

# V&V Reference Report

## L2 ASCDS Version : 10.2.4

Observation 16383 - L2 Version 1  
Chandra X-Ray Center

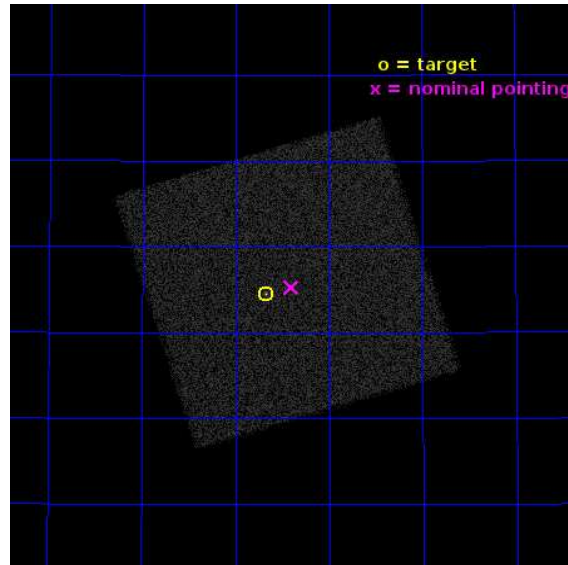
L2 Processing Date : Sep 16 2014

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# 1 Front

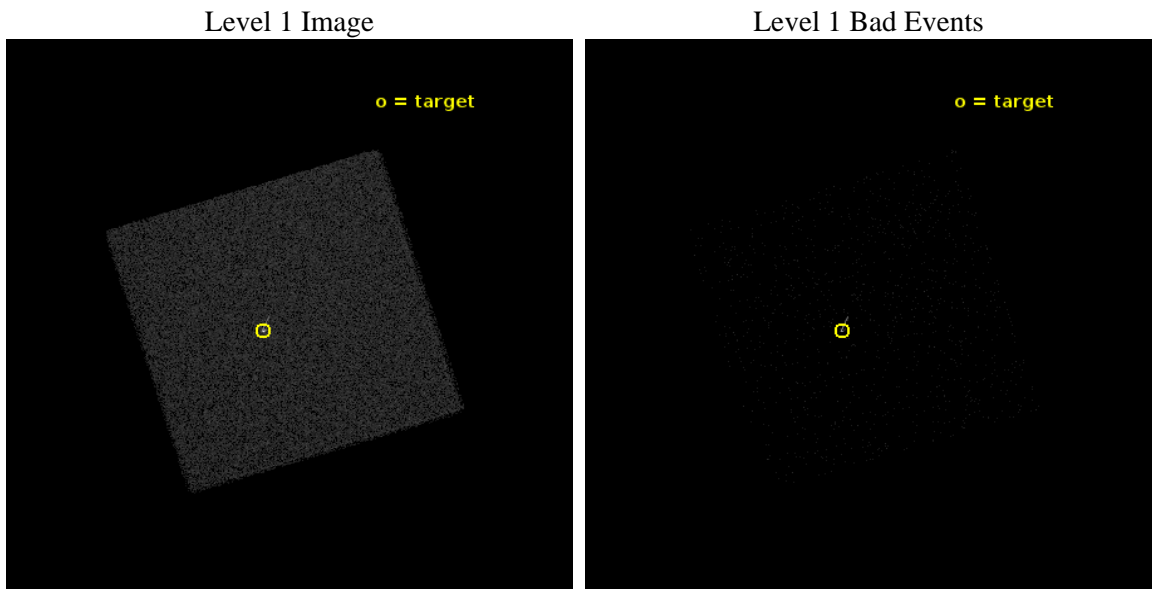
seq_num	291155	Sequence number
obs_id	16383	Observation id
title	AO-15 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.10052455848	Nominal RA [deg]
dec_nom	45.754941512234	Nominal Dec [deg]
roll_nom	207.62643687672	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1181.8250656724	[s]
livetime	1172.4151545501	Ontime multiplied by DTCOR
l2events	76299	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	10.2.4	Processing system revision	ontime	1181.8250656724	[s]
caldbver	4.6.3	&#160	l1events	128956	Number of level 1 events
date	2014-09-16T19:59:13	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

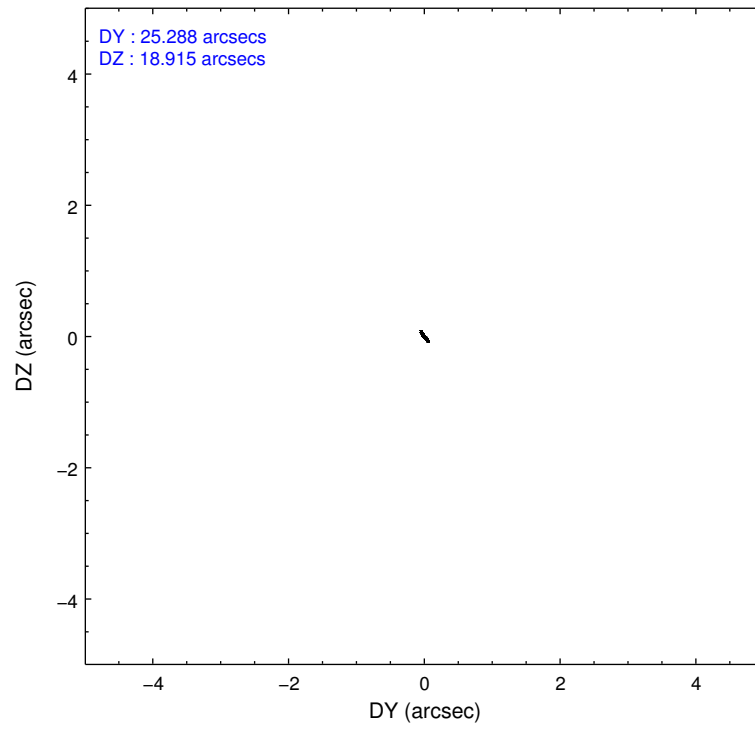
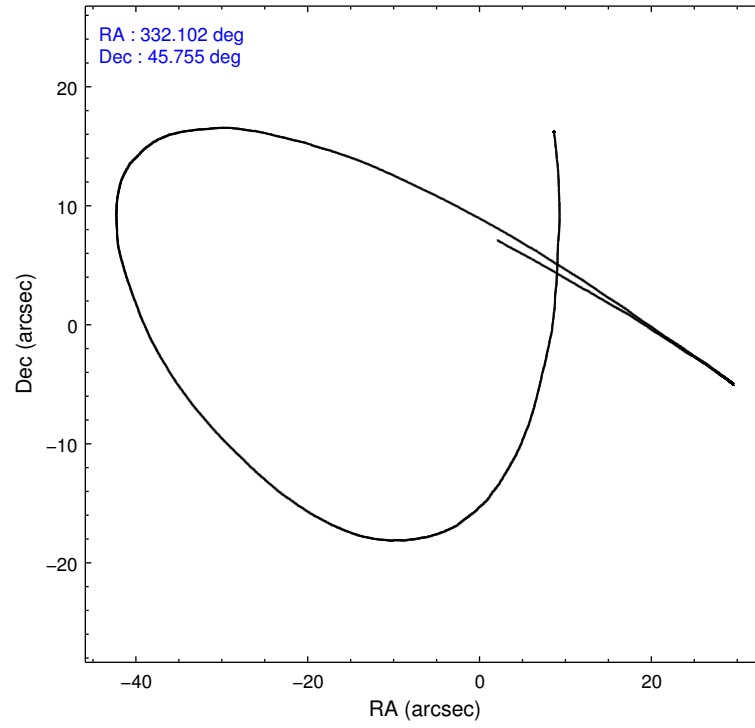
	<b>segment 0</b>
level 1 events	128956
rejected events	28000
rejected %	21%

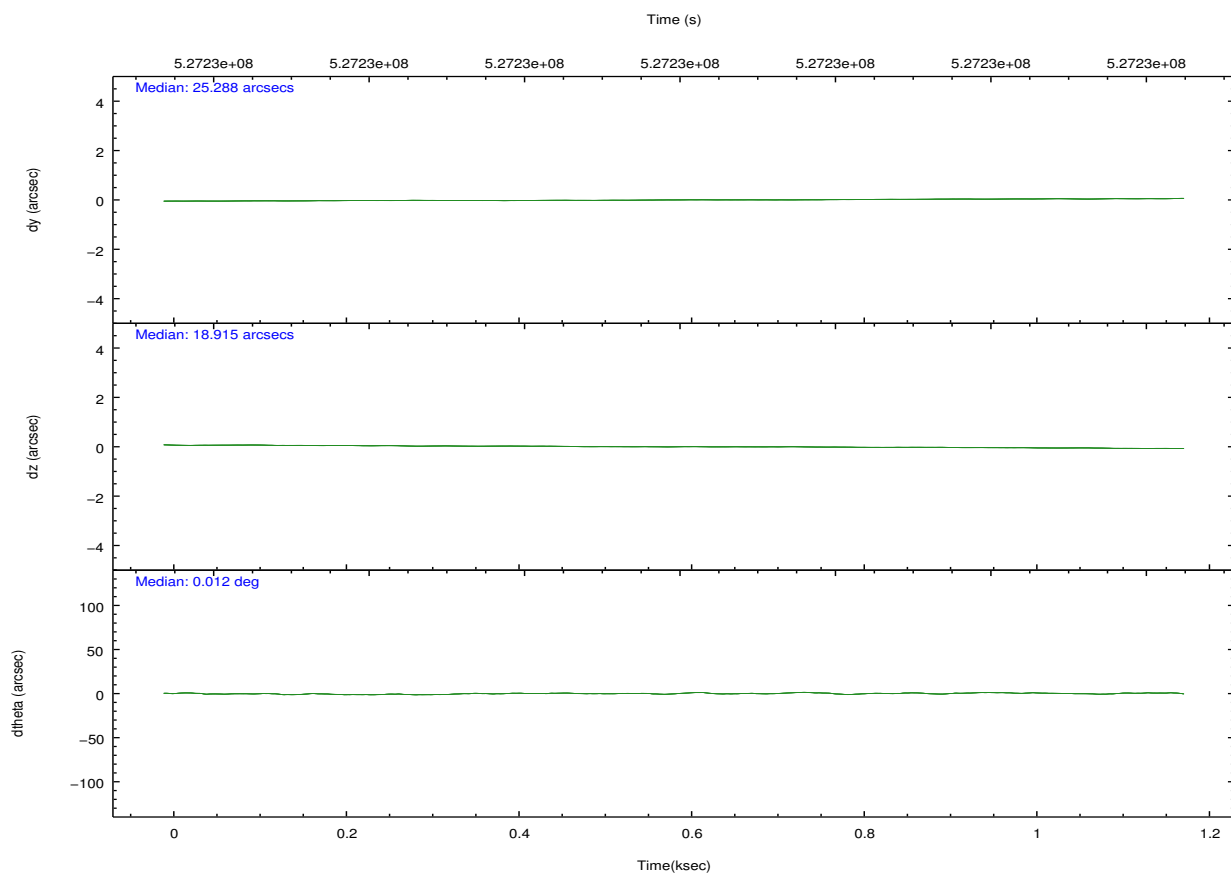
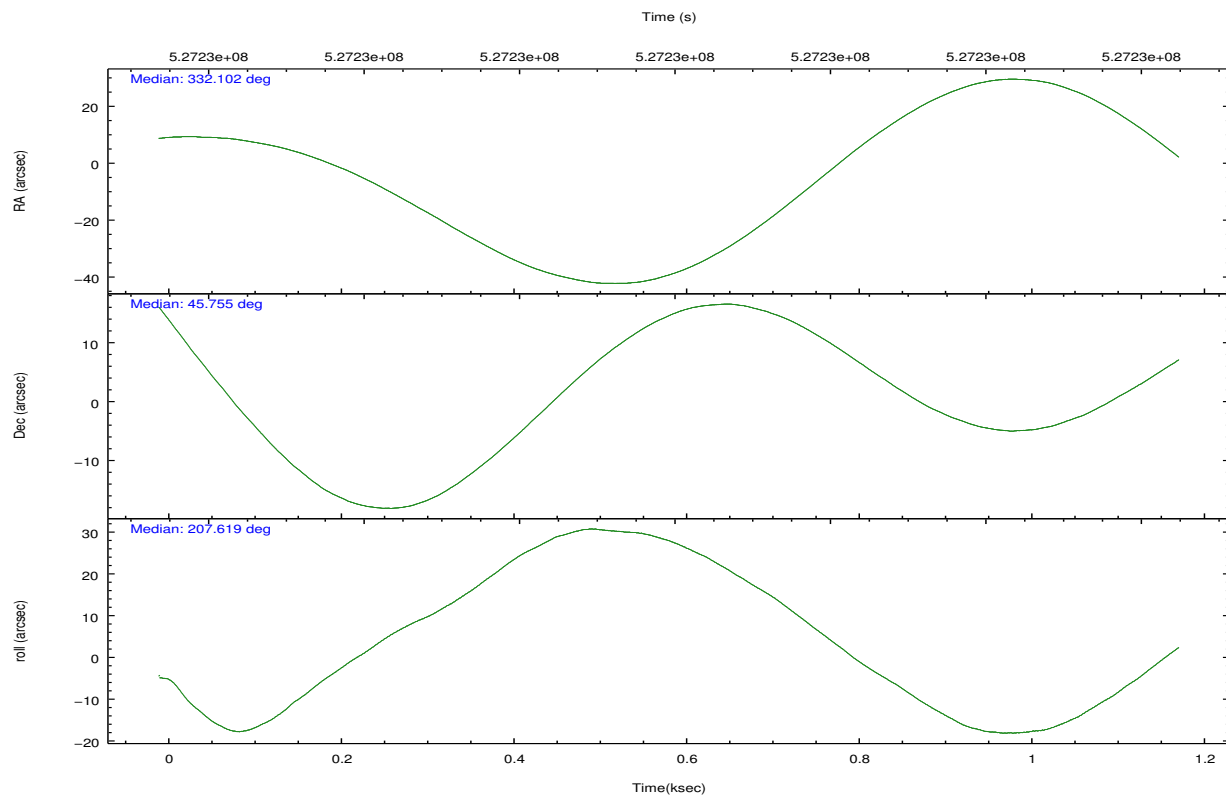
## 2.2 Compared Parameters

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	332.119593	332.100524558481
[deg] Pointing Dec	45.779186	45.75494151223366
[deg] Pointing Roll	207.708294	207.6264368767234
[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)	527233771.184000	527233395.21373
Observation start date	2014-09-16T05:48:24	2014-09-16T05:43:15
[s] Observation end time (MET)	527234771.184000	527234905.55131
Observation end date	2014-09-16T06:05:04	2014-09-16T06:08:25

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

## 2.3 Aspect





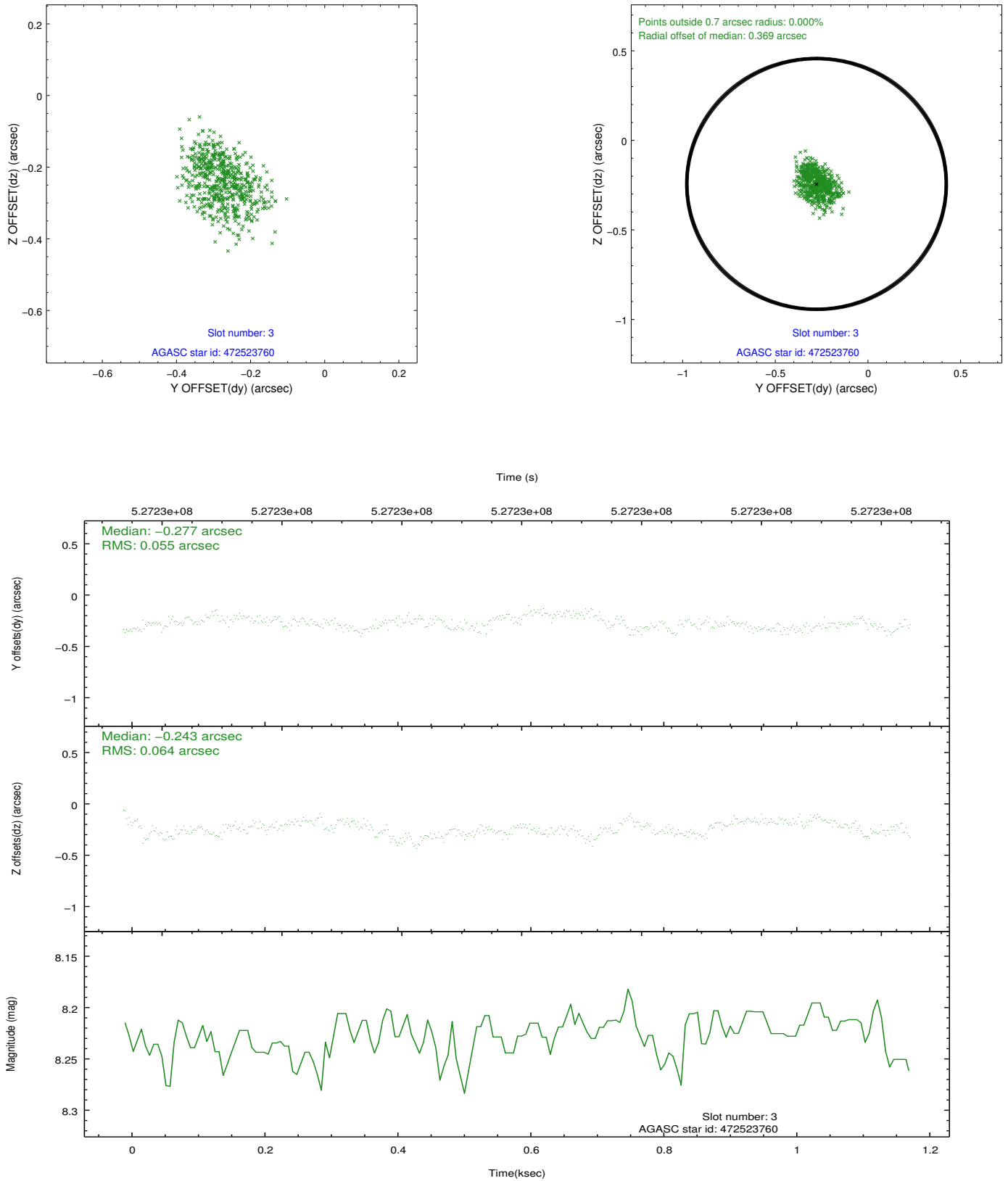
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	7.02	288	-0.083	-0.053	0.008	0.013	0.000000	0.000000	-781.54	-1307.12
1	FID	HRC-I-3	7.11	289	-0.166	-0.122	0.007	0.013	0.000000	0.000000	-1212.67	992.88
2	FID	HRC-I-4	7.03	289	0.362	0.085	0.007	0.011	0.000000	0.000000	1257.65	998.49
3	GUIDE	472523760	8.23	578	-0.277	-0.243	0.090	0.141	331.645363	45.403260	1690.19	634.00
4	GUIDE	472533912	9.15	578	0.239	0.161	0.137	0.216	331.791136	46.368695	-260.23	-2262.15
5	GUIDE	472665256	8.99	577	0.238	0.171	0.101	0.177	332.808125	46.195041	-2217.17	-541.88
6	GUIDE	472535576	7.86	578	-0.206	0.224	0.084	0.139	331.438373	46.291802	636.65	-2432.42
7	GUIDE	472655152	9.41	577	0.022	-0.307	0.214	0.348	332.504239	45.862991	-992.48	171.09

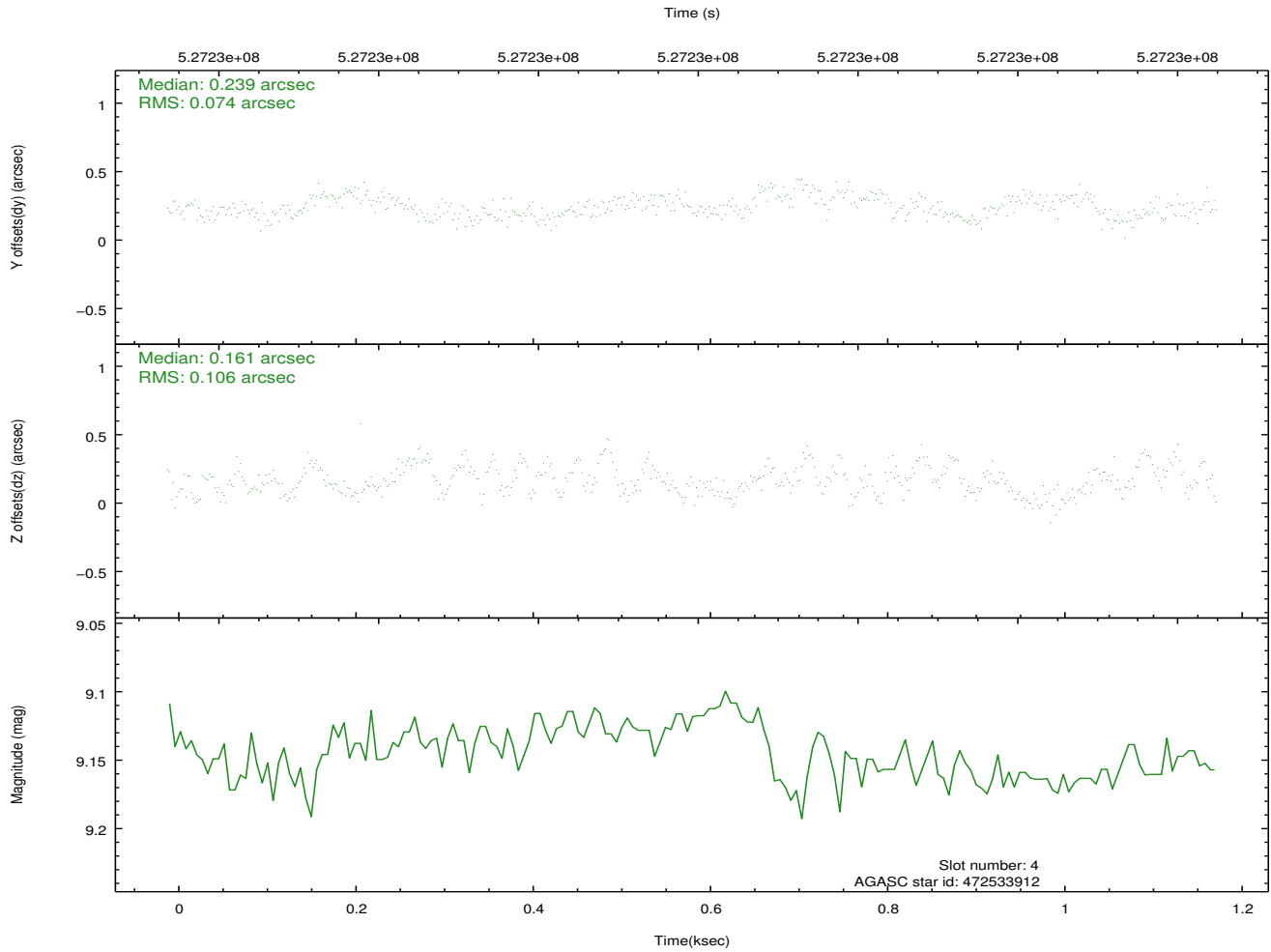
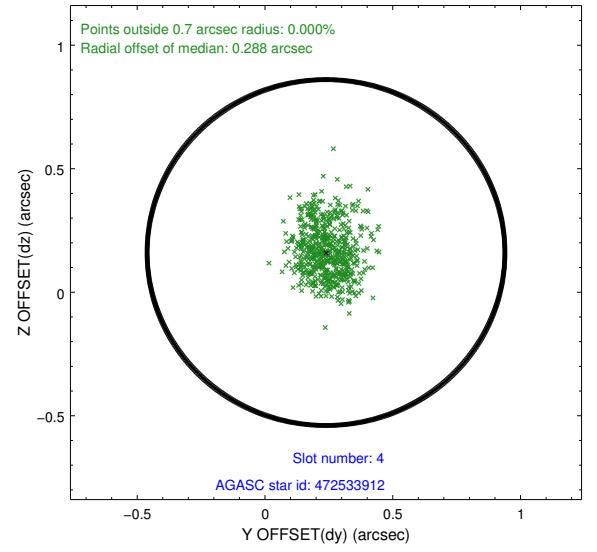
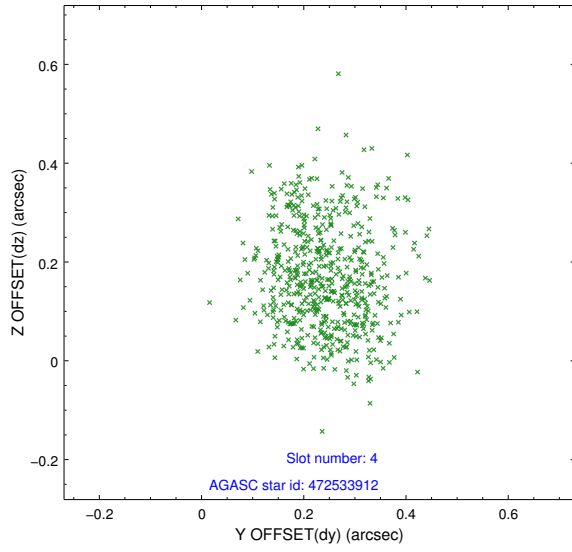


## 2.4 Star Slots

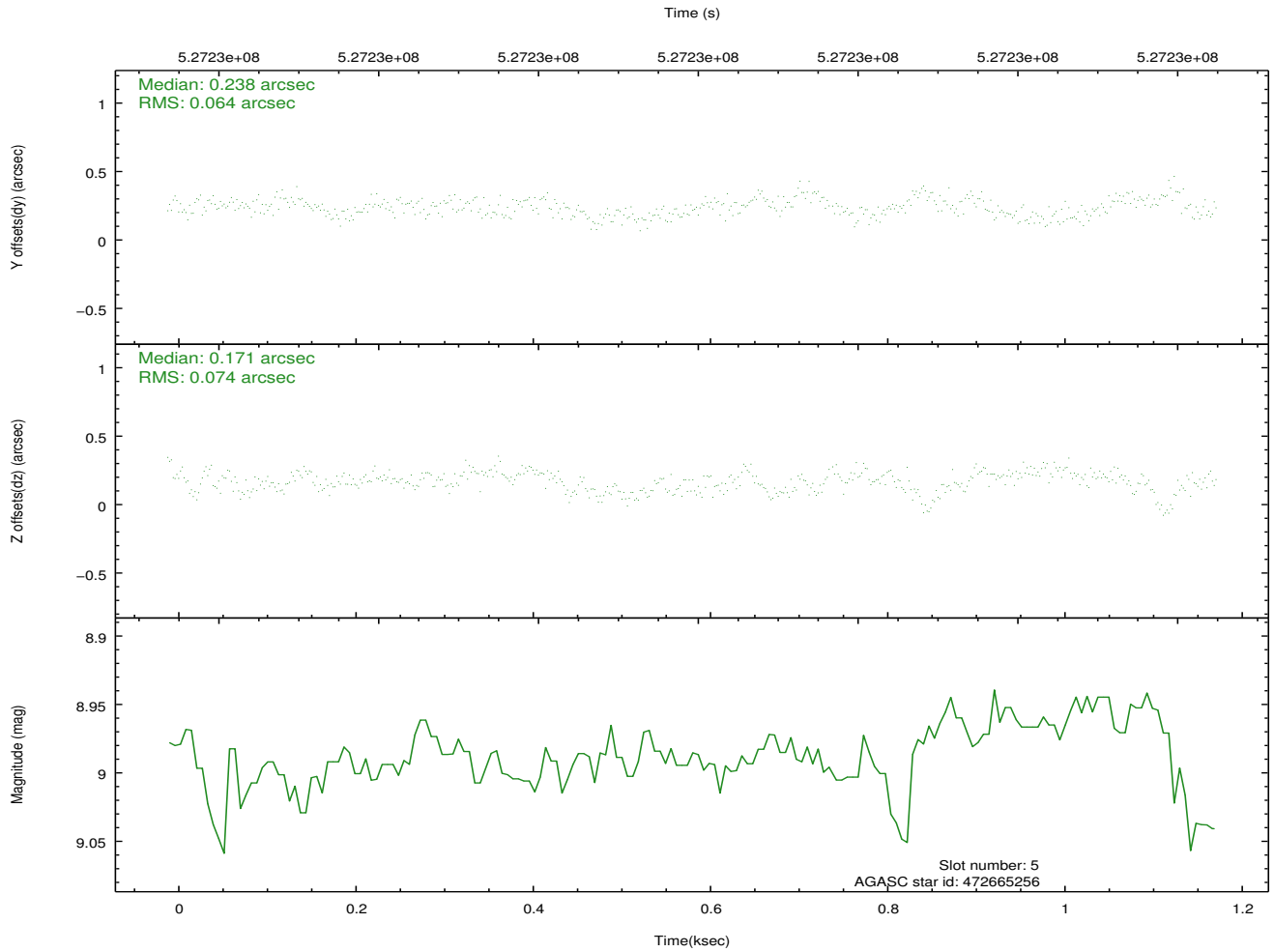
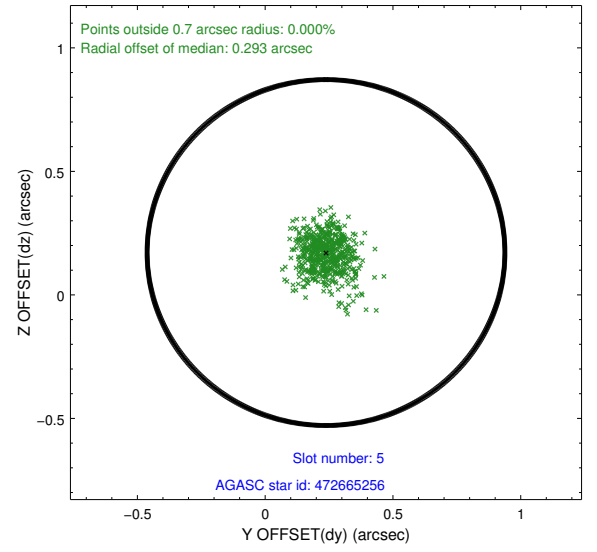
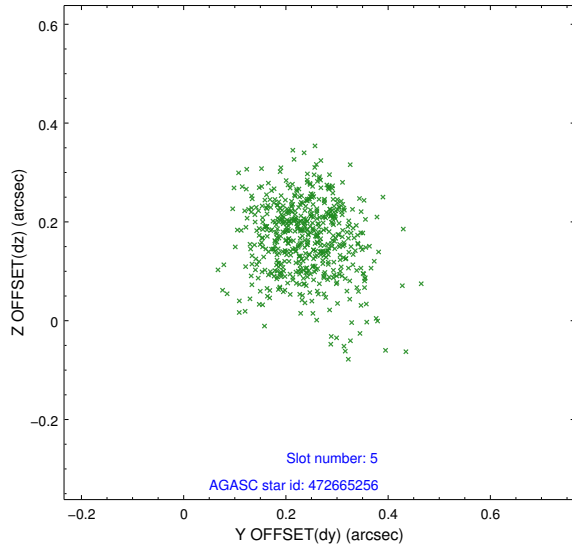
### 2.4.1 Slot 3



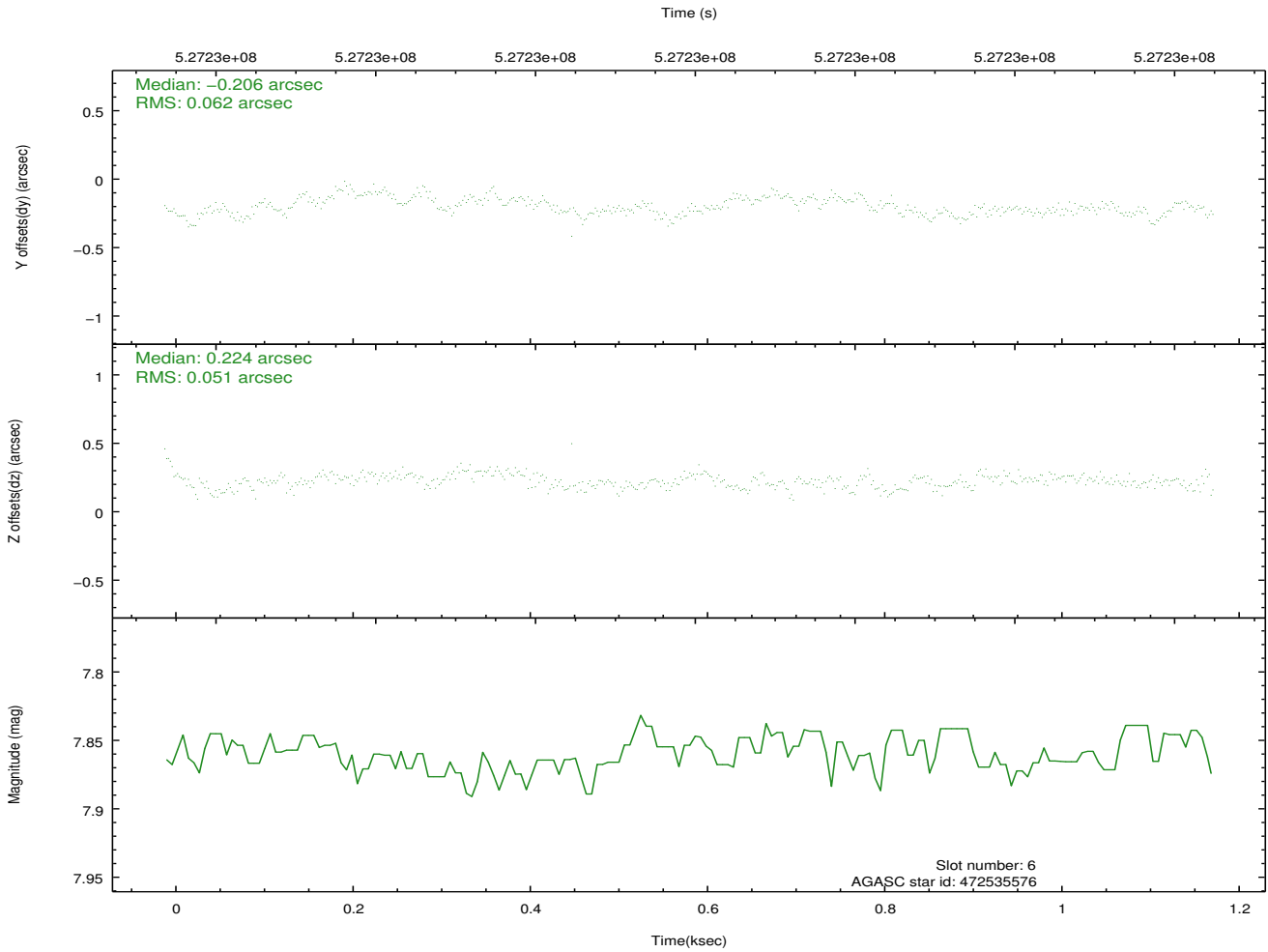
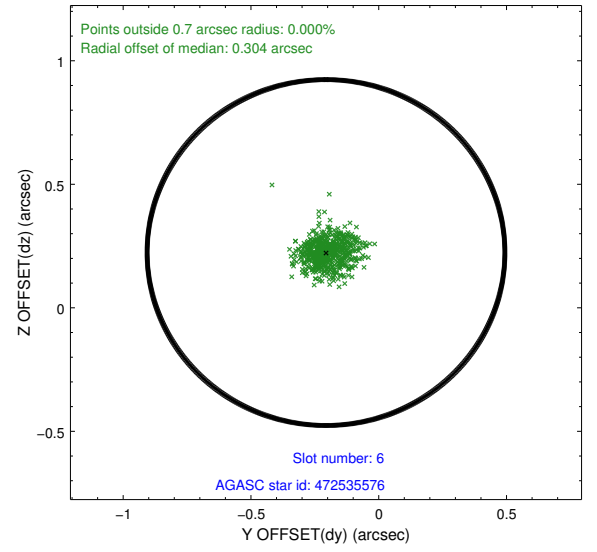
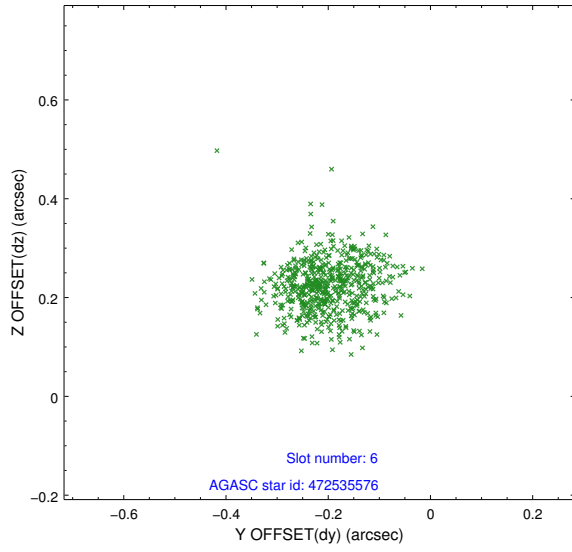
## 2.4.2 Slot 4



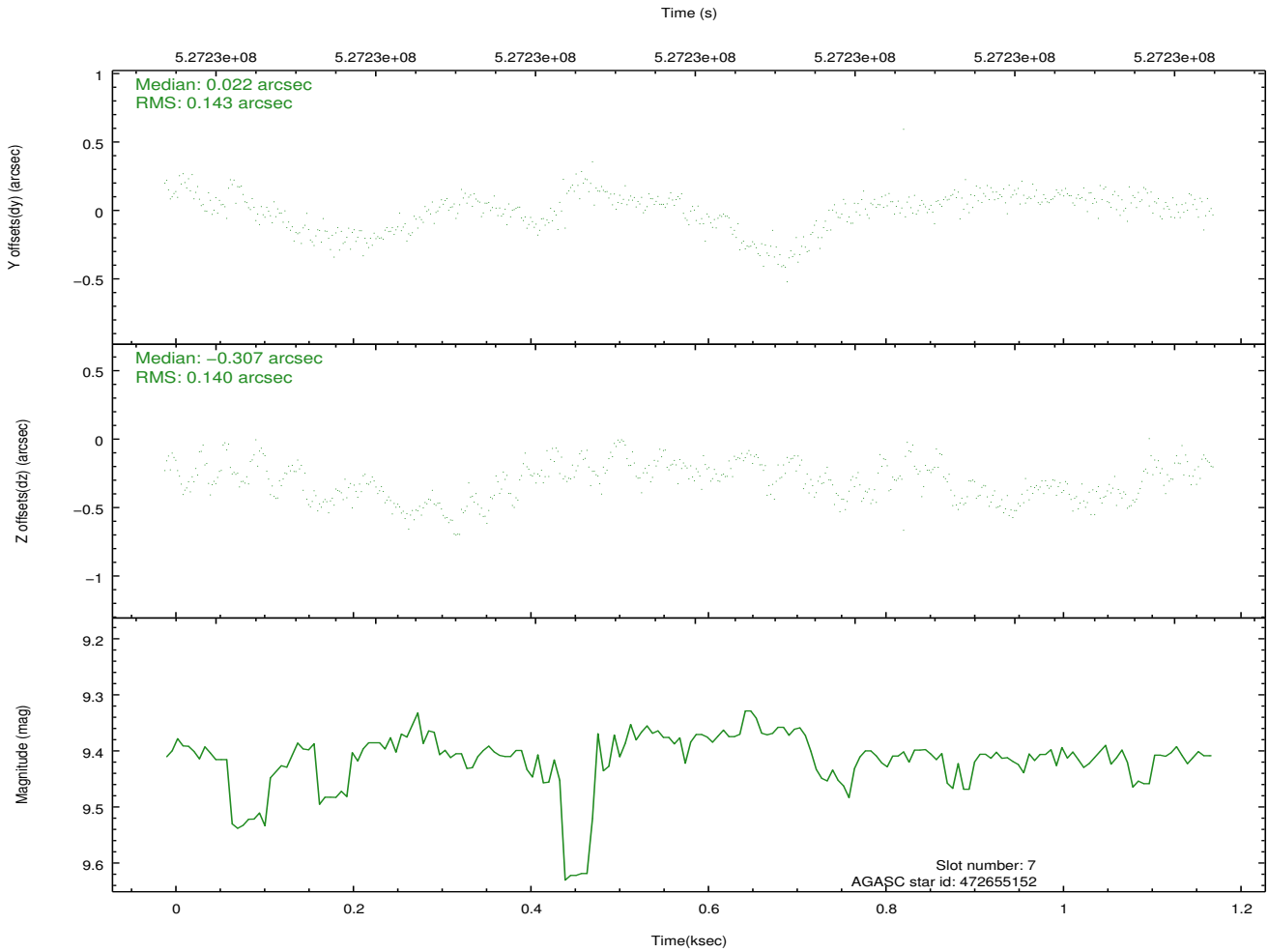
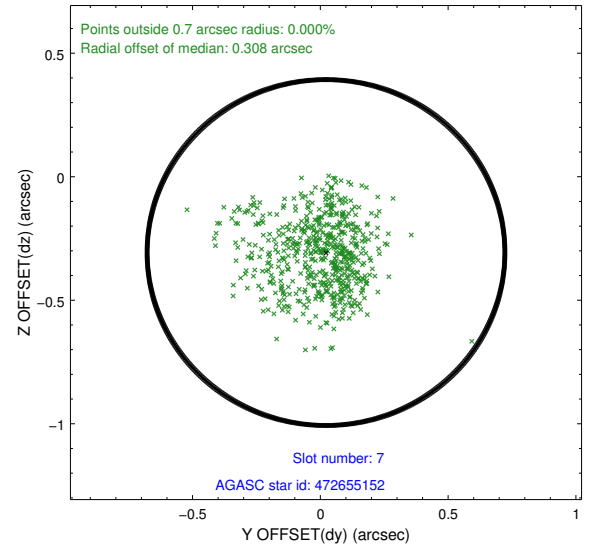
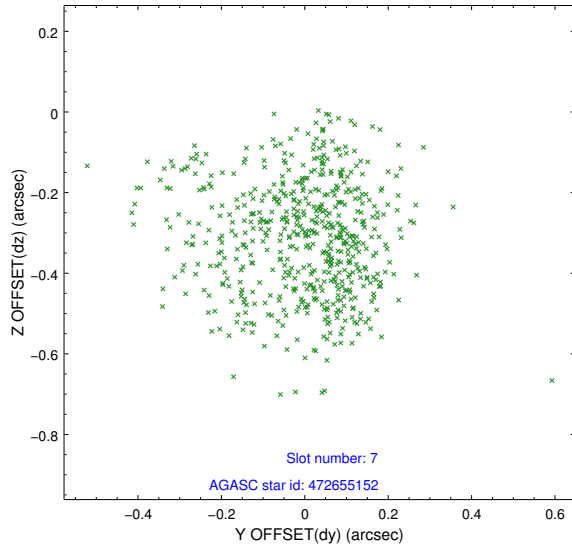
### 2.4.3 Slot 5



## 2.4.4 Slot 6

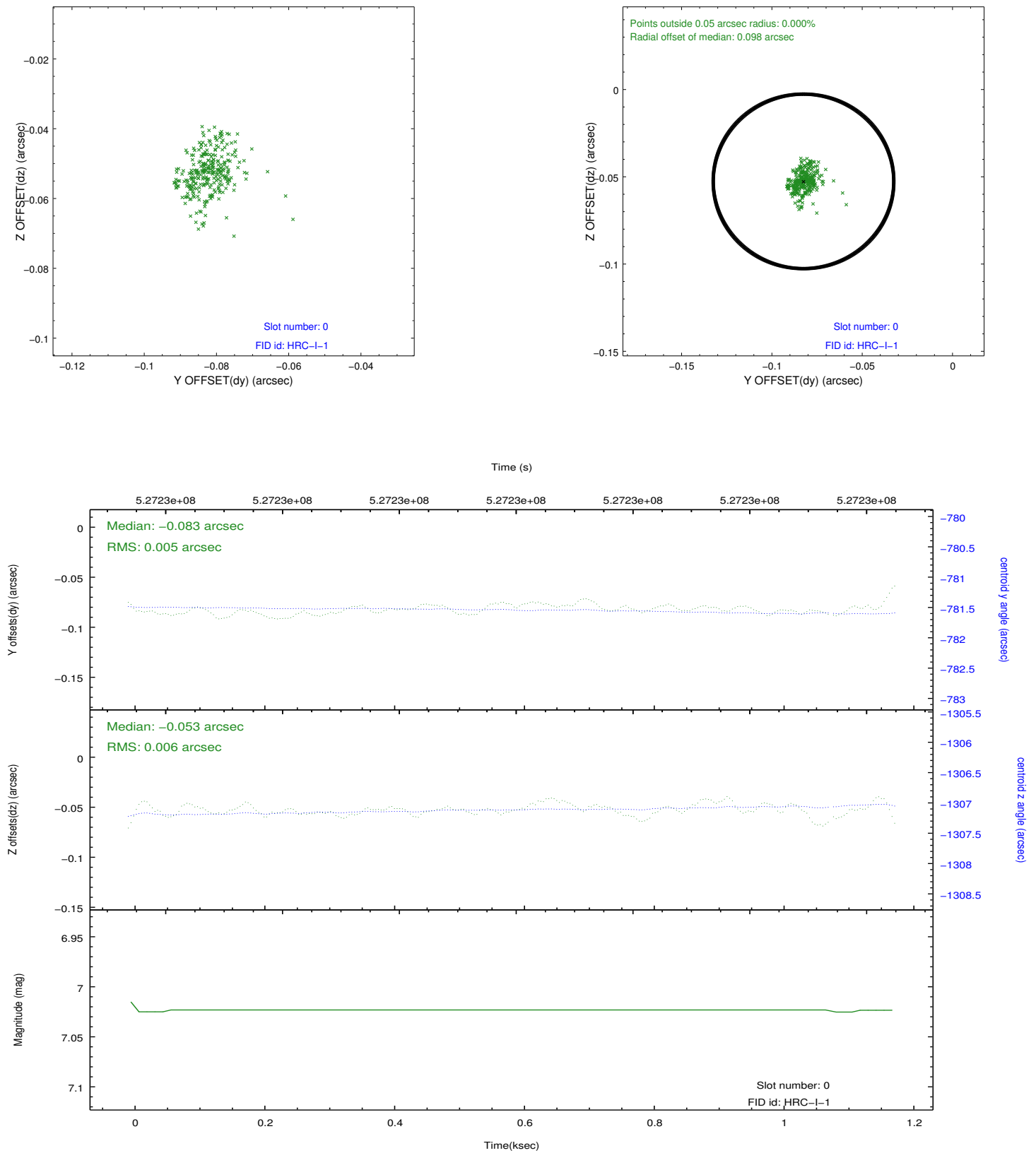


## 2.4.5 Slot 7

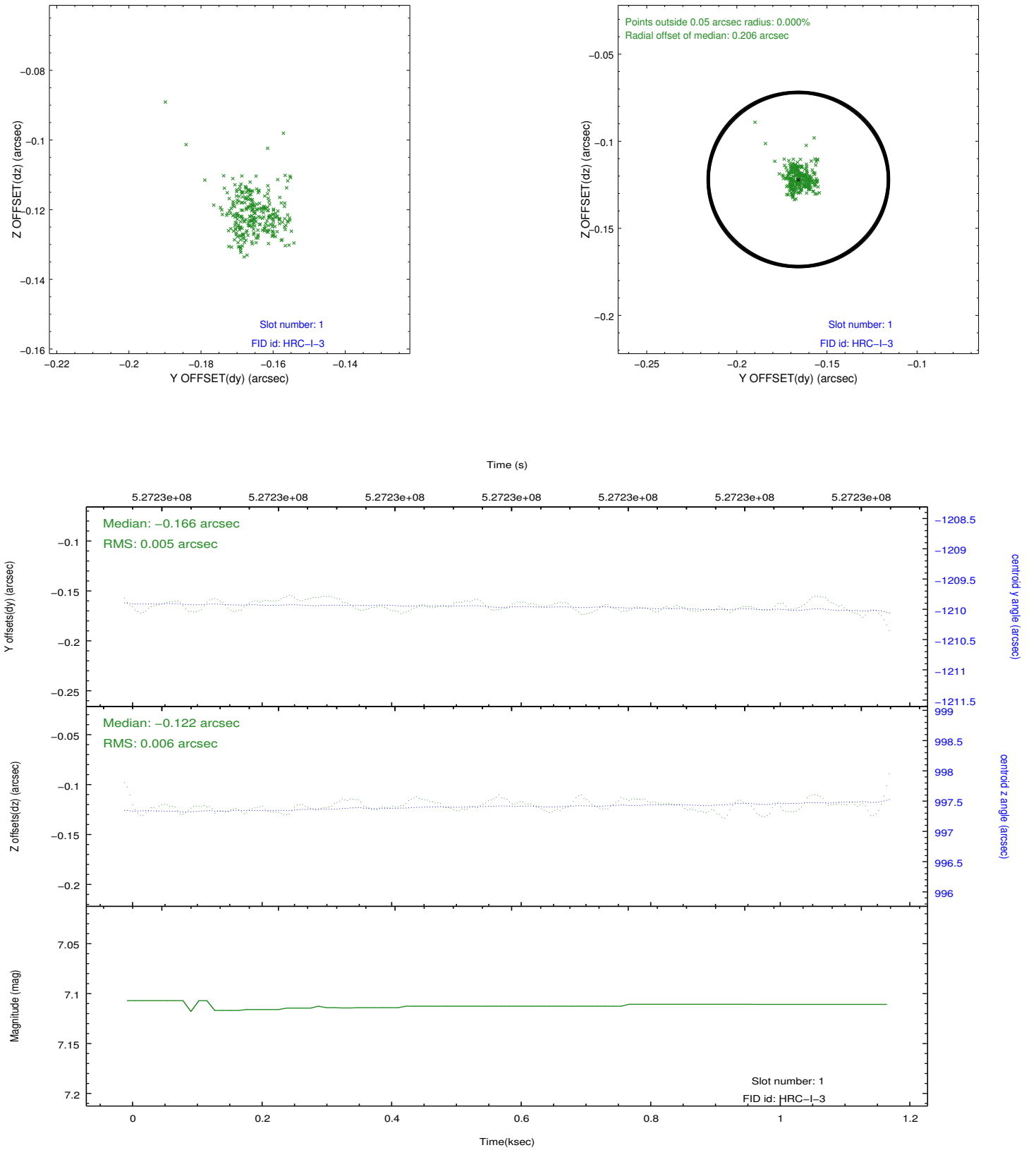


## 2.5 FID Slots

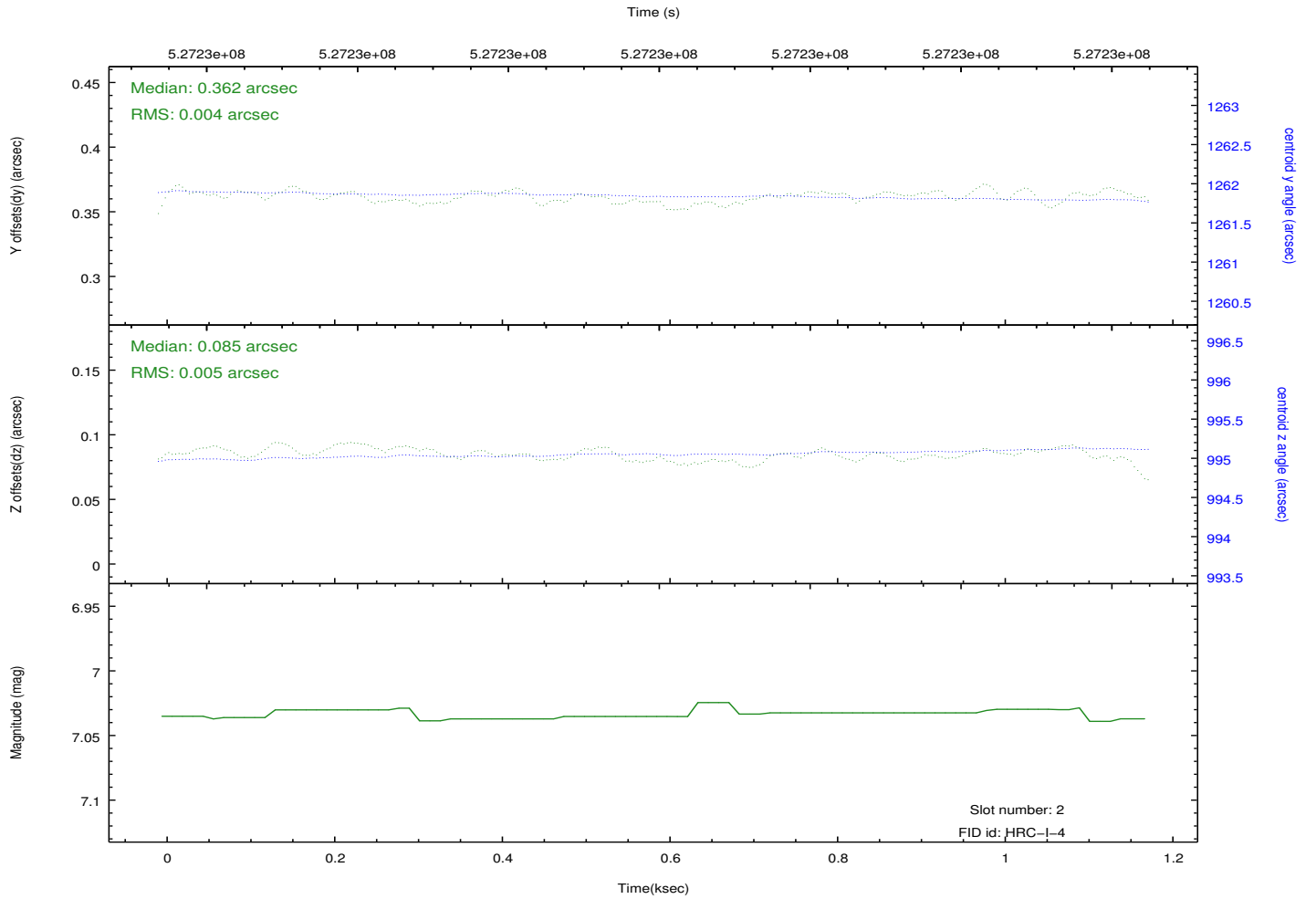
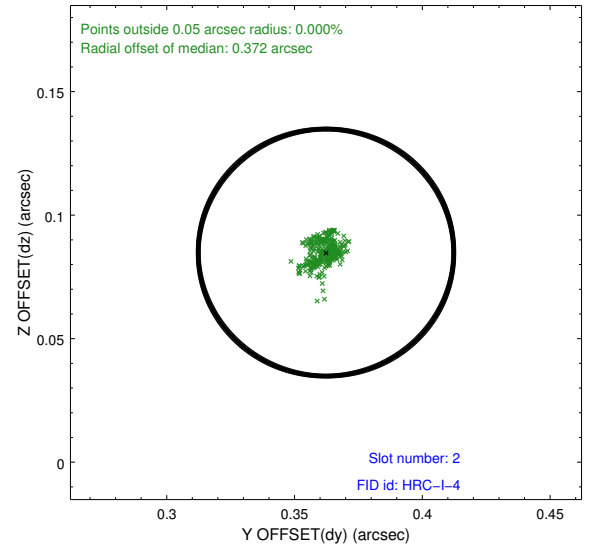
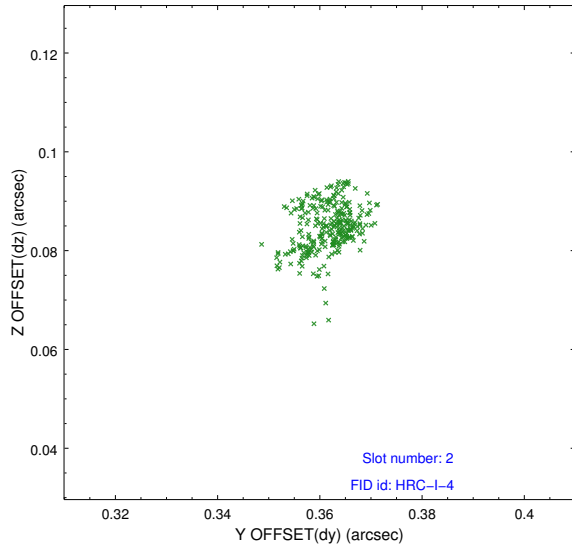
### 2.5.1 Slot 0



## 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)	2014.09.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1818250656724

### A.2 Comments