

# V&V Reference Report

## L2 ASCDS Version : 10.4.2.1

Observation 17347 - L2 Version 1  
Chandra X-Ray Center

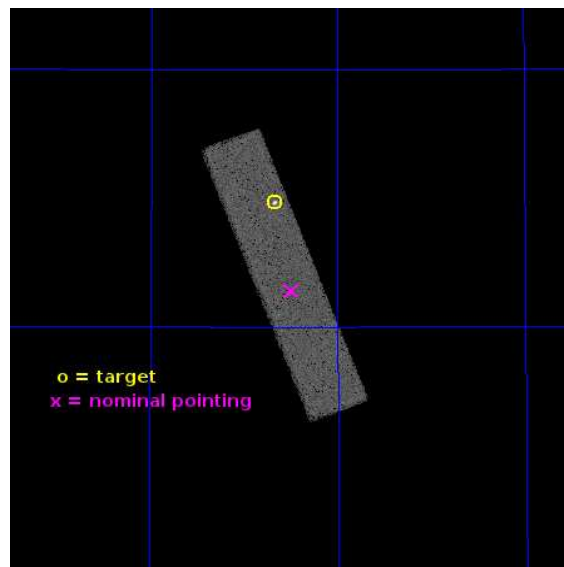
L2 Processing Date : Oct 20 2015

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# 1 Front

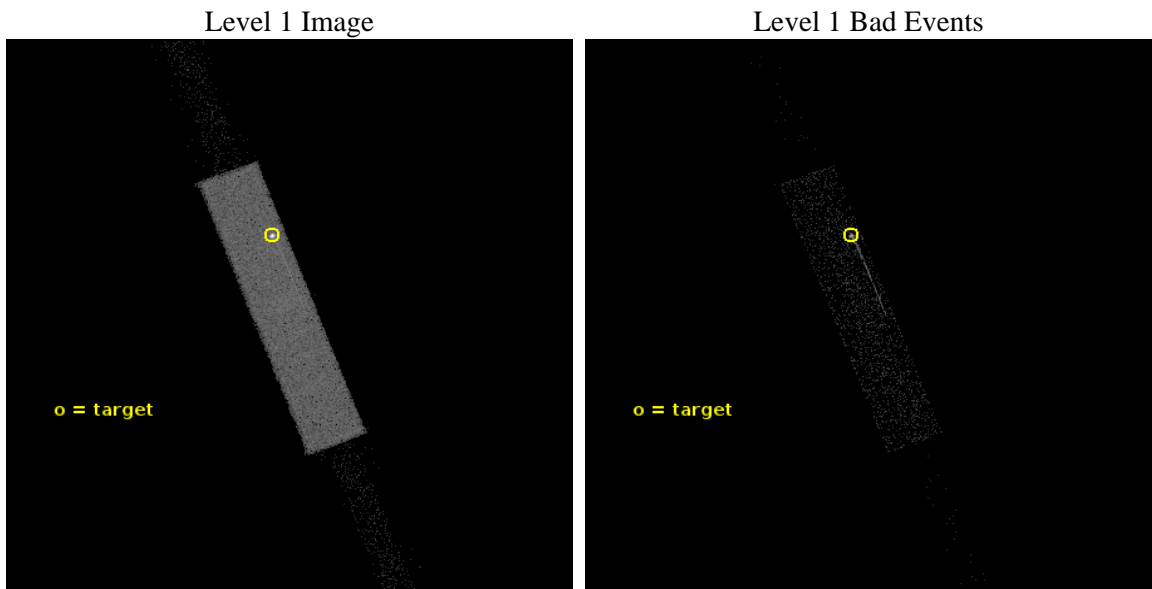
seq_num	291220	Sequence number
obs_id	17347	Observation id
title	AO-16 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.12379061833	Nominal RA [deg]
dec_nom	45.570784954099	Nominal Dec [deg]
roll_nom	248.77708796885	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1155.4313151836	[s]
livetime	1148.0688937349	Ontime multiplied by DTCOR
l2events	55673	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	1155.4313151836	[s]
caldbver	4.6.10a	&#160	l1events	85722	Number of level 1 events
date	2015-10-20T22:46:29	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

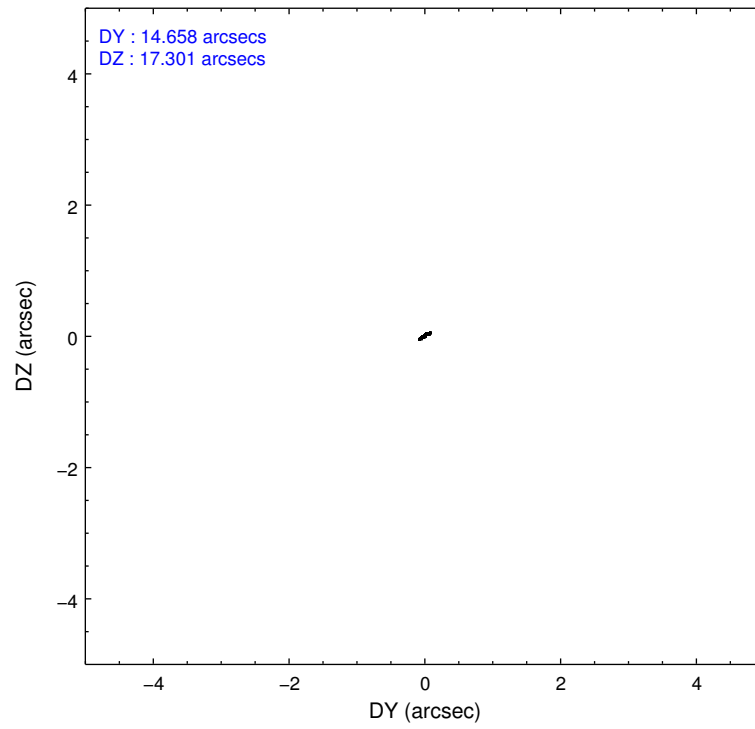
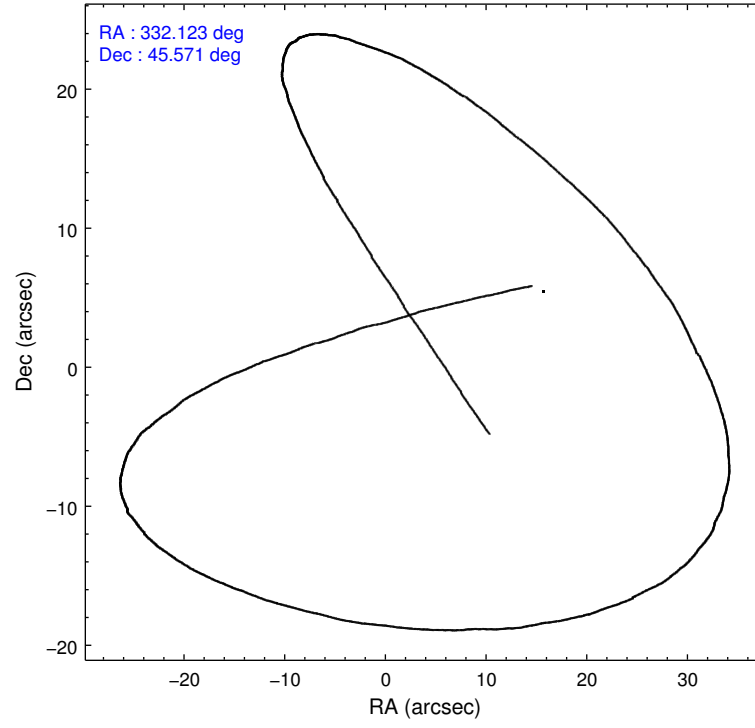
Level 1 Events

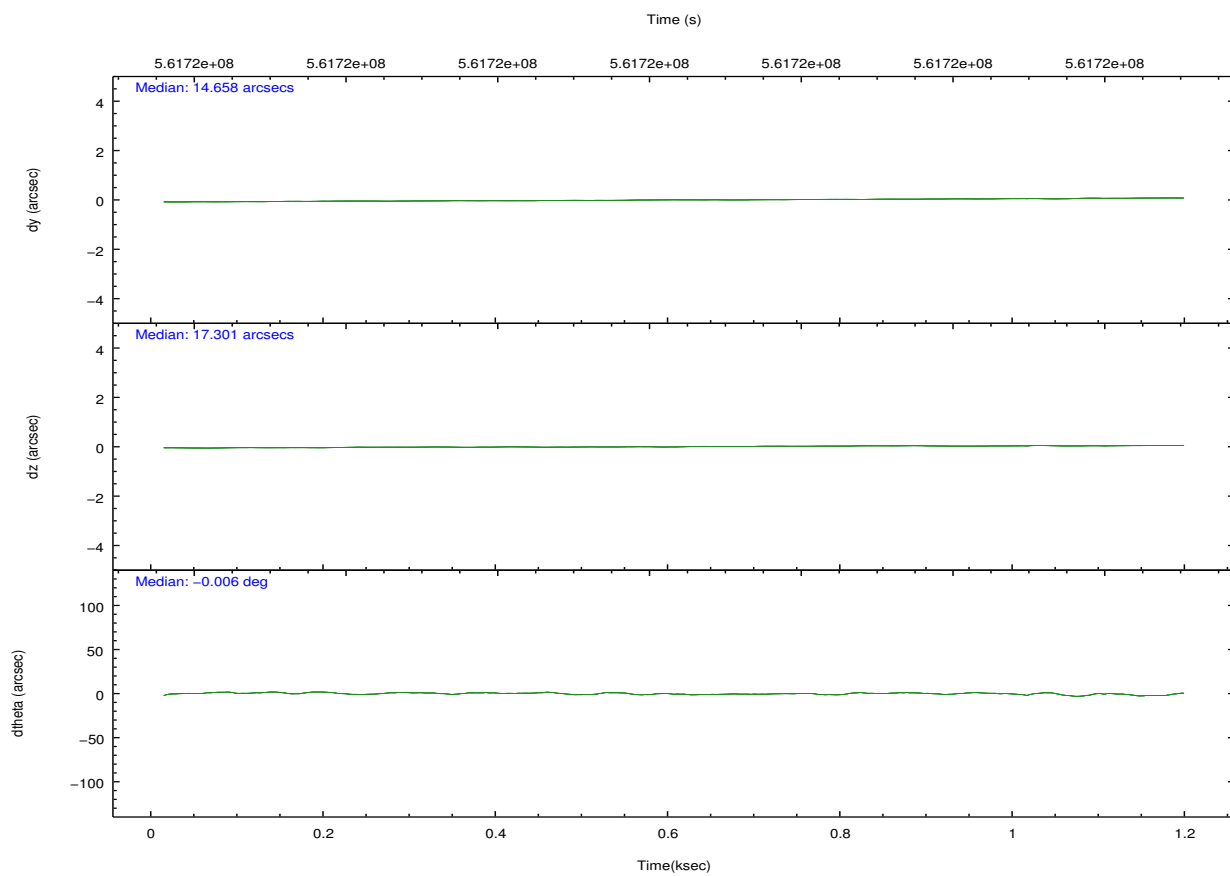
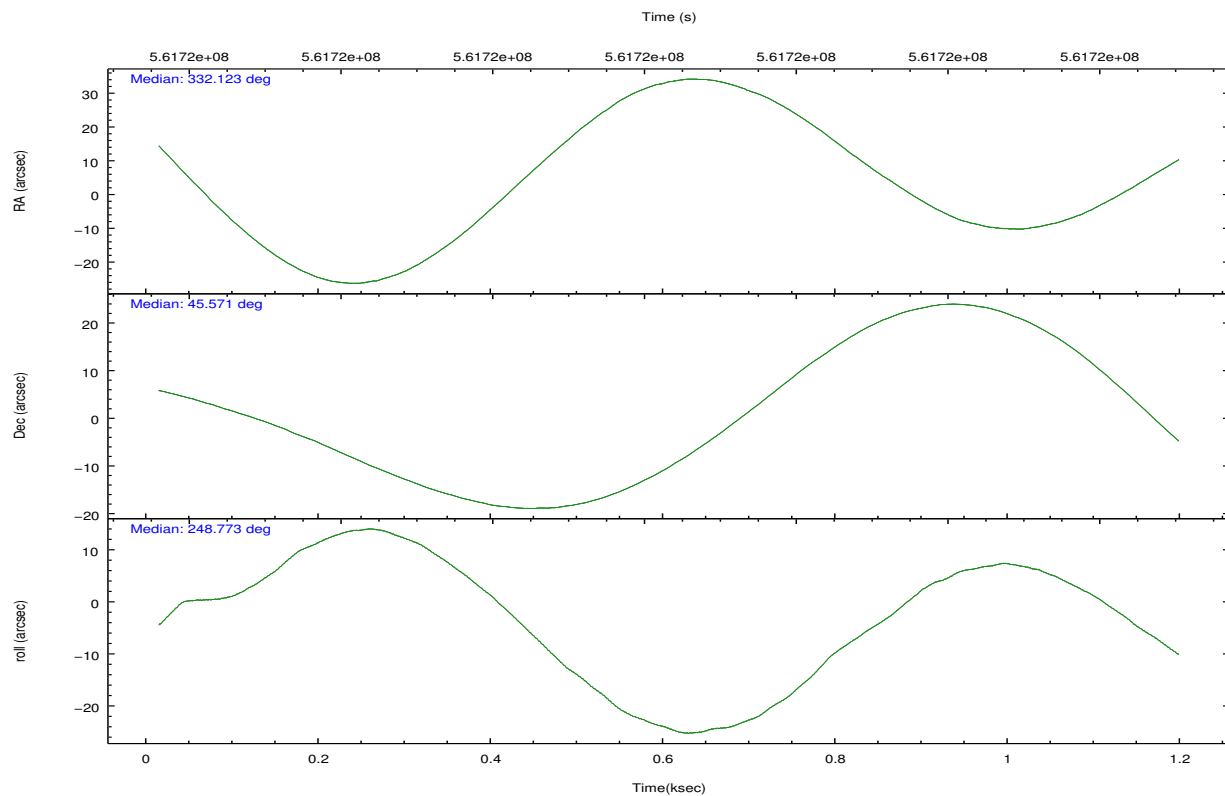
	segment 1	segment 2	segment 3
level 1 events	715	84252	755
rejected events	715	19186	755
rejected %	100%	22%	100%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.116948	332.1237906183317			
[deg] Pointing Dec	45.598629	45.5707849540992			
[deg] Pointing Roll	248.714585	248.777087968846			
[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)	561722823.184000	561722447.2596			
Observation start date	2015-10-20T10:05:55	2015-10-20T10:00:47			
[s] Observation end time (MET)	561723823.184000	561723957.08469			
Observation end date	2015-10-20T10:22:35	2015-10-20T10:25:57			

## 2.3 Aspect





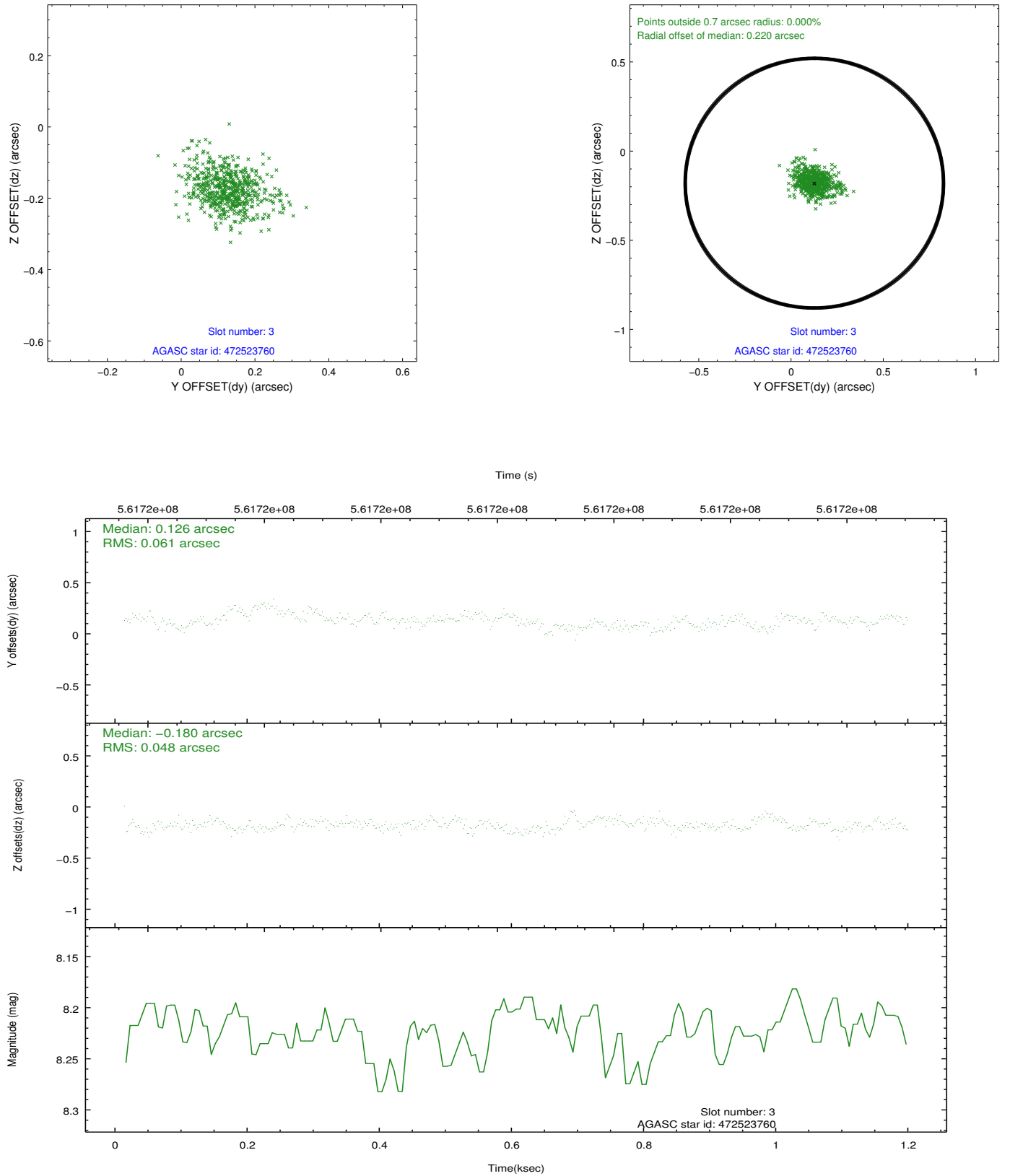
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.03	289	-0.118	-0.172	0.004	0.011	0.000000	0.000000	-1169.20	-466.29
1	FID		HRC-S-2	7.01	289	0.226	-0.138	0.009	0.017	0.000000	0.000000	1226.75	-460.39
2	FID		HRC-S-4	6.97	289	0.296	0.006	0.007	0.017	0.000000	0.000000	1233.64	564.49
3	GUIDE	used	472523760	8.22	579	0.126	-0.180	0.078	0.144	331.645363	45.403260	1085.66	-852.54
4	GUIDE	used	472527720	7.01	579	0.015	0.108	0.084	0.132	331.460205	45.112509	2232.50	-918.81
5	GUIDE	used	472533912	9.12	579	0.017	0.162	0.138	0.222	331.791136	46.368695	-2286.36	-1758.53
6	GUIDE	used	472655152	9.41	579	-0.031	-0.191	0.124	0.210	332.504239	45.862991	-1244.83	559.47
7	GUIDE	used	472659832	9.41	577	-0.134	0.091	0.138	0.257	332.780399	46.098139	-2285.04	893.11

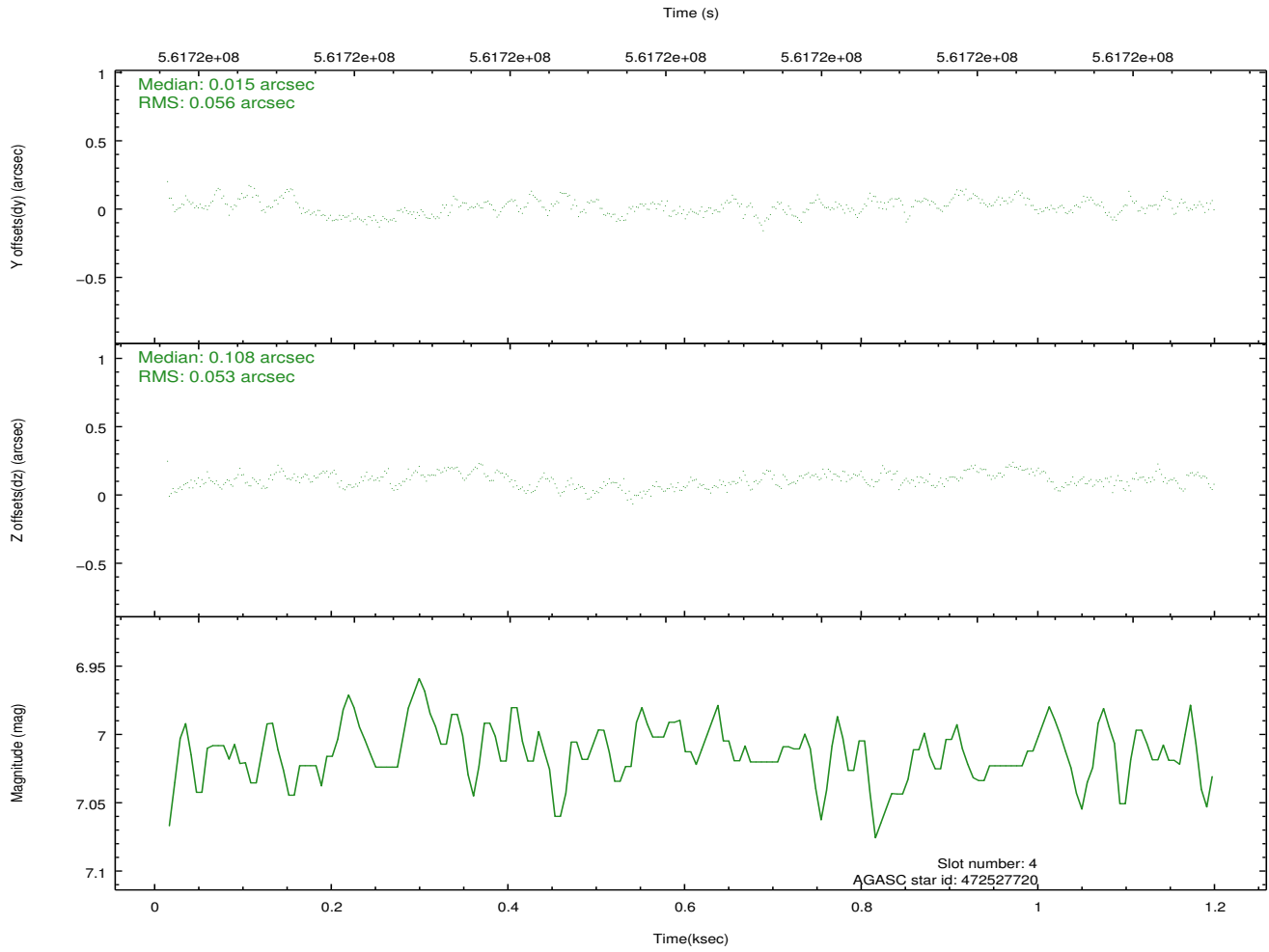
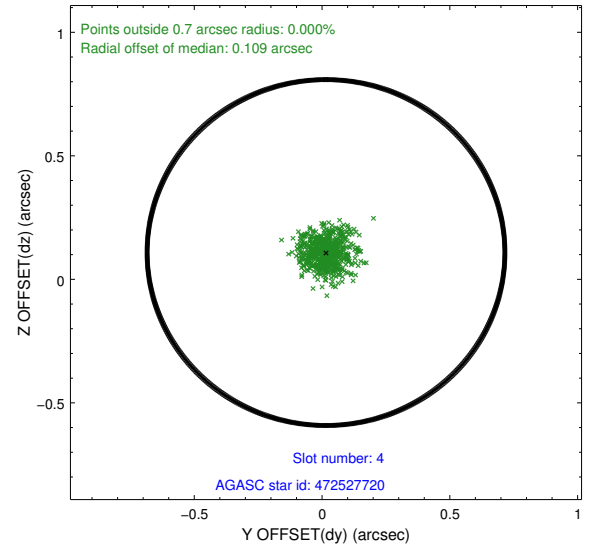
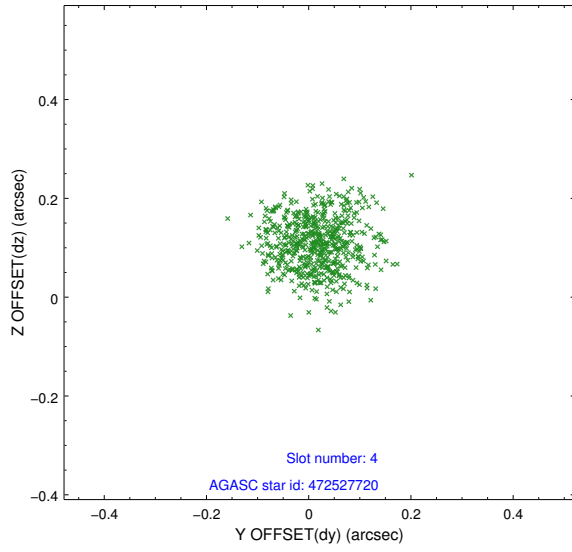


## 2.4 Star Slots

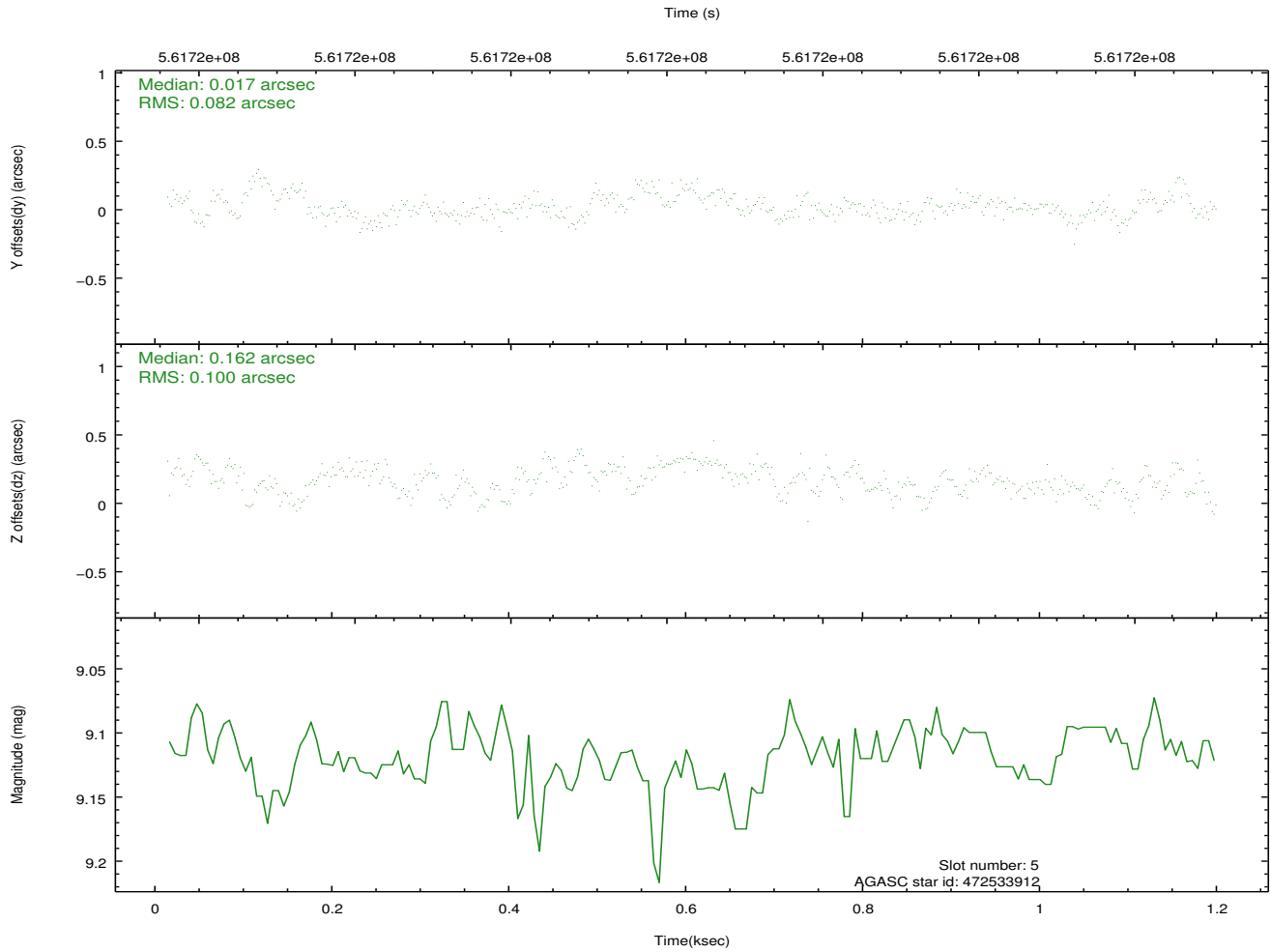
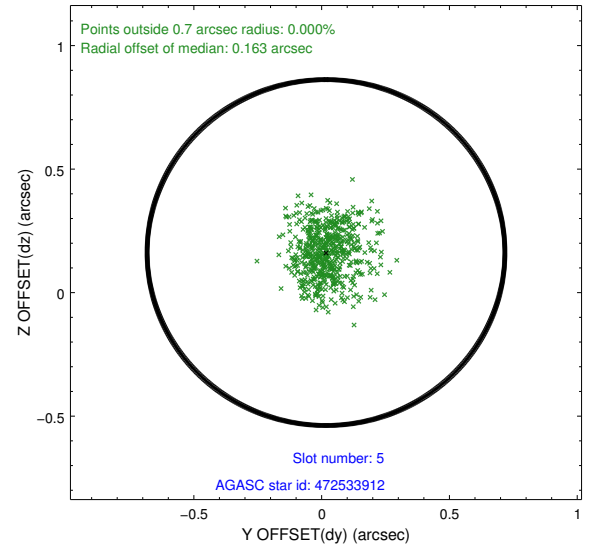
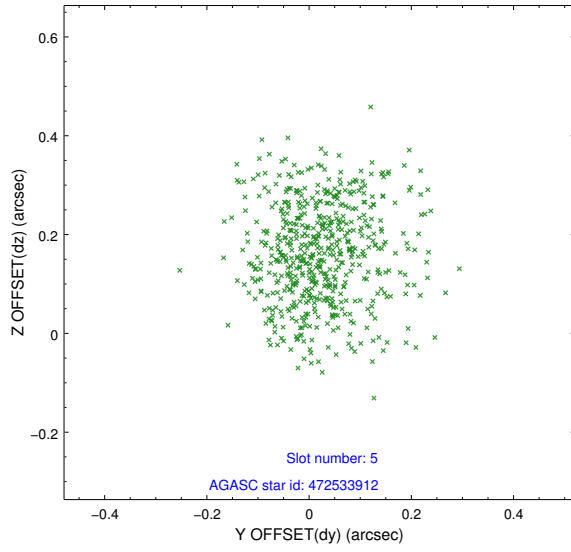
### 2.4.1 Slot 3



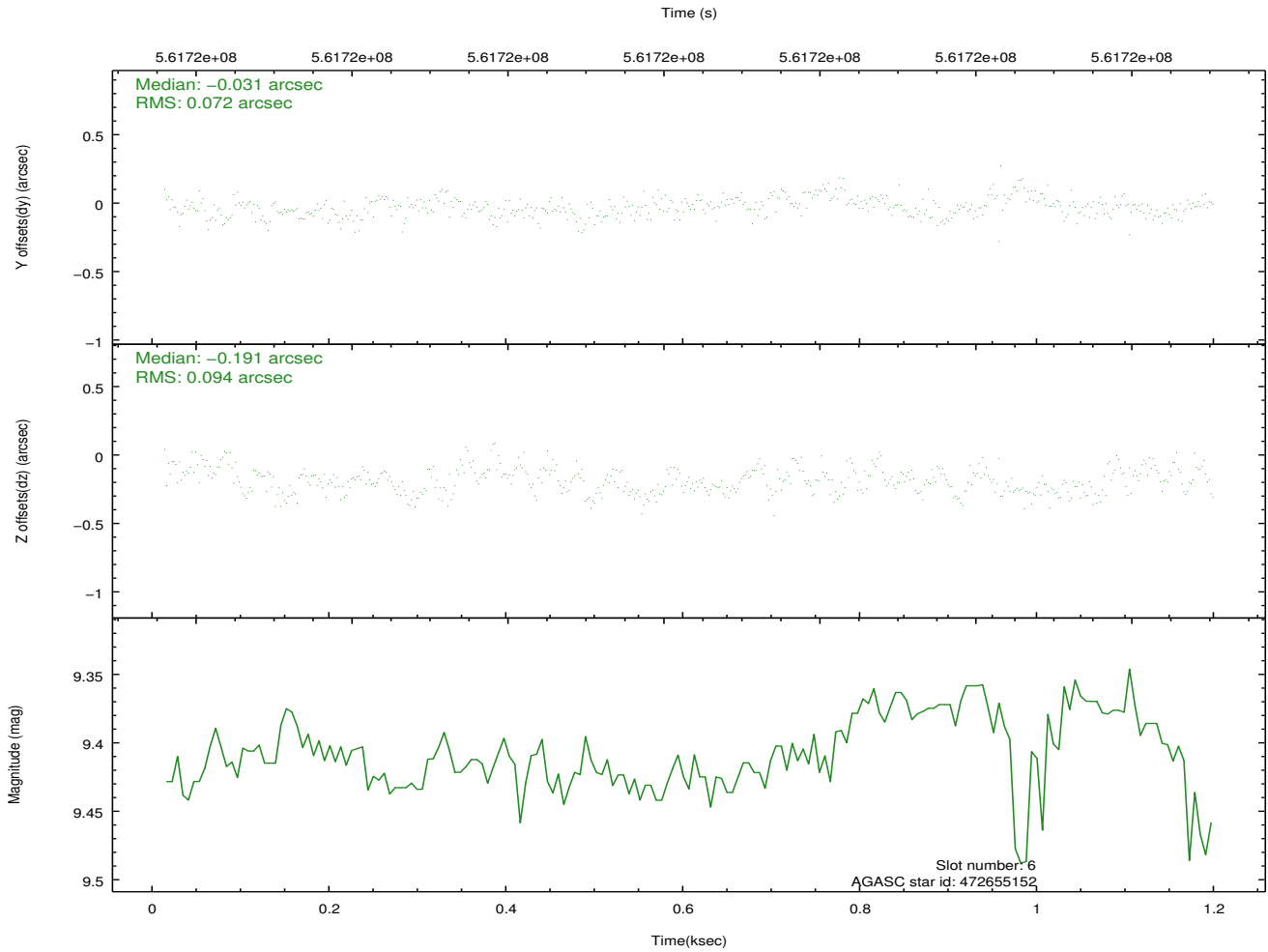
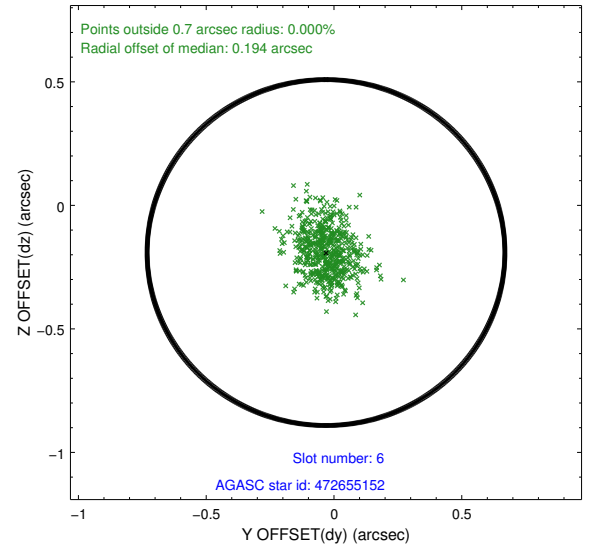
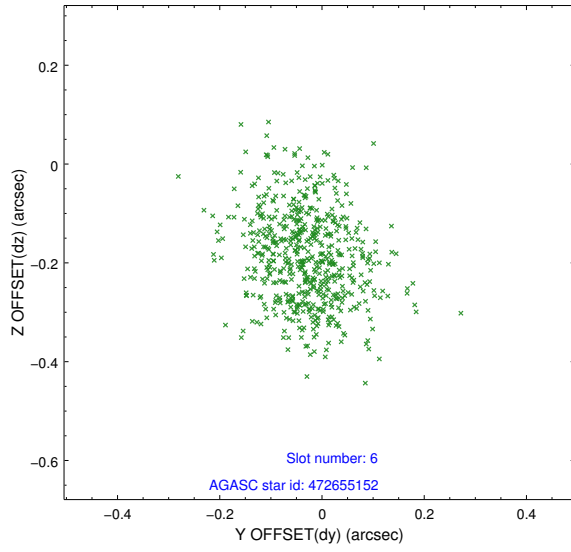
## 2.4.2 Slot 4



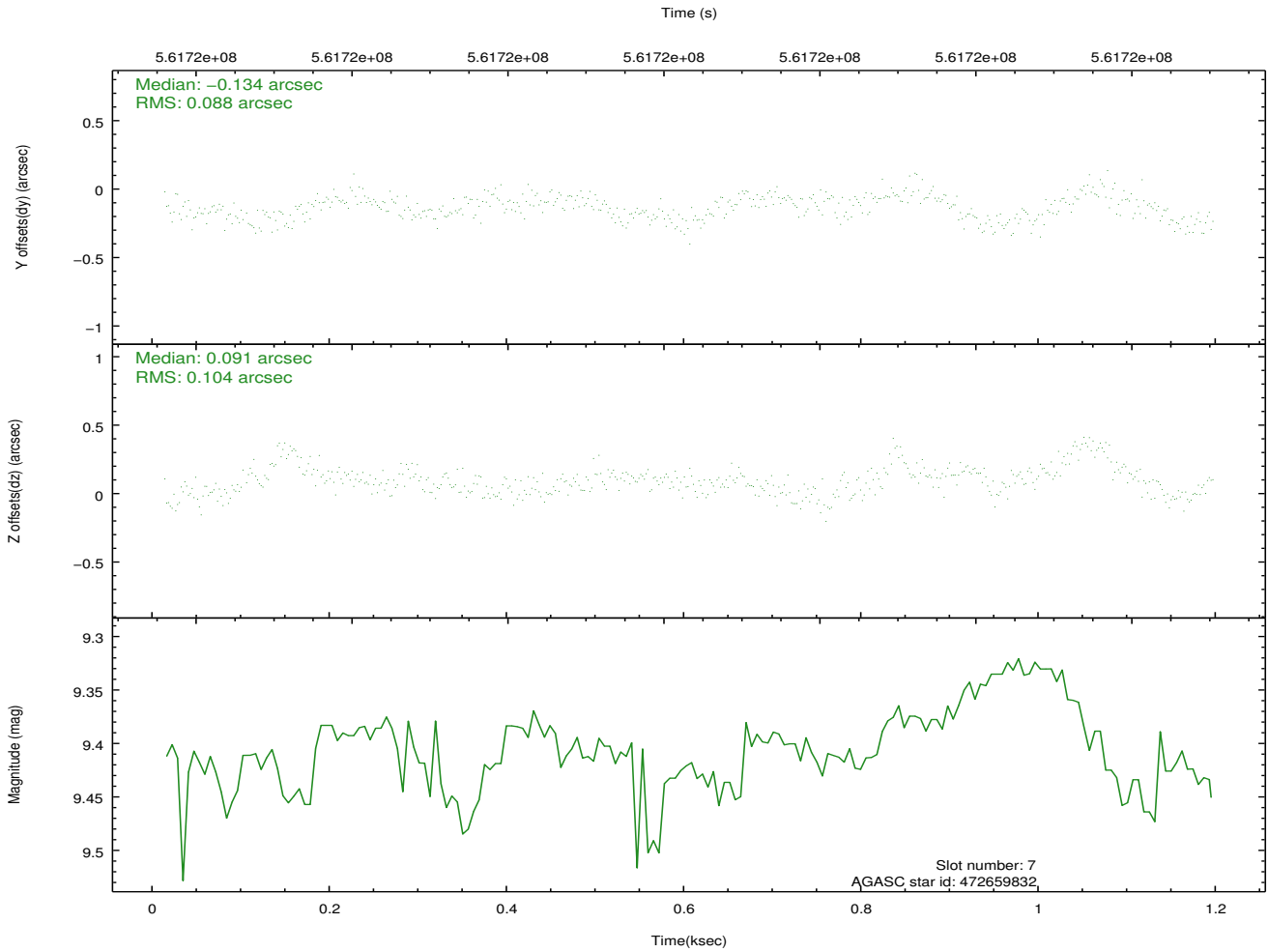
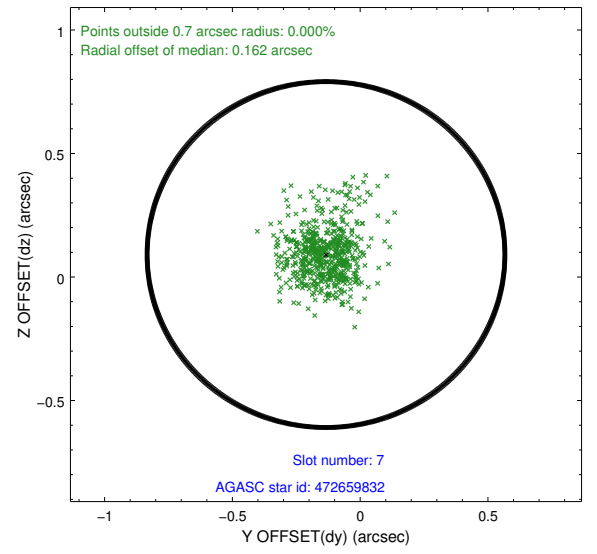
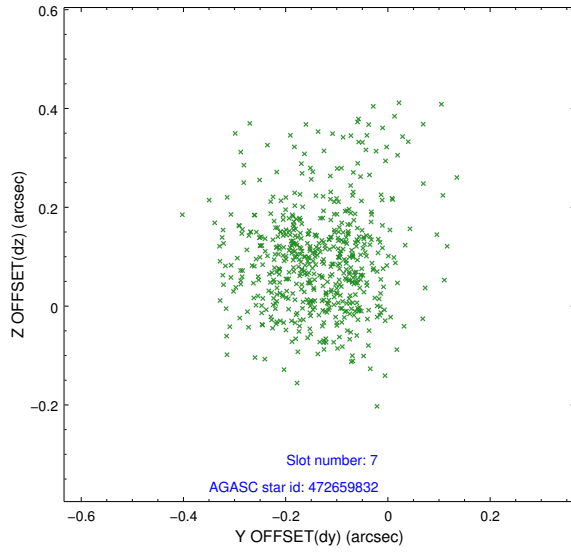
### 2.4.3 Slot 5



## 2.4.4 Slot 6

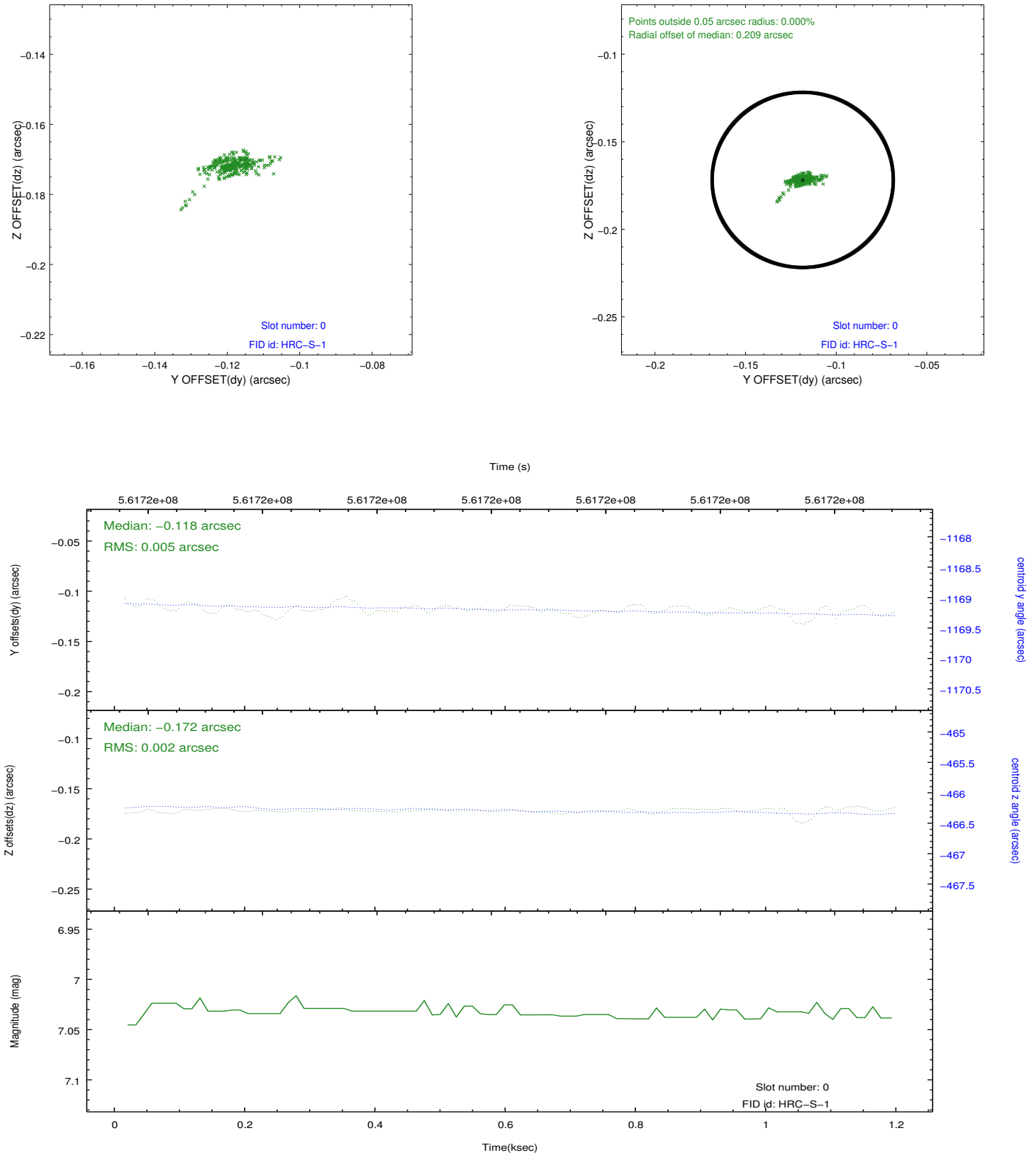


## 2.4.5 Slot 7

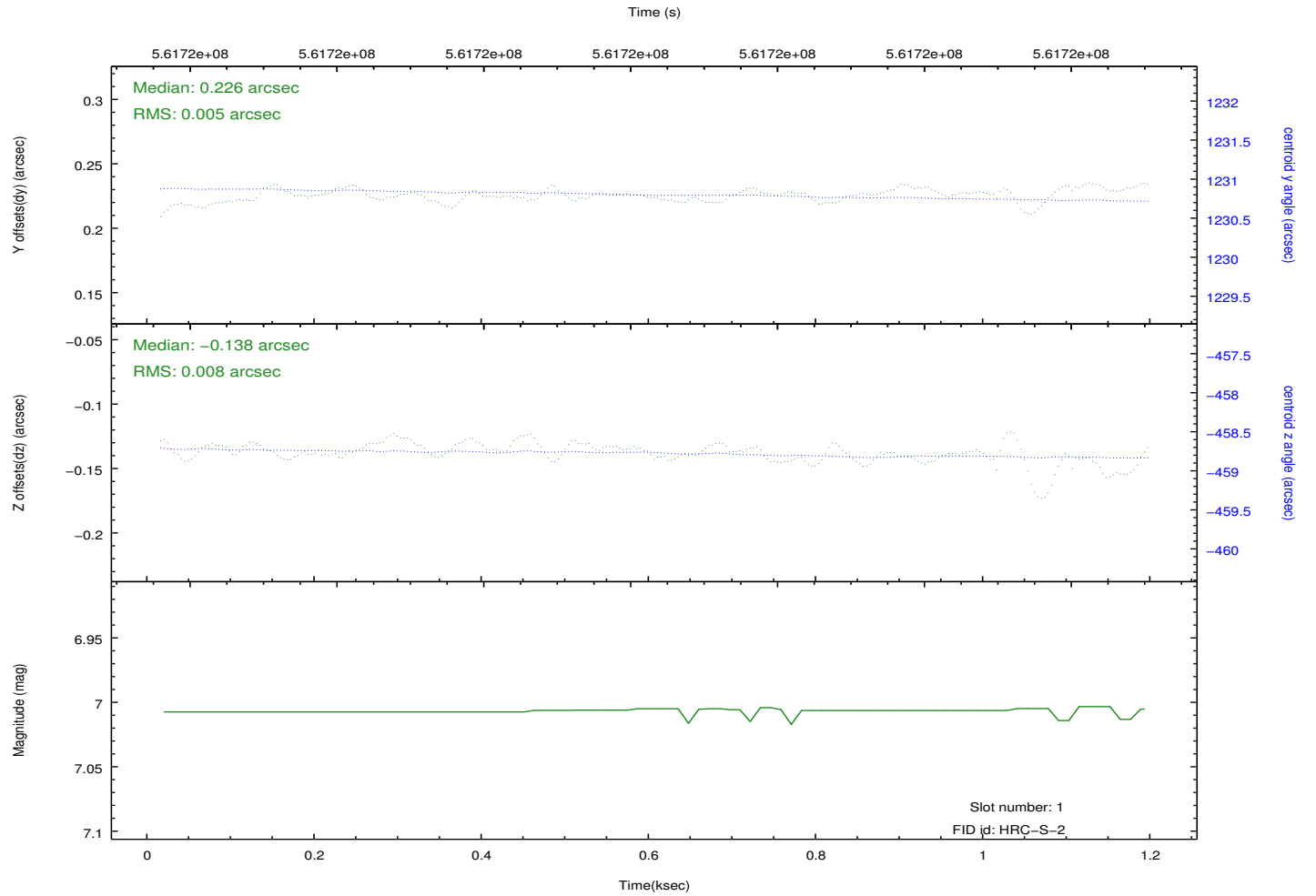
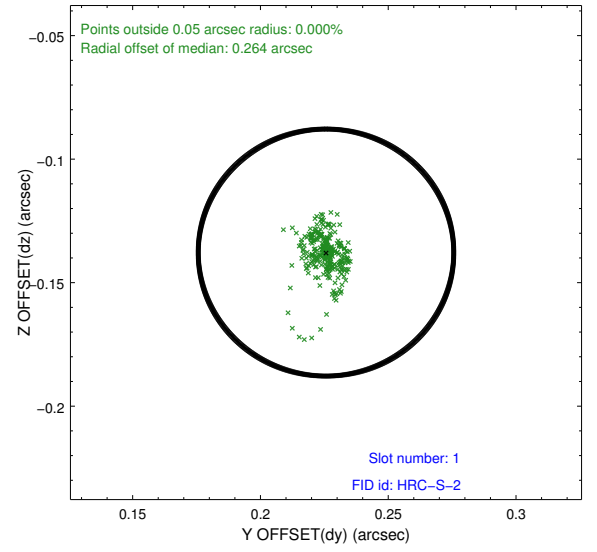
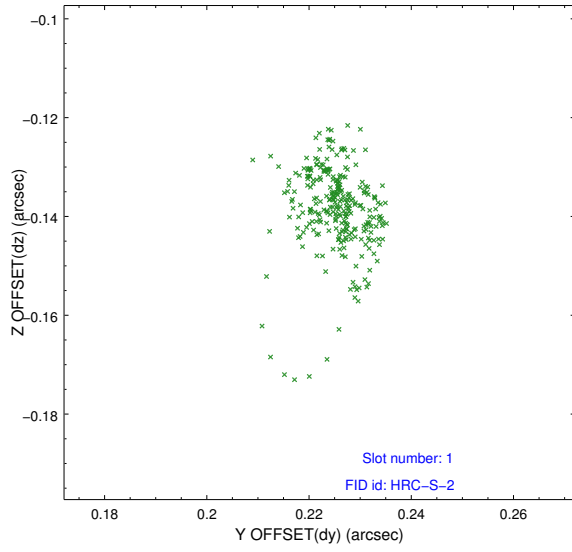


## 2.5 FID Slots

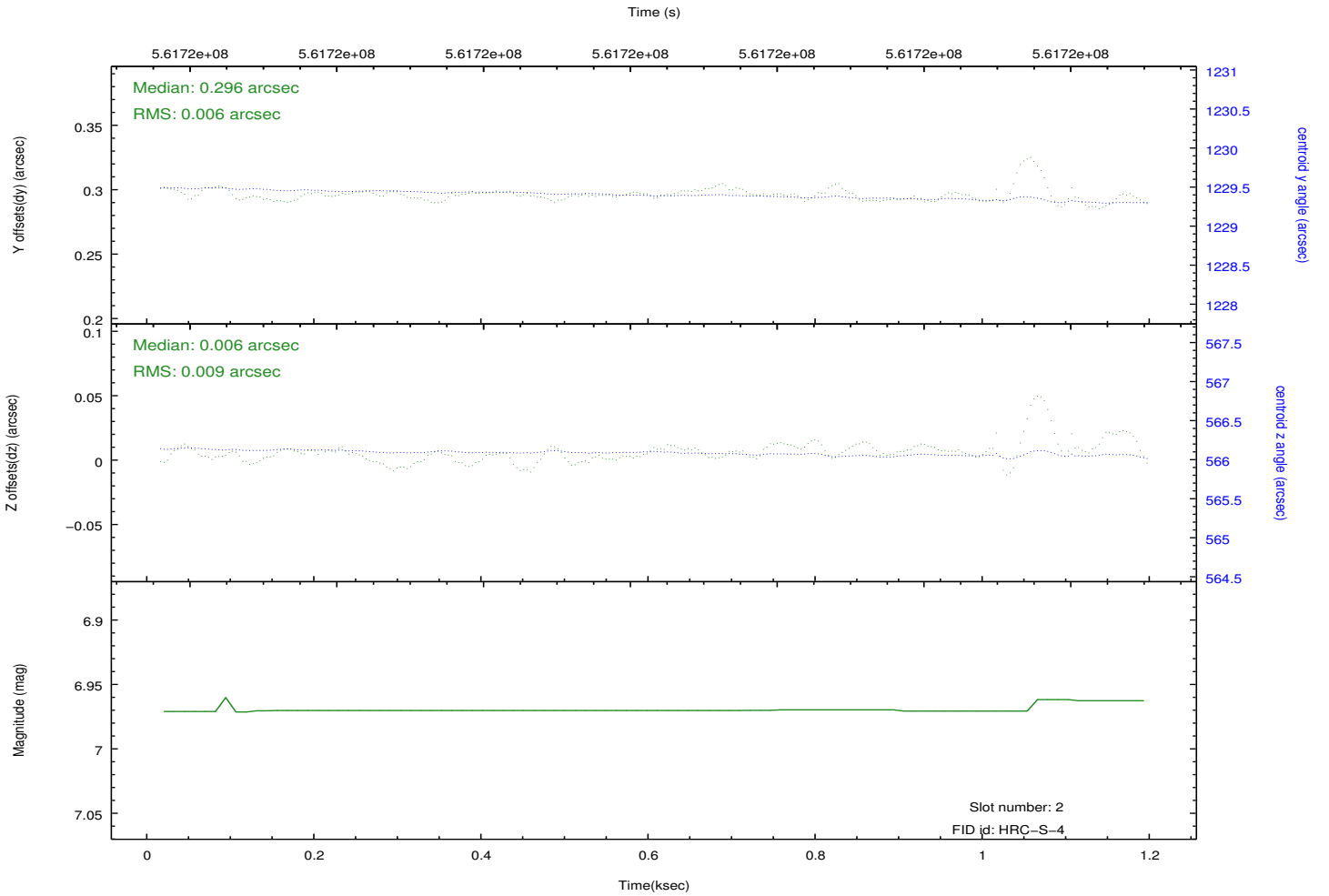
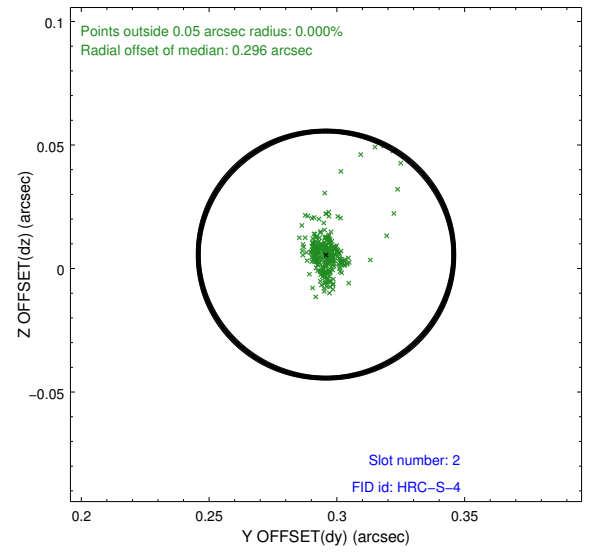
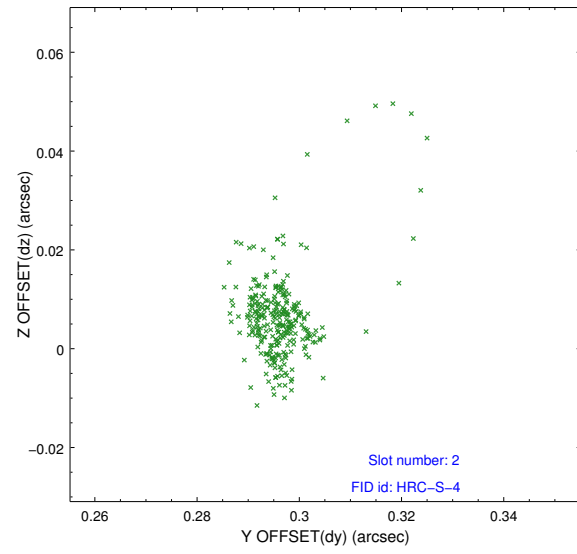
### 2.5.1 Slot 0



## 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)	2015.10.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1554313151836

### A.2 Comments