

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 6539 - L2 Version 4  
Chandra X-Ray Center

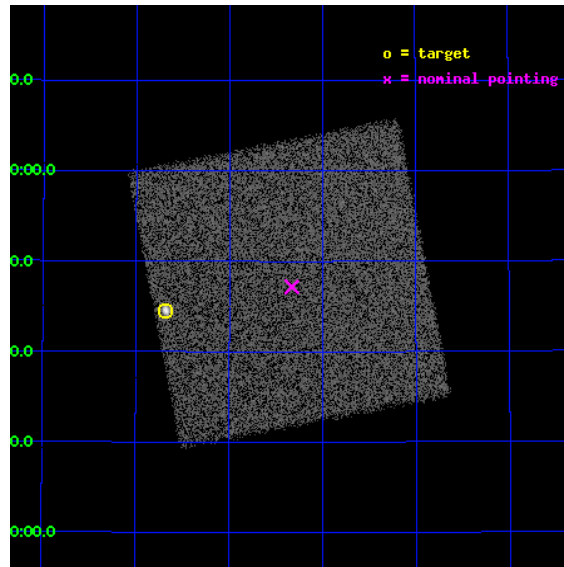
L2 Processing Date : Aug 11 2012

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# 1 Front

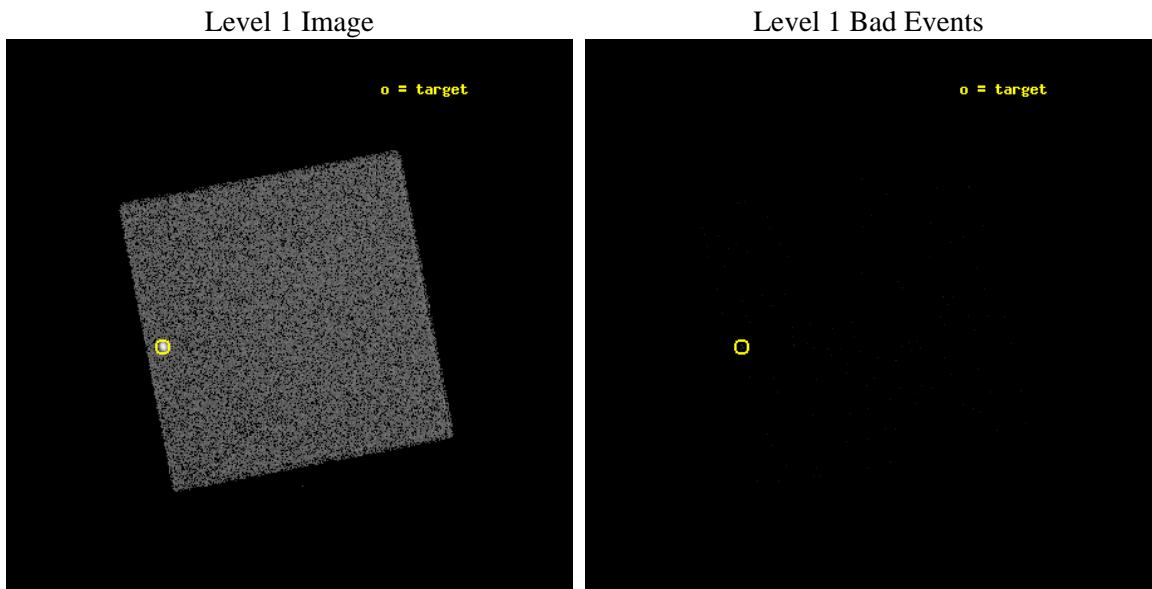
seq_num	290632	Sequence number
obs_id	6539	Observation id
title	AO7 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	331.83215433505	Nominal RA [deg]
dec_nom	45.786504458667	Nominal Dec [deg]
roll_nom	214.07697095207	Nominal Roll [deg]
revision	4	Processing version of data
ontime	1186.1813058257	[s]
livetime	1175.2721219845	Ontime multiplied by DTCOR
l2events	62886	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	8.4.5	Processing system revision	ontime	1186.1813058257	[s]
caldbver	4.5.1.1	&#160	l1events	109702	Number of level 1 events
date	2012-08-11T13:20:34	Date and time of file creation			
revision	4	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

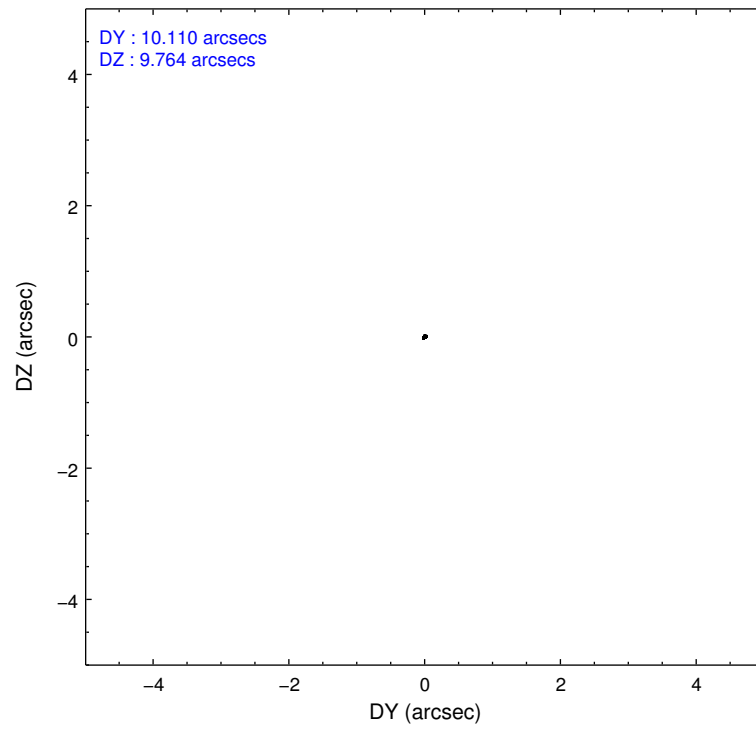
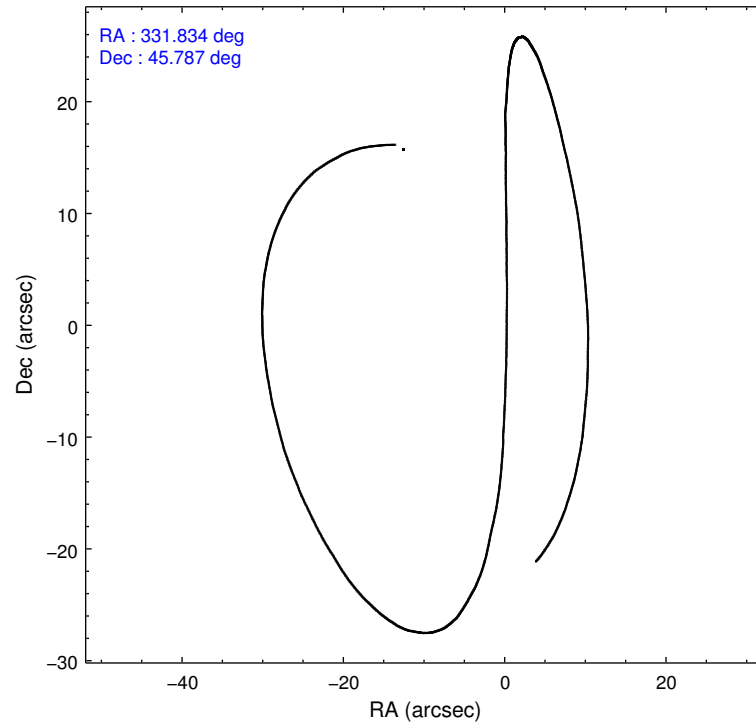
	<b>segment 0</b>
level 1 events	109702
rejected events	17789
rejected %	16%

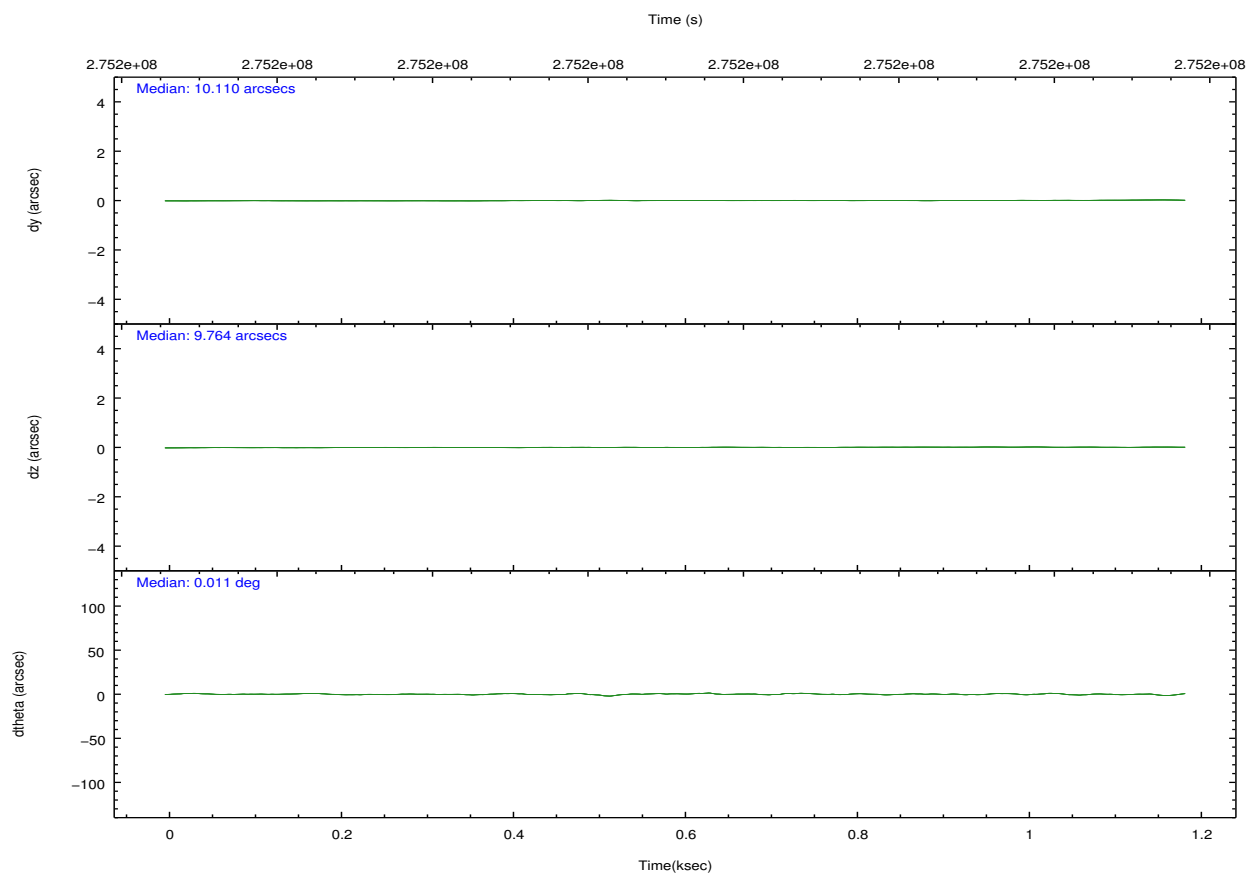
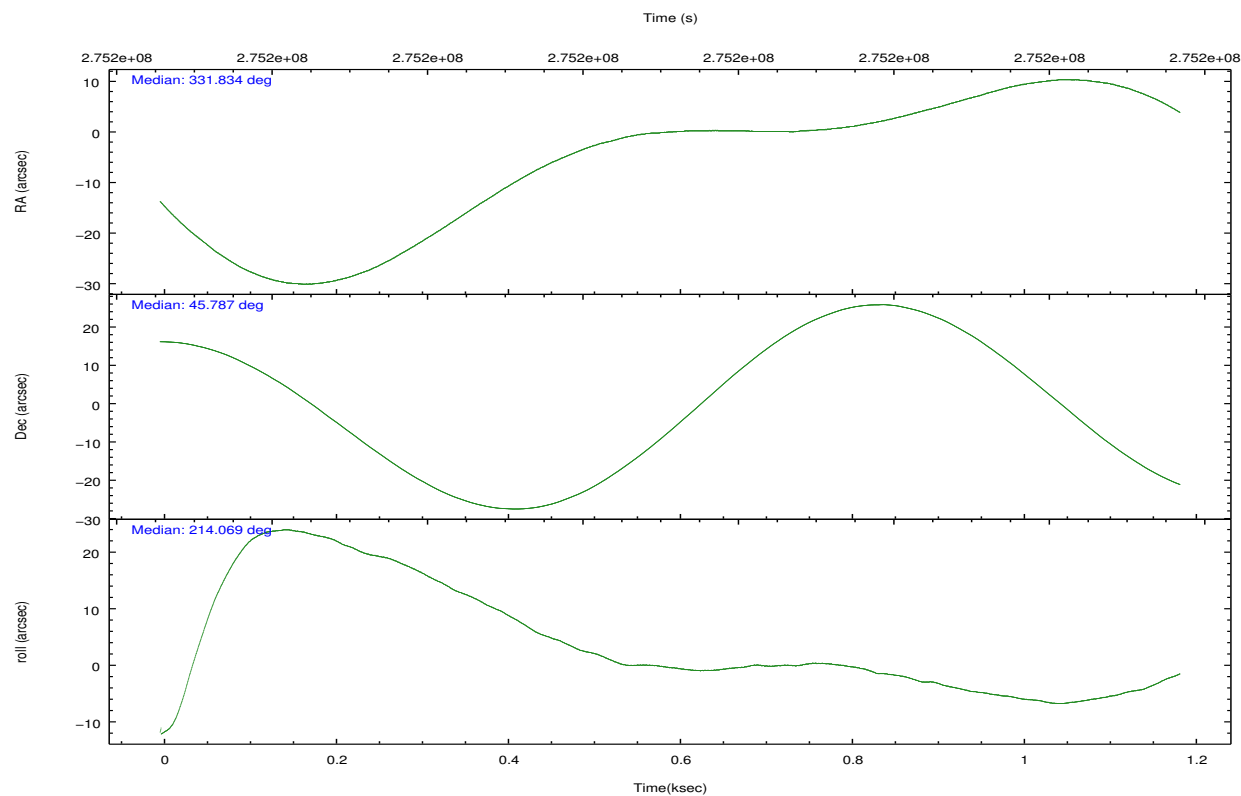
## 2.2 Compared Parameters

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	331.848597	331.8321543350489
[deg] Pointing Dec	45.810898	45.7865044586666
[deg] Pointing Roll	214.160813	214.0769709520668
[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)	275200502.184000	275200125.97727
Observation start date	2006-09-21T04:33:57	2006-09-21T04:28:45
[s] Observation end time (MET)	275201502.184000	275202400.96487
Observation end date	2006-09-21T04:50:37	2006-09-21T05:06:40

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

## 2.3 Aspect





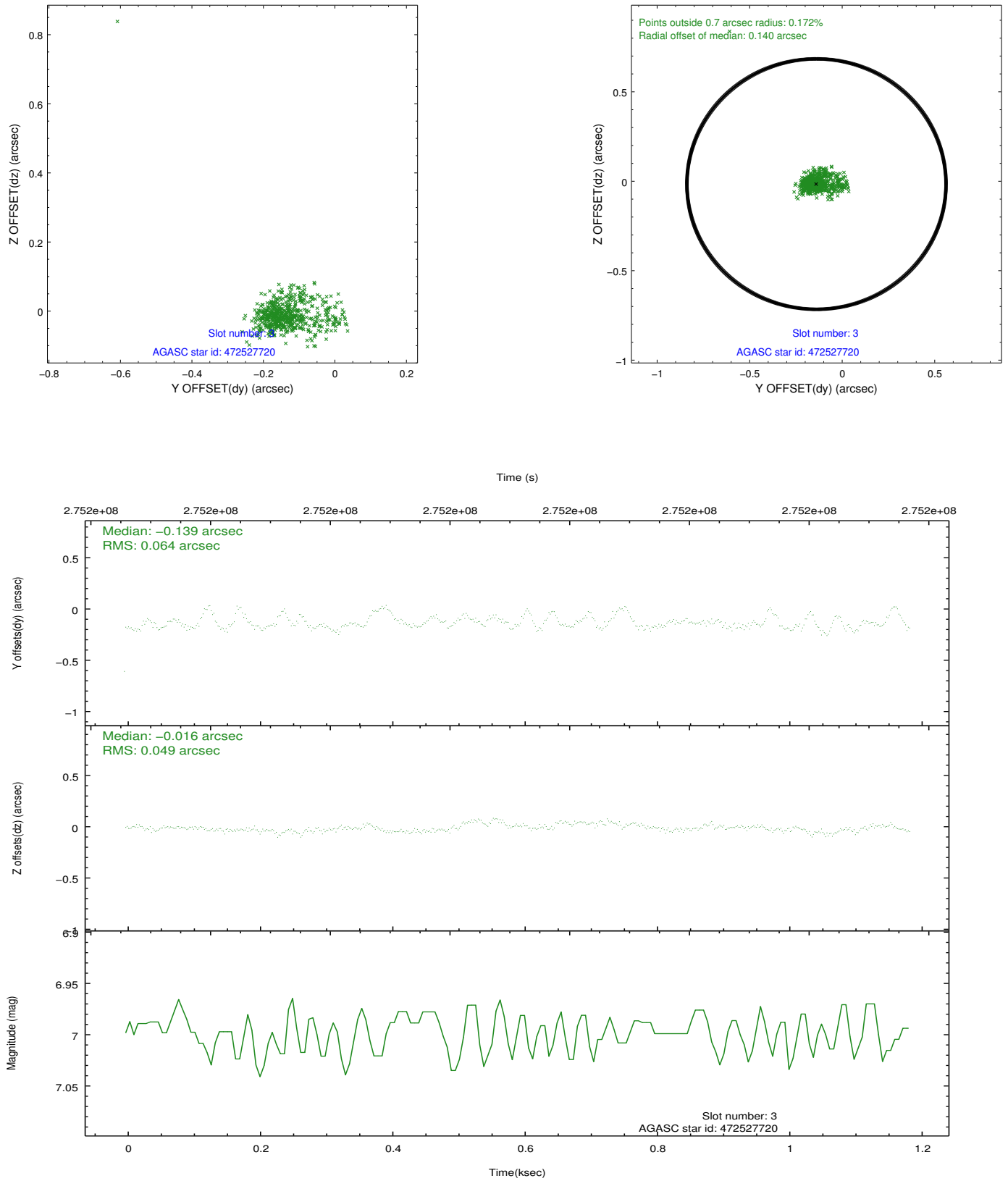
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-1	6.97	290	-0.030	-0.038	0.005	0.008	0.000000	0.000000	-765.86	-1297.70
1	FID	HRC-I-2	7.01	290	0.102	-0.037	0.007	0.010	0.000000	0.000000	844.26	-1303.81
2	FID	HRC-I-4	7.00	290	0.043	-0.018	0.005	0.008	0.000000	0.000000	1280.01	999.91
3	GUIDE	472527720	7.00	580	-0.139	-0.016	0.068	0.138	331.460205	45.112509	2226.97	1525.98
4	GUIDE	472533912	9.16	580	0.095	-0.037	0.098	0.162	331.791136	46.368695	-1005.07	-1738.04
5	GUIDE	472535576	7.85	577	-0.015	0.035	0.056	0.089	331.438373	46.291802	-130.54	-2009.51
6	GUIDE	472536328	8.12	580	-0.030	0.111	0.061	0.103	331.496671	46.454831	-580.22	-2412.02
7	GUIDE	472523760	8.23	579	0.077	-0.103	0.057	0.091	331.645363	45.403260	1248.09	922.55

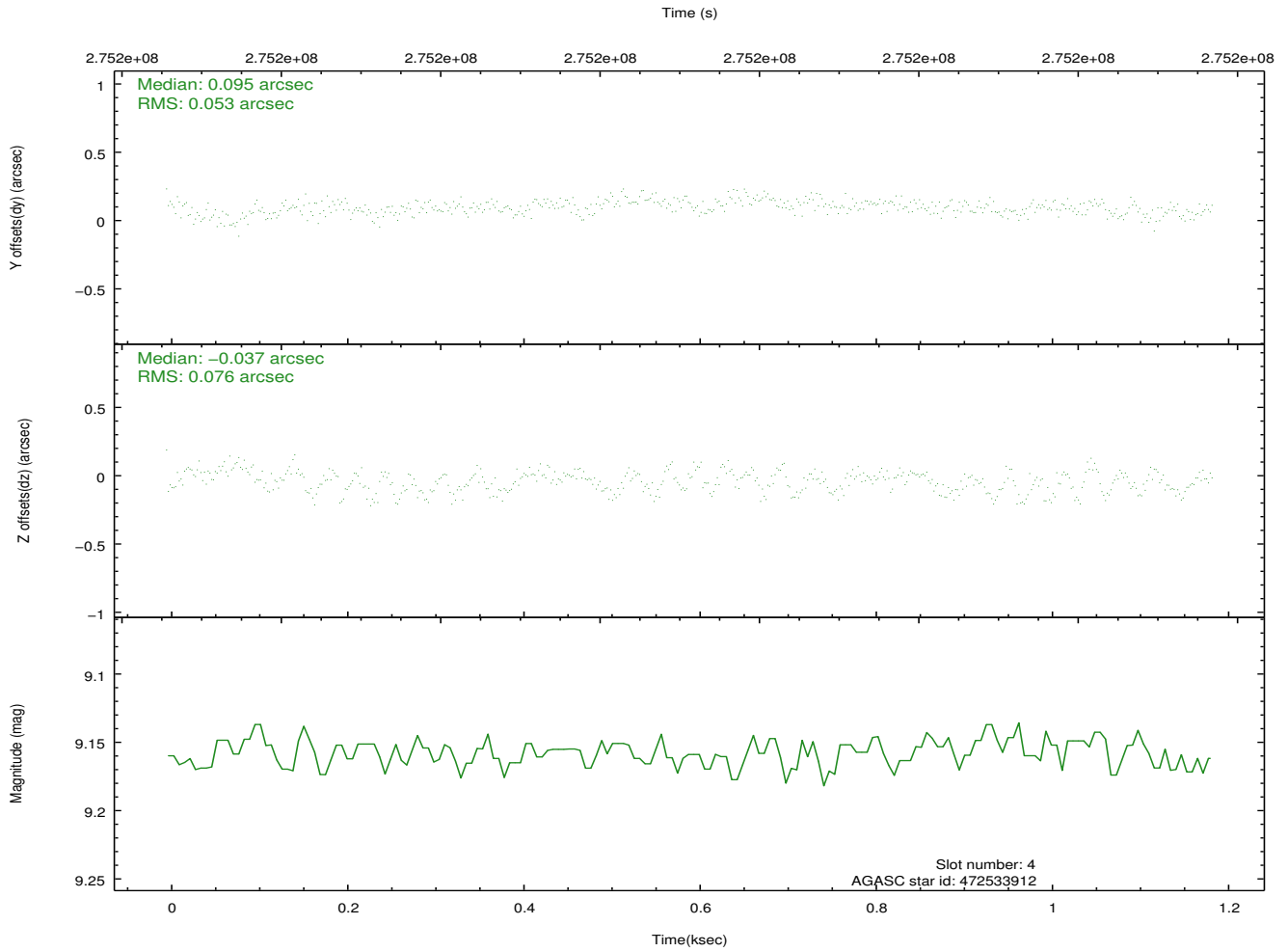
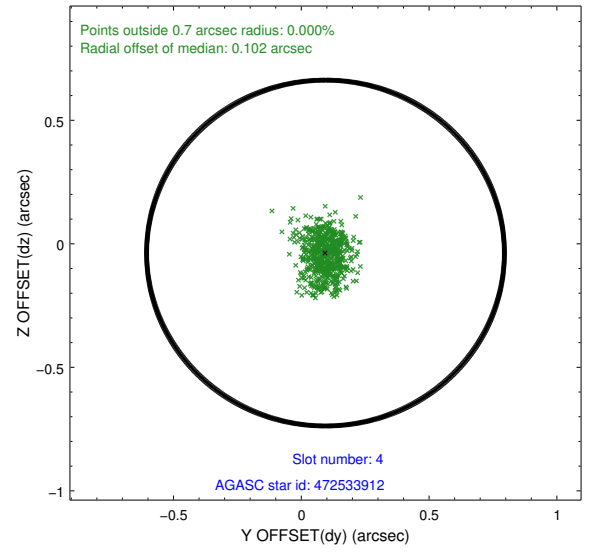
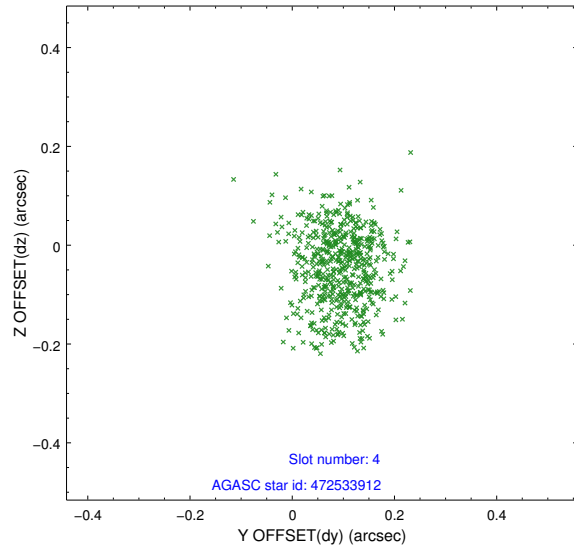


## 2.4 Star Slots

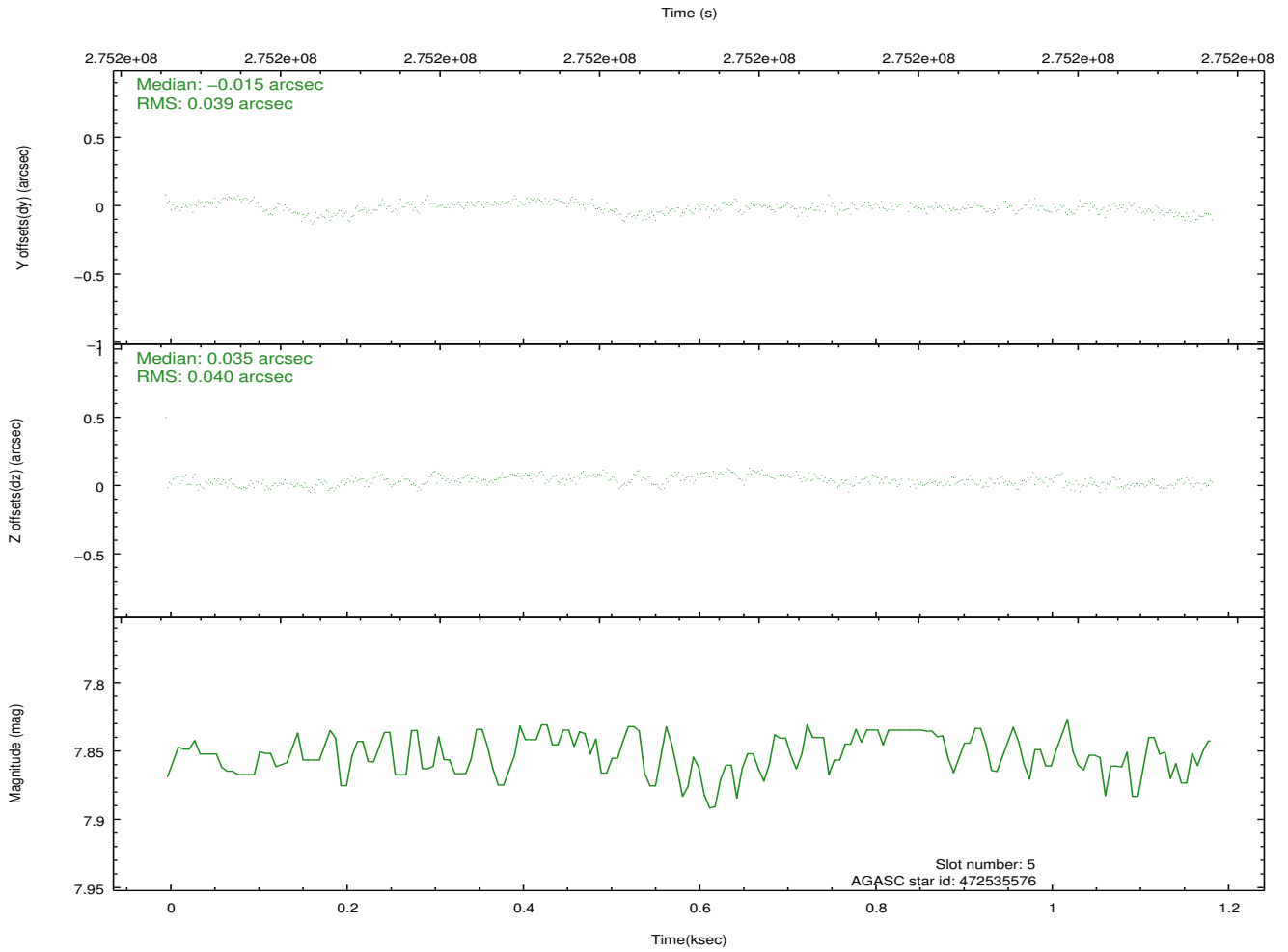
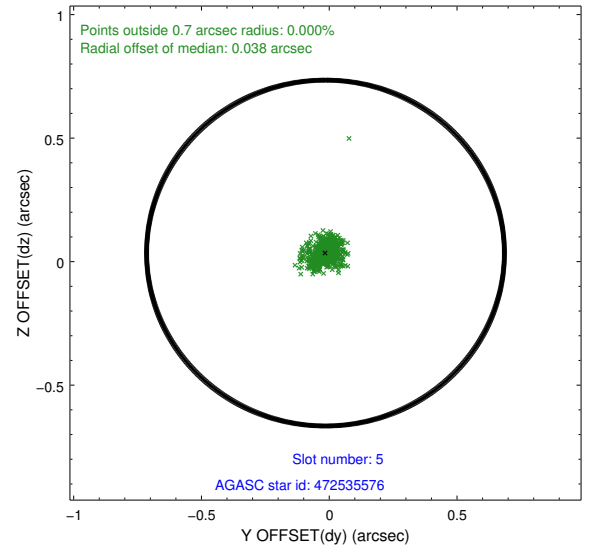
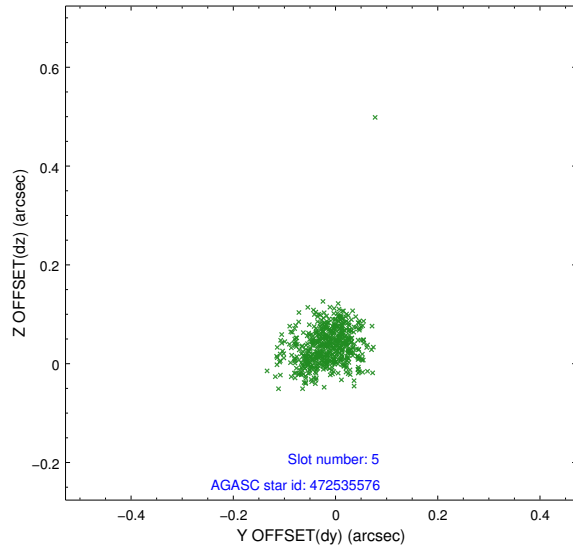
### 2.4.1 Slot 3



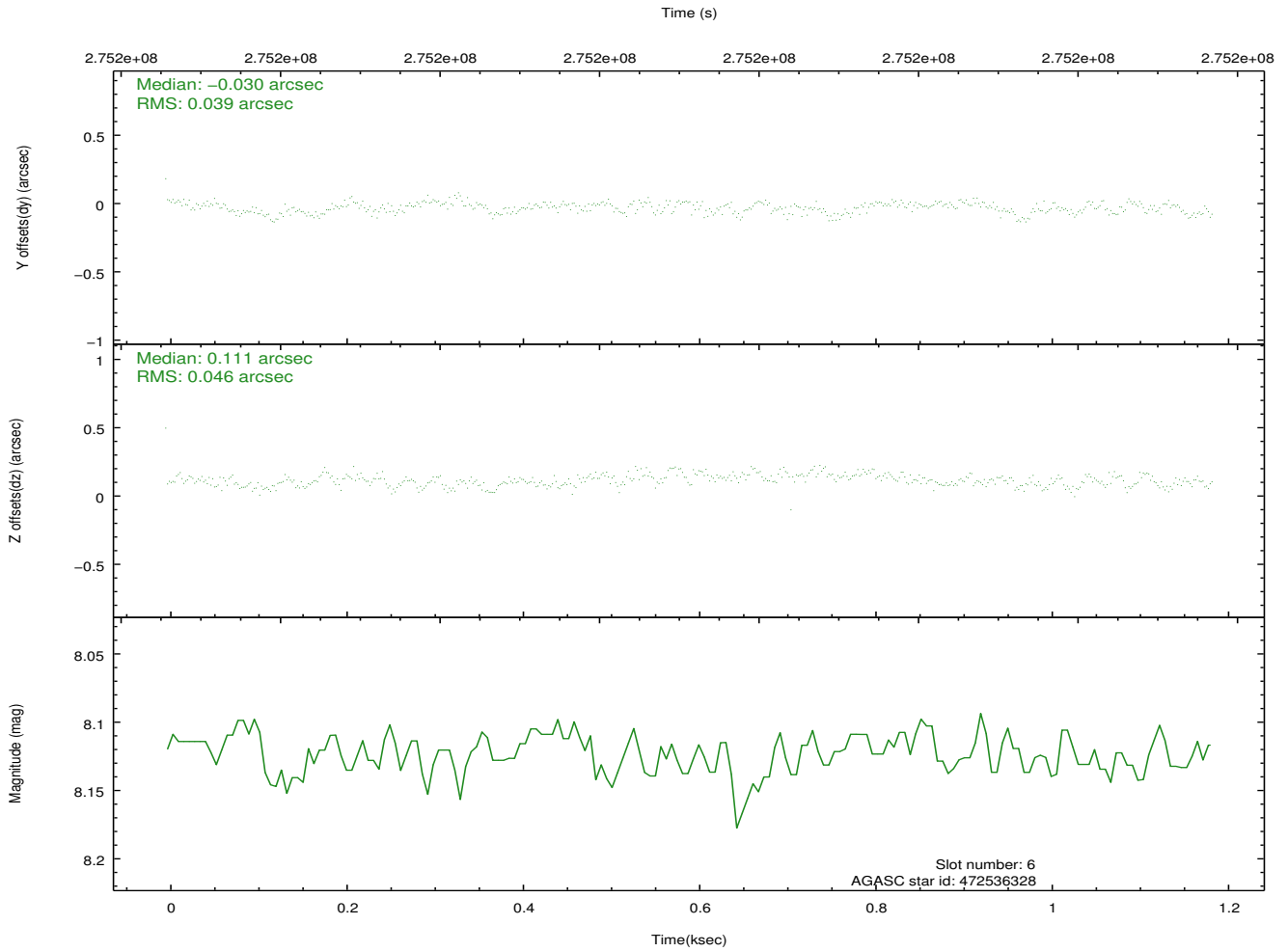
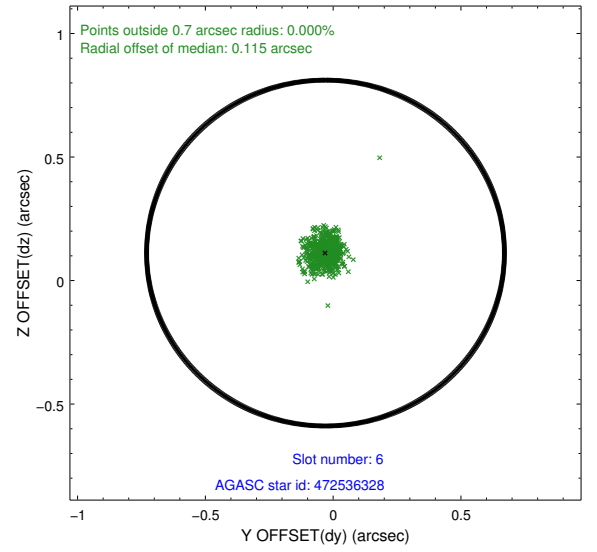
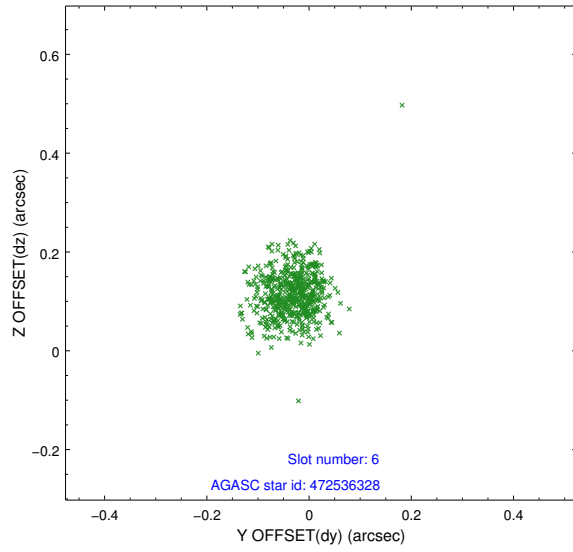
## 2.4.2 Slot 4



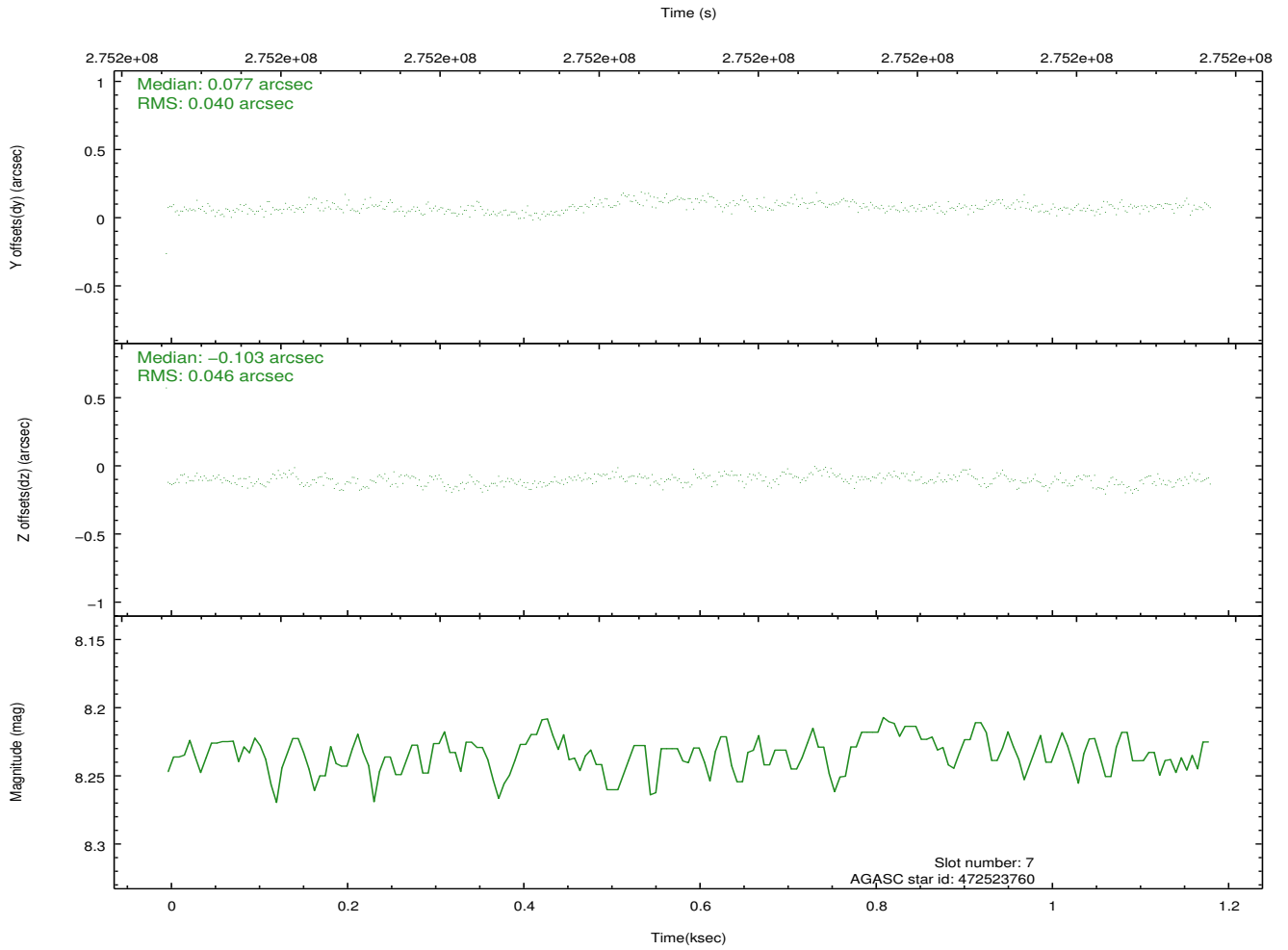
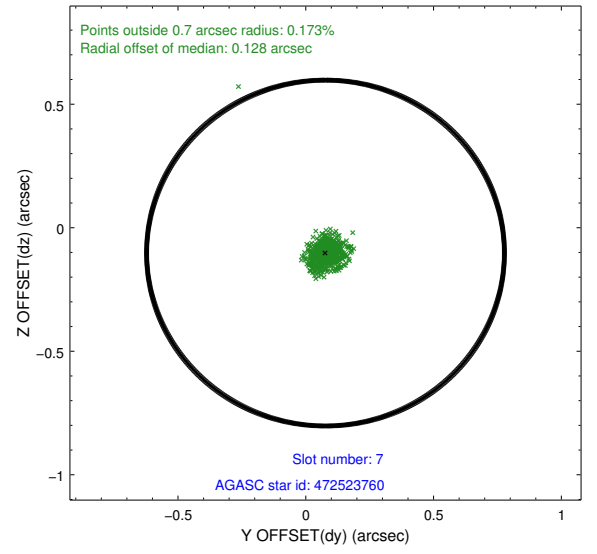
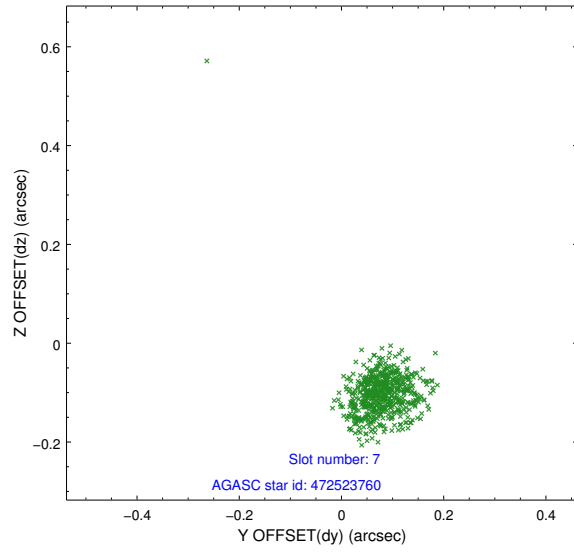
### 2.4.3 Slot 5



## 2.4.4 Slot 6

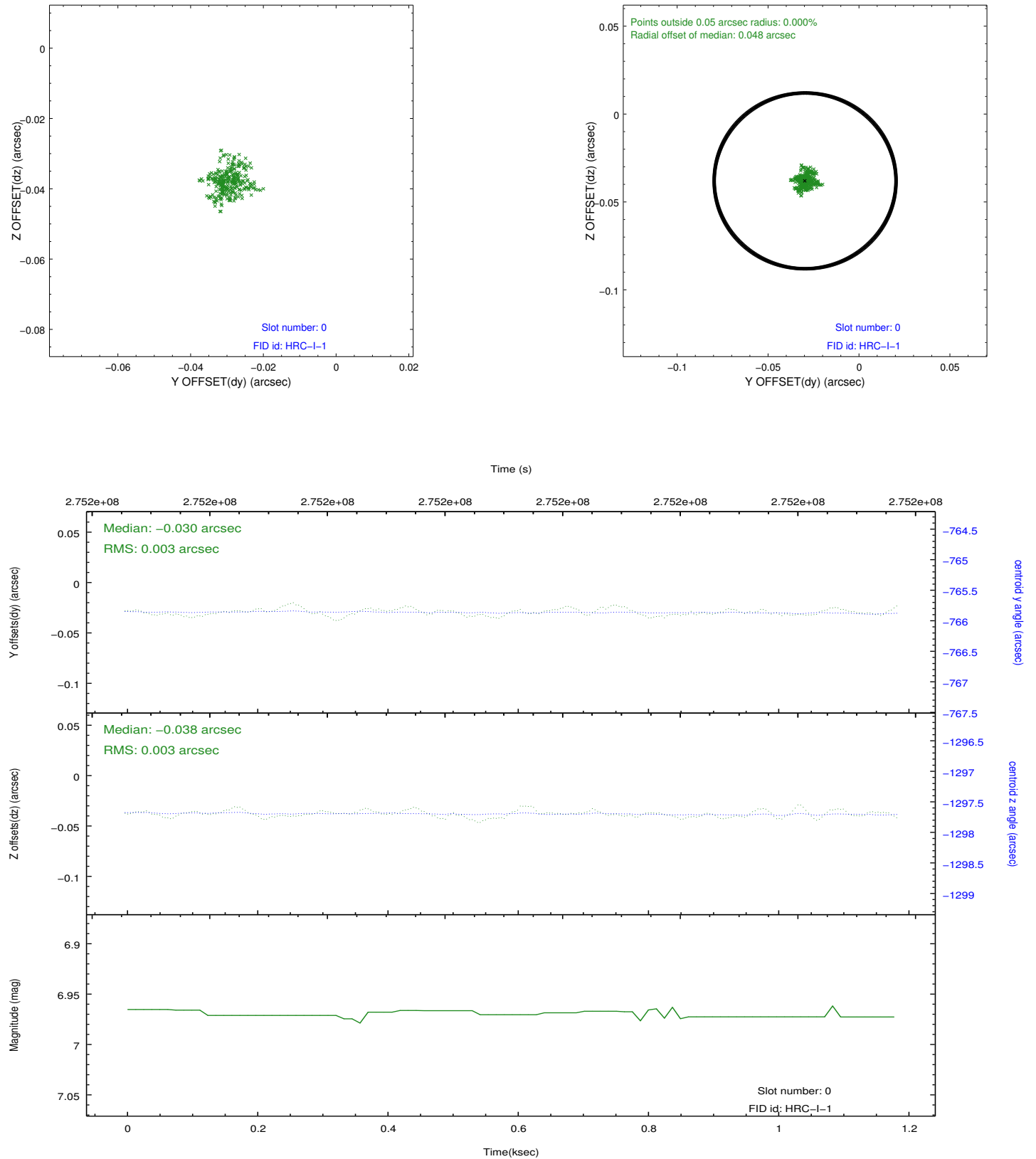


## 2.4.5 Slot 7

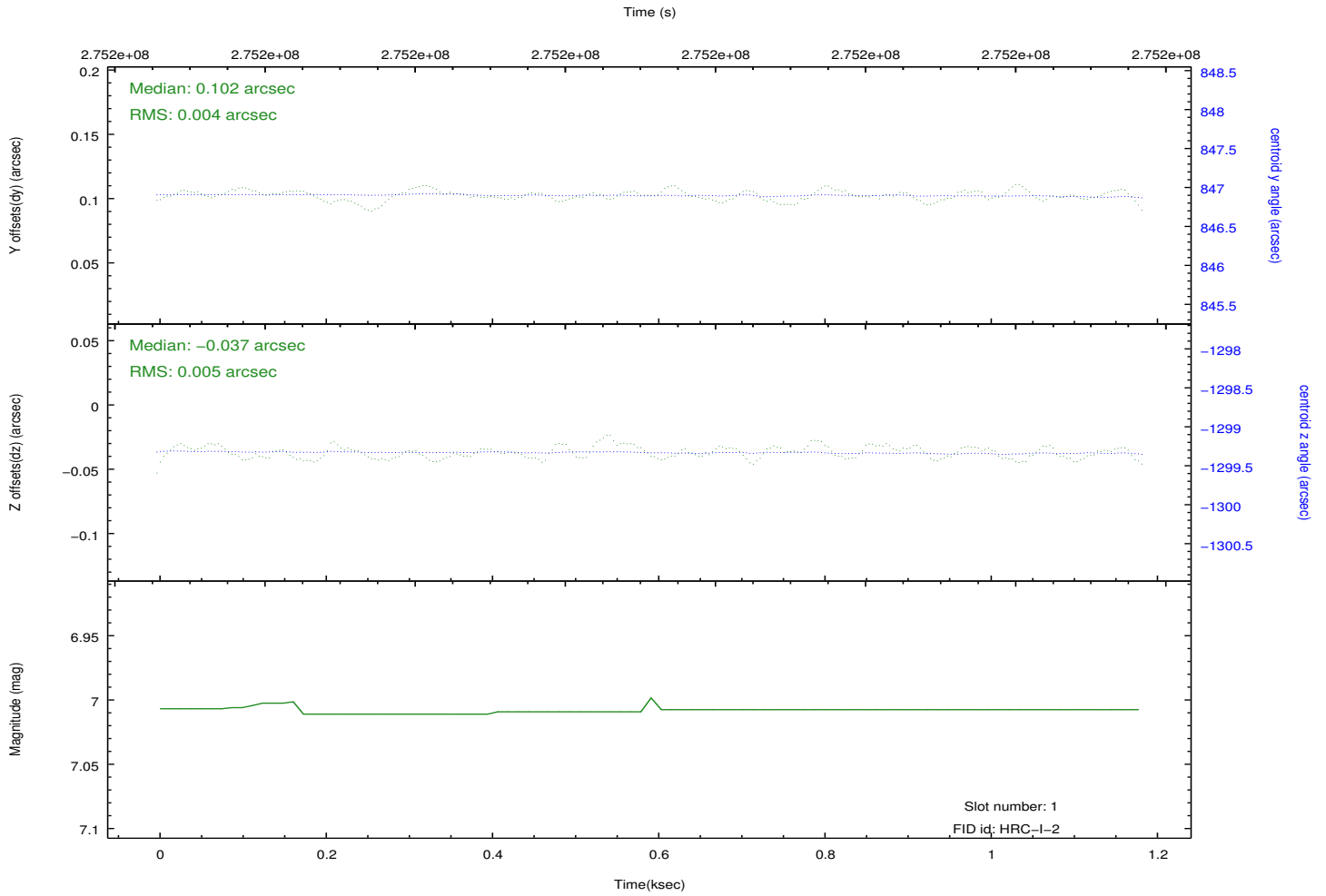
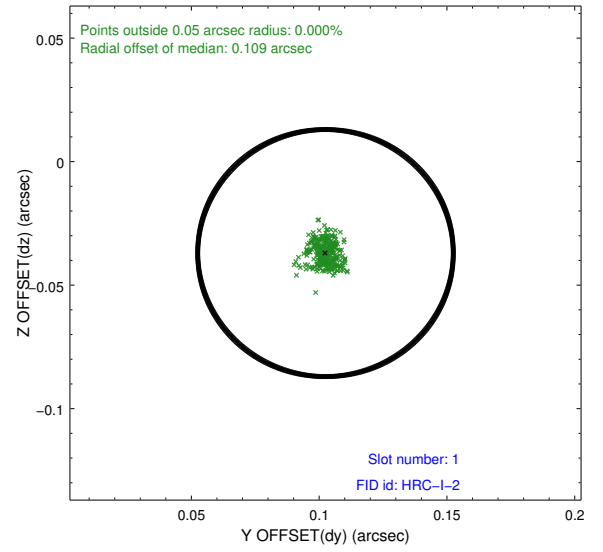
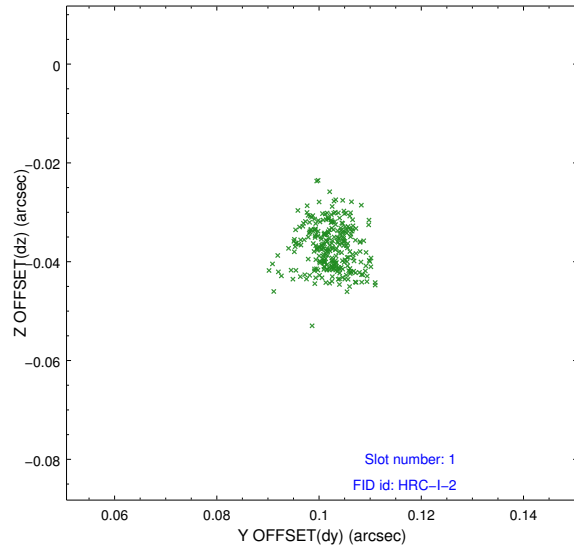


## 2.5 FID Slots

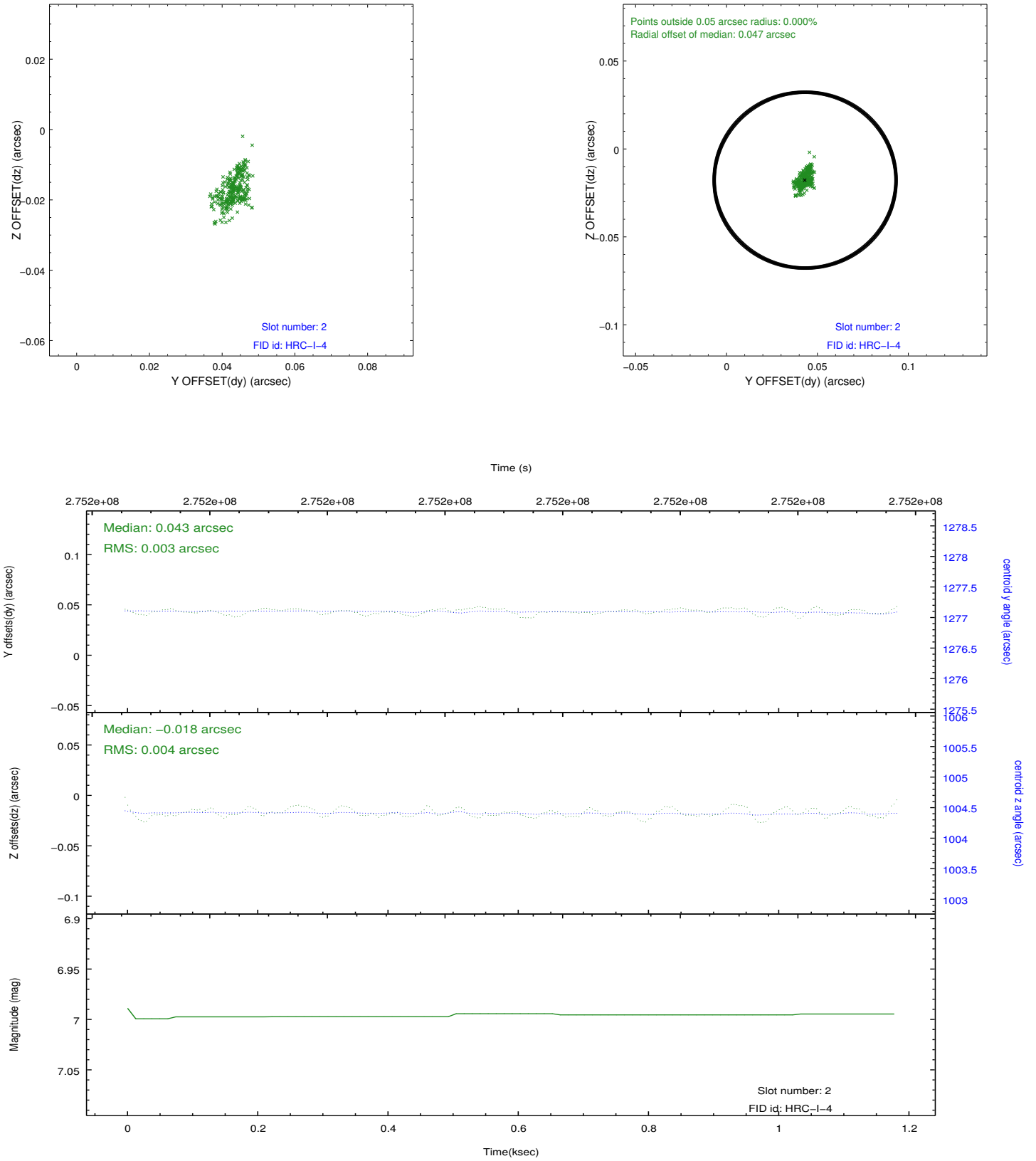
### 2.5.1 Slot 0



## 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)	2012.08.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1861813

### A.2 Comments

The target is away from the aimpoint, and is therefore extended and asymmetric.