

# V&V Reference Report

## L2 ASCDS Version : 10.5.1.1

Observation 18402 - L2 Version 1  
Chandra X-Ray Center

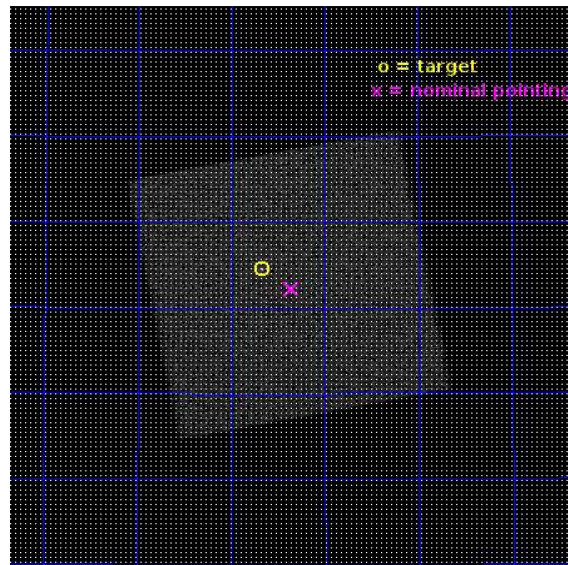
L2 Processing Date : Sep 21 2016

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# 1 Front

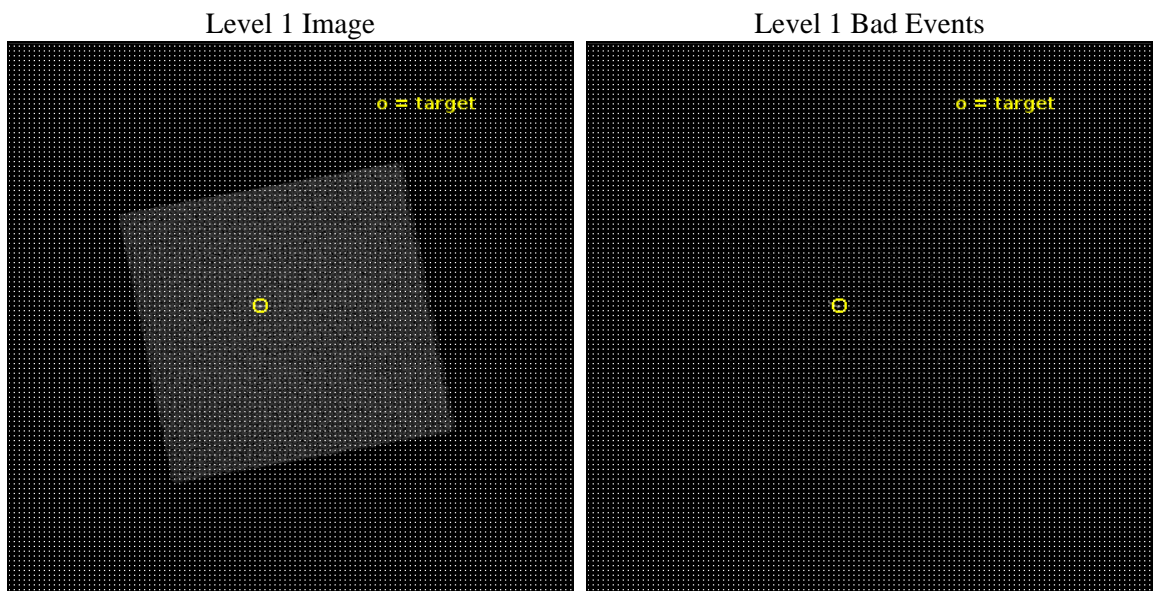
seq_num	291297	Sequence number
obs_id	18402	Observation id
title	AO-17 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.08980331286	Nominal RA [deg]
dec_nom	45.704009530713	Nominal Dec [deg]
roll_nom	214.0805117762	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1182.08131814	[s]
livetime	1168.3613230872	Ontime multiplied by DTCOR
l2events	116080	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	1182.08131814	[s]
caldbver	4.7.2	&#160	l1events	195275	Number of level 1 events
date	2016-09-21T12:43:56	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

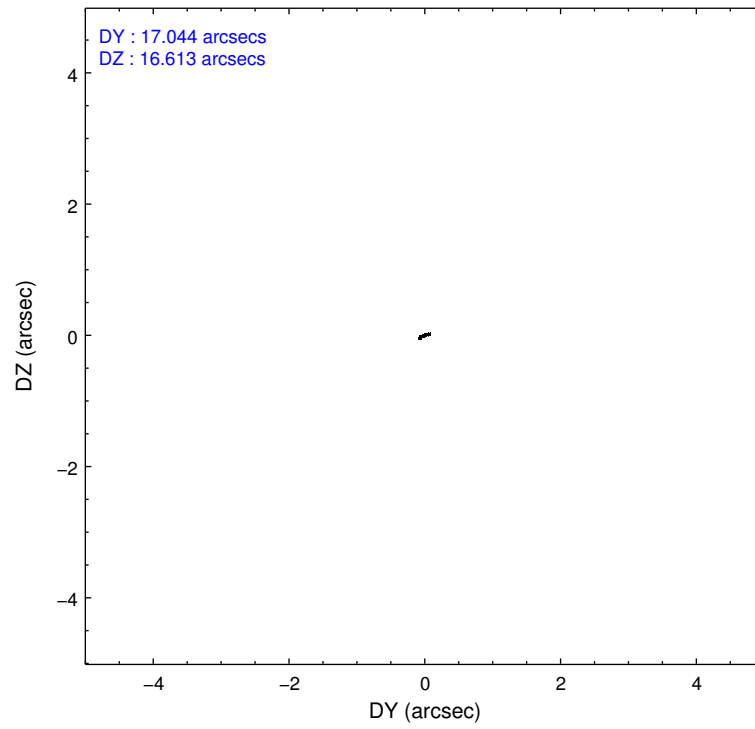
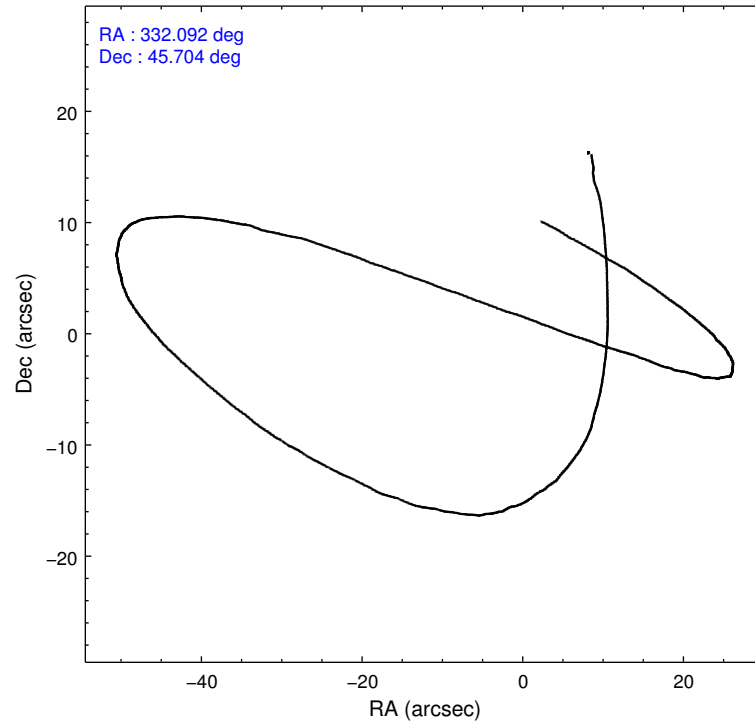
	<b>segment 0</b>
level 1 events	195275
rejected events	42202
rejected %	21%

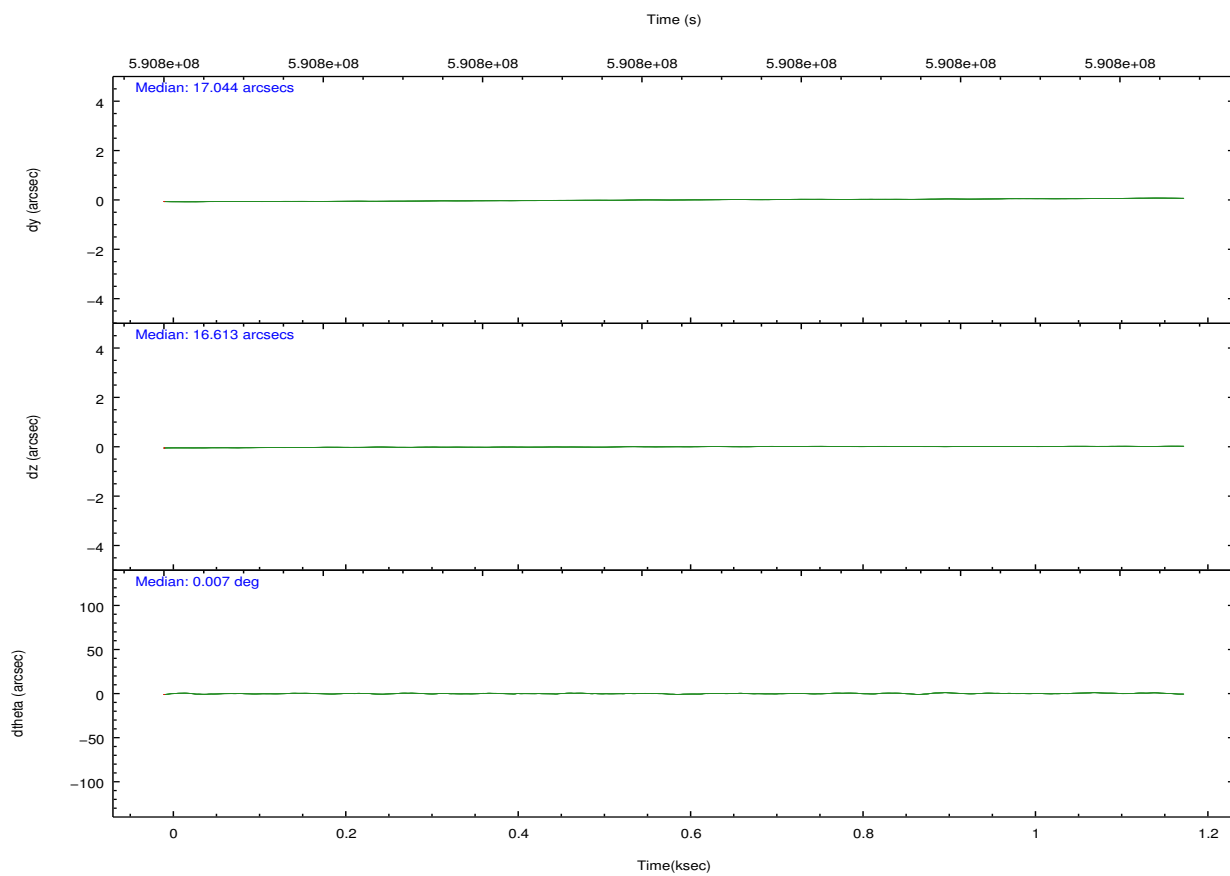
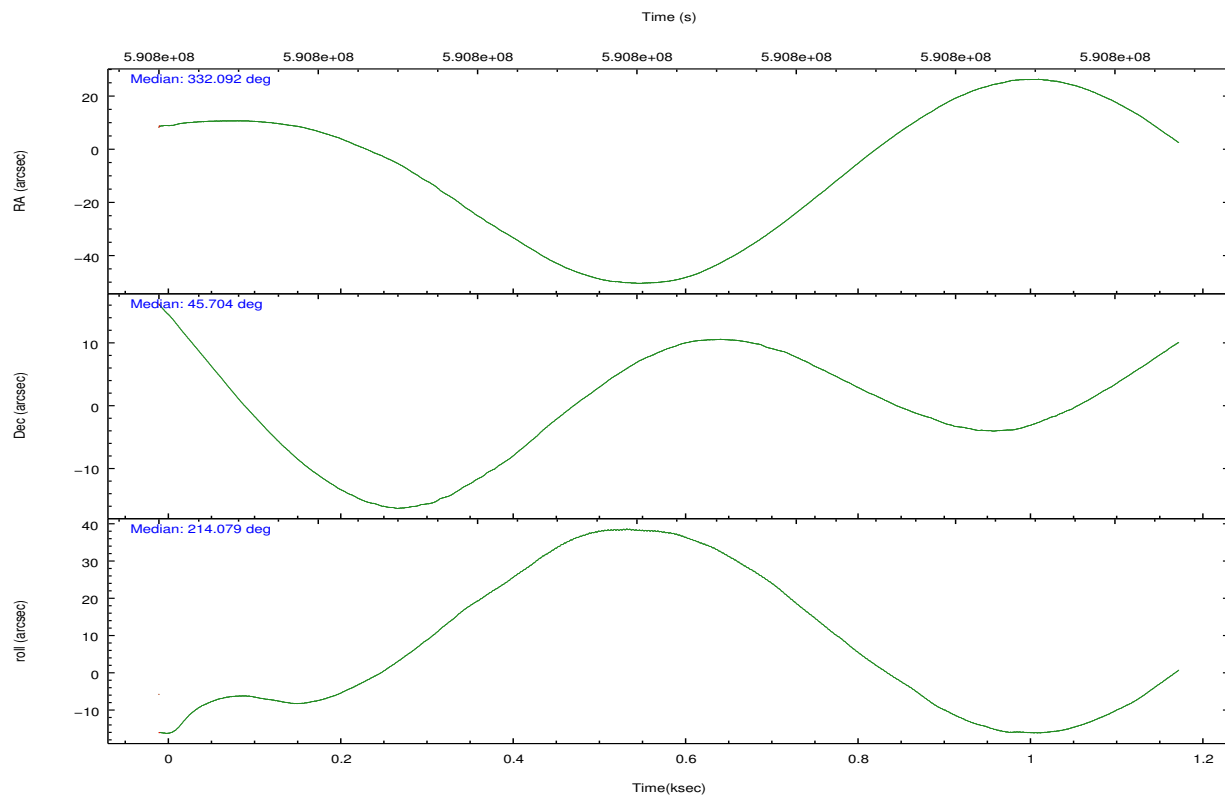
## 2.2 Compared Parameters

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	332.104667	332.0898033128615
[deg] Pointing Dec	45.729594	45.70400953071282
[deg] Pointing Roll	214.165436	214.0805117762044
[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)	590798637.184000	590798261.5169899
Observation start date	2016-09-20T22:42:49	2016-09-20T22:37:41
[s] Observation end time (MET)	590799637.184000	590799771.34208
Observation end date	2016-09-20T22:59:29	2016-09-20T23:02:51

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

## 2.3 Aspect





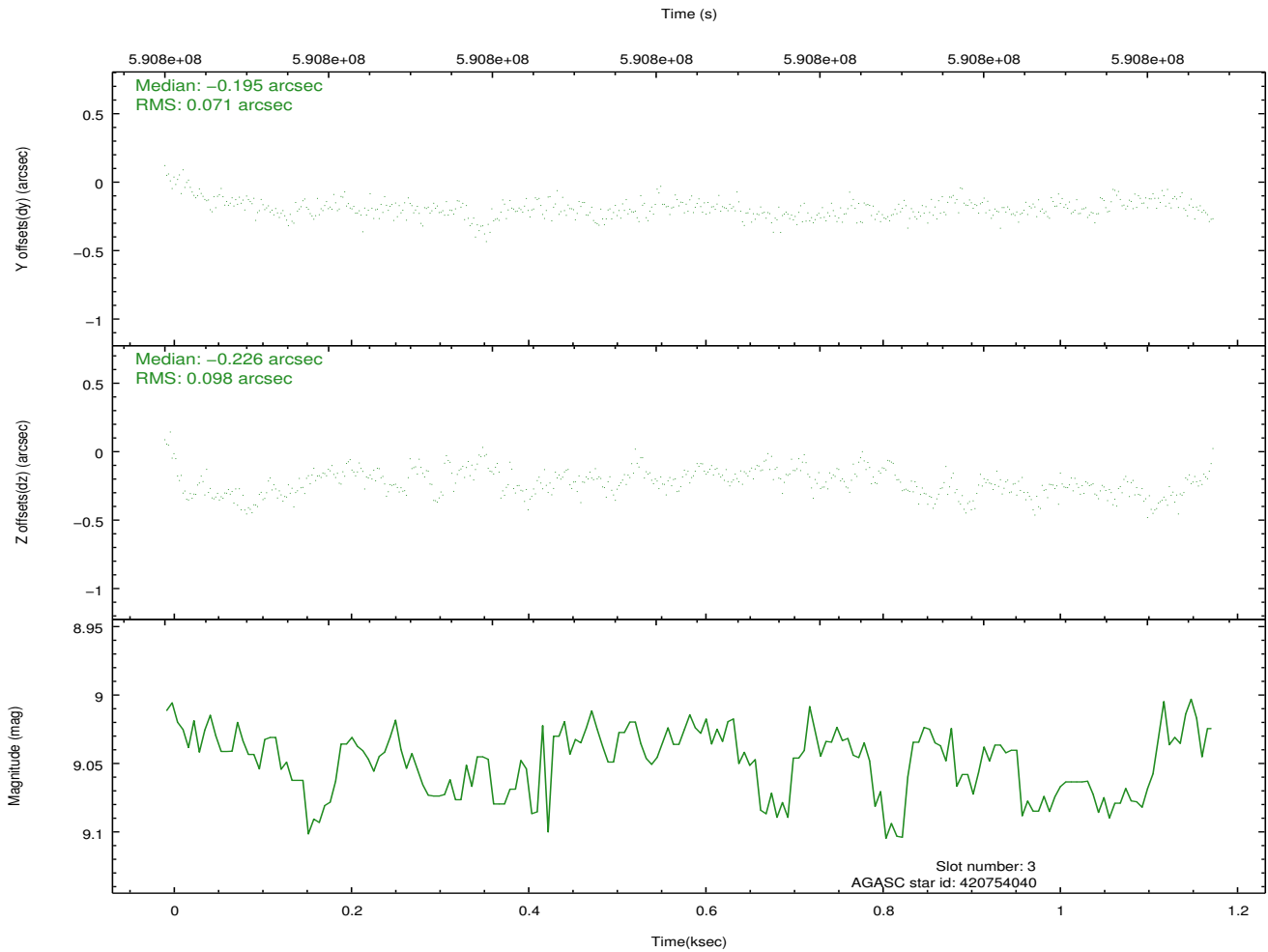
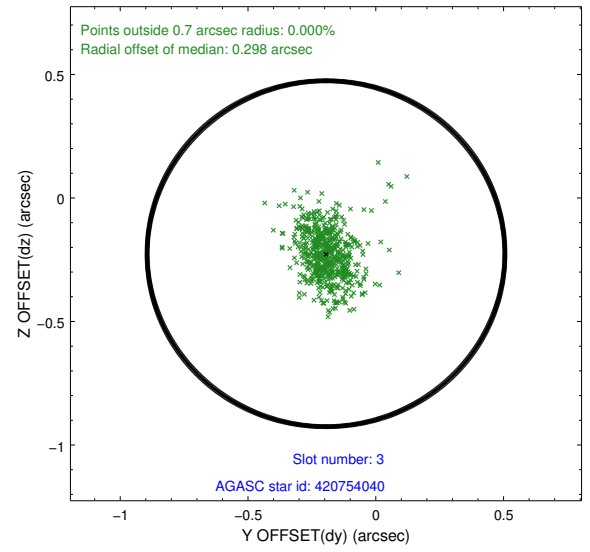
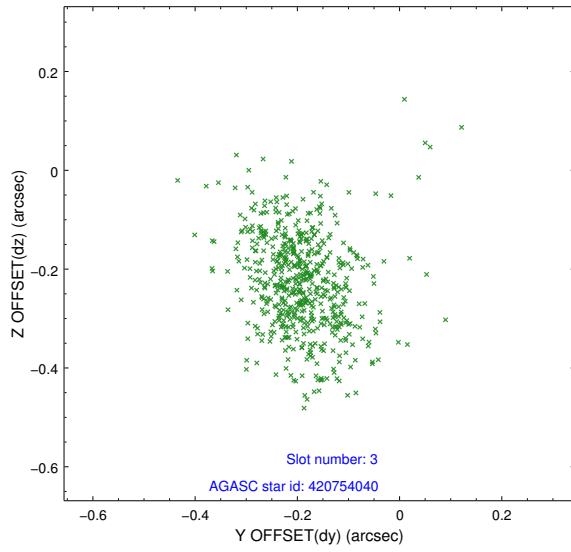
### Slot Statistics

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	0.110	-0.175	0.006	0.011	0.000000	0.000000	839.88	-1306.46
1	FID		HRC-I-3	7.12	289	-0.345	0.062	0.006	0.010	0.000000	0.000000	-1198.84	995.34
2	FID		HRC-I-4	7.07	289	0.354	0.026	0.006	0.012	0.000000	0.000000	1266.08	1000.93
3	GUIDE	used	420754040	9.04	578	-0.195	-0.226	0.123	0.220	331.917939	44.882543	2106.12	2251.47
4	GUIDE	used	472523760	8.23	578	-0.006	-0.108	0.112	0.171	331.645363	45.403260	1624.15	317.03
5	GUIDE	used	472533912	9.12	578	0.254	0.491	0.200	0.308	331.791136	46.368695	-643.64	-2345.40
6	GUIDE	used	472651904	6.23	578	-0.135	-0.225	0.125	0.190	332.170077	45.742257	-160.75	44.98
7	GUIDE	used	472655152	9.39	576	0.082	0.072	0.178	0.294	332.504239	45.862991	-1098.33	159.42

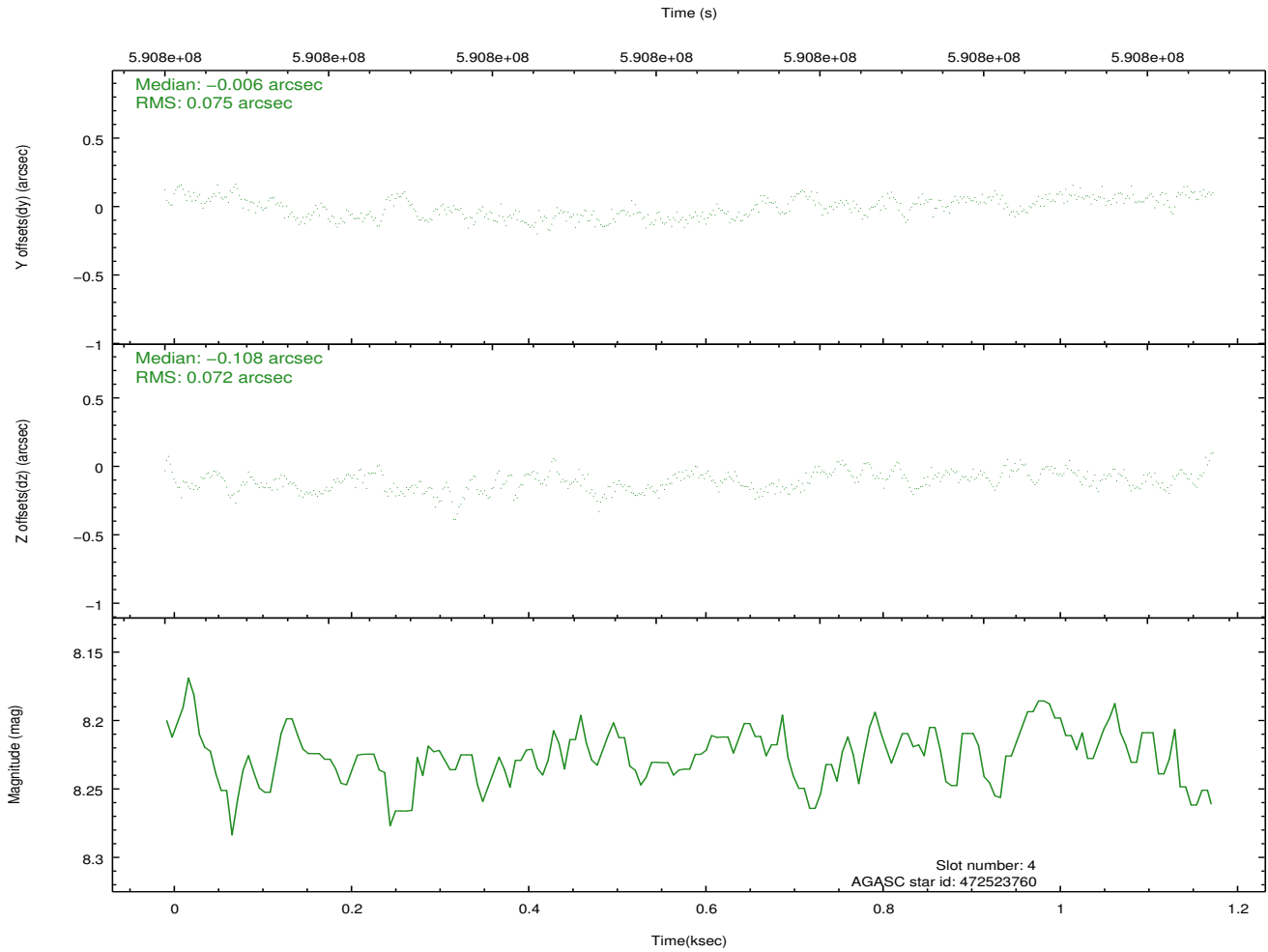
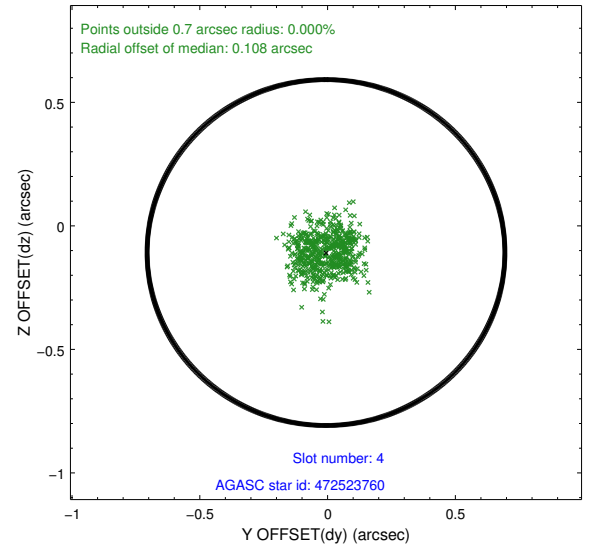
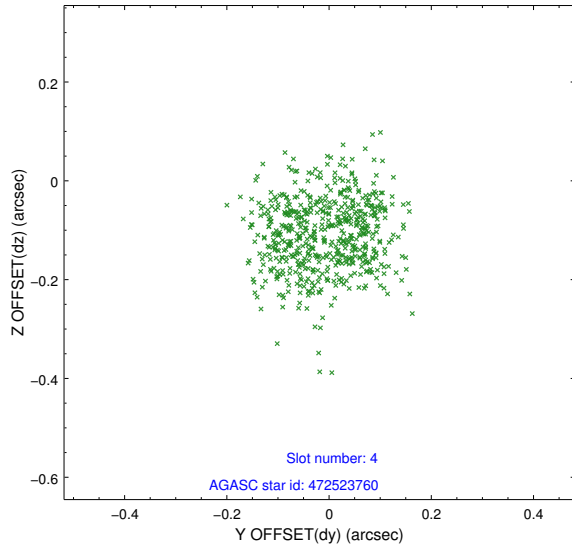


## 2.4 Star Slots

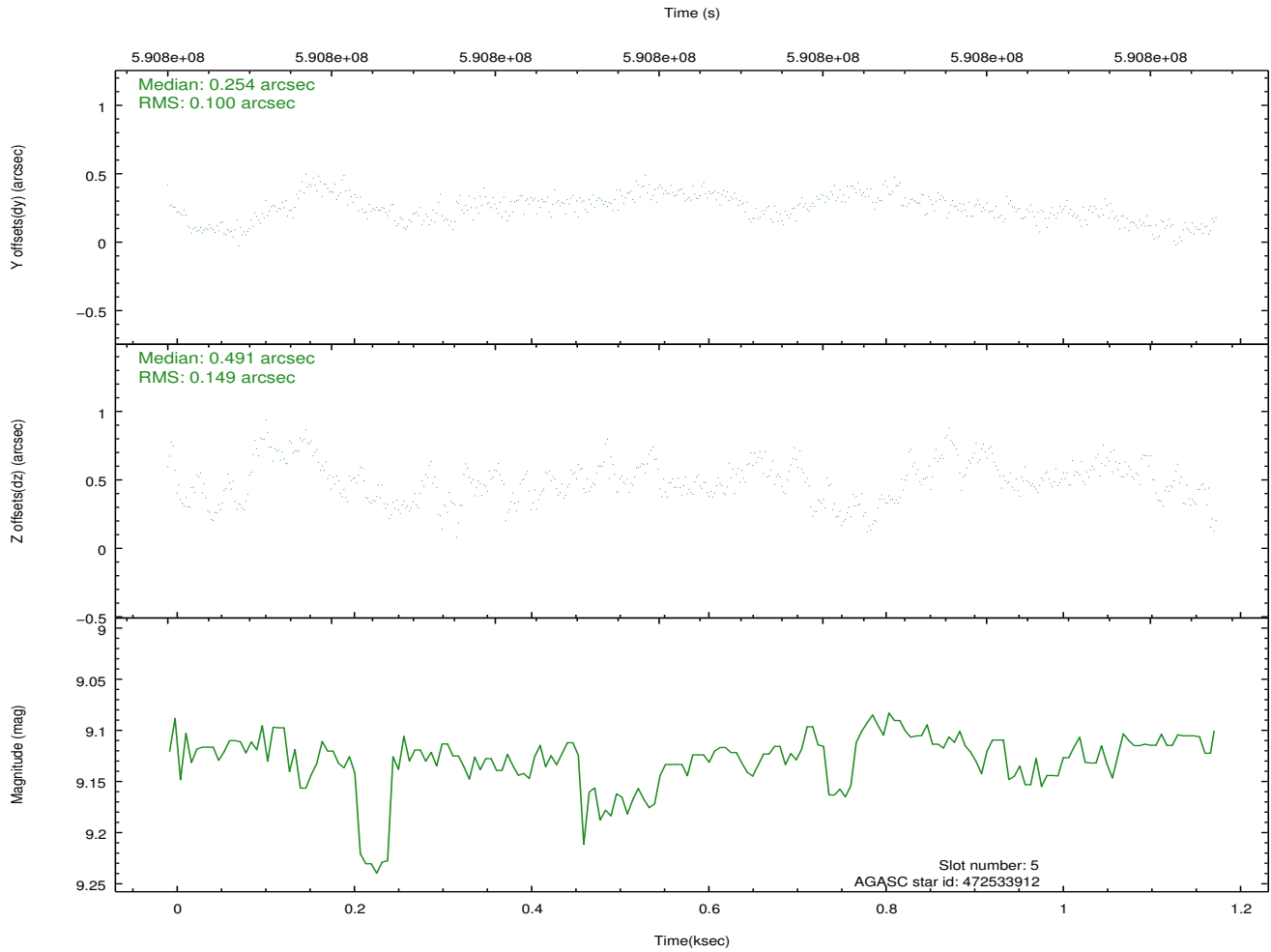
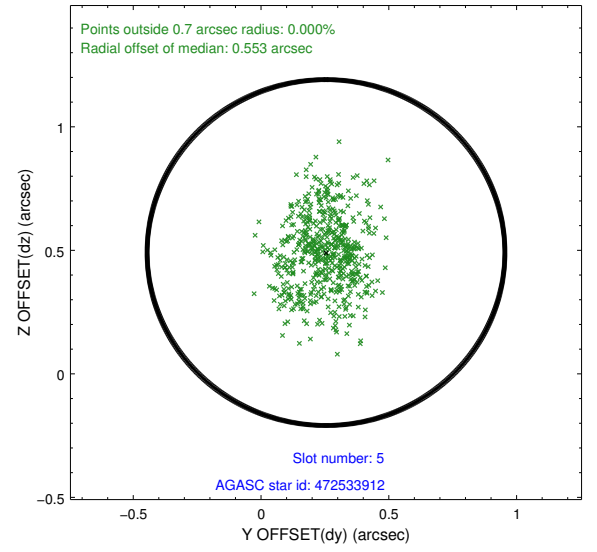
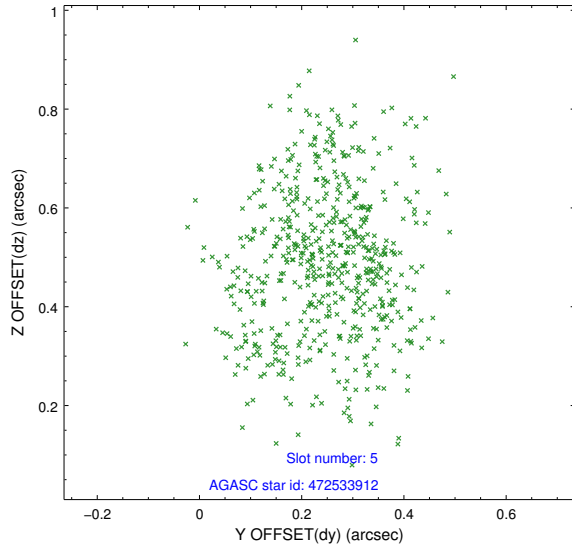
### 2.4.1 Slot 3



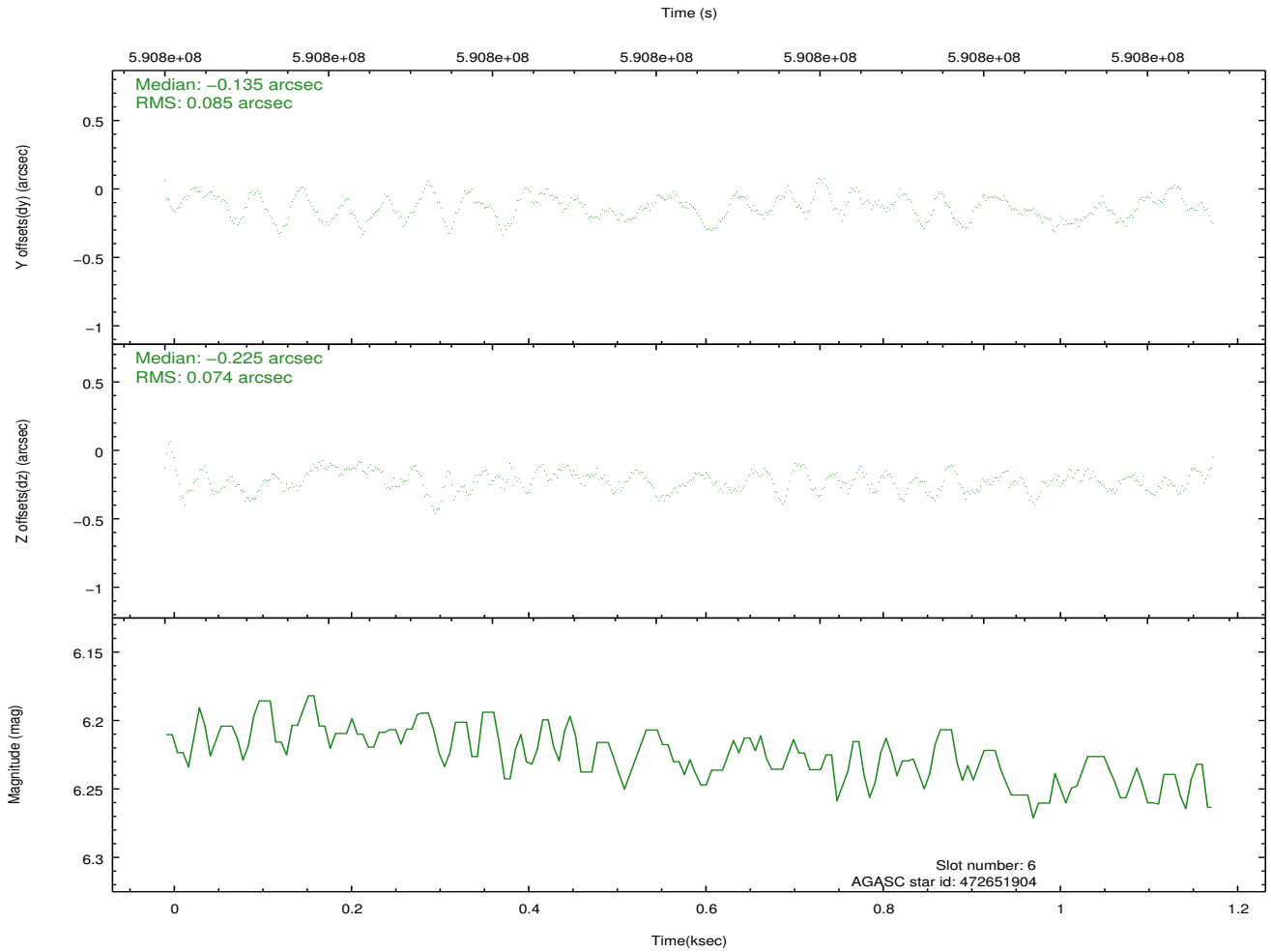
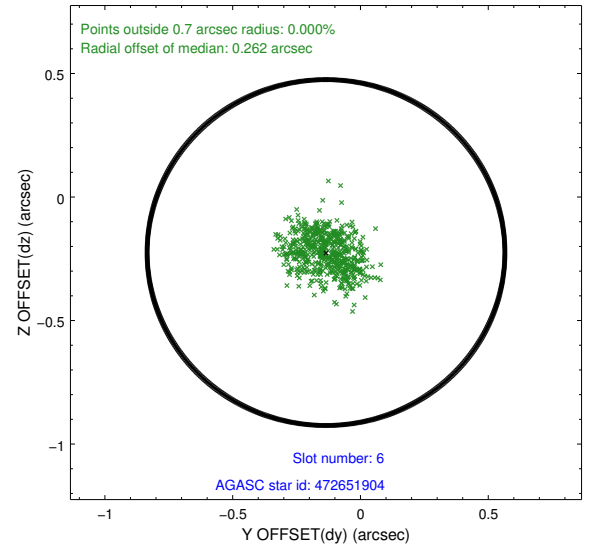
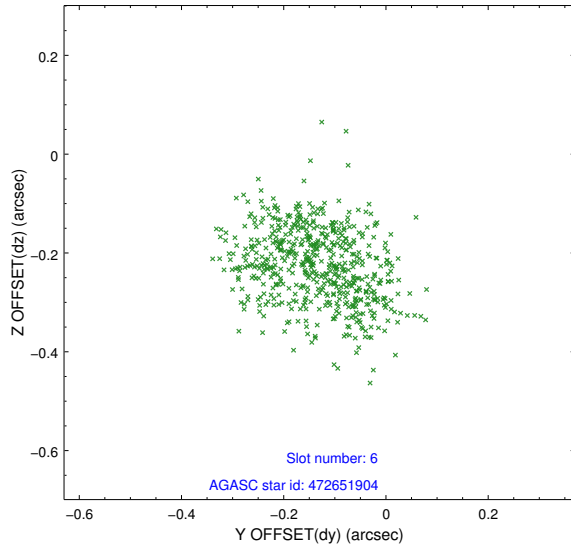
## 2.4.2 Slot 4



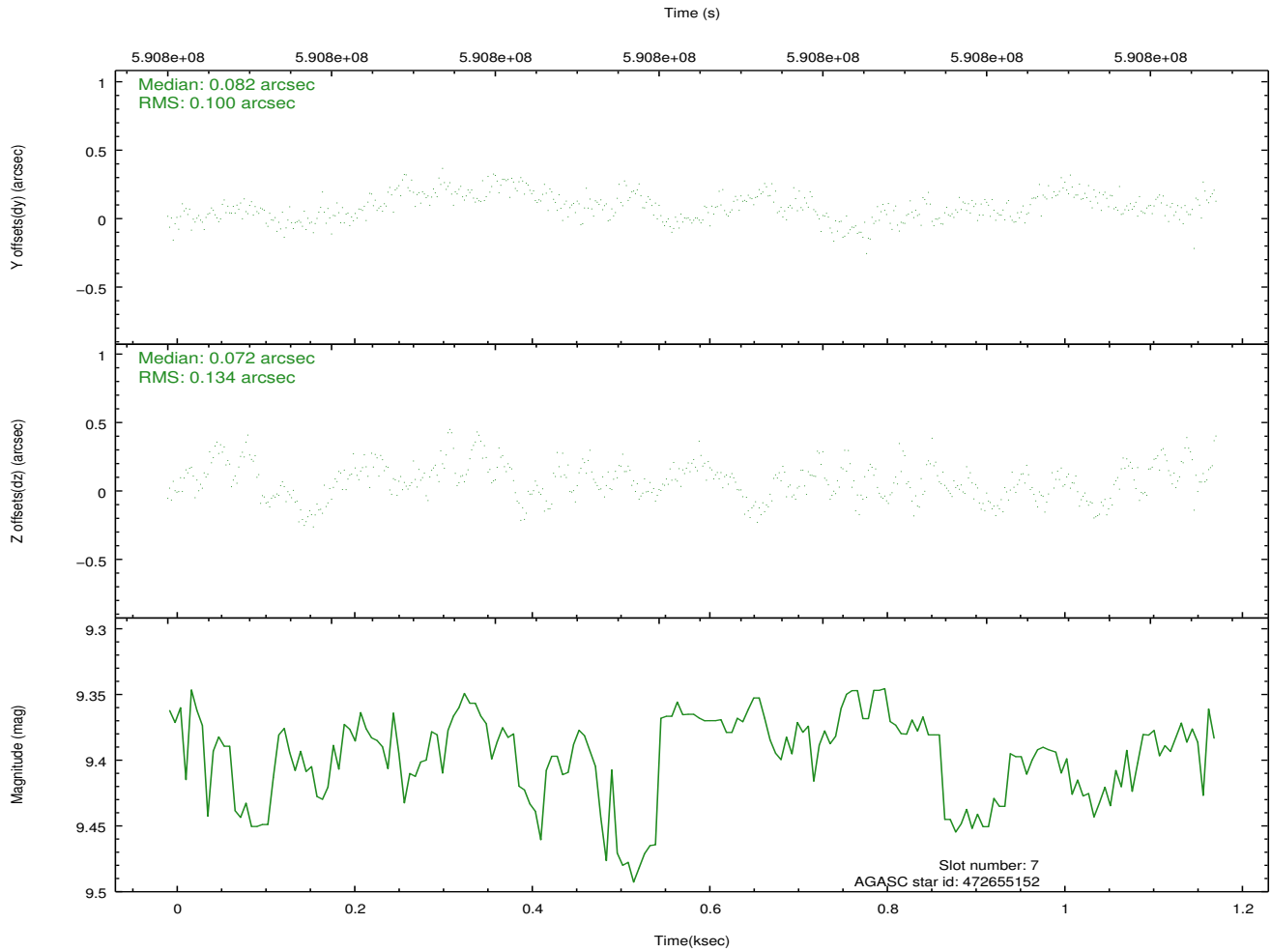
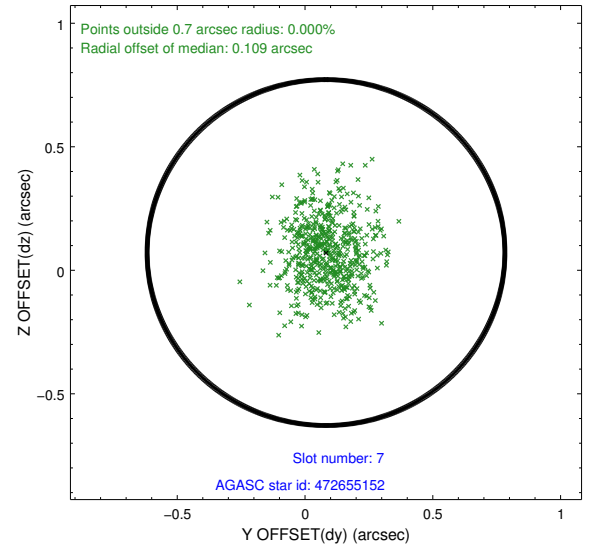
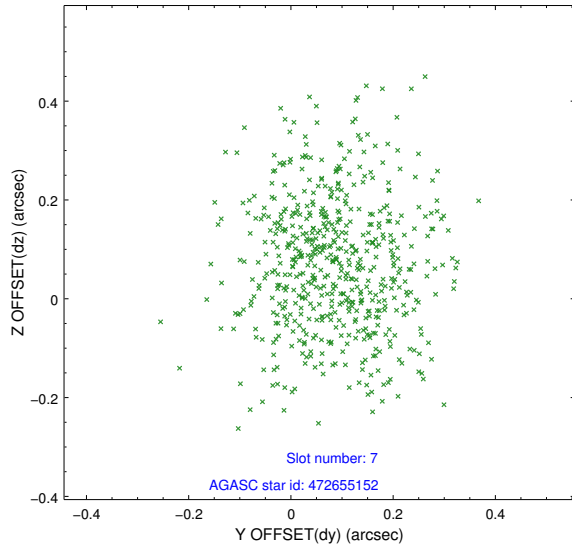
### 2.4.3 Slot 5



## 2.4.4 Slot 6

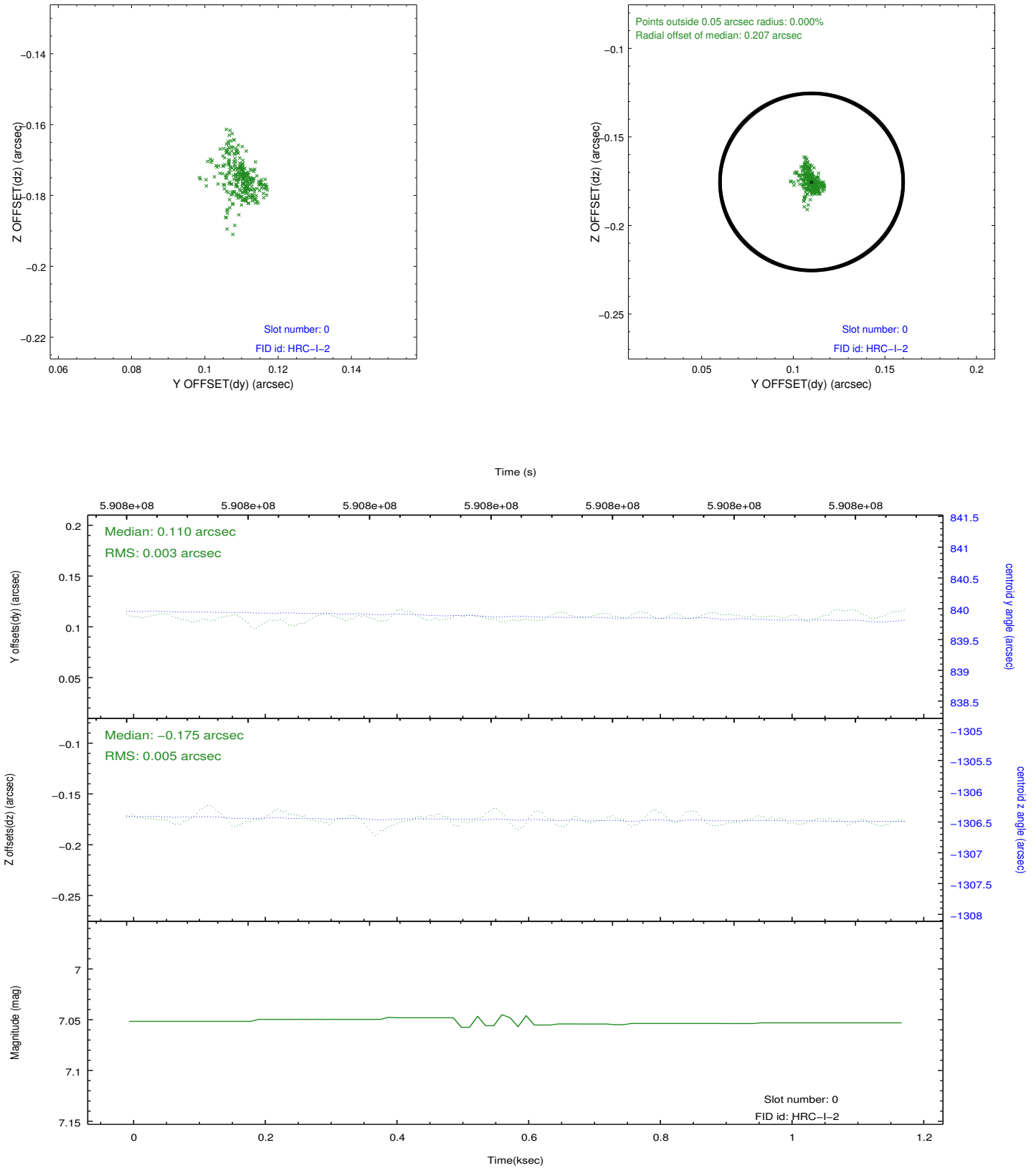


## 2.4.5 Slot 7

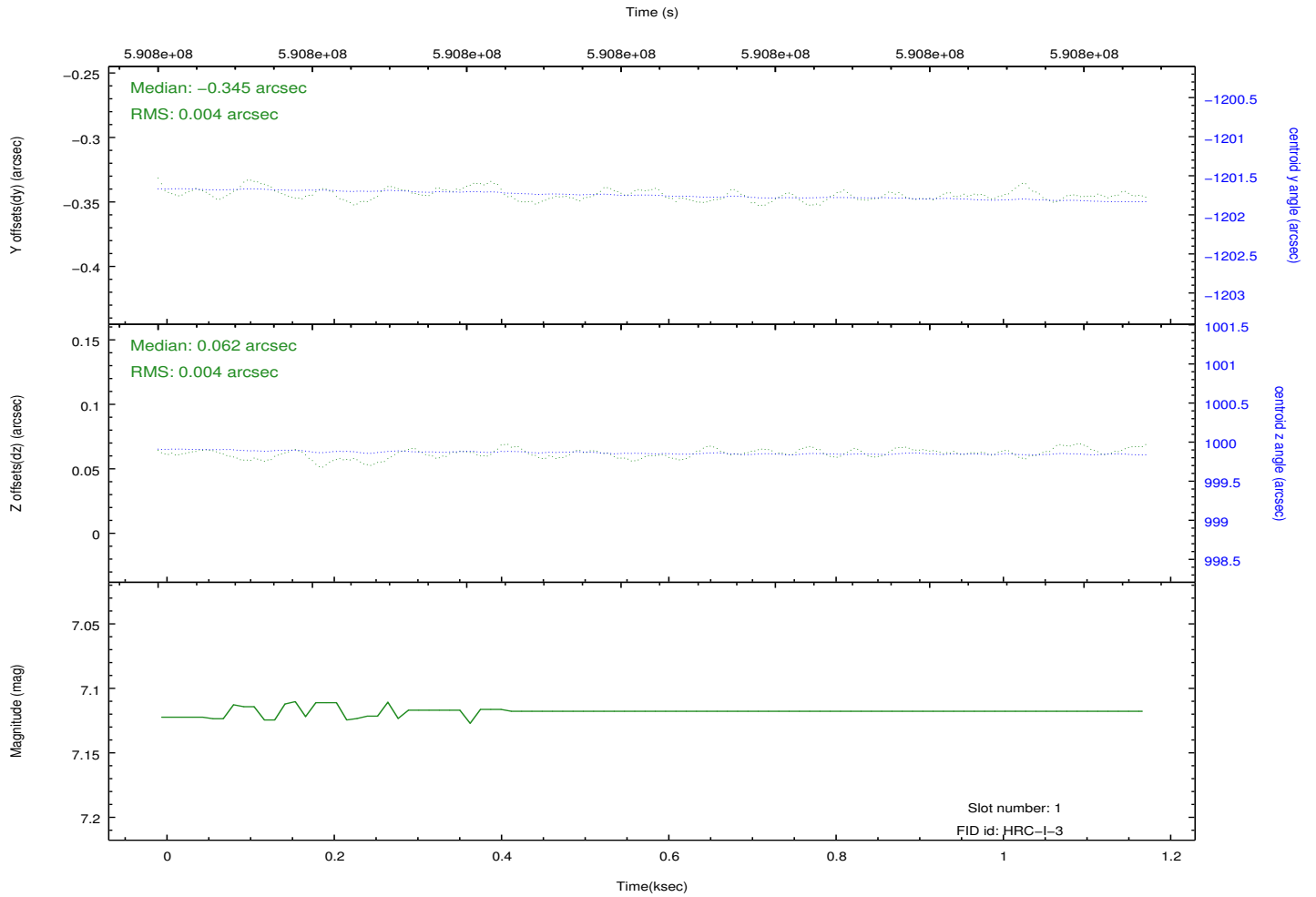
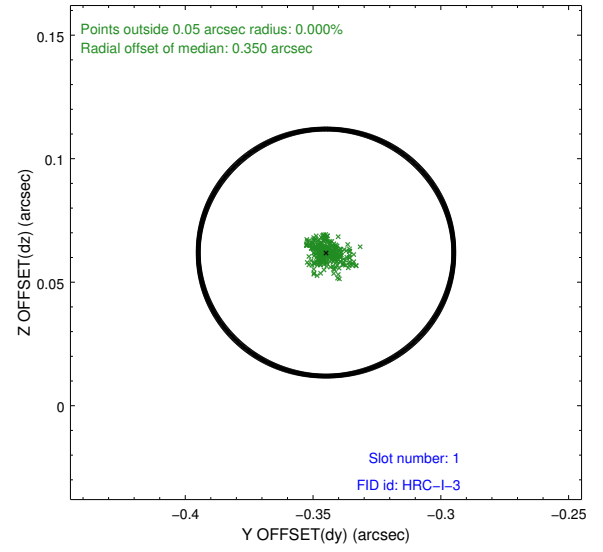
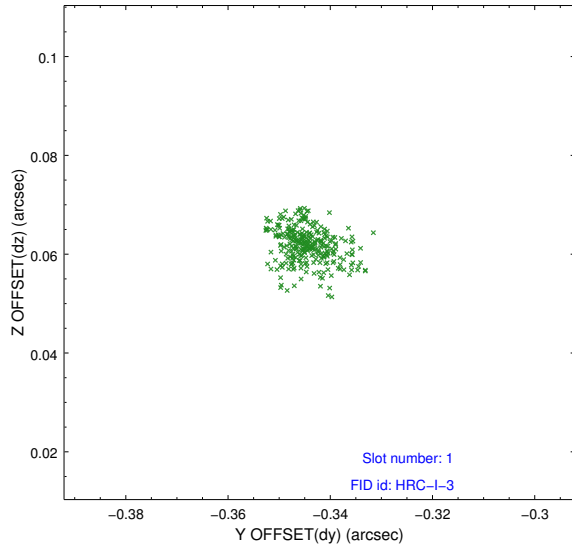


## 2.5 FID Slots

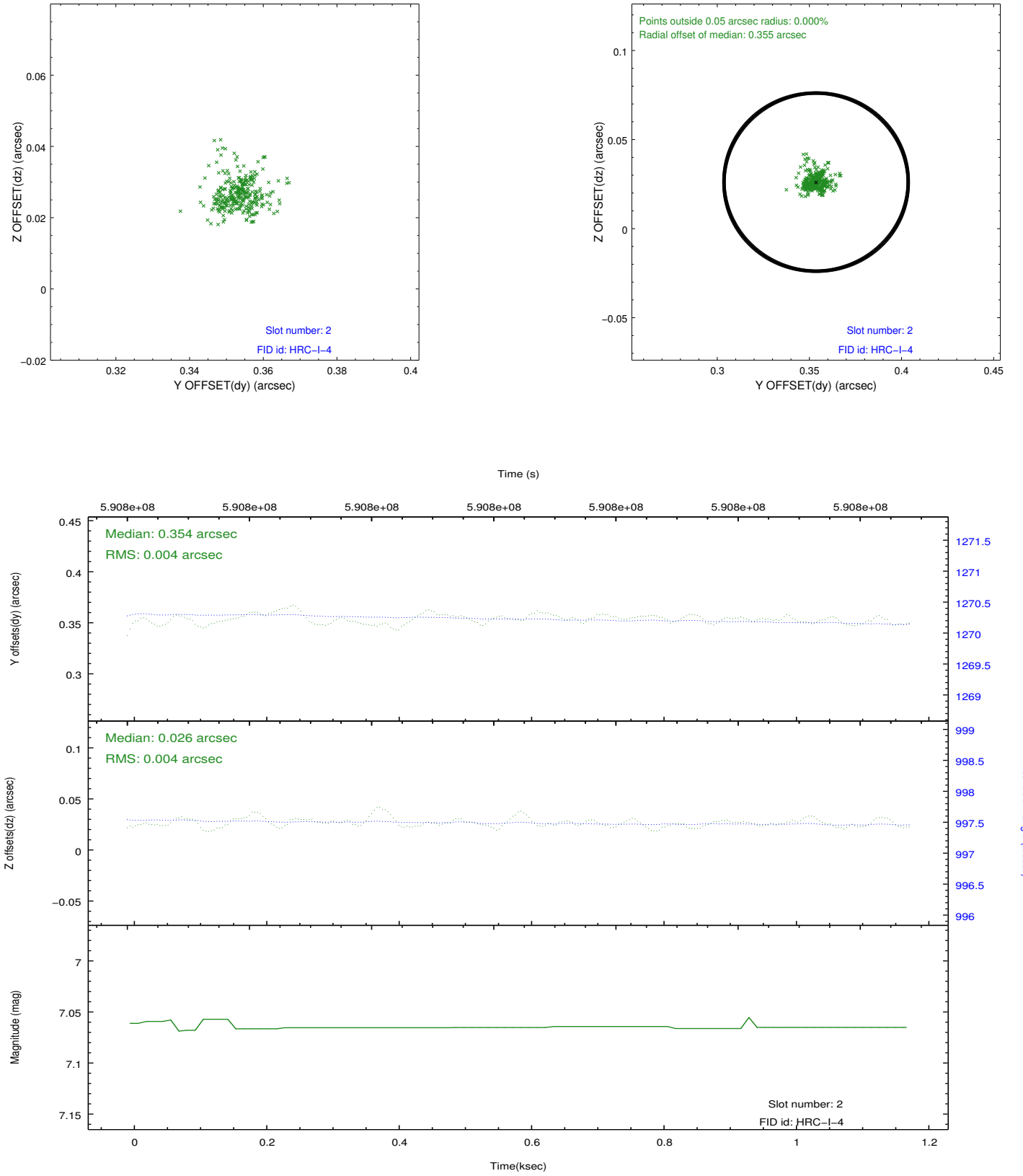
### 2.5.1 Slot 0



## 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	1.18208131814

### A.2 Comments