

# V&V Reference Report

## L2 ASCDS Version : 10.4.2.1

Observation 17332 - L2 Version 1  
Chandra X-Ray Center

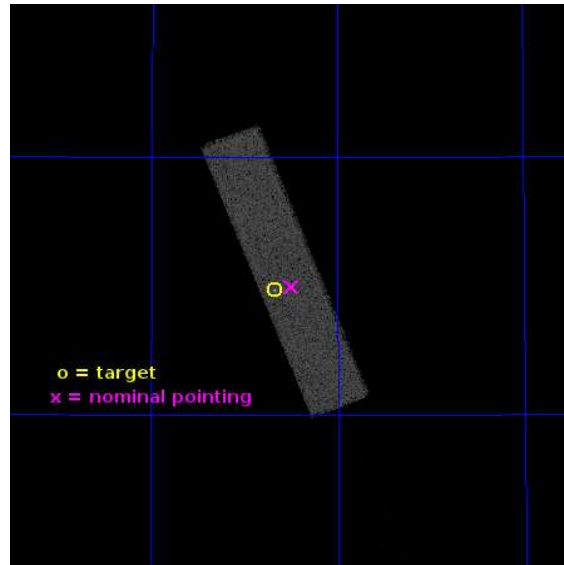
L2 Processing Date : Oct 20 2015

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# 1 Front

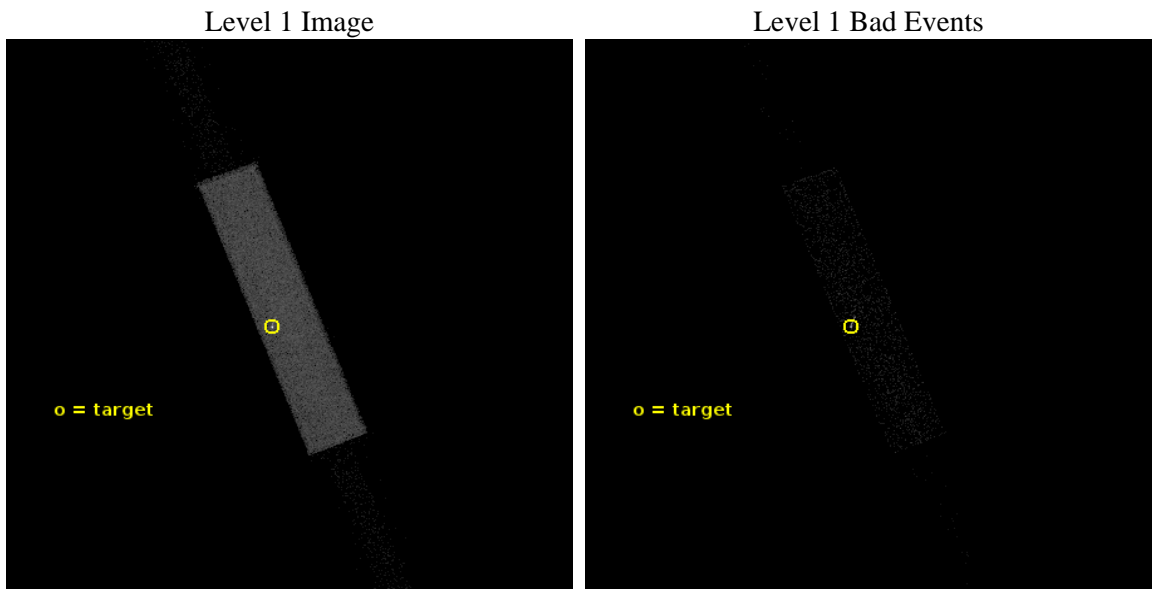
seq_num	291205	Sequence number
obs_id	17332	Observation id
title	AO-16 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.12430655607	Nominal RA [deg]
dec_nom	45.749278759225	Nominal Dec [deg]
roll_nom	248.36650291968	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1161.5813157558	[s]
livetime	1153.9064655885	Ontime multiplied by DTCOR
l2events	58674	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	1161.5813157558	[s]
caldsver	4.6.10a	&#160	l1events	89438	Number of level 1 events
date	2015-10-20T22:41:54	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

Level 1 Events

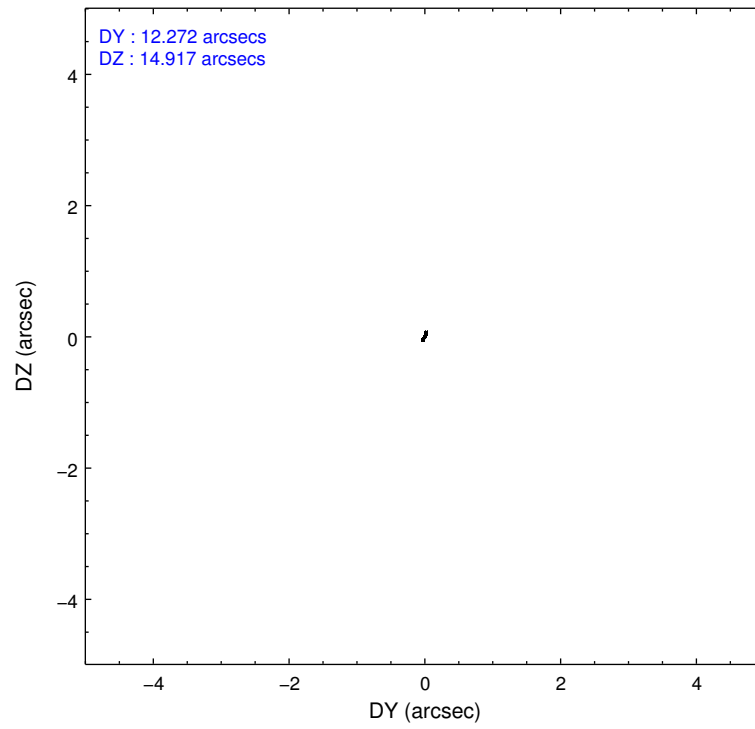
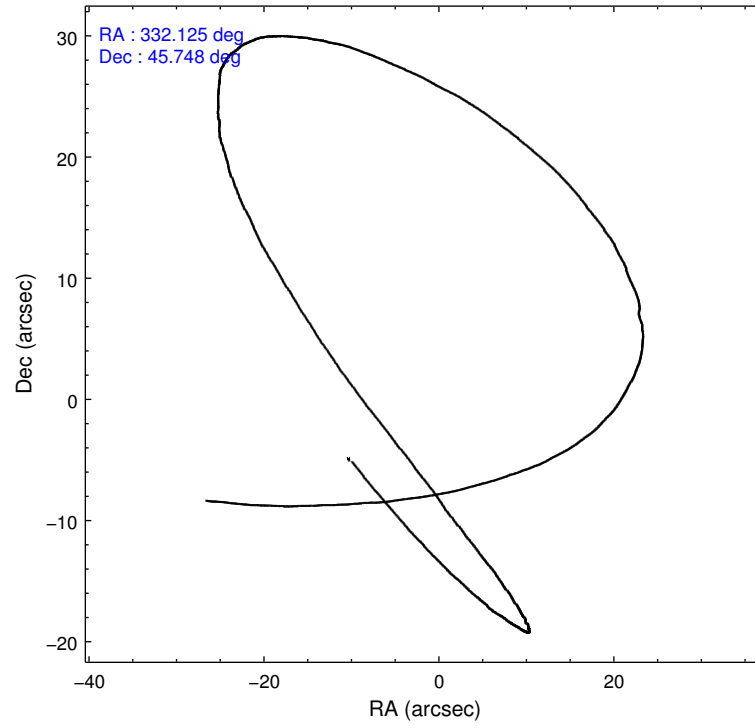
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	808	87856	774
rejected events	808	19643	749
rejected %	100%	22%	96%

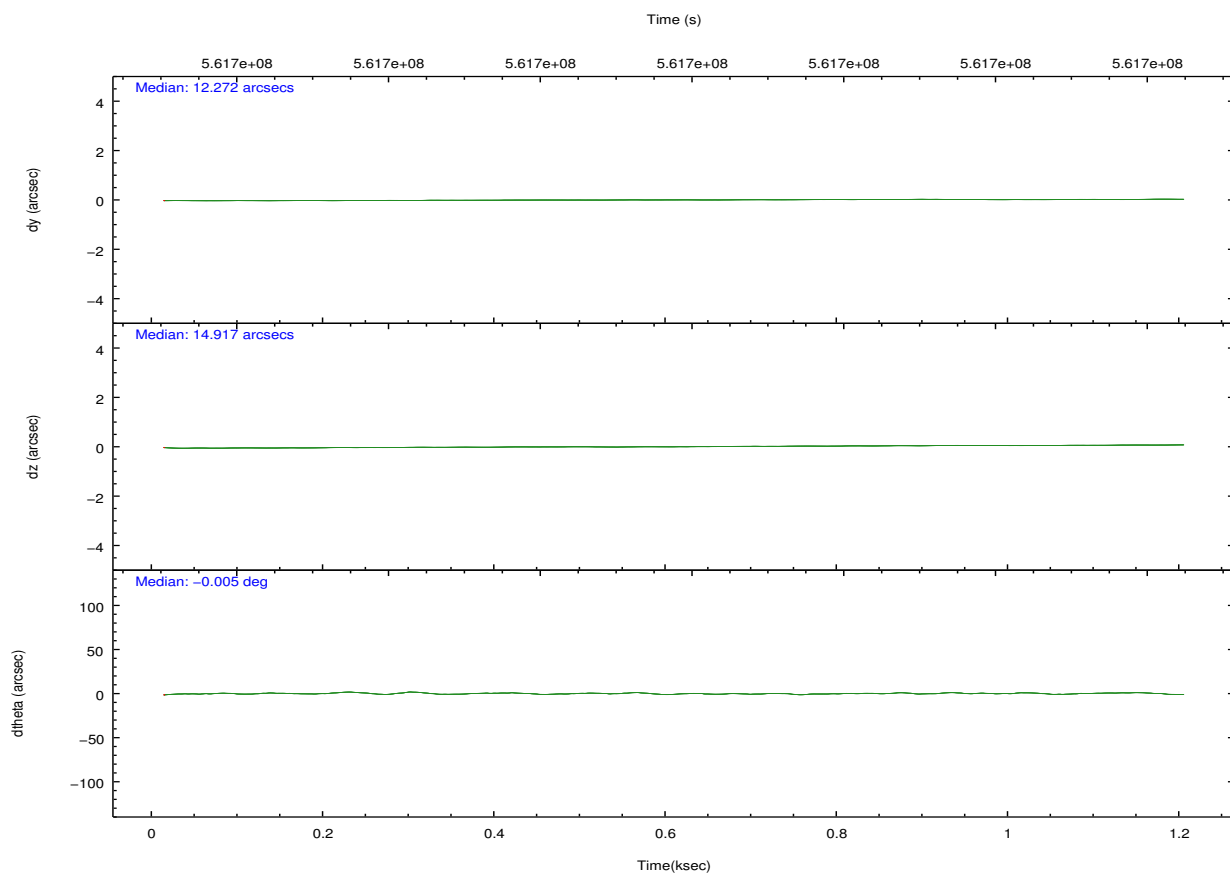
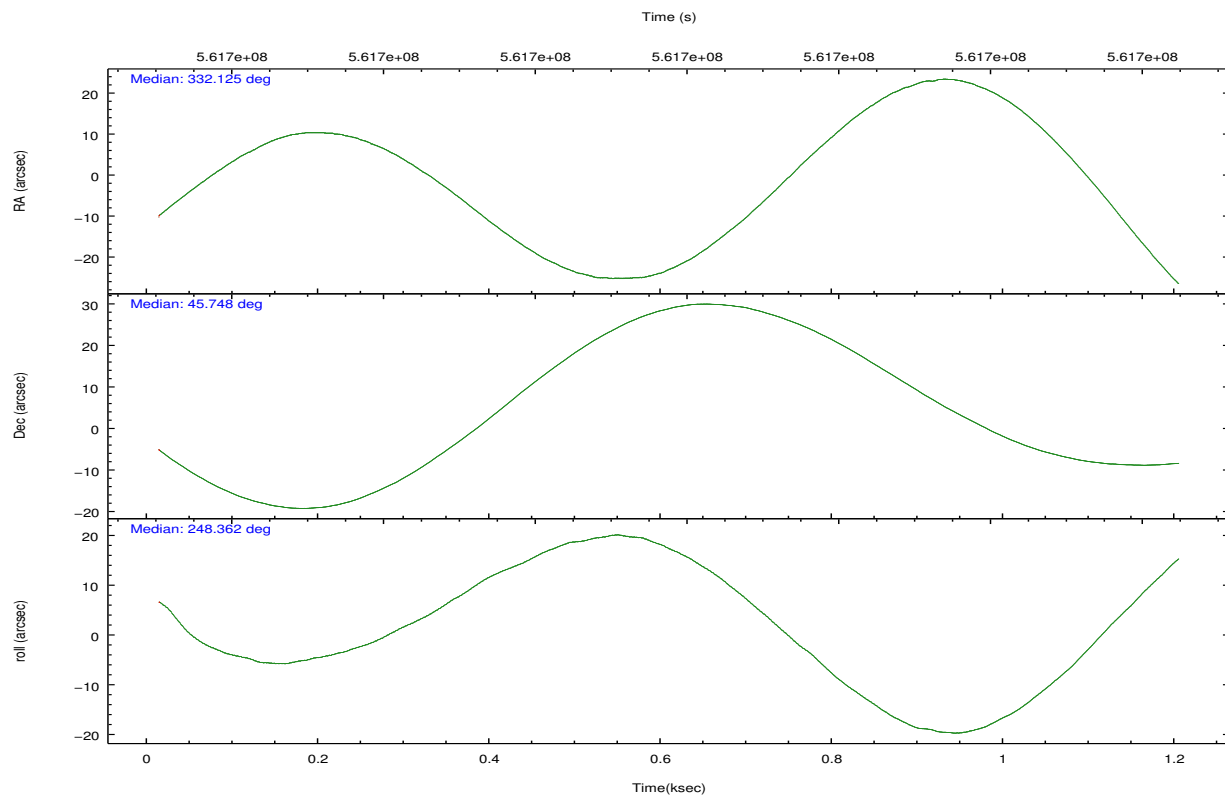
## 2.2 Compared Parameters

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	332.114995	332.1243065560681
[deg] Pointing Dec	45.778399	45.74927875922505
[deg] Pointing Roll	248.305832	248.3665029196773
[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)	561700173.184000	561699796.80832
Observation start date	2015-10-20T03:48:25	2015-10-20T03:43:16
[s] Observation end time (MET)	561701173.184000	561701307.65841
Observation end date	2015-10-20T04:05:05	2015-10-20T04:08:27

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

## 2.3 Aspect



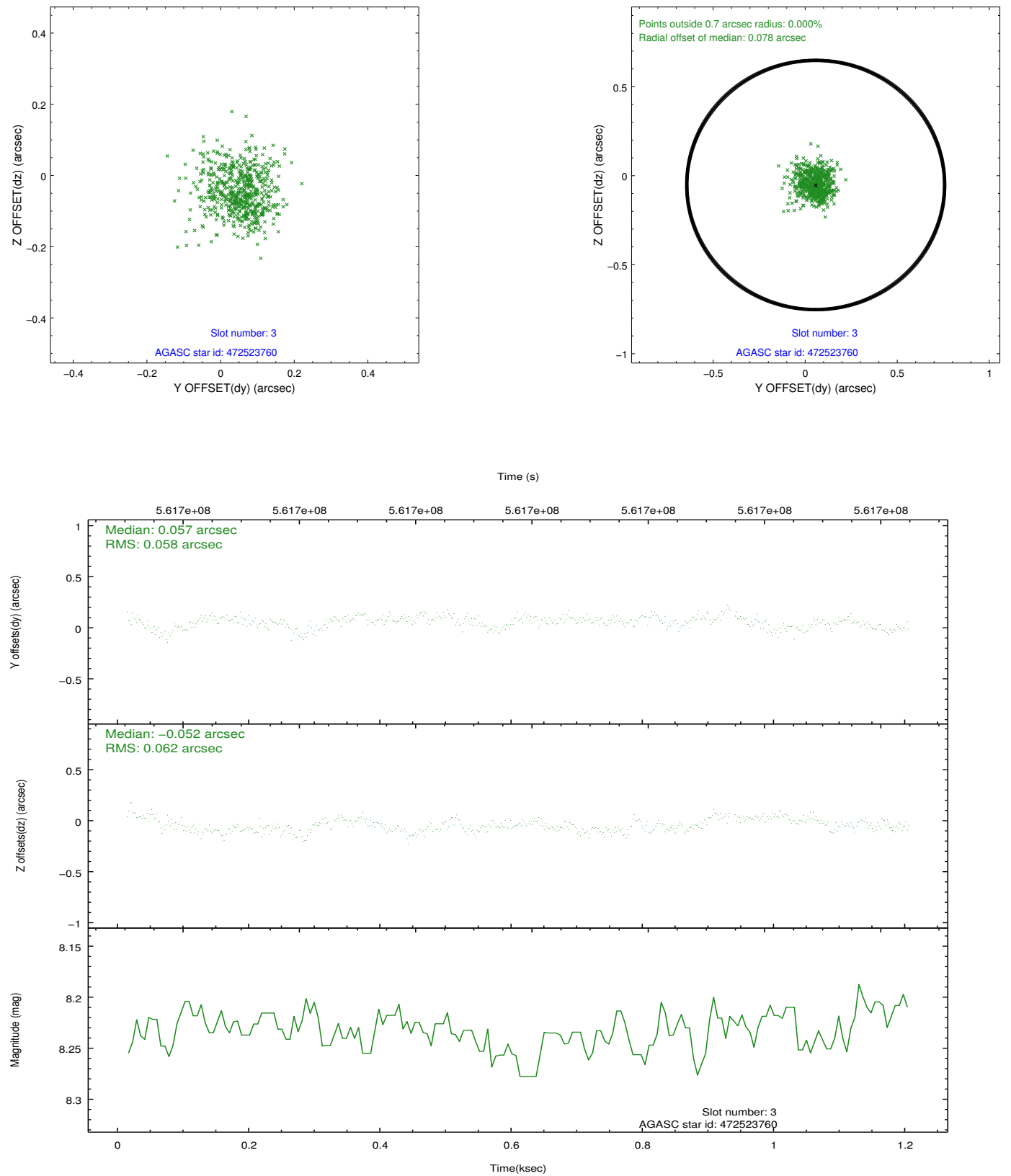


Slot Statistics

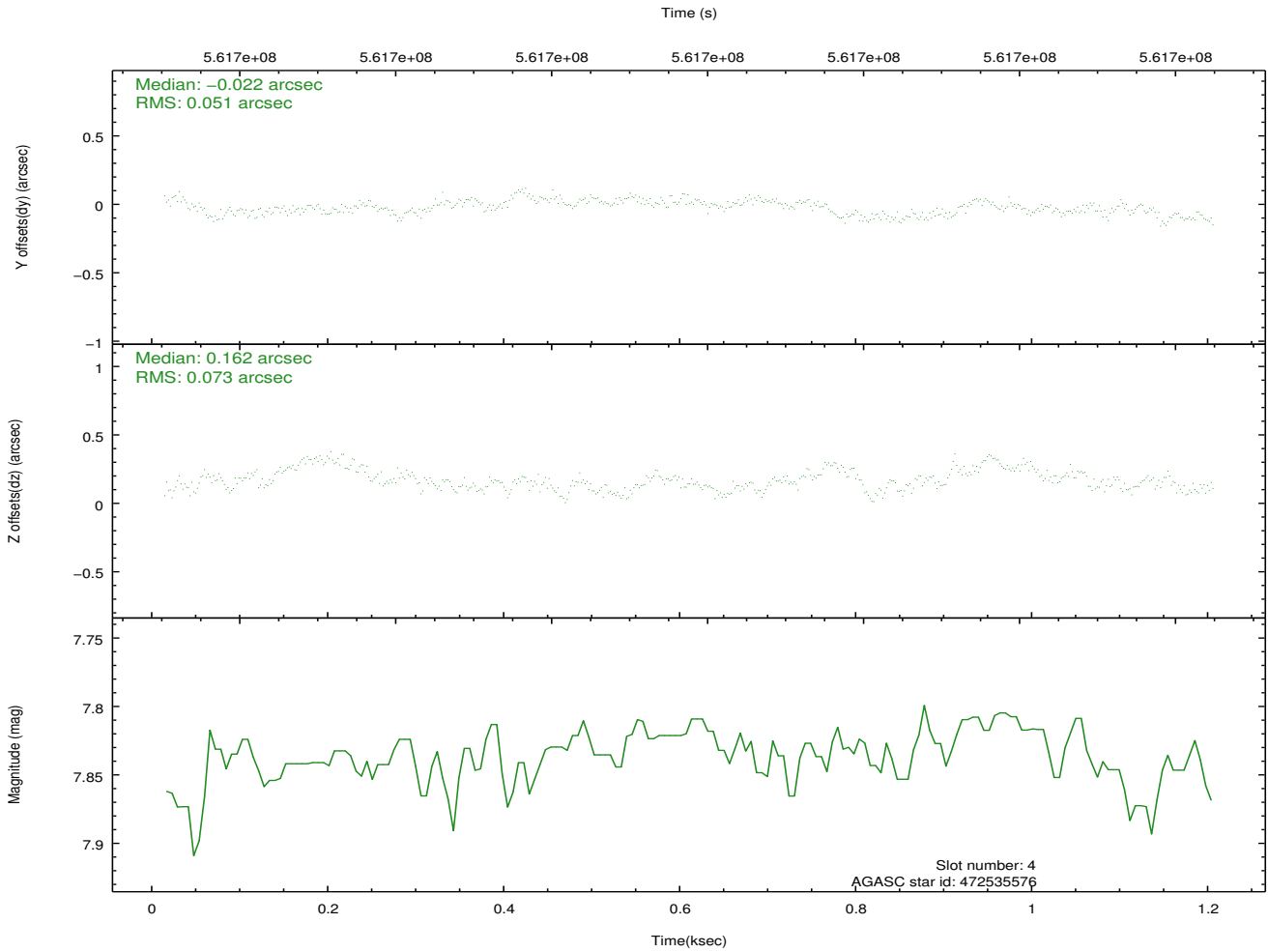
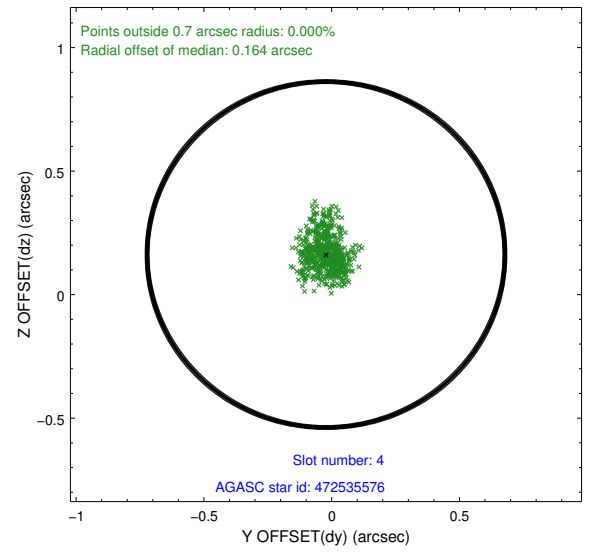
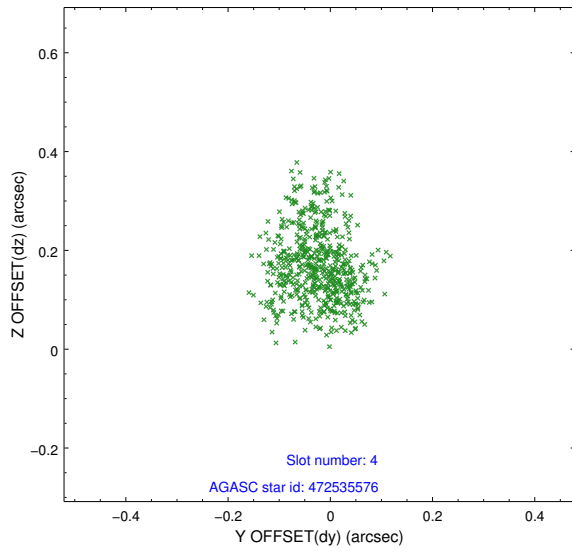
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.01	291	0.001	-0.211	0.007	0.011	0.000000	0.000000	-1166.65	-463.84
1	FID		HRC-S-2	7.00	291	0.368	-0.147	0.004	0.009	0.000000	0.000000	1229.36	-457.96
2	FID		HRC-S-3	7.01	291	0.020	0.055	0.007	0.011	0.000000	0.000000	-1165.15	564.37
3	GUIDE	used	472523760	8.23	579	0.057	-0.052	0.088	0.148	331.645363	45.403260	1689.57	-608.80
4	GUIDE	used	472535576	7.84	582	-0.022	0.162	0.096	0.156	331.438373	46.291802	-1099.86	-2254.53
5	GUIDE	used	472536328	8.10	582	0.026	0.231	0.088	0.158	331.496671	46.454831	-1704.14	-2334.89
6	GUIDE	used	472655152	9.40	582	-0.016	-0.111	0.192	0.310	332.504239	45.862991	-649.81	785.46
7	GUIDE	used	472665256	8.98	581	-0.041	-0.236	0.108	0.170	332.808125	46.195041	-2041.38	1044.88

## 2.4 Star Slots

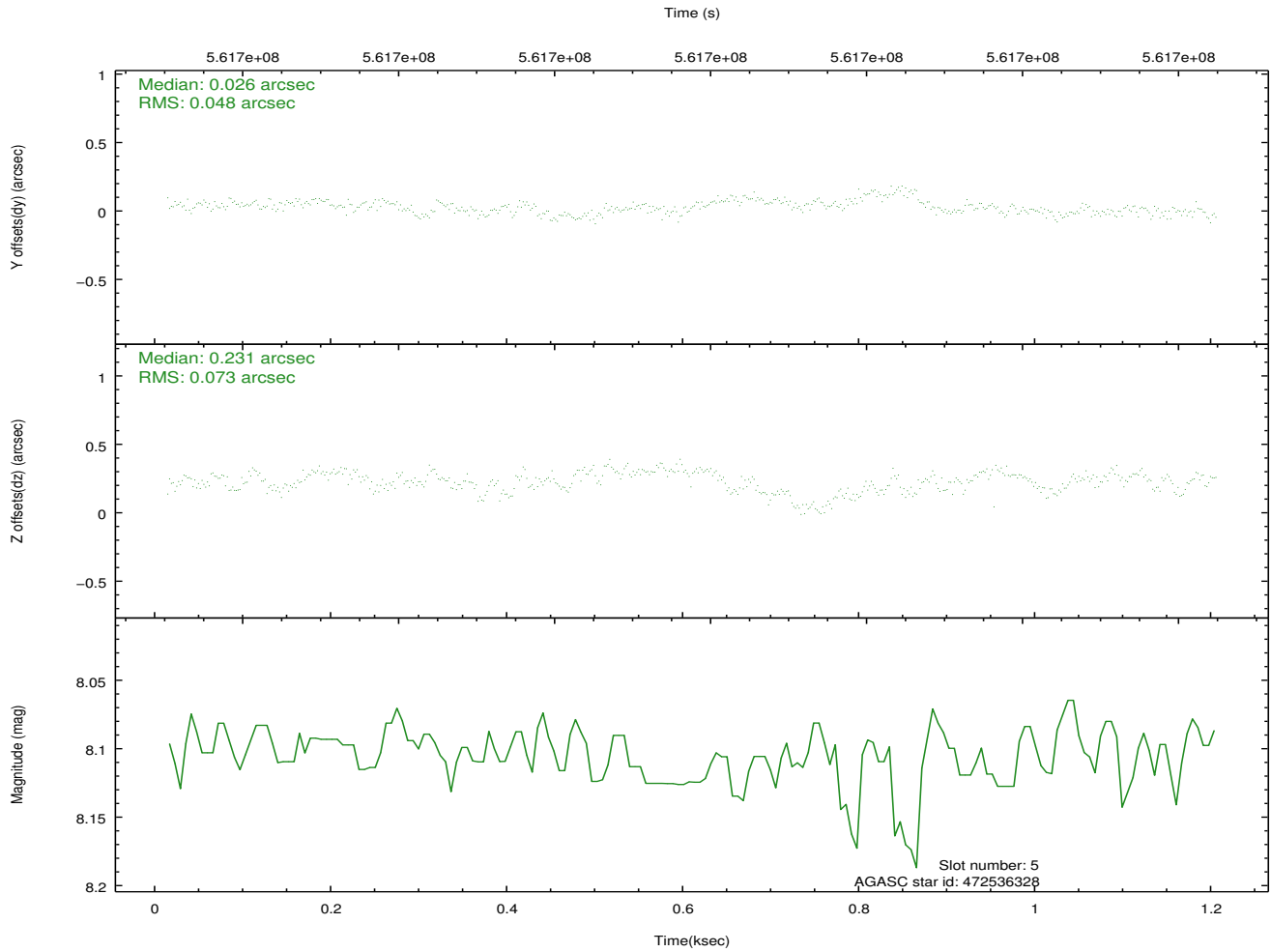
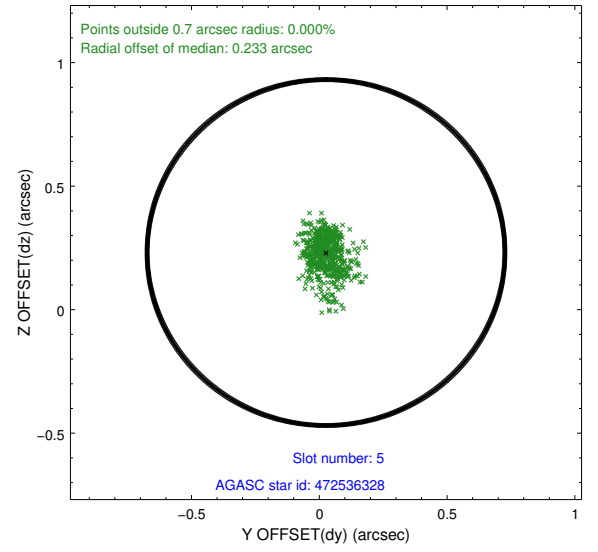
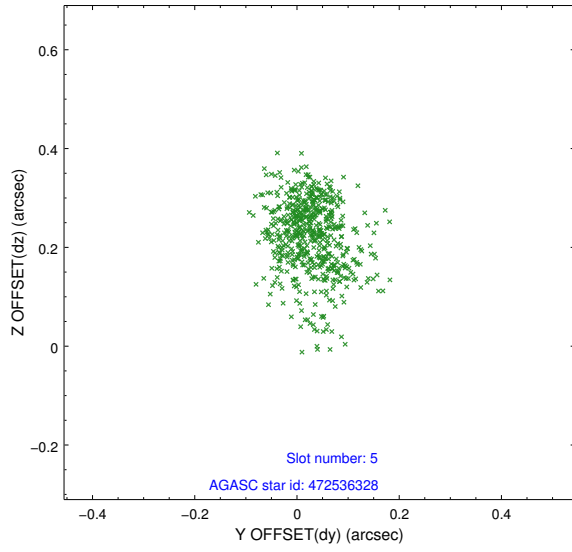
### 2.4.1 Slot 3



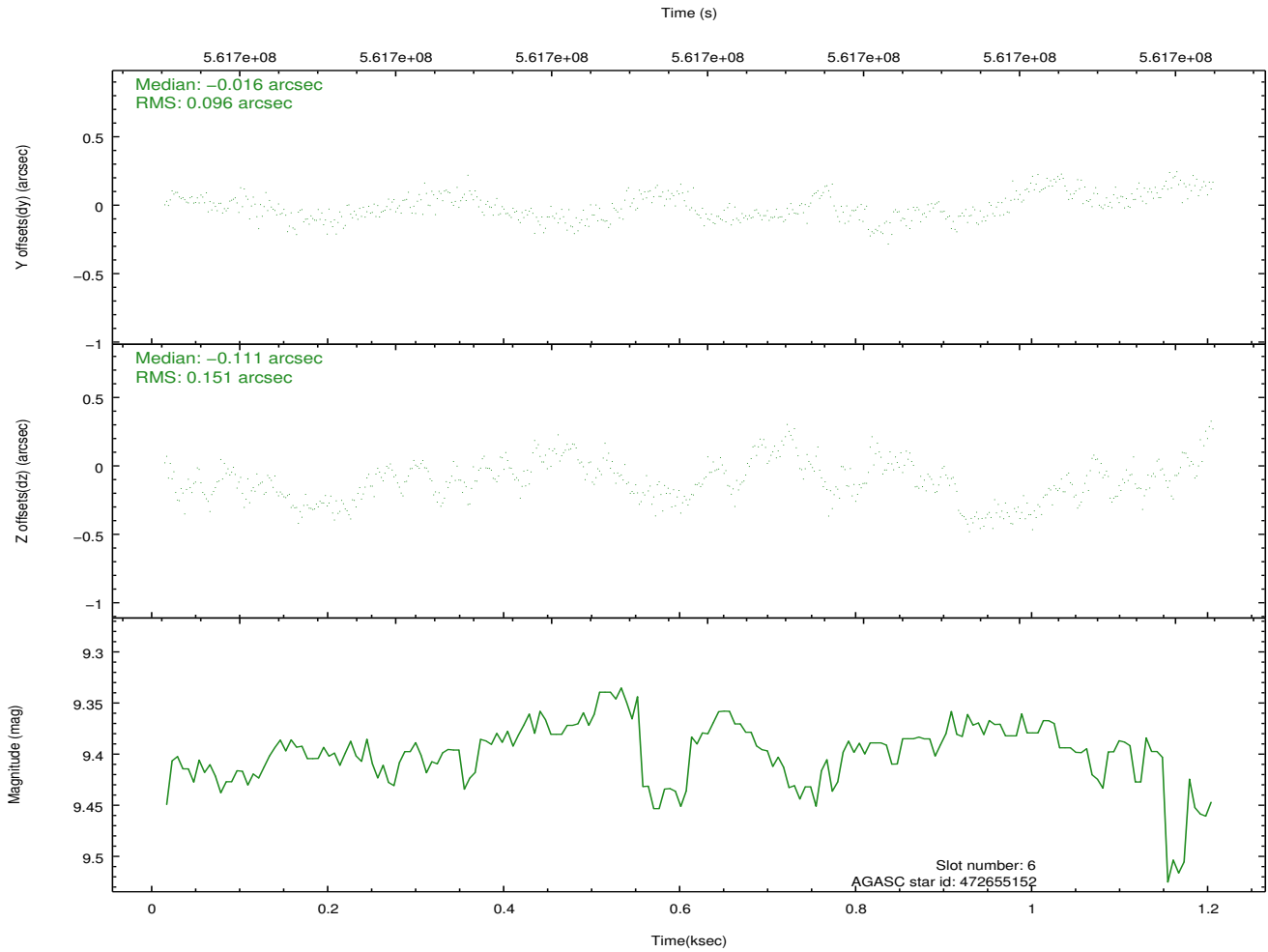
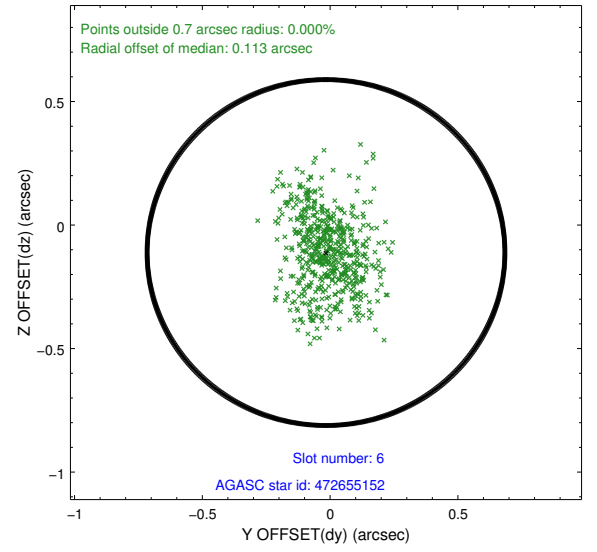
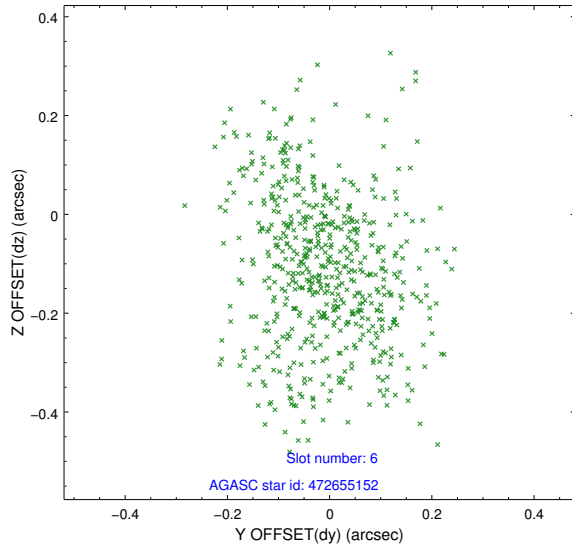
## 2.4.2 Slot 4



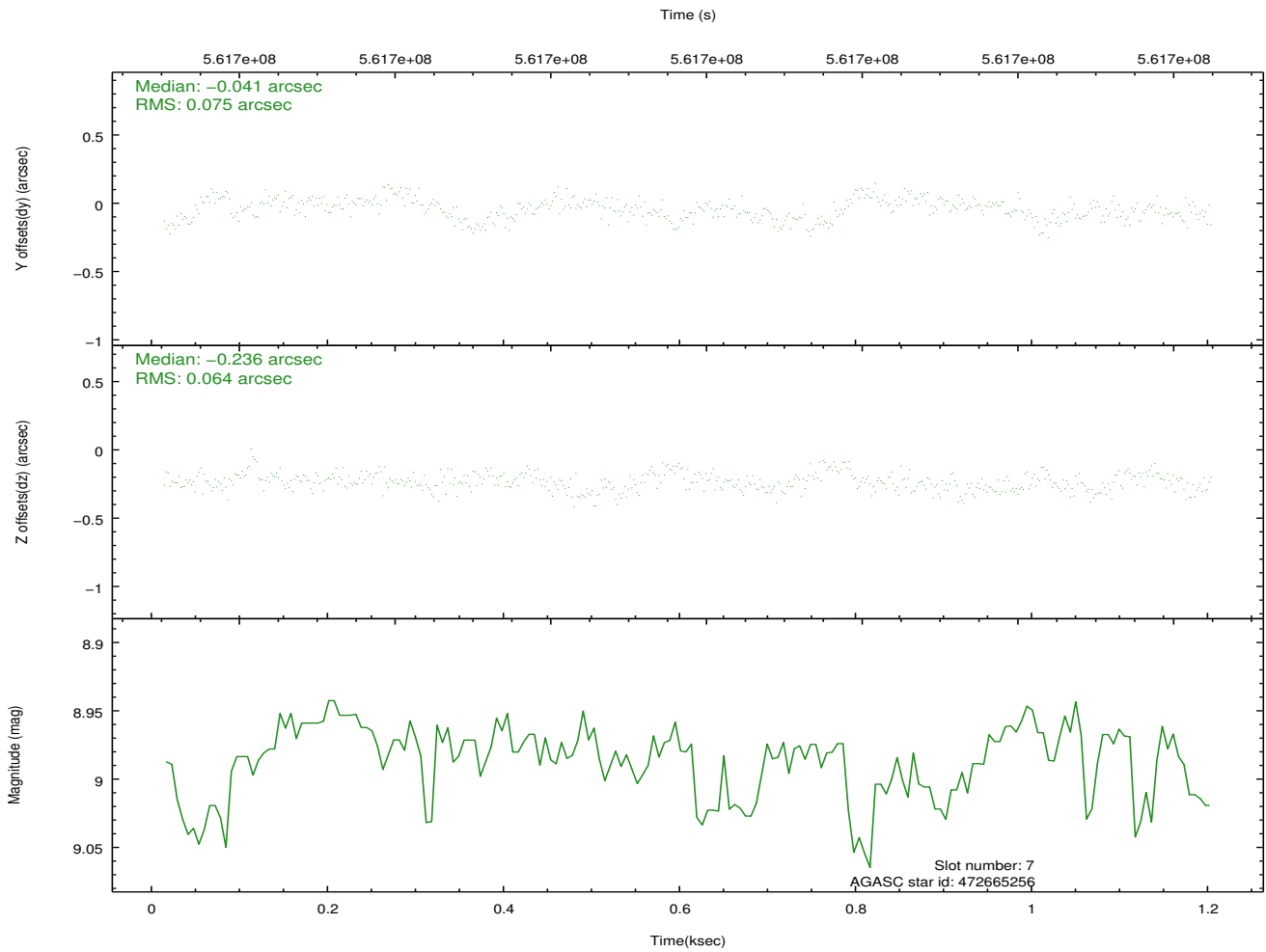
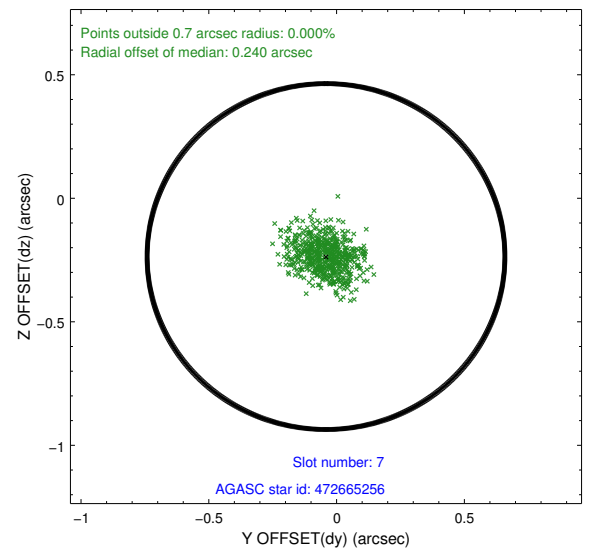
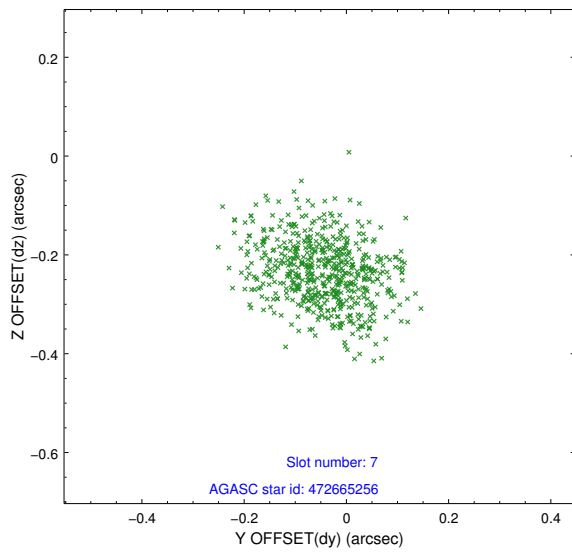
### 2.4.3 Slot 5



## 2.4.4 Slot 6

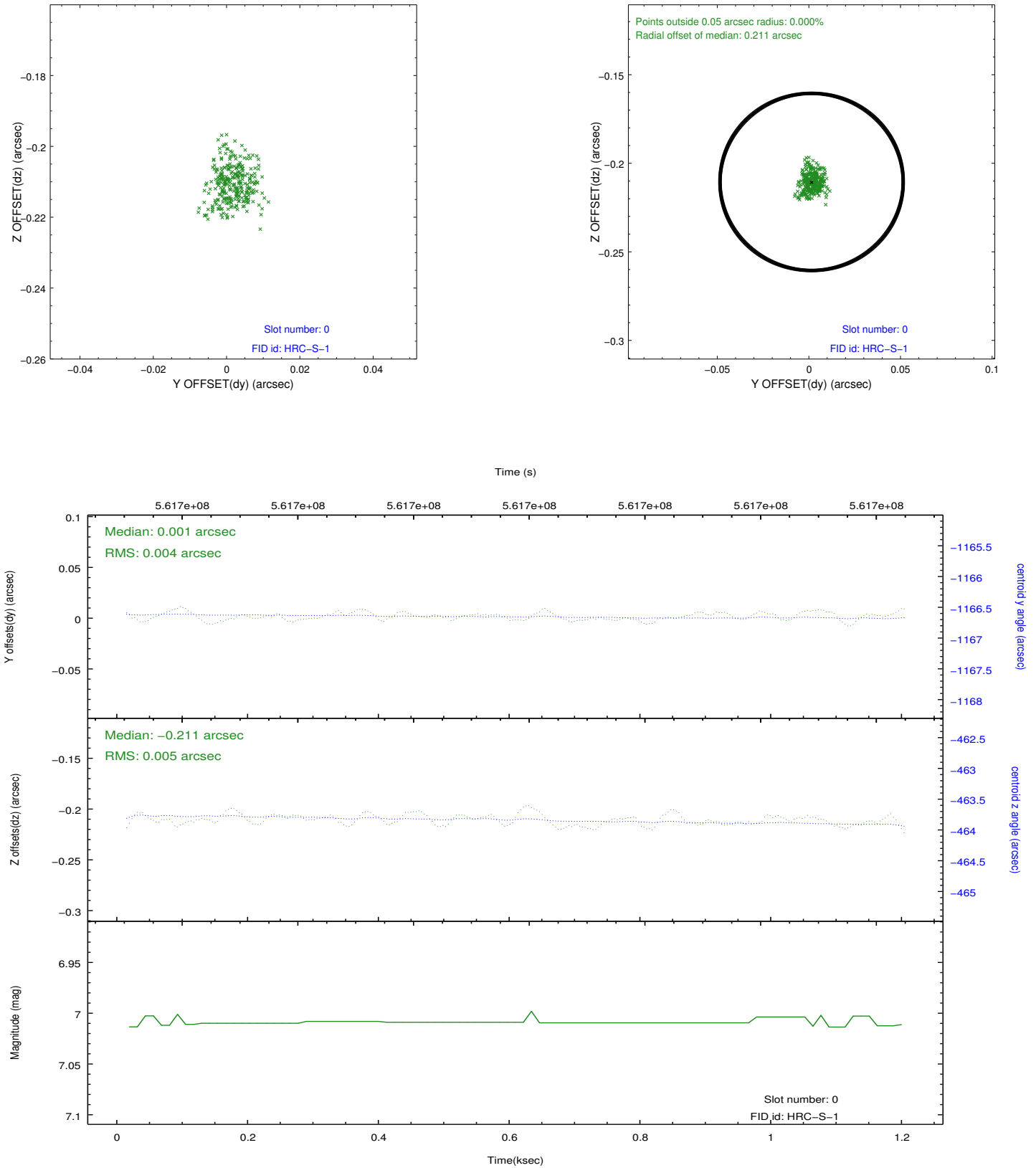


## 2.4.5 Slot 7

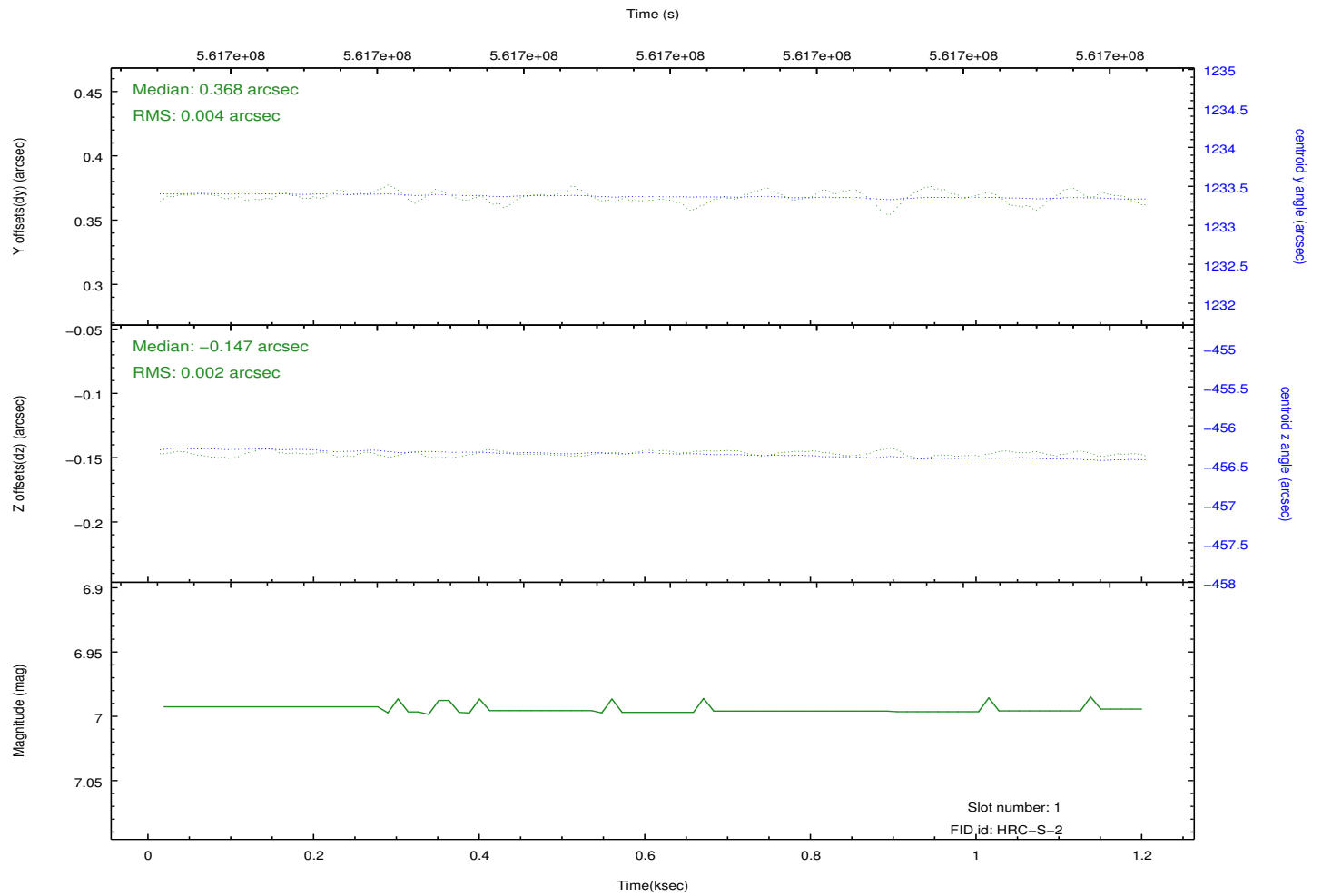
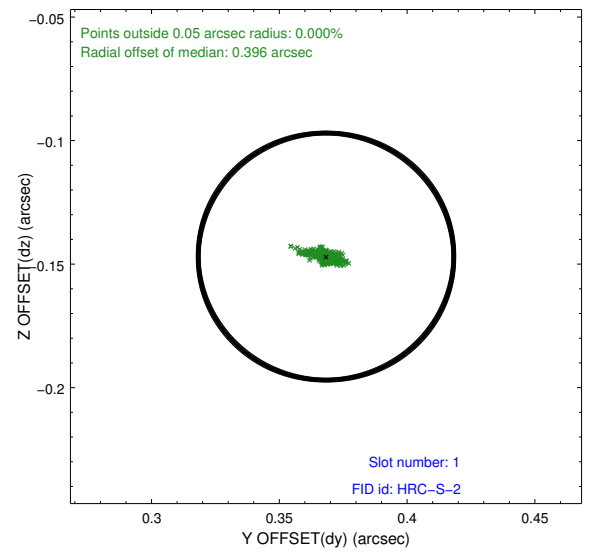
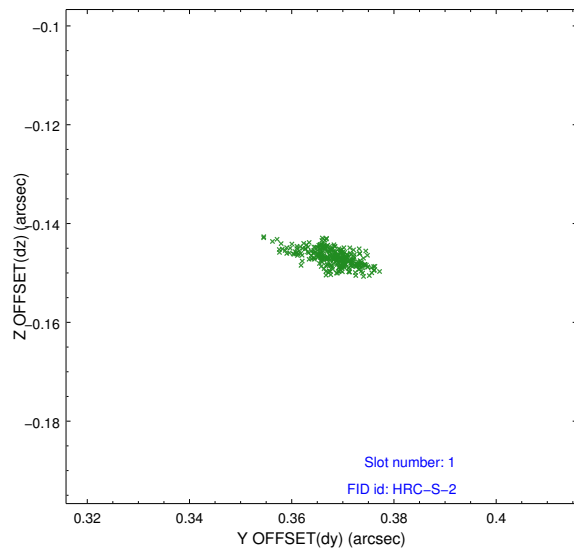


## 2.5 FID Slots

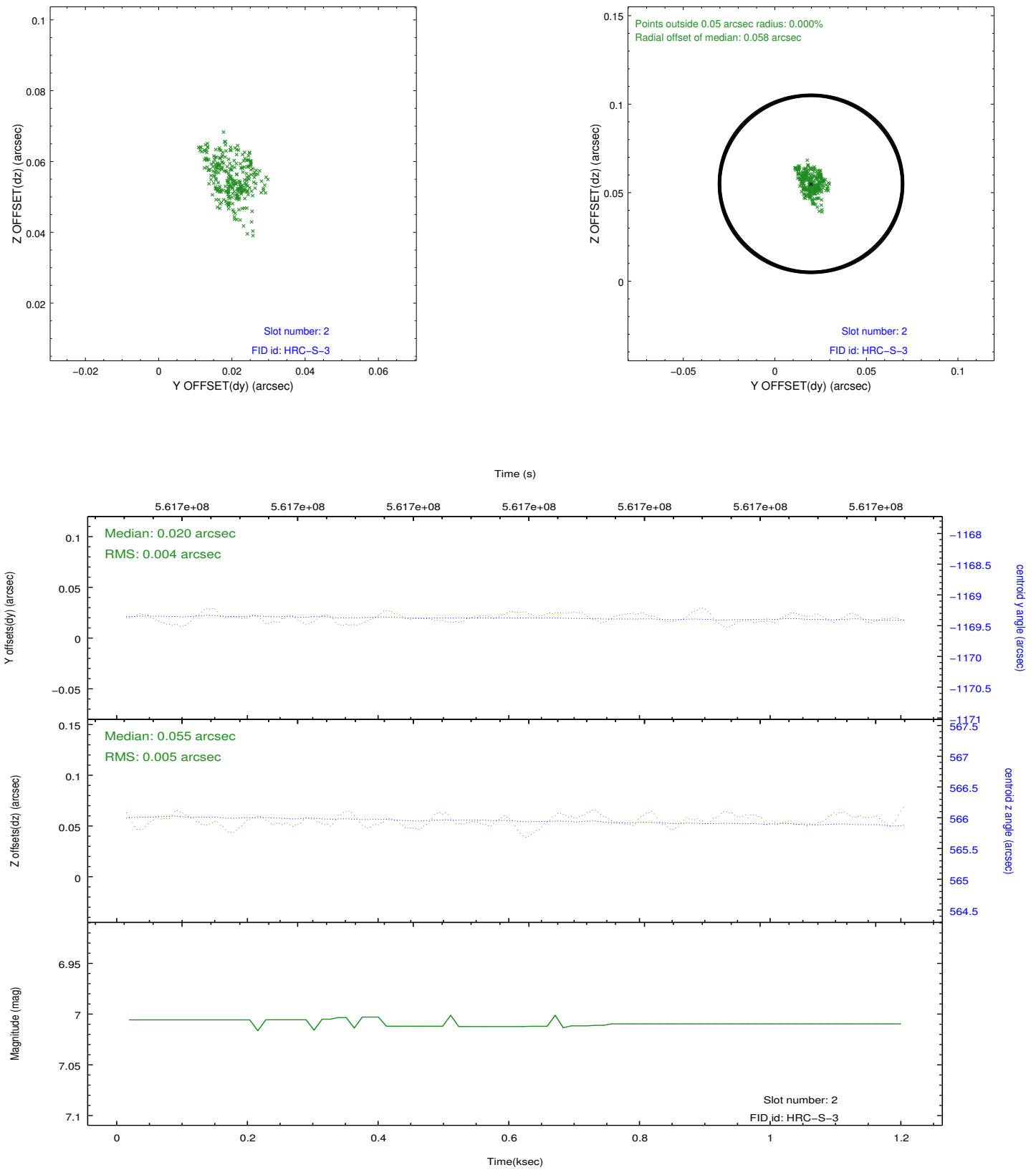
### 2.5.1 Slot 0



## 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	1.1615813157558

### A.2 Comments