

# V&V Reference Report

## L2 ASCDS Version : 10.4.2.1

Observation 17331 - L2 Version 1  
Chandra X-Ray Center

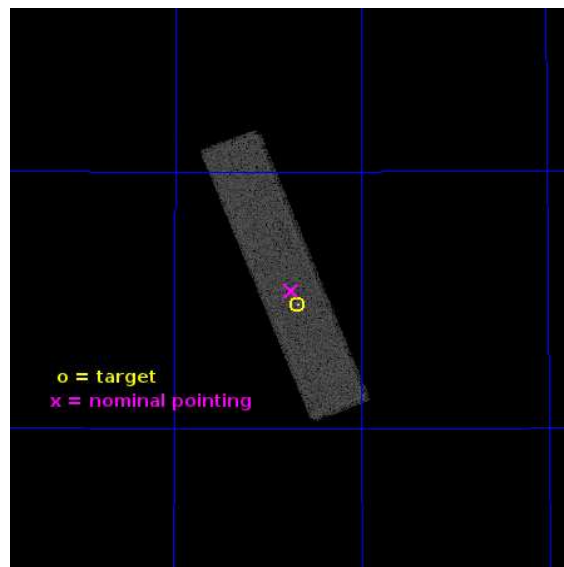
L2 Processing Date : Oct 20 2015

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# 1 Front

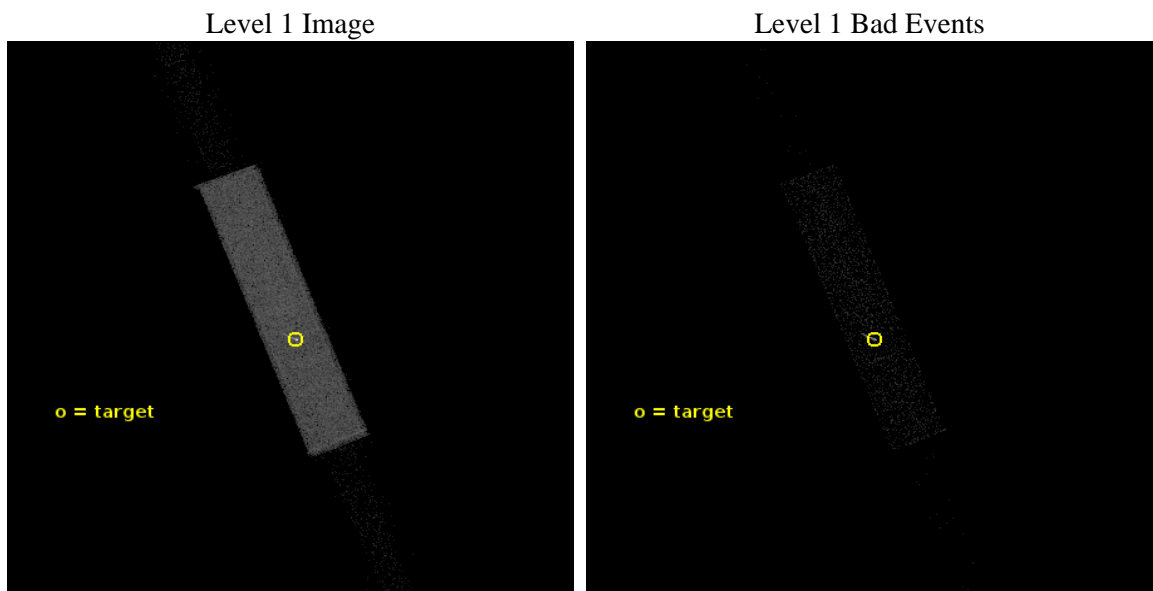
seq_num	291204	Sequence number
obs_id	17331	Observation id
title	AO-16 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.18673227953	Nominal RA [deg]
dec_nom	45.76869944205	Nominal Dec [deg]
roll_nom	248.27973889006	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1151.3313151598	[s]
livetime	1143.9636421146	Ontime multiplied by DTCOR
l2events	56223	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	1151.3313151598	[s]
caldsver	4.6.10a	&#160	l1events	87962	Number of level 1 events
date	2015-10-20T15:53:26	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

Level 1 Events

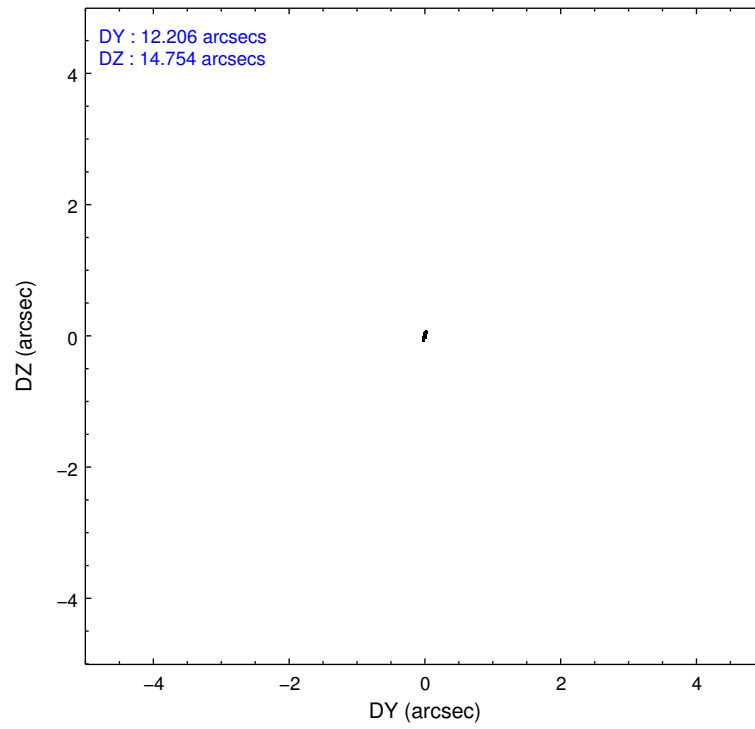
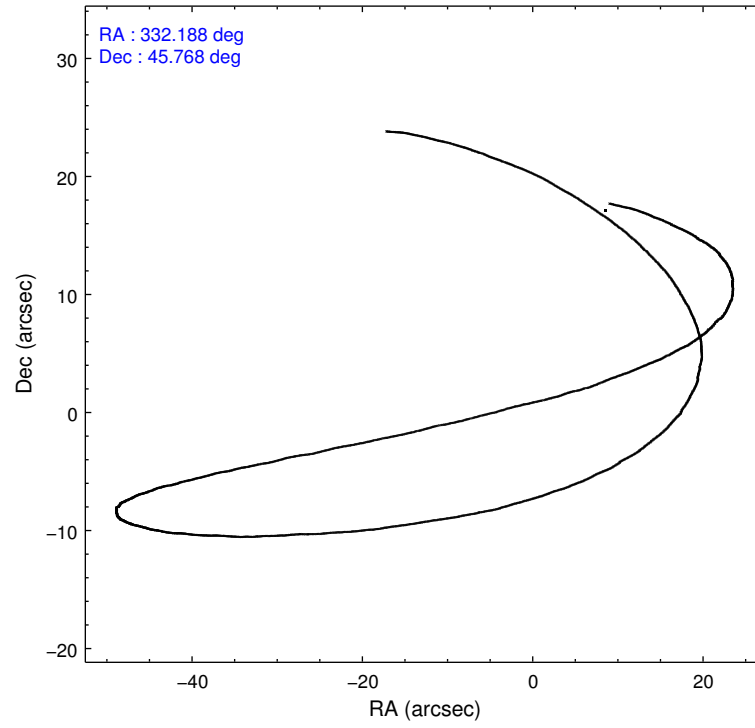
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	735	86520	707
rejected events	735	20827	703
rejected %	100%	24%	99%

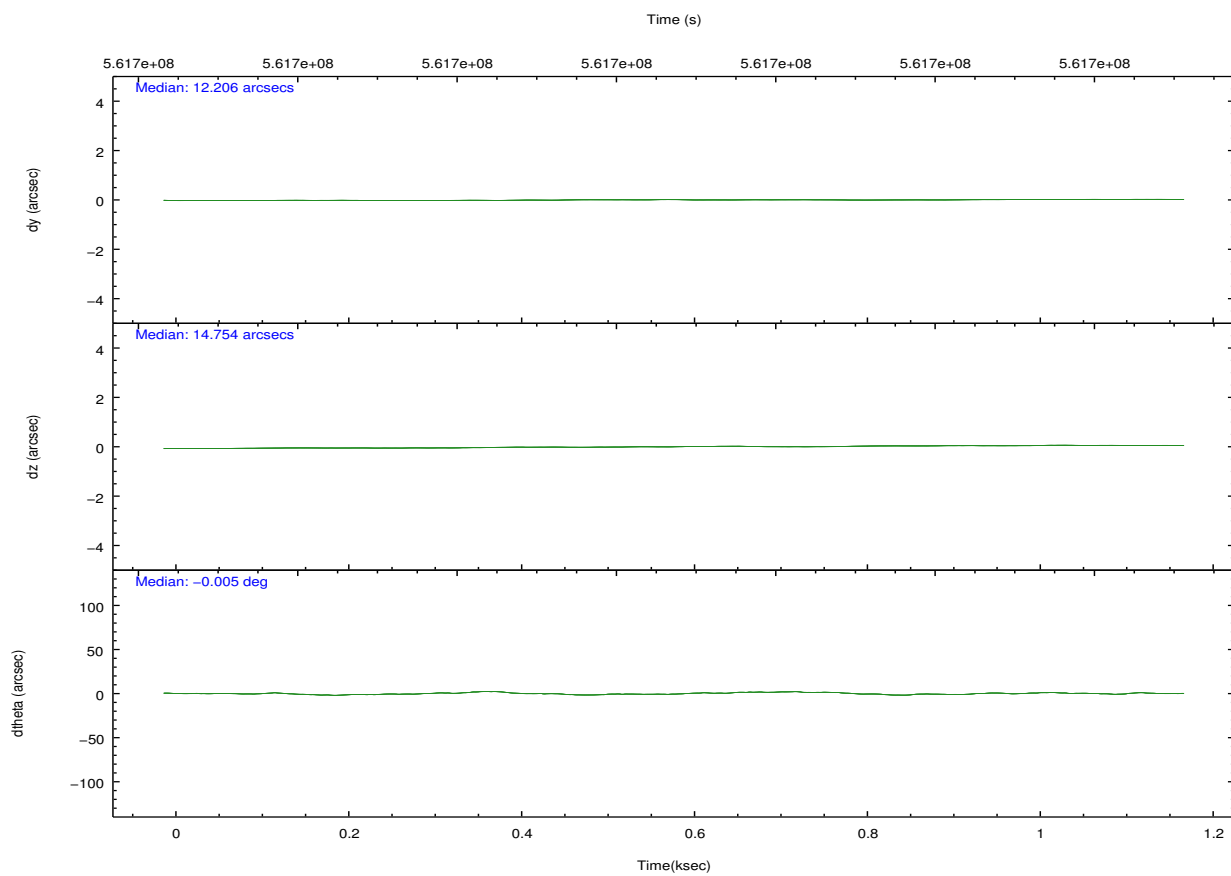
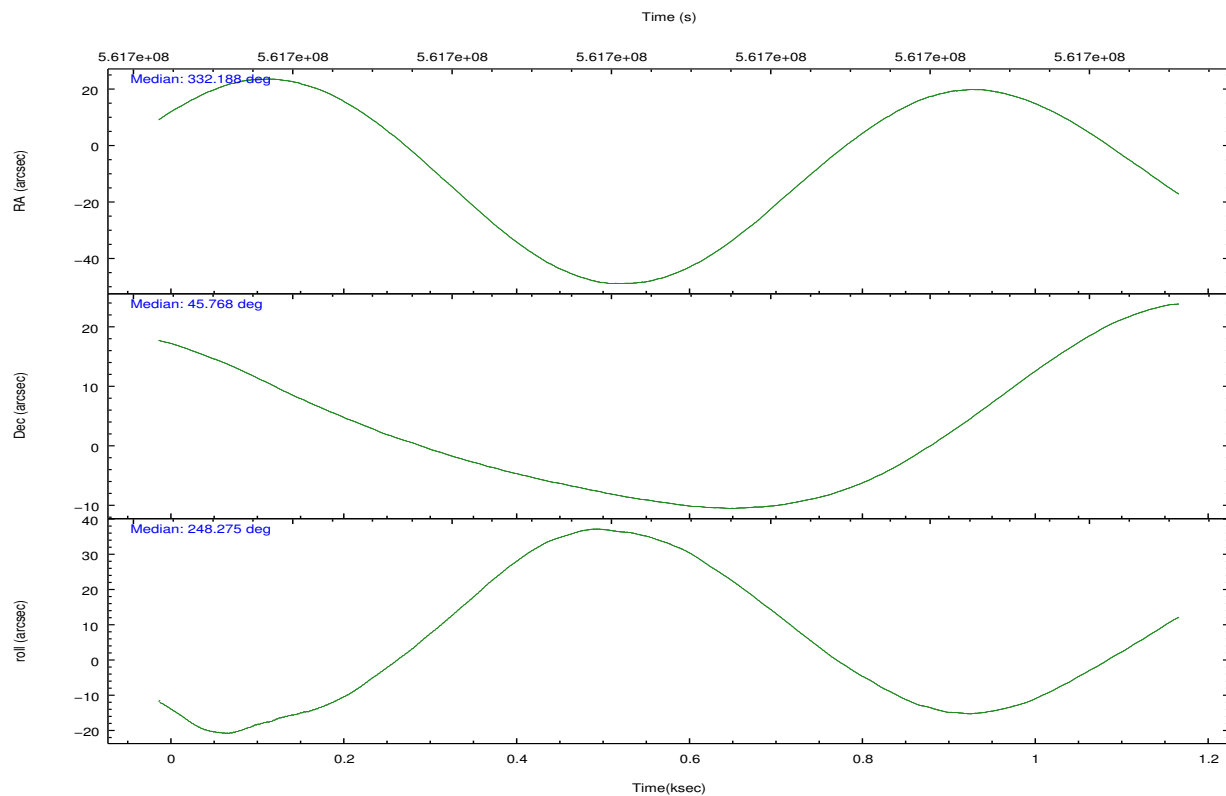
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-S	HRC-S
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.177149	332.1867322795254
[deg] Pointing Dec	45.797028	45.76869944204968
[deg] Pointing Roll	248.219263	248.2797388900604
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	561698663.184000	561698286.98323
Observation start date	2015-10-20T03:23:15	2015-10-20T03:18:06
[s] Observation end time (MET)	561699663.184000	561699796.80832
Observation end date	2015-10-20T03:39:55	2015-10-20T03:43:16

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

## 2.3 Aspect





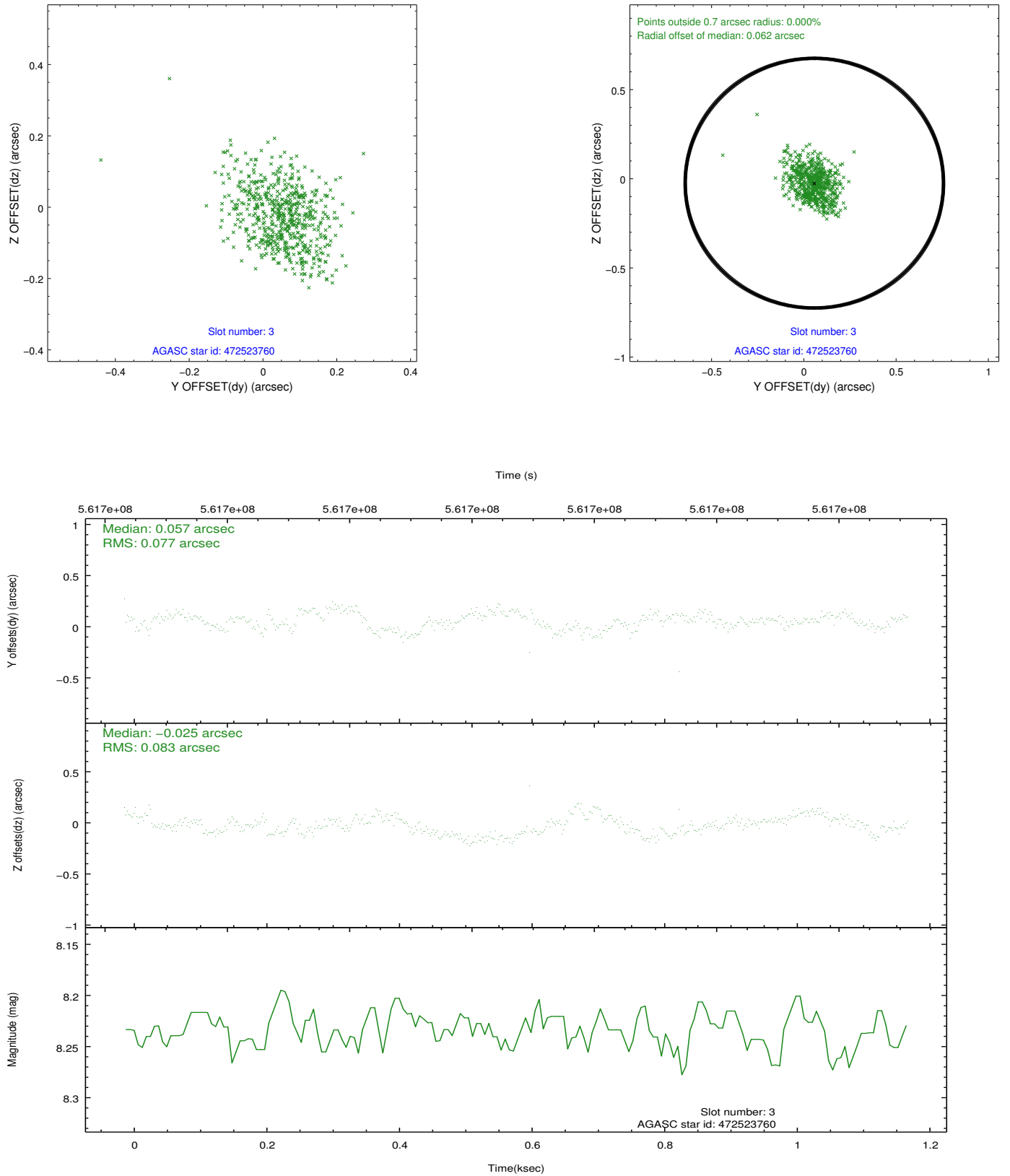
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.01	288	0.005	-0.210	0.011	0.026	0.000000	0.000000	-1166.58	-463.66
1	FID		HRC-S-2	6.99	288	0.368	-0.148	0.007	0.017	0.000000	0.000000	1229.39	-457.79
2	FID		HRC-S-3	7.01	288	0.017	0.053	0.012	0.023	0.000000	0.000000	-1165.04	564.53
3	GUIDE	used	472523760	8.23	576	0.057	-0.025	0.118	0.191	331.645363	45.403260	1813.23	-727.42
4	GUIDE	used	472535576	7.85	577	-0.035	0.190	0.097	0.151	331.438373	46.291802	-974.84	-2375.30
5	GUIDE	used	472655152	9.40	577	-0.044	-0.138	0.154	0.246	332.504239	45.862991	-526.05	665.10
6	GUIDE	used	472665256	8.99	577	-0.003	-0.230	0.103	0.177	332.808125	46.195041	-1918.79	923.43
7	GUIDE	used	472536328	8.11	576	0.026	0.203	0.076	0.133	331.496671	46.454831	-1580.78	-2450.47

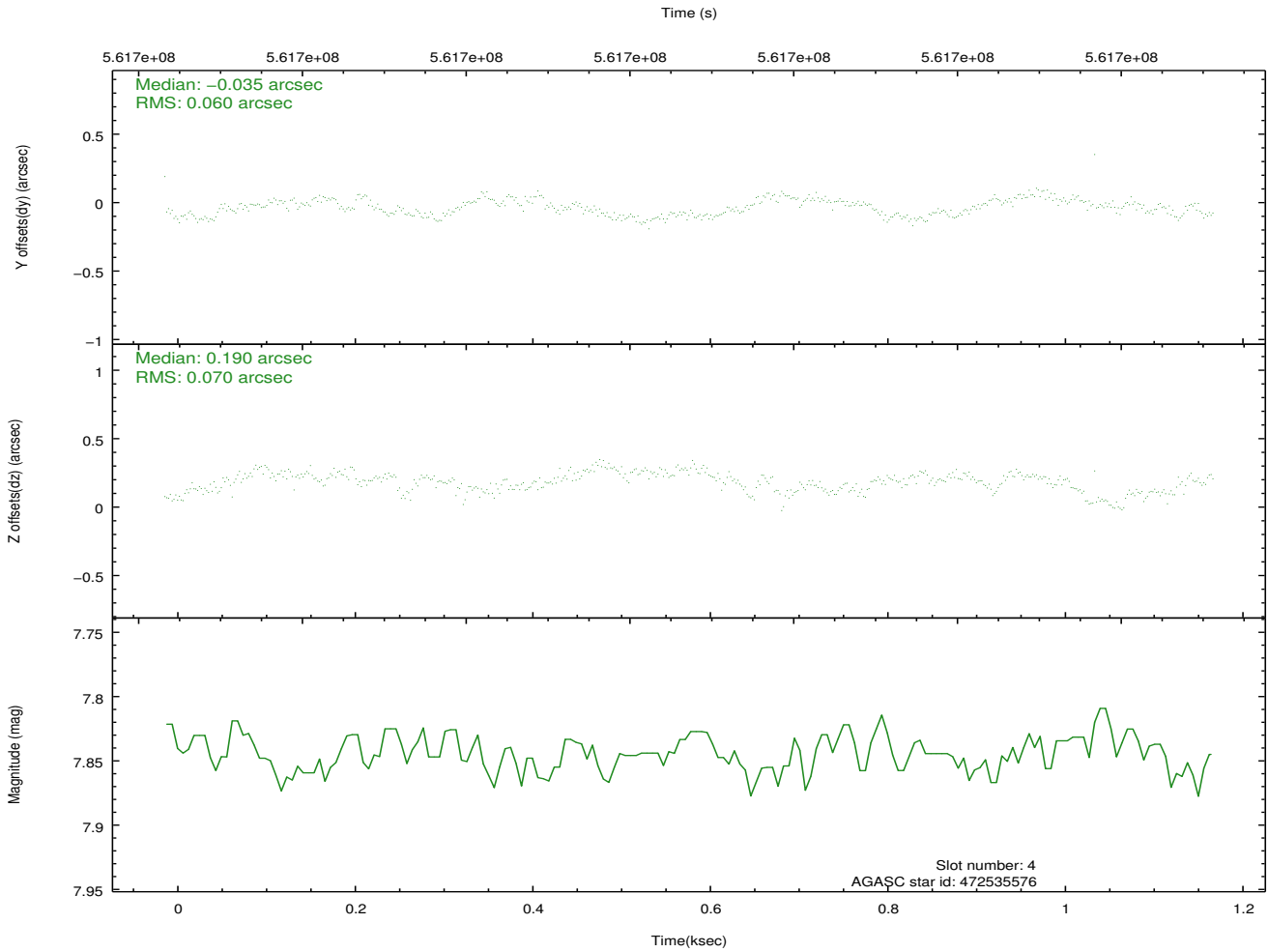
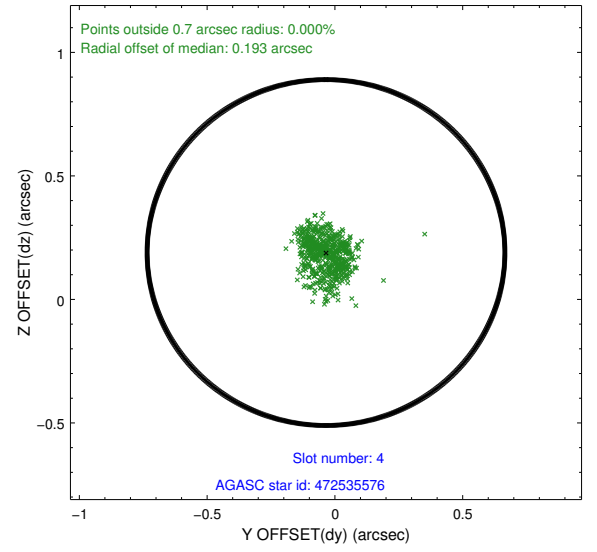
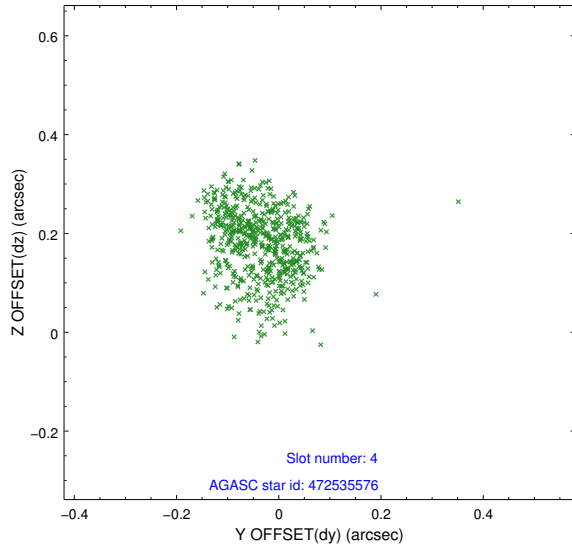


## 2.4 Star Slots

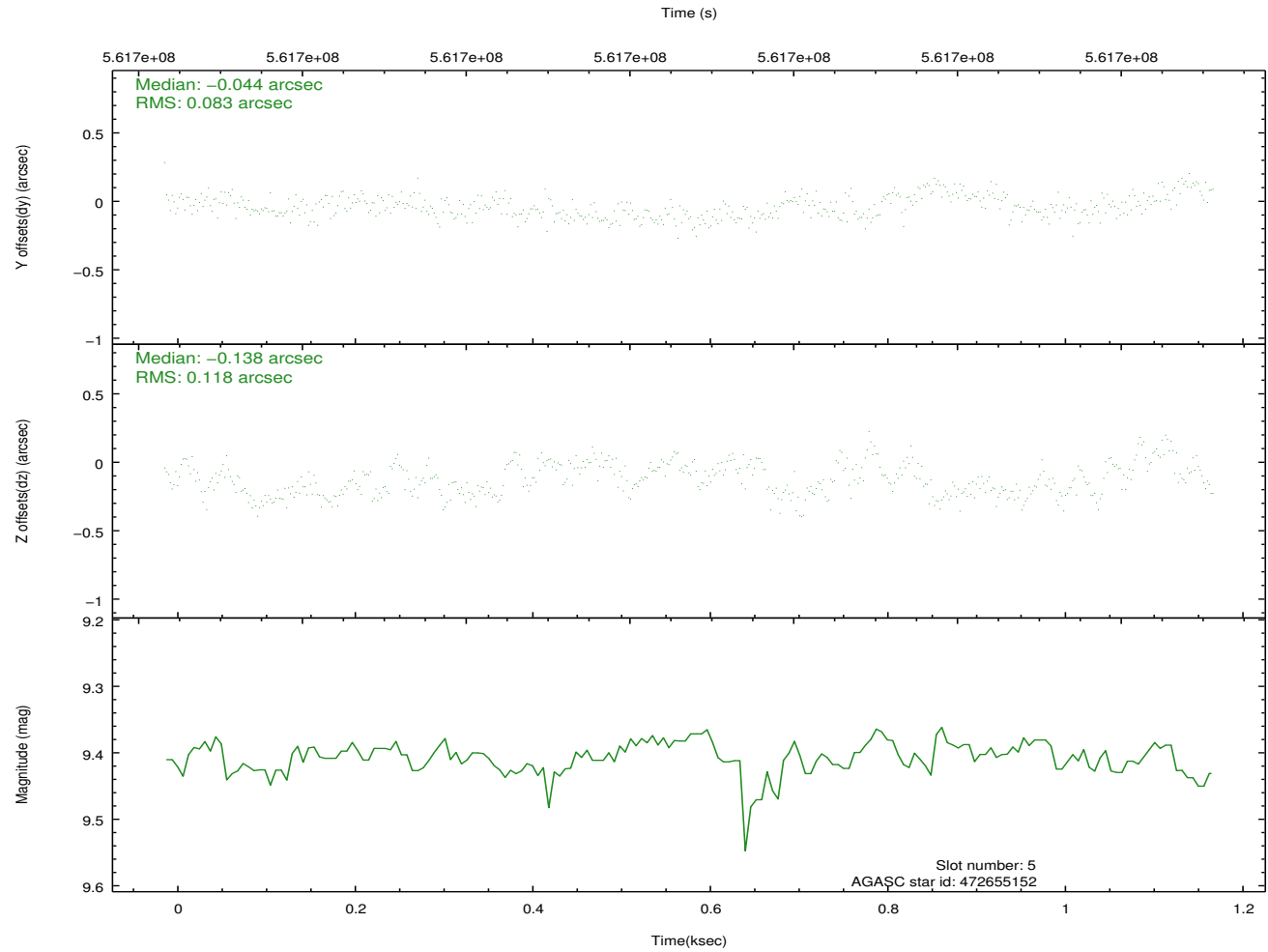
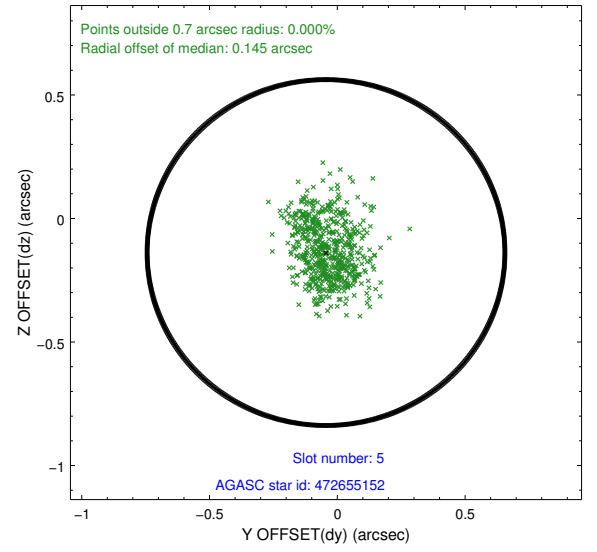
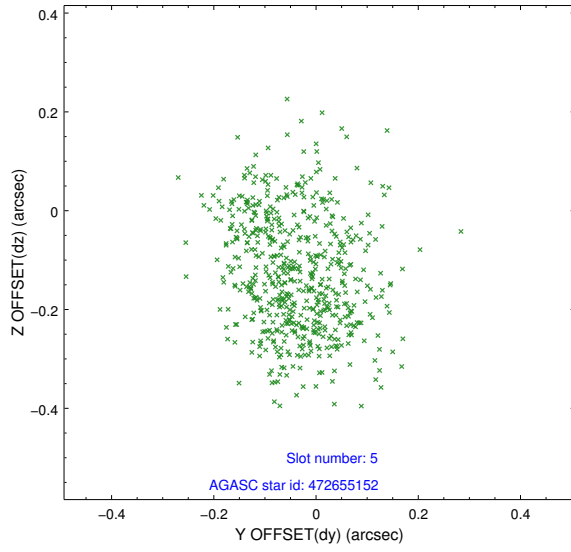
### 2.4.1 Slot 3



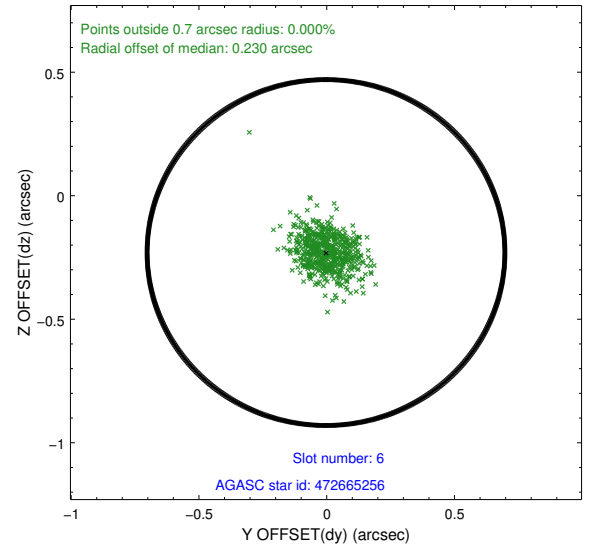
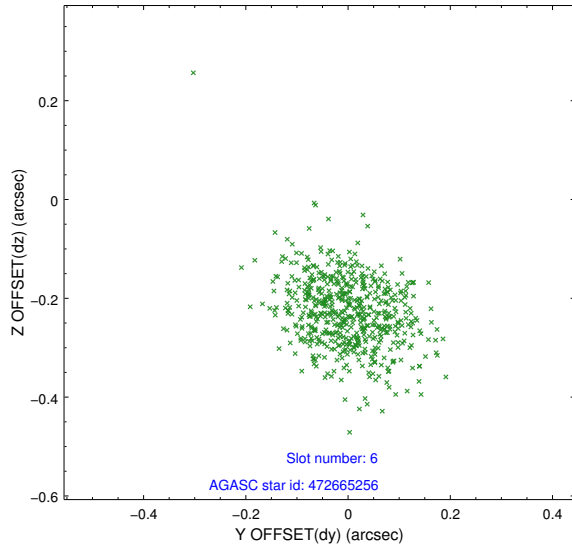
## 2.4.2 Slot 4



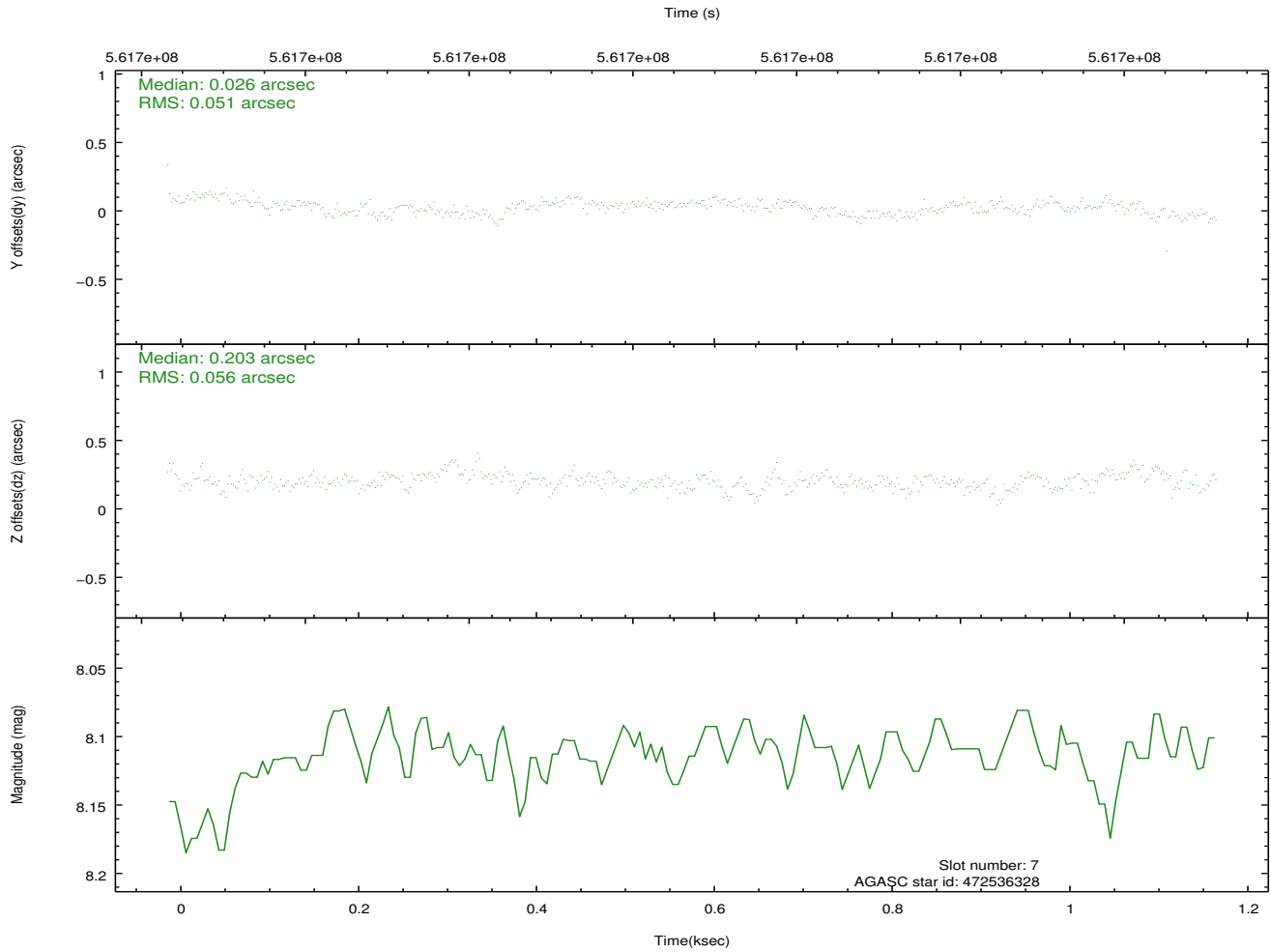
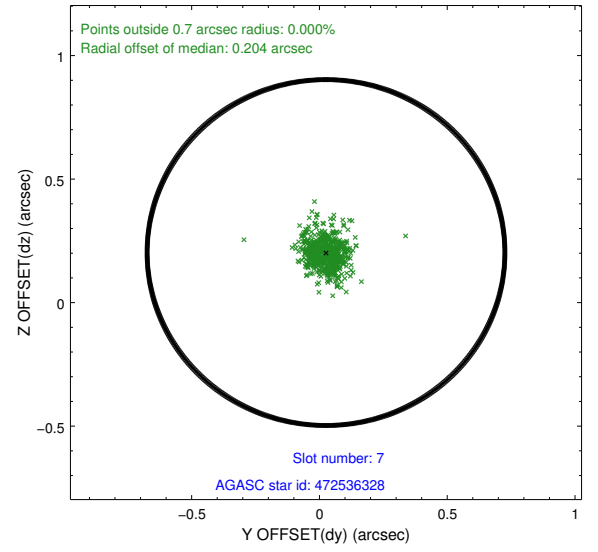
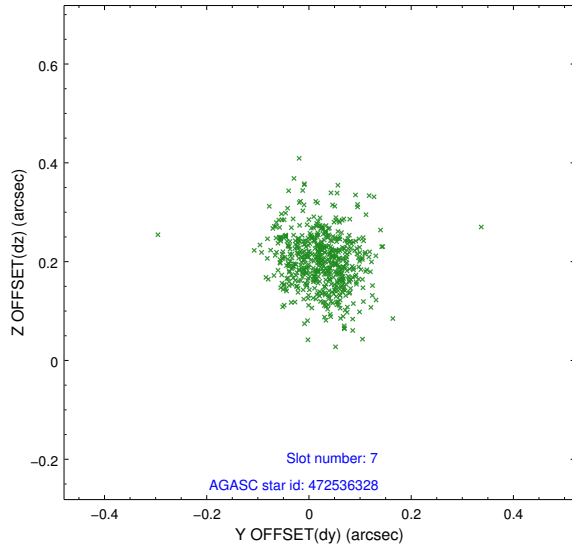
### 2.4.3 Slot 5



## 2.4.4 Slot 6

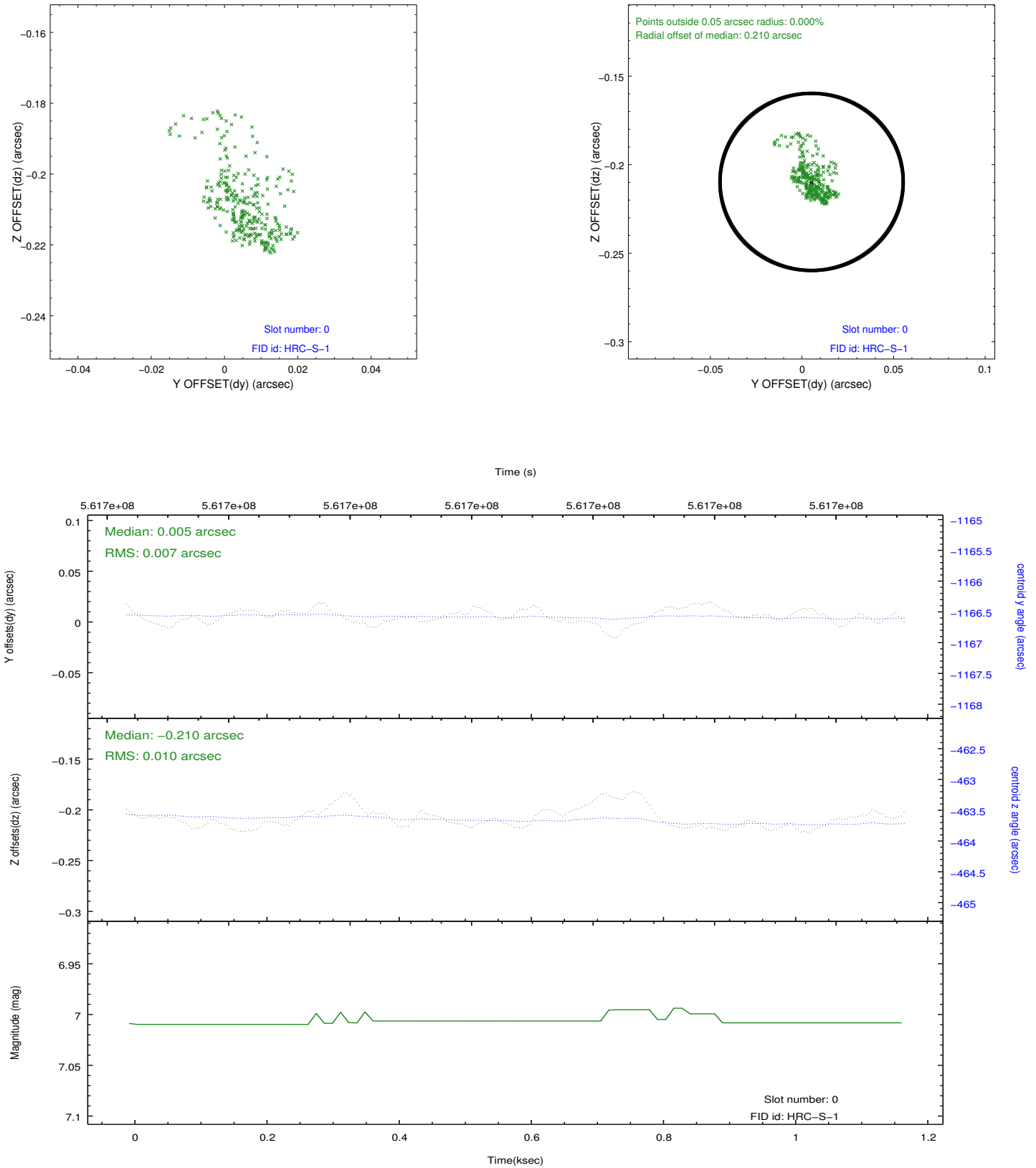


## 2.4.5 Slot 7

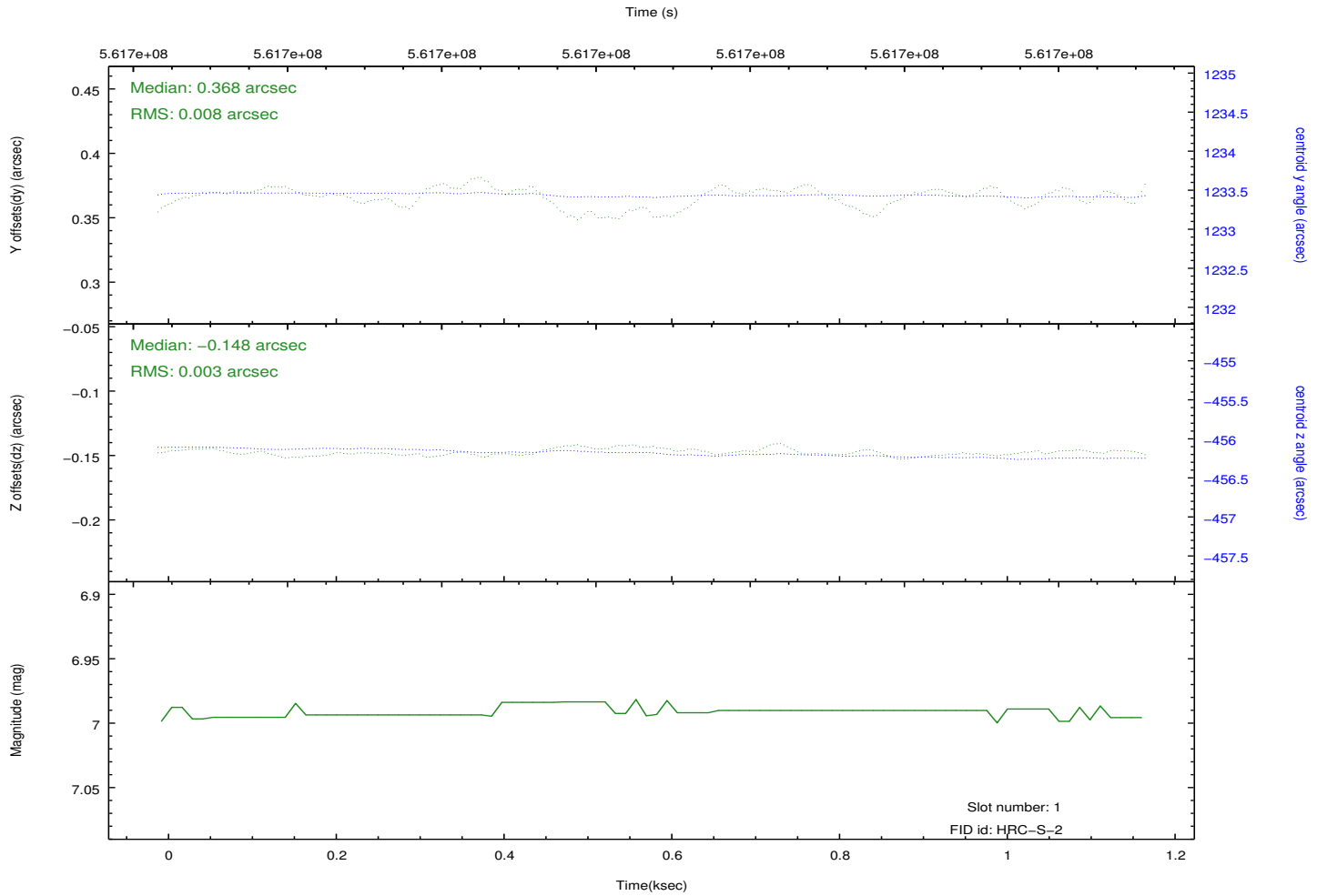
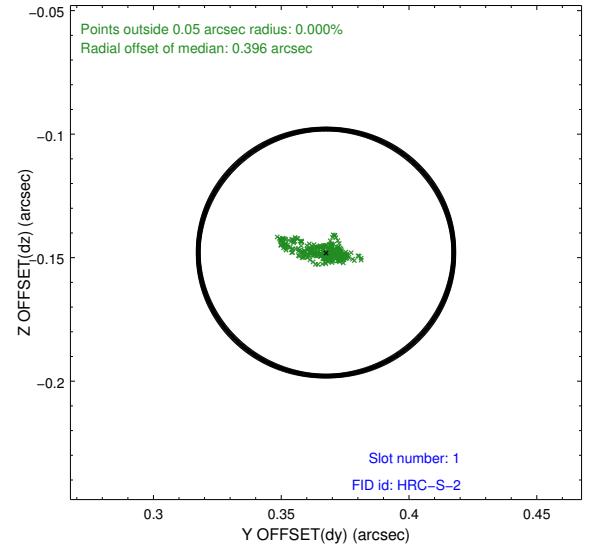
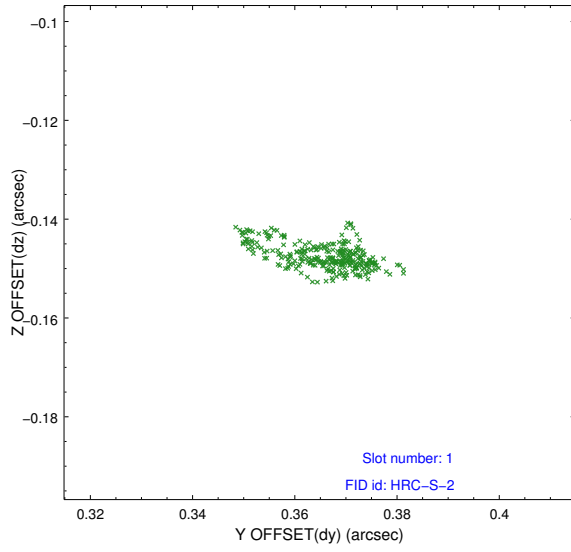


## 2.5 FID Slots

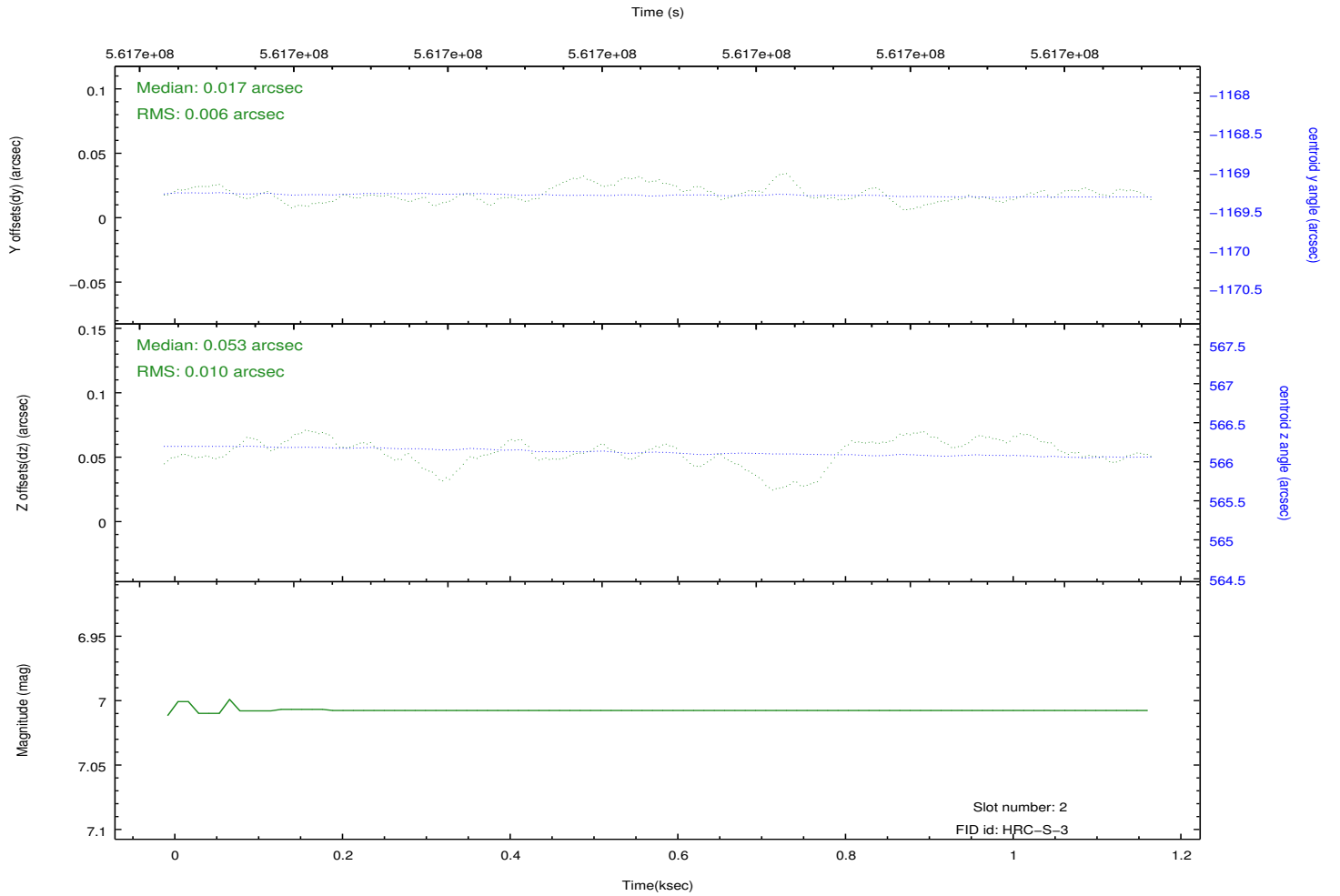
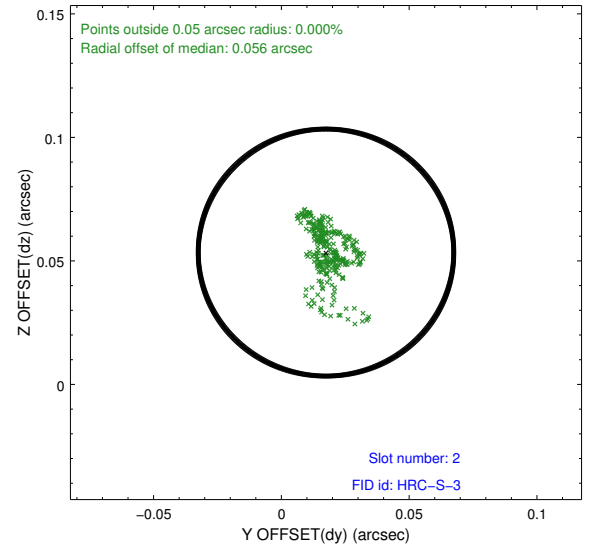
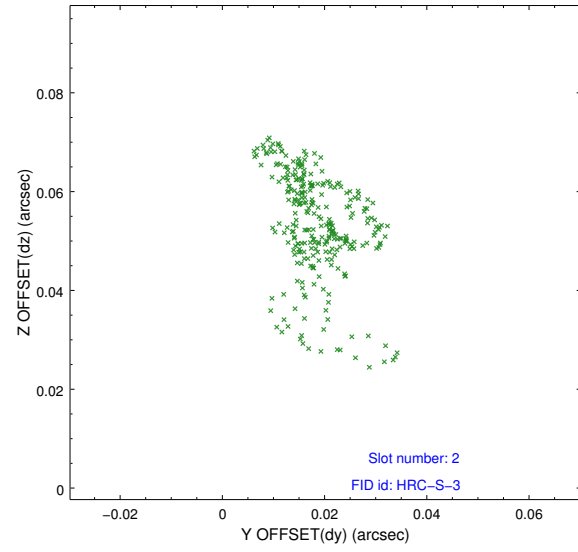
### 2.5.1 Slot 0



## 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)	2015.10.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1513313151598

### A.2 Comments