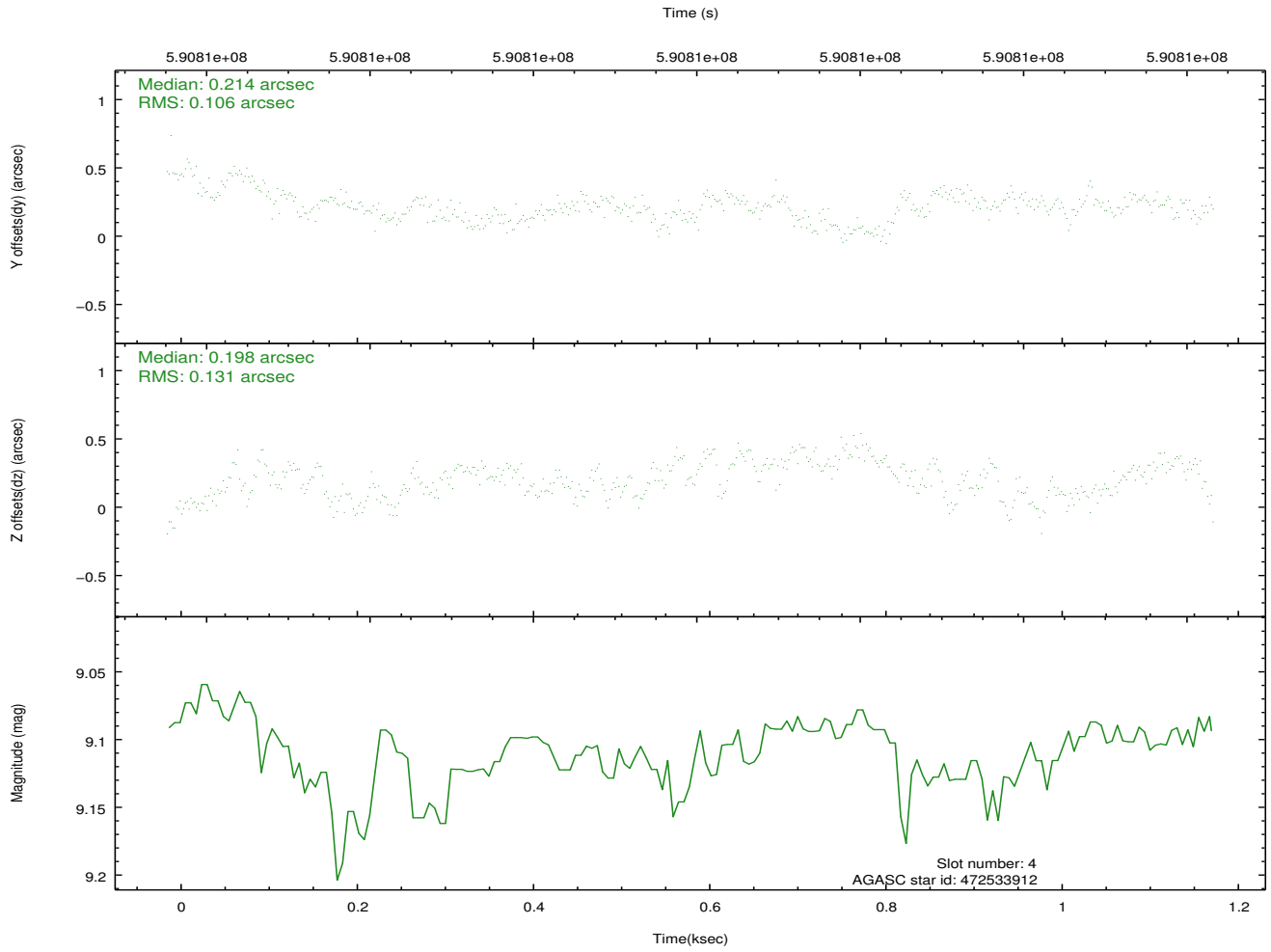
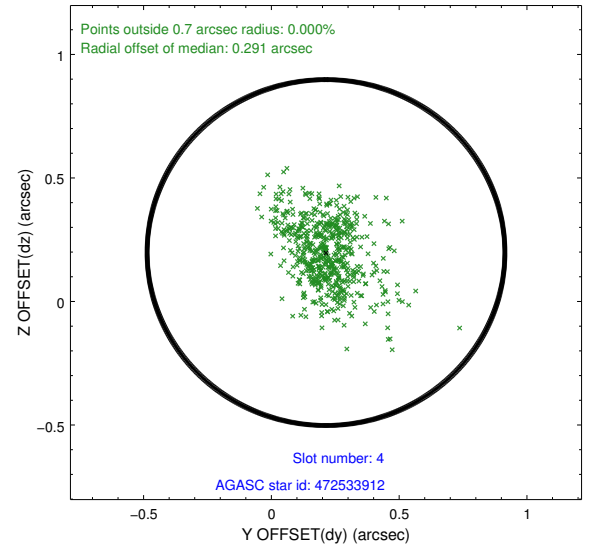
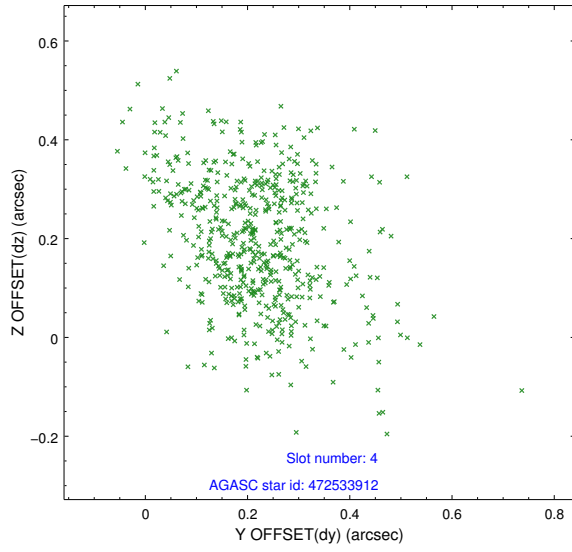


## 2.4 Star Slots

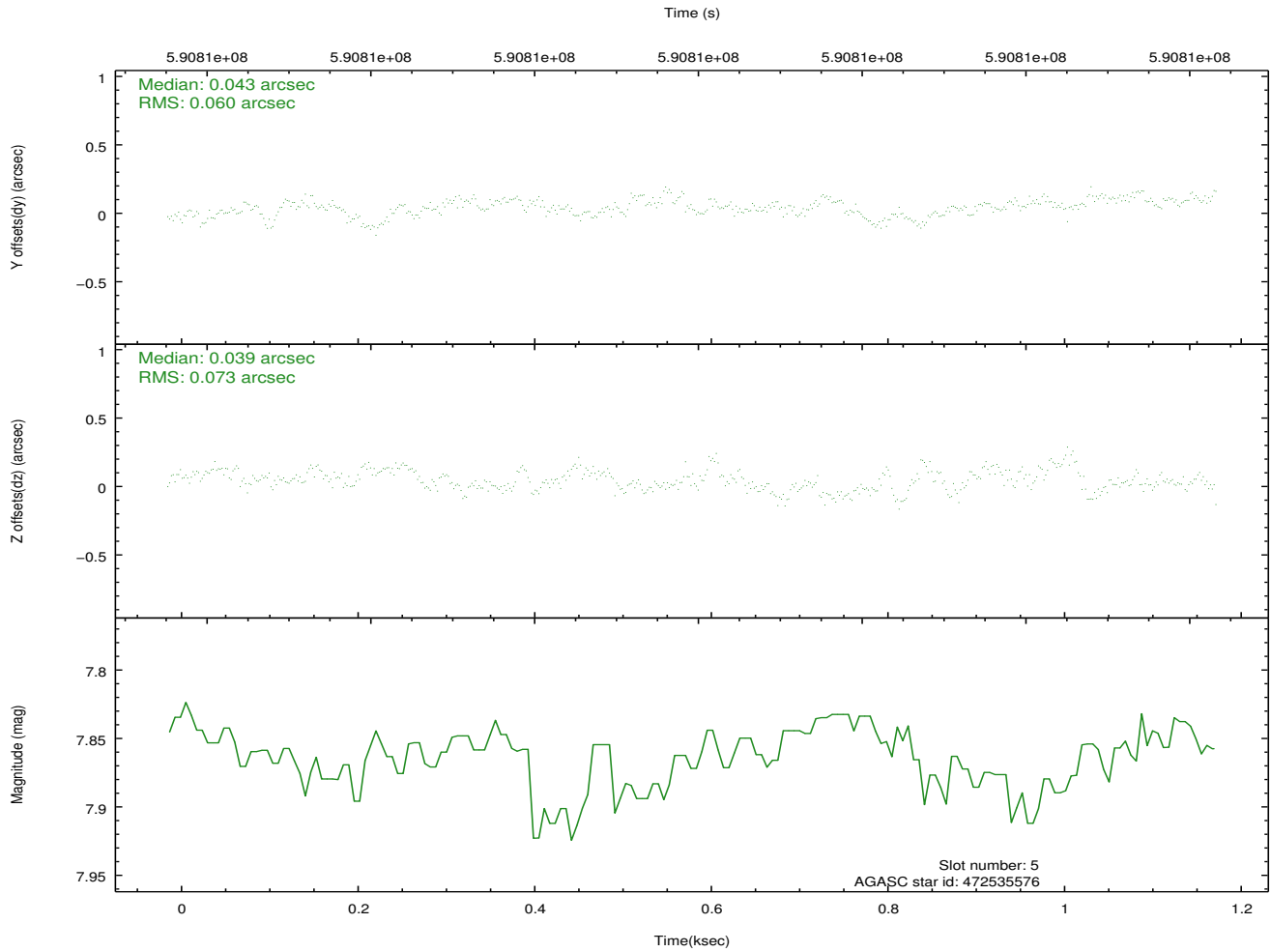
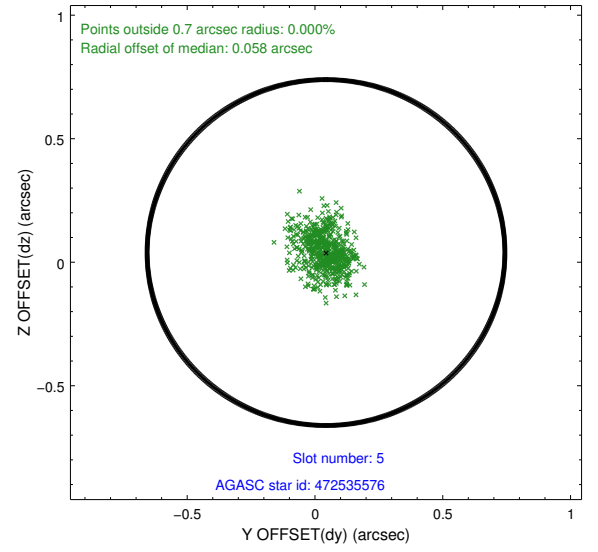
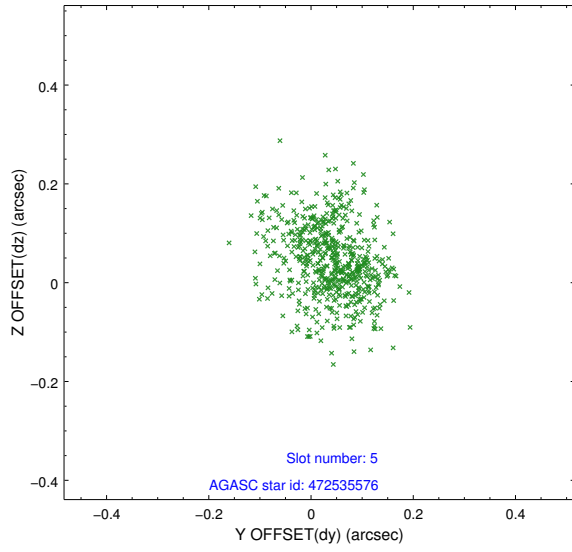
### 2.4.1 Slot 3



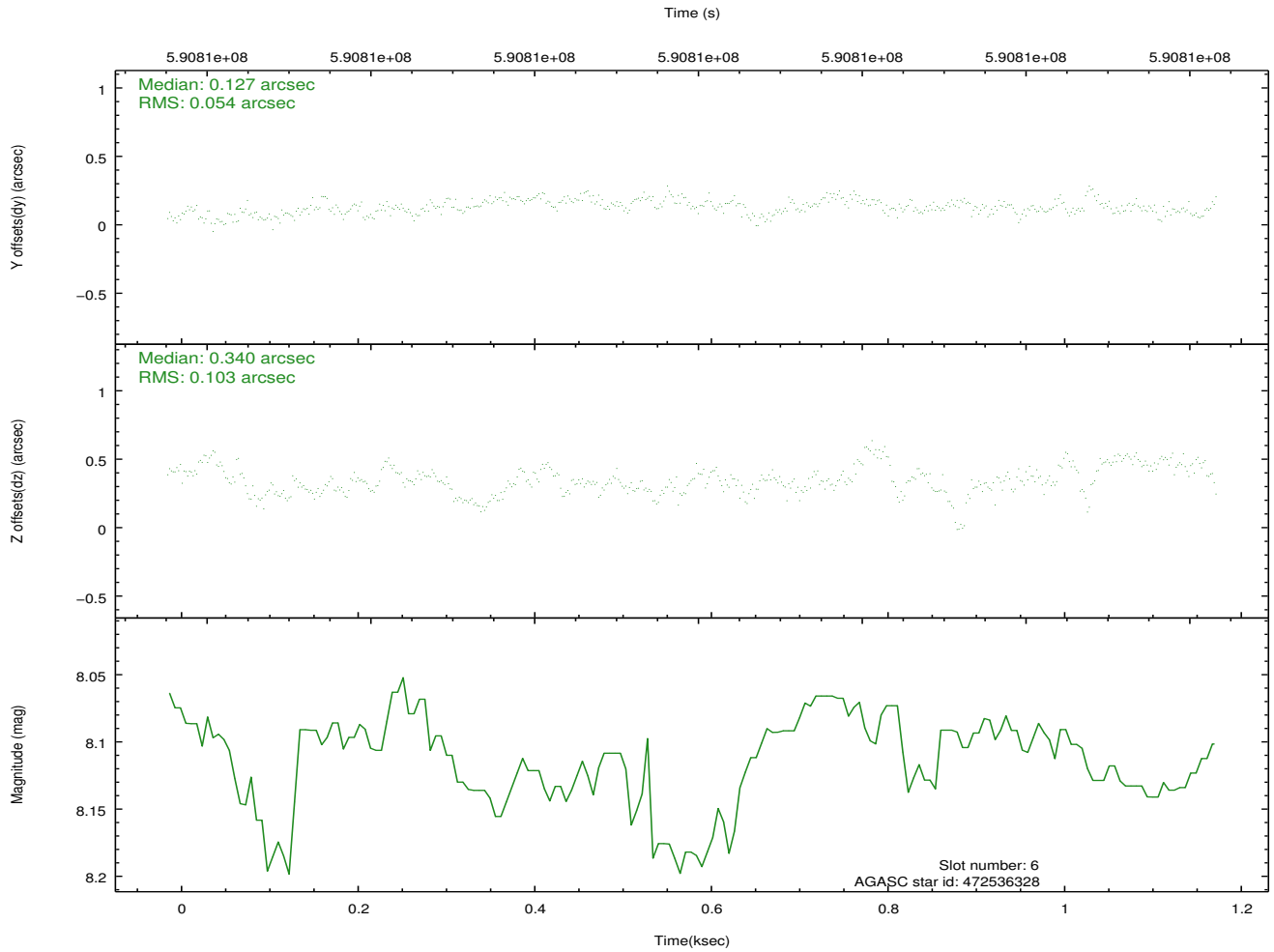
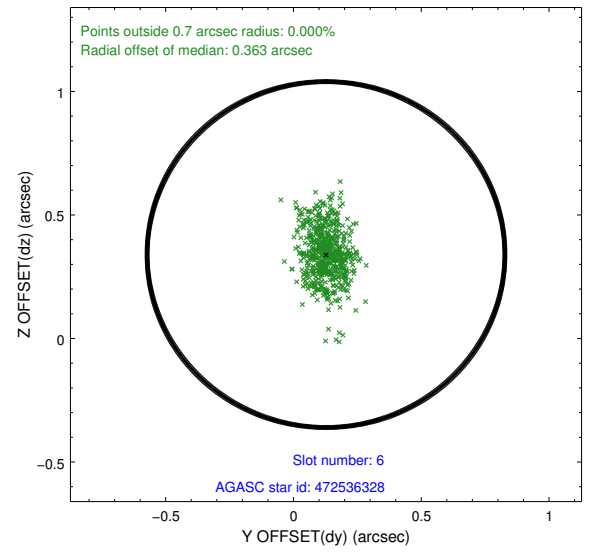
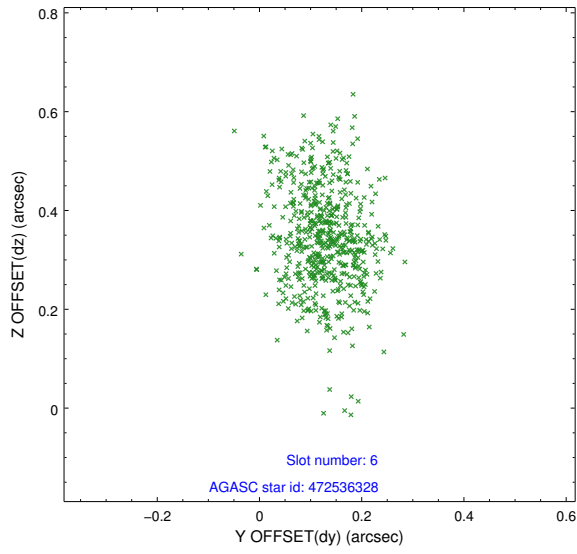
## 2.4.2 Slot 4



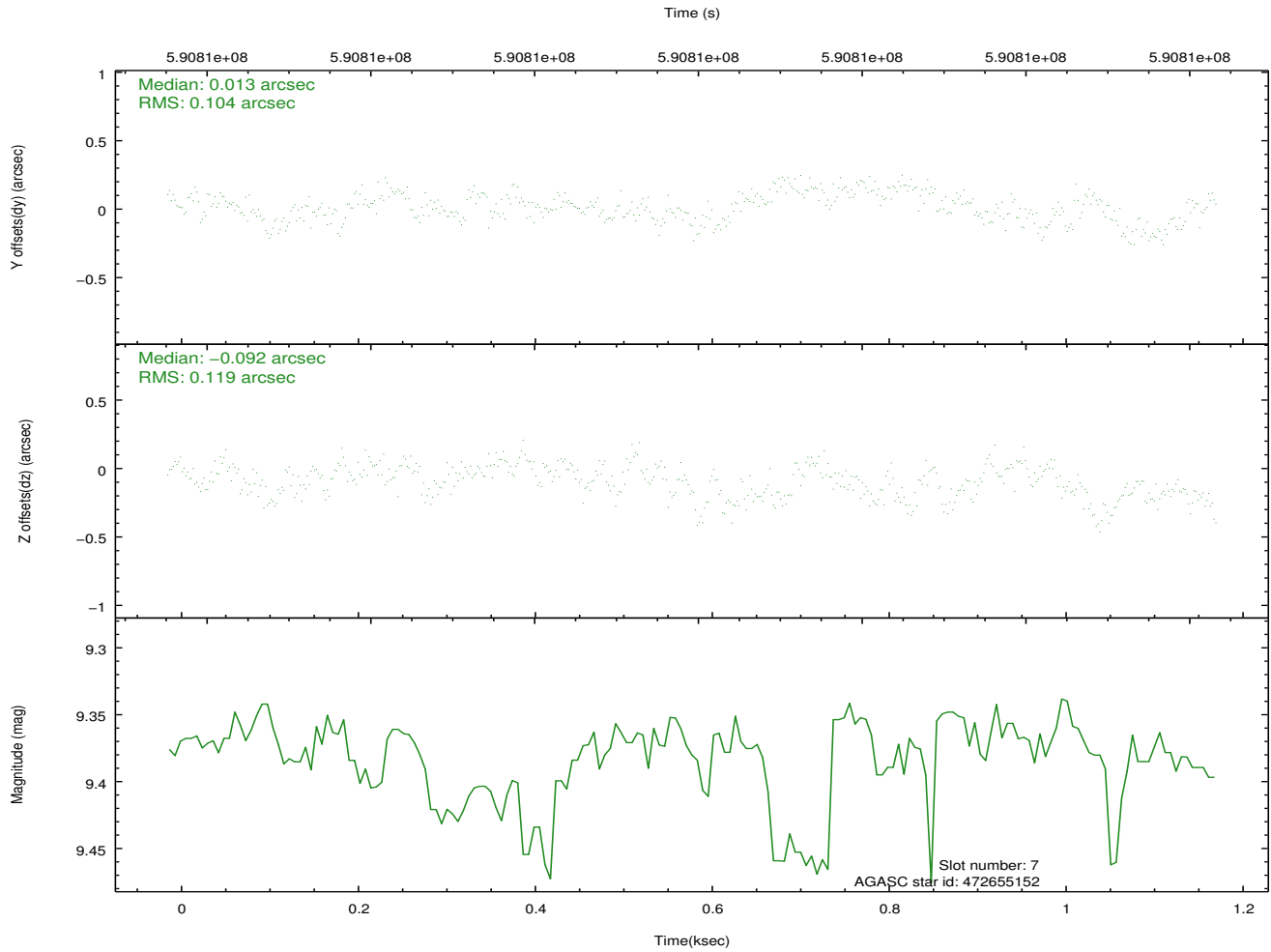
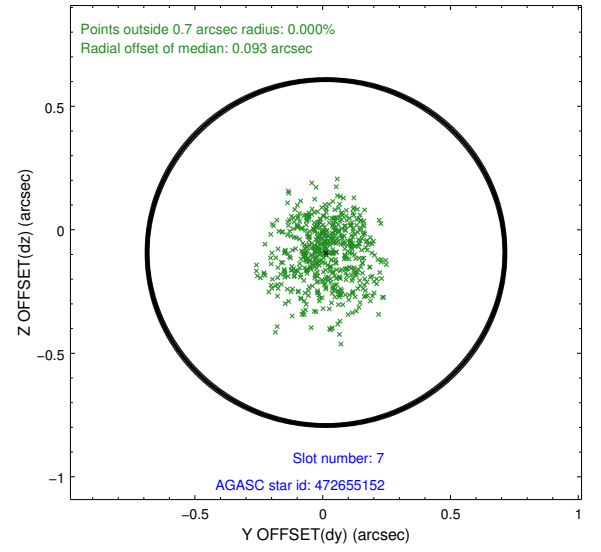
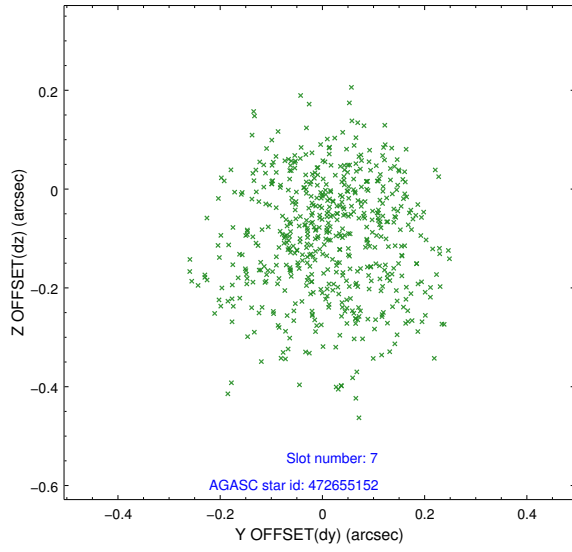
### 2.4.3 Slot 5



## 2.4.4 Slot 6

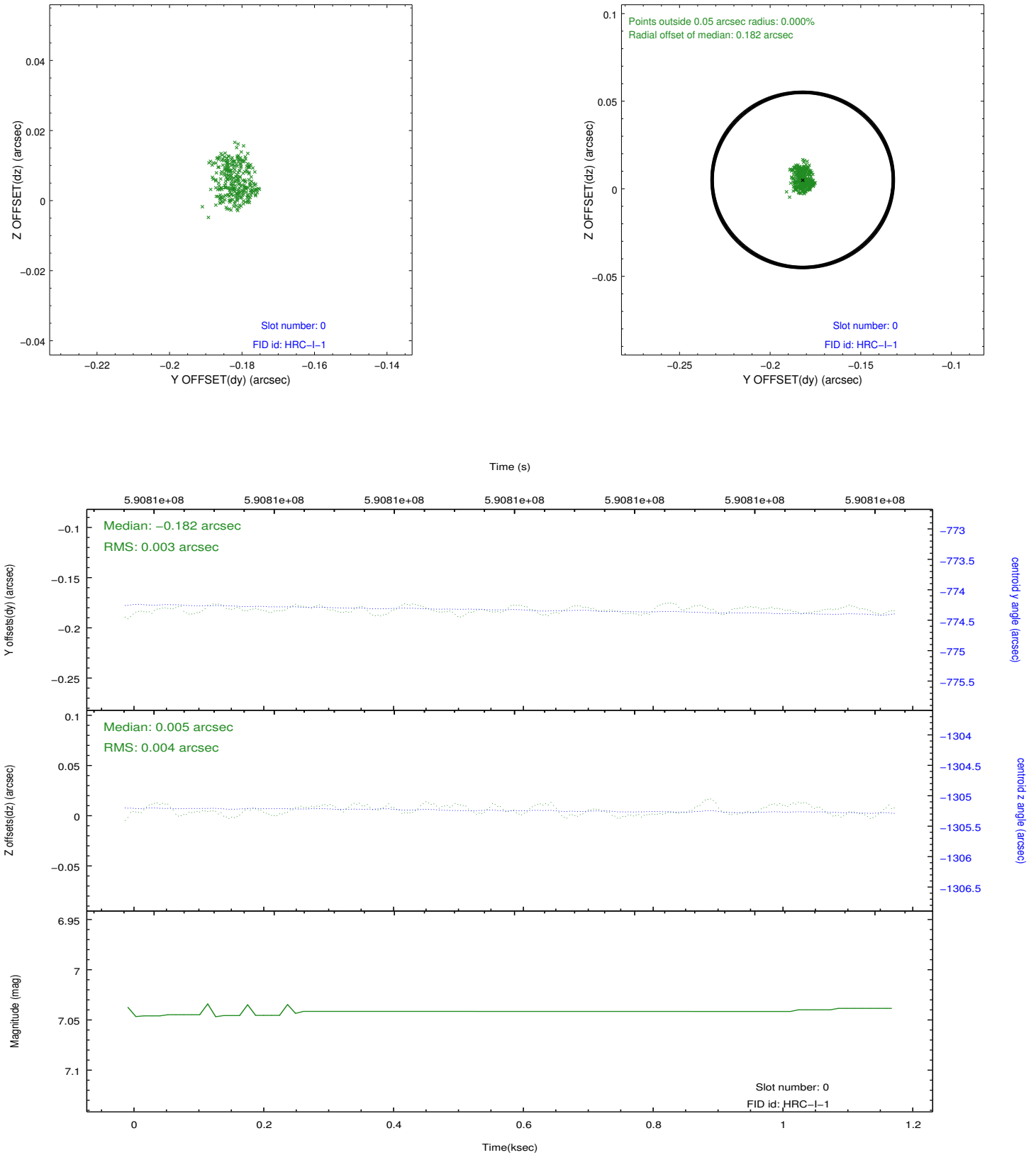


## 2.4.5 Slot 7

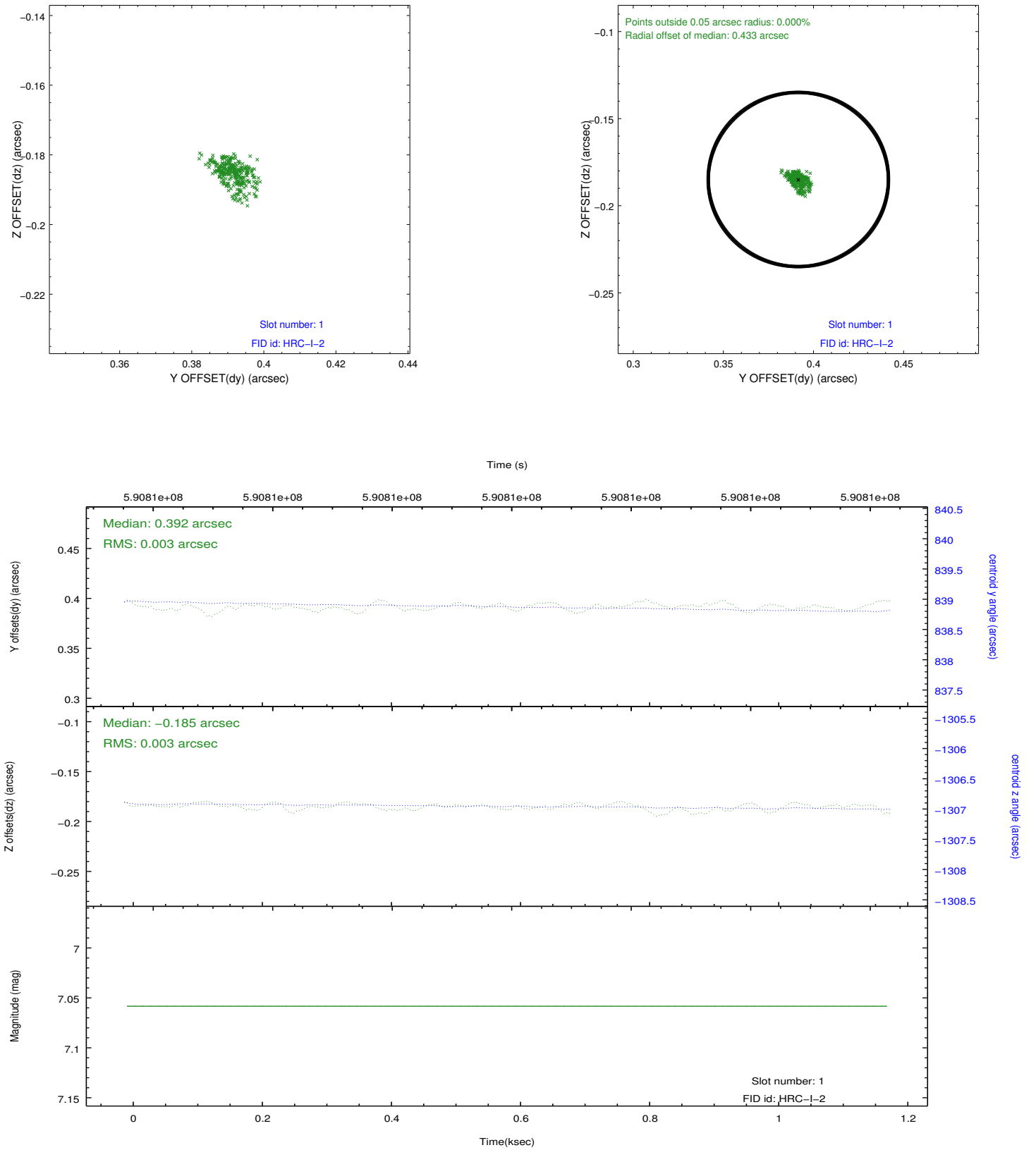


## 2.5 FID Slots

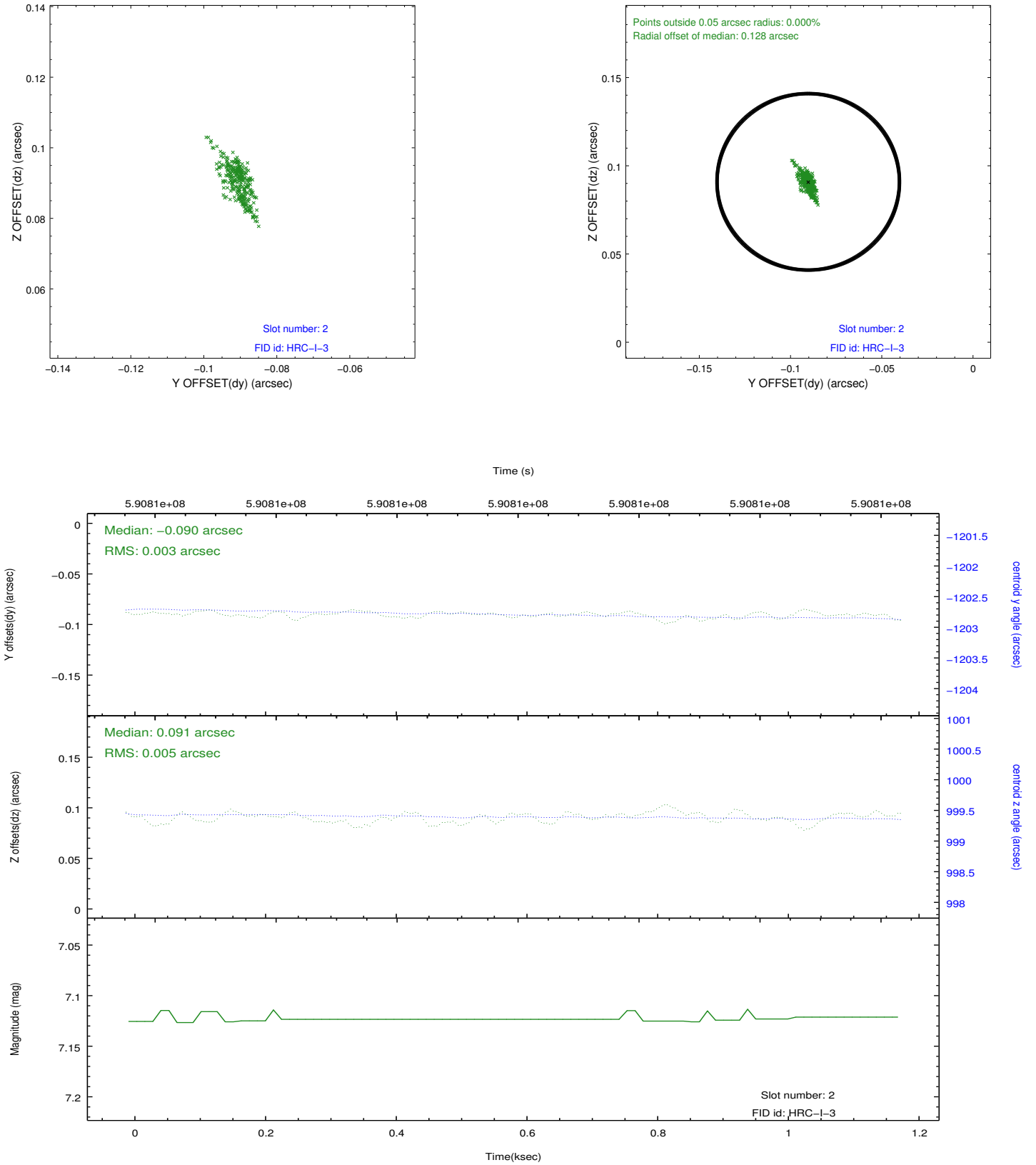
### 2.5.1 Slot 0



## 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)	2016.09.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1856688182354

### A.2 Comments