

# V&V Reference Report

## L2 ASCDS Version : 10.4.2.1

Observation 17345 - L2 Version 1  
Chandra X-Ray Center

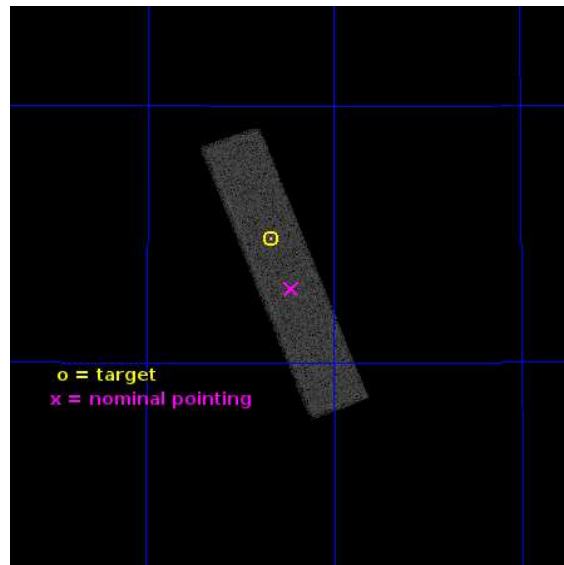
L2 Processing Date : Oct 20 2015

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Parameters . . . . .	4
2.1.3	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

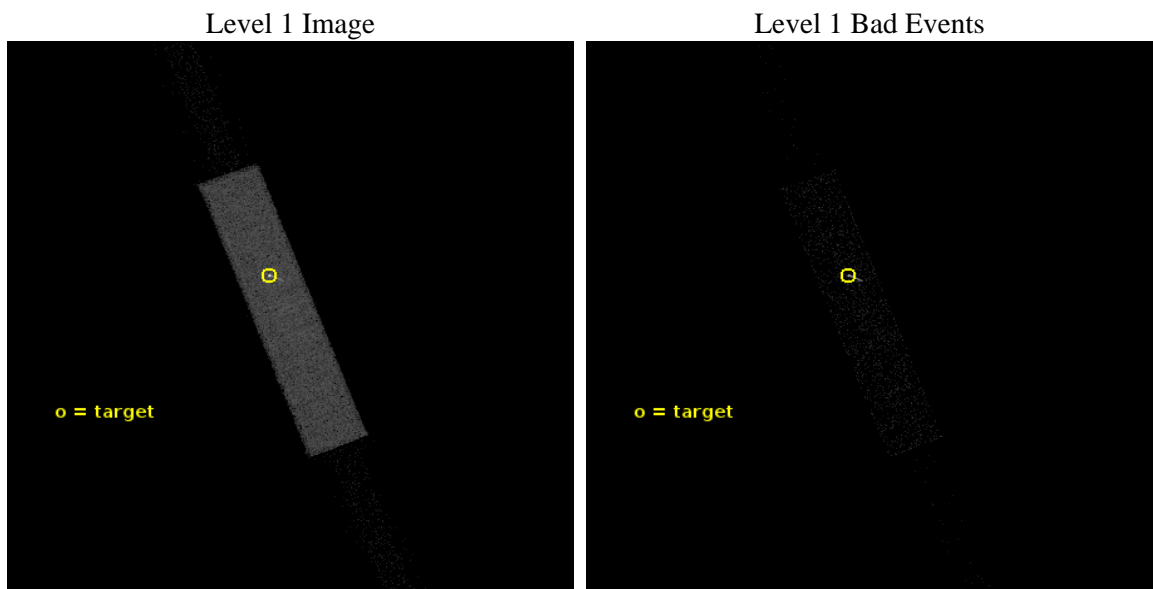
seq_num	291218	Sequence number
obs_id	17345	Observation id
title	AO-16 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.11369974695	Nominal RA [deg]
dec_nom	45.644570811867	Nominal Dec [deg]
roll_nom	248.70074130866	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1151.0750652552	[s]
livetime	1143.8997177751	Ontime multiplied by DTCOR
l2events	55040	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	1151.0750652552	[s]
caldsver	4.6.10a	&#160	l1events	85298	Number of level 1 events
date	2015-10-20T22:46:17	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

Level 1 Events

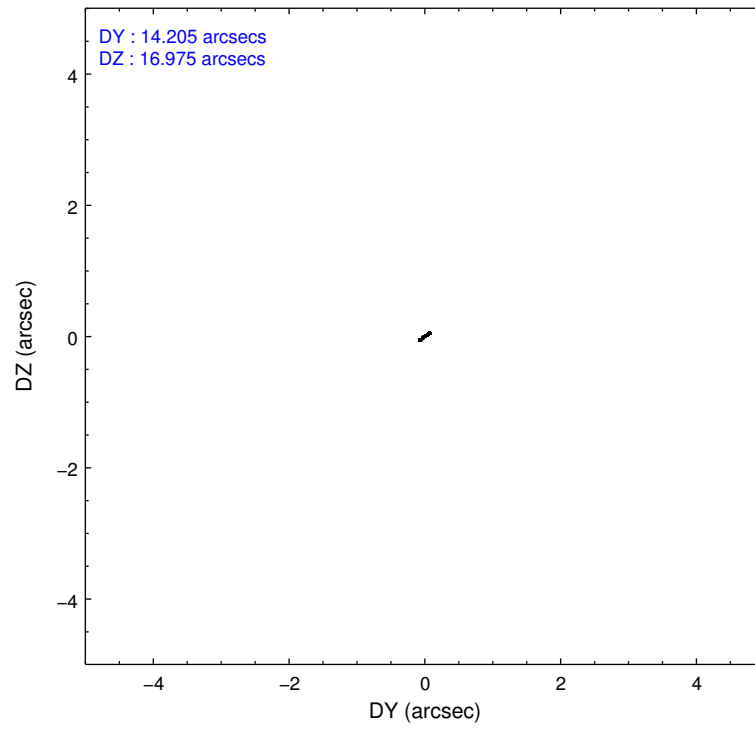
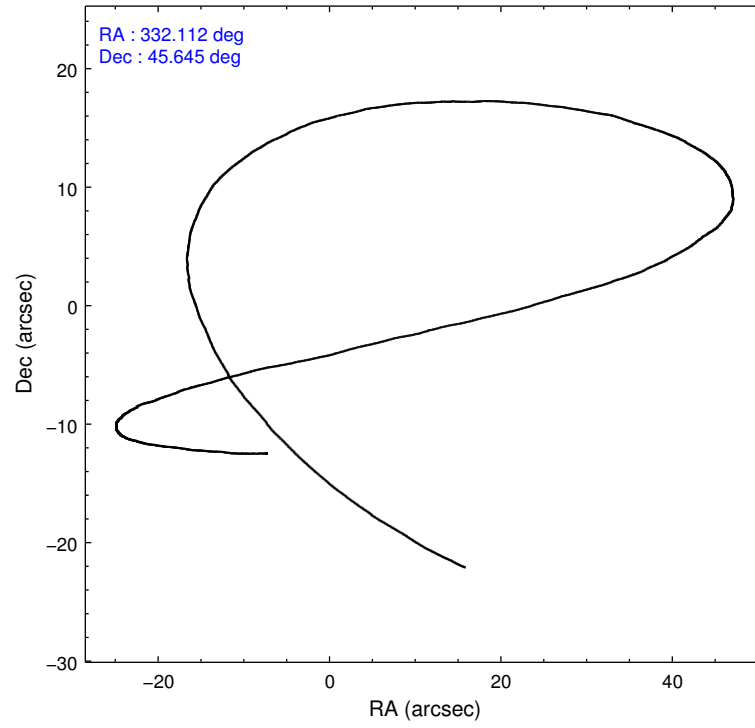
	segment 1	segment 2	segment 3
level 1 events	819	83745	734
rejected events	819	19452	734
rejected %	100%	23%	100%

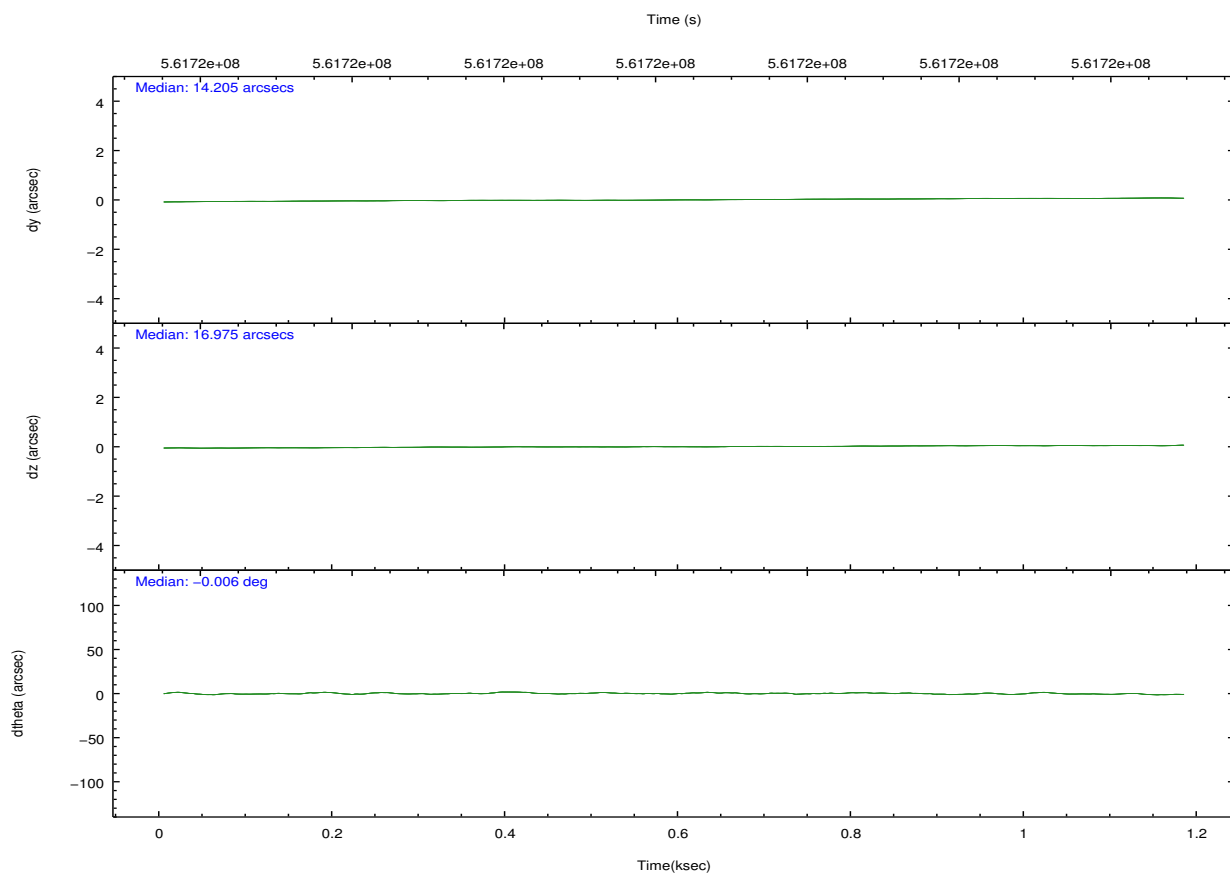
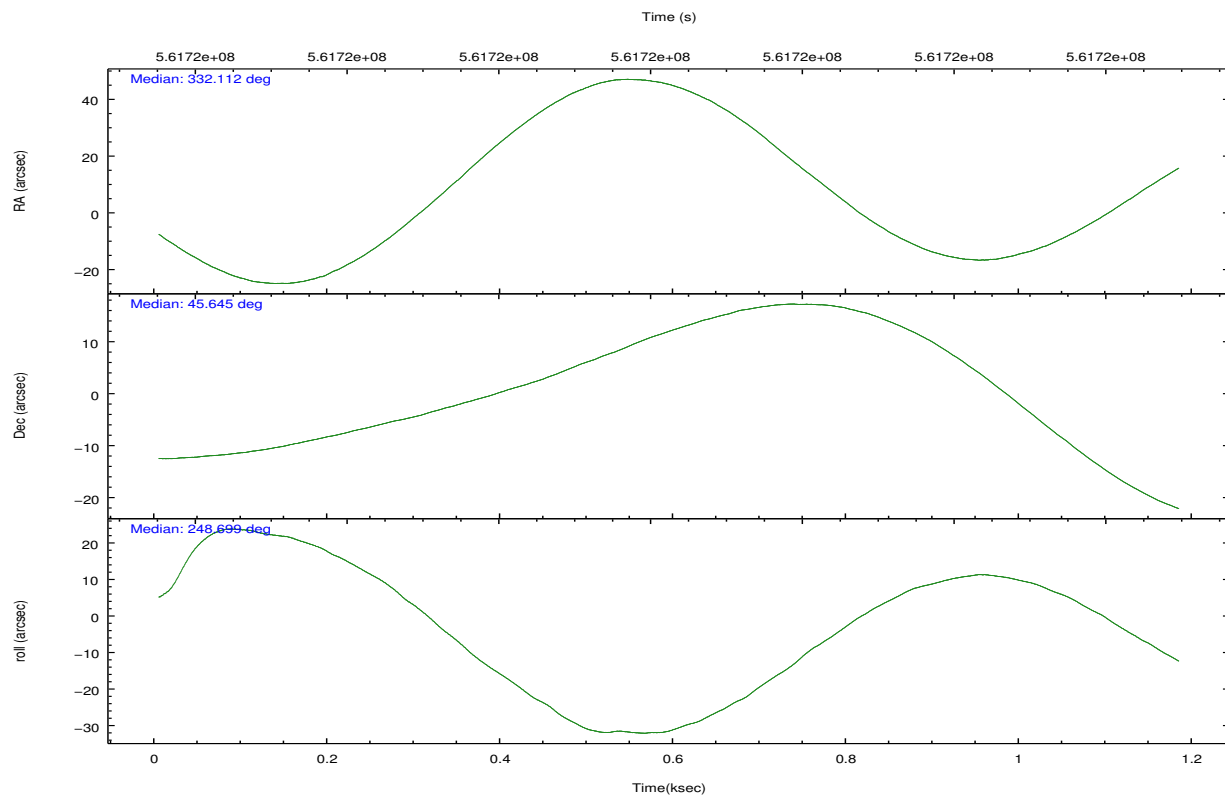
## 2.2 Compared Parameters

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	332.106990	332.1136997469509
[deg] Pointing Dec	45.672897	45.64457081186738
[deg] Pointing Roll	248.638190	248.7007413086565
[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)	561719803.184000	561719427.60943
Observation start date	2015-10-20T09:15:35	2015-10-20T09:10:27
[s] Observation end time (MET)	561720803.184000	561720936.92202
Observation end date	2015-10-20T09:32:15	2015-10-20T09:35:36

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

## 2.3 Aspect





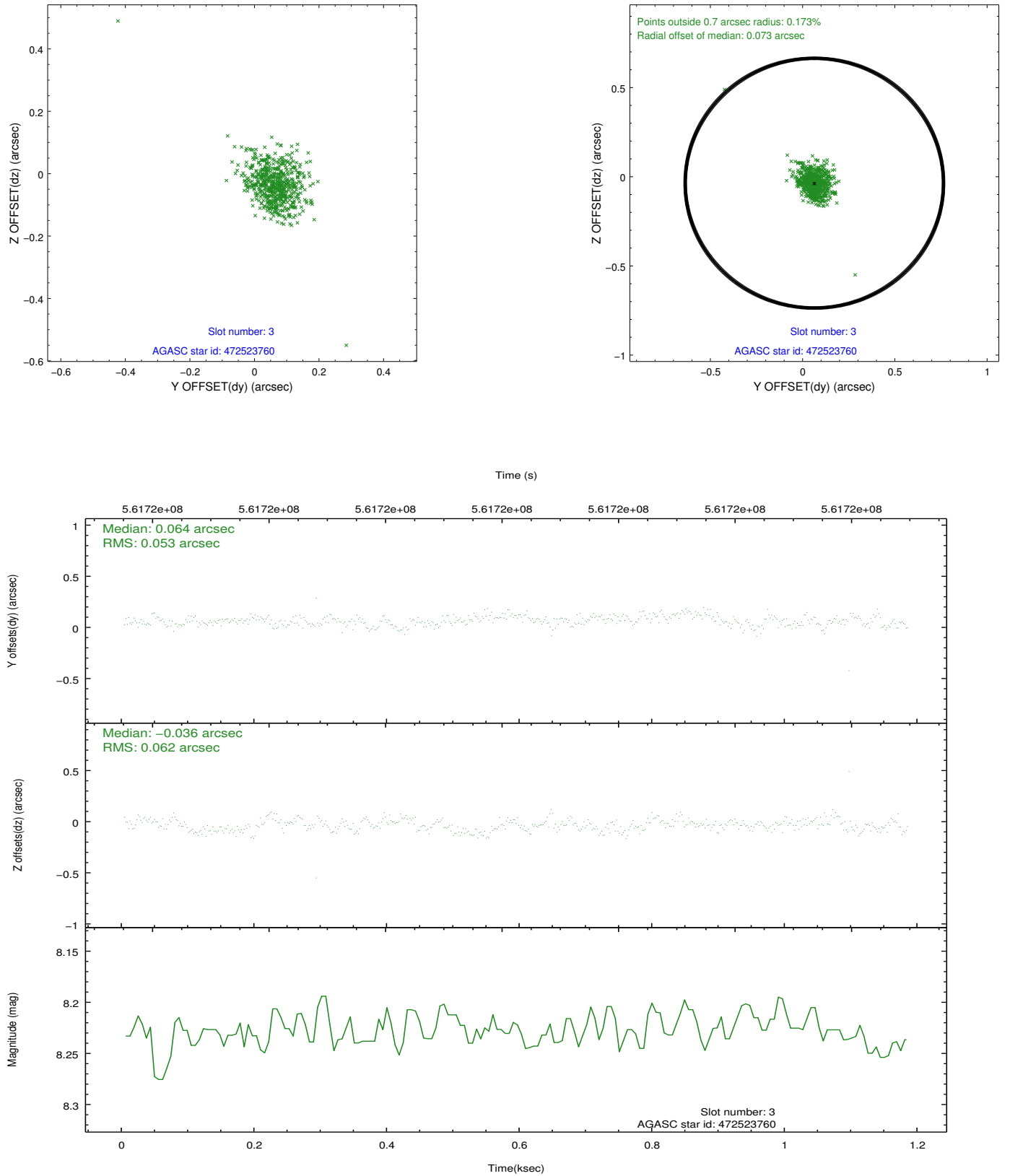
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-2	7.01	288	0.186	-0.171	0.007	0.013	0.000000	0.000000	1231.21	-458.49
1	FID		HRC-S-3	7.02	288	-0.052	-0.077	0.005	0.008	0.000000	0.000000	-1167.17	562.09
2	FID		HRC-S-4	6.97	288	0.271	-0.049	0.007	0.014	0.000000	0.000000	1225.78	568.31
3	GUIDE	used	472523760	8.23	577	0.064	-0.036	0.079	0.128	331.645363	45.403260	1325.12	-730.61
4	GUIDE	used	472535576	7.84	577	-0.021	0.079	0.075	0.131	331.438373	46.291802	-1474.36	-2360.58
5	GUIDE	used	472536328	8.10	577	0.014	0.083	0.082	0.135	331.496671	46.454831	-2079.15	-2437.58
6	GUIDE	used	472533912	9.12	577	0.088	0.057	0.133	0.212	331.791136	46.368695	-2052.95	-1644.20
7	GUIDE	used	472655152	9.40	576	-0.142	-0.183	0.152	0.262	332.504239	45.862991	-1007.00	678.19

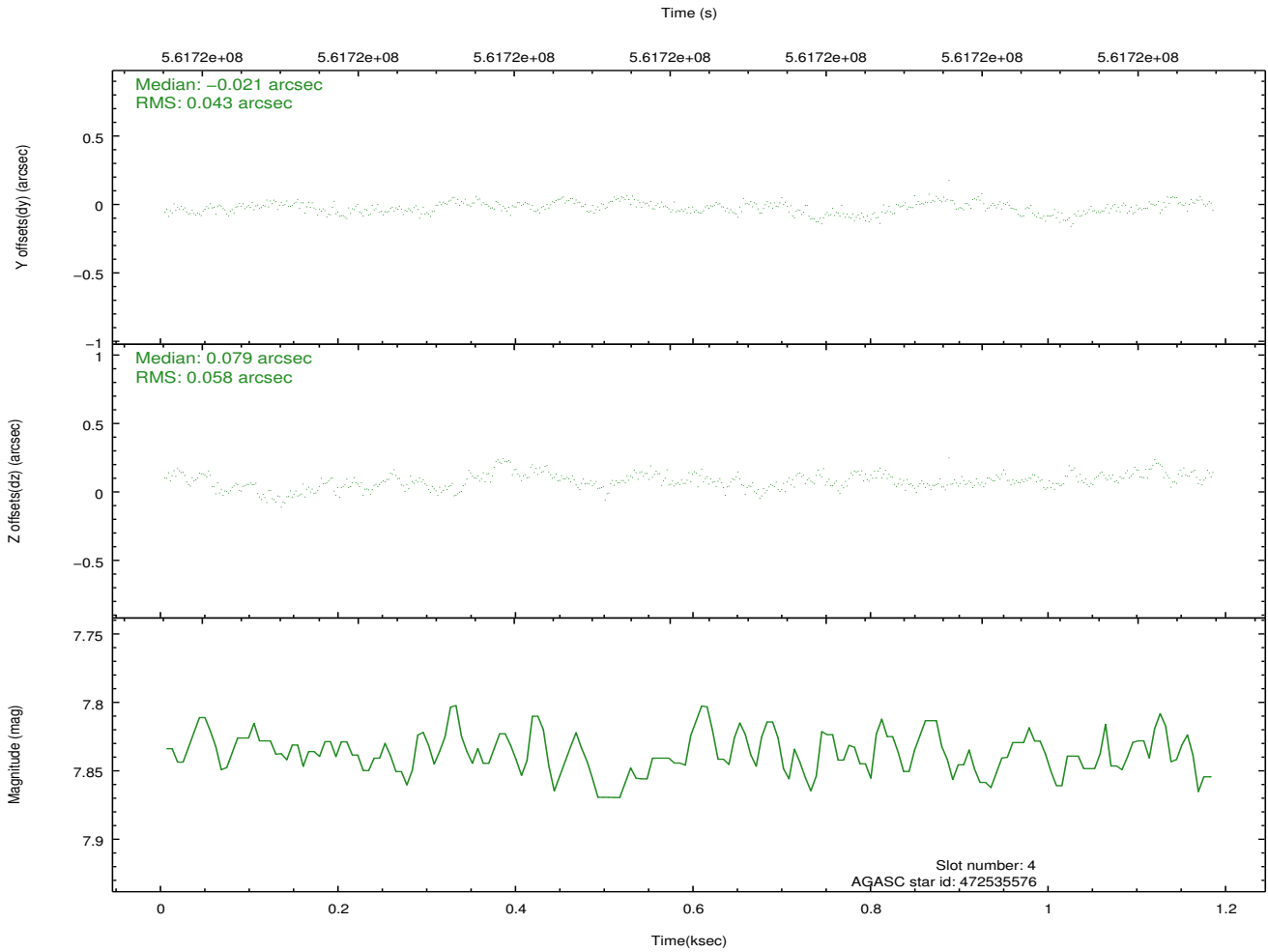
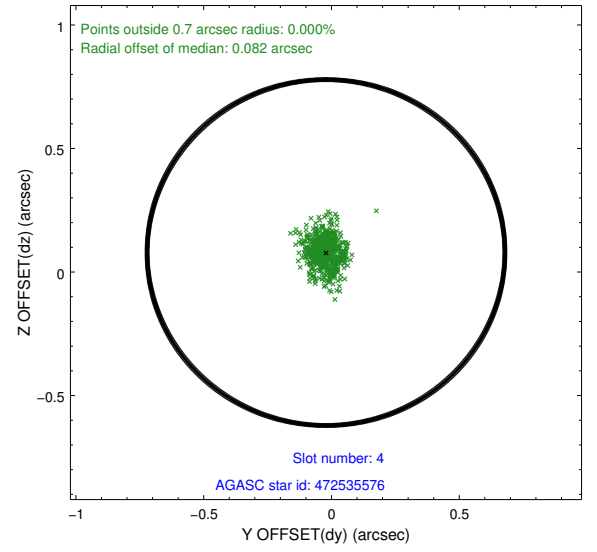
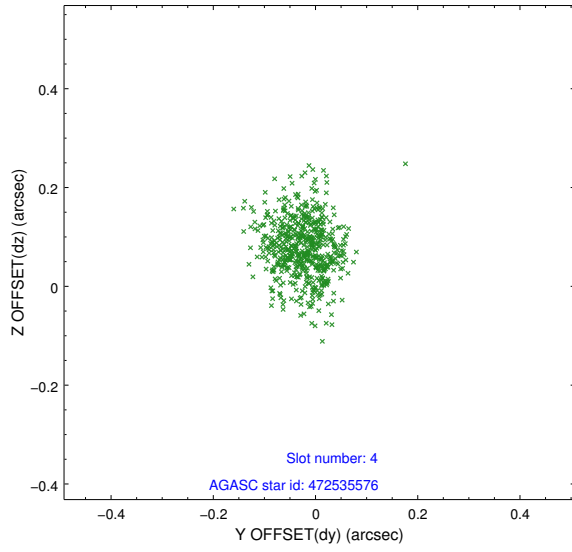


## 2.4 Star Slots

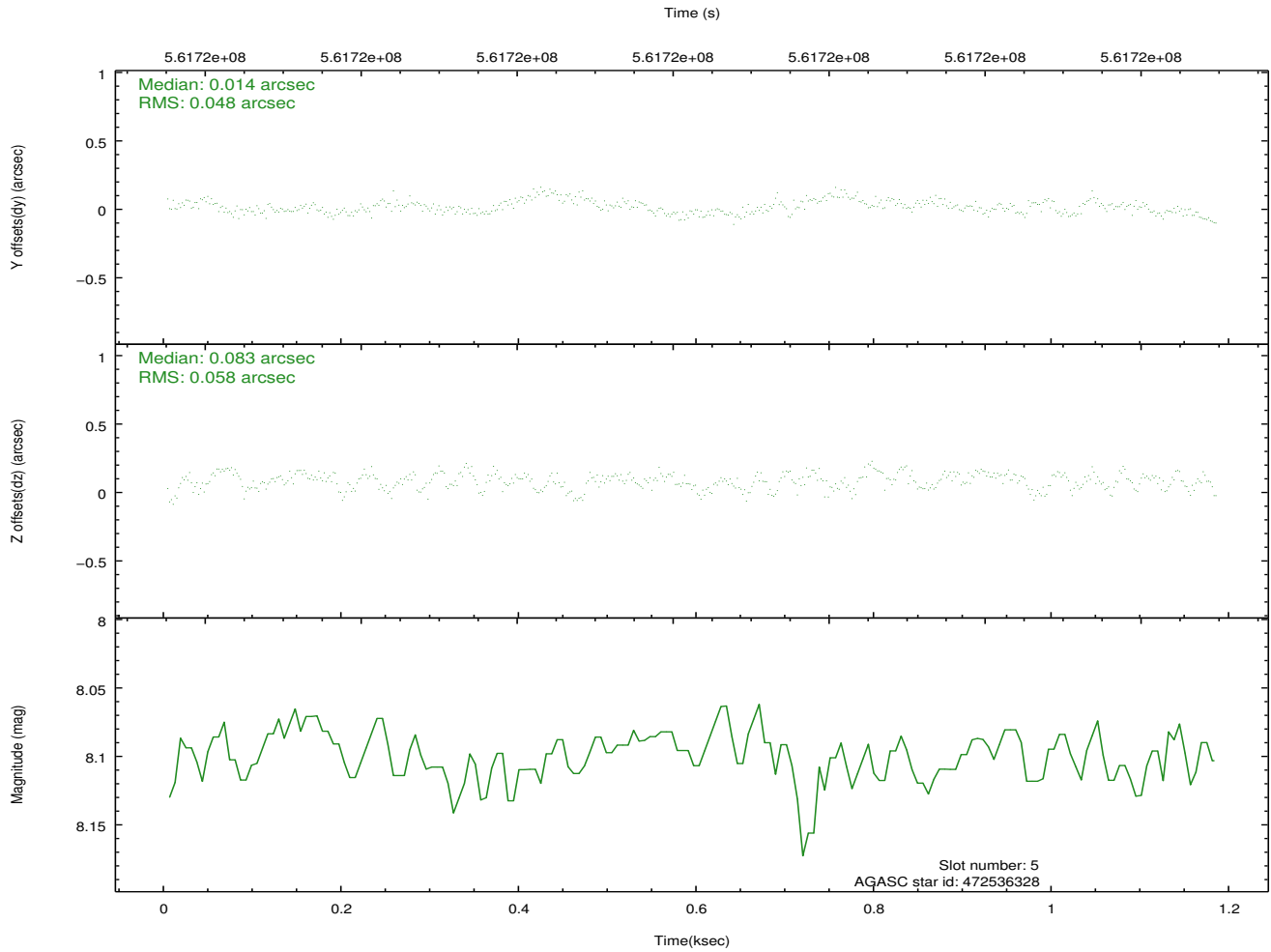
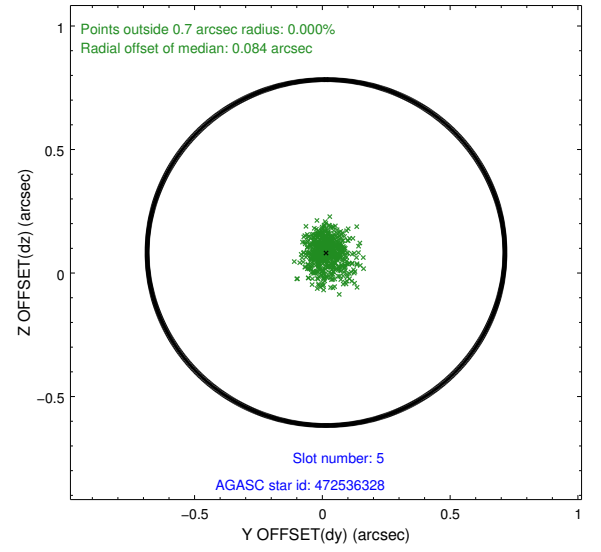
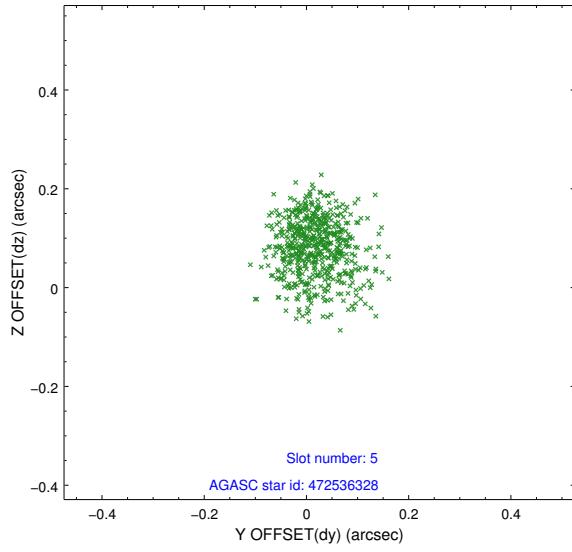
### 2.4.1 Slot 3



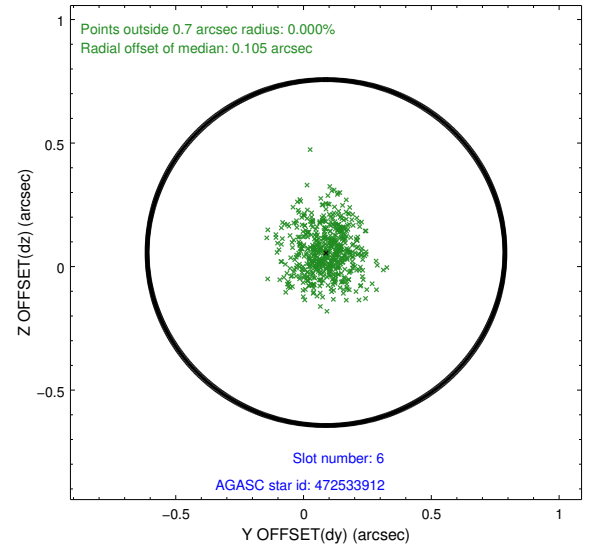
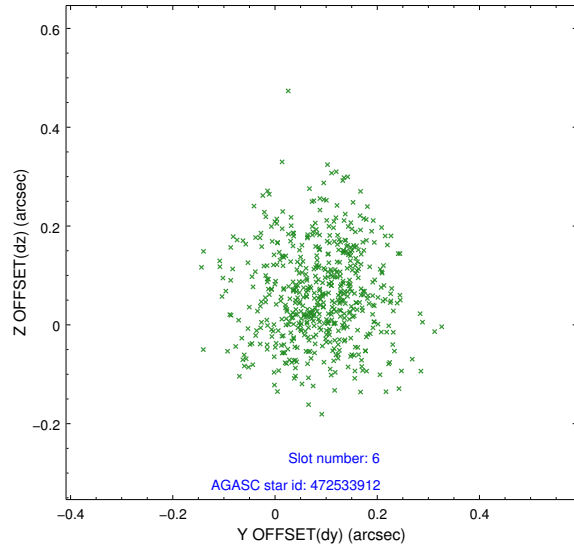
## 2.4.2 Slot 4



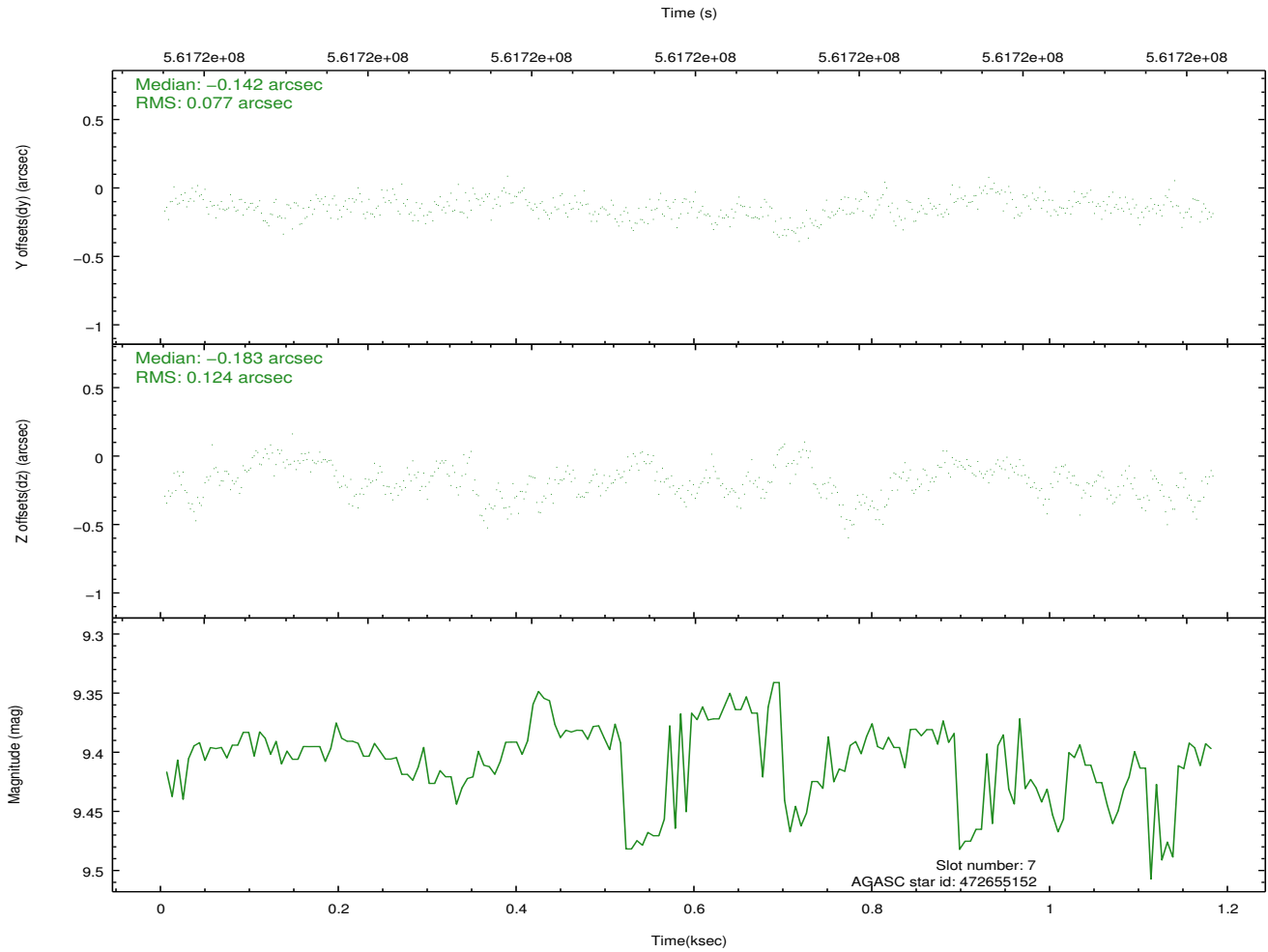
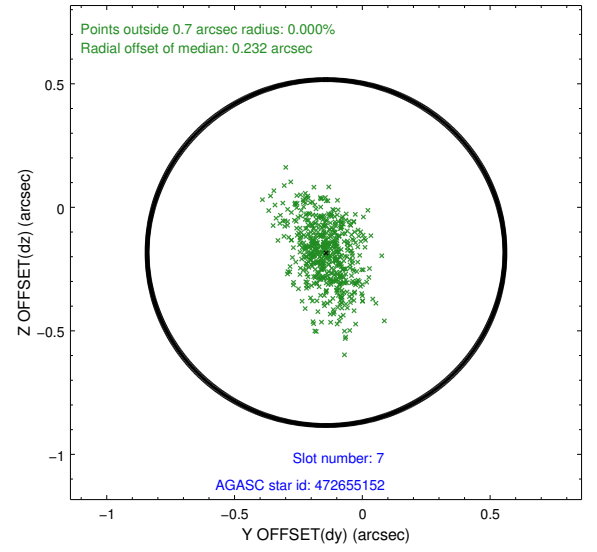
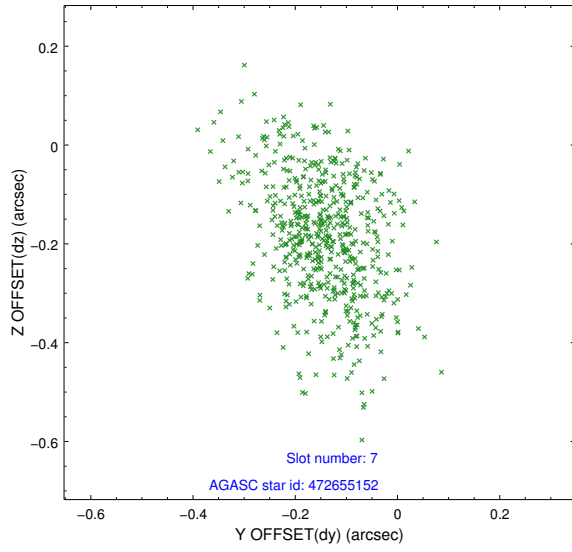
### 2.4.3 Slot 5



## 2.4.4 Slot 6

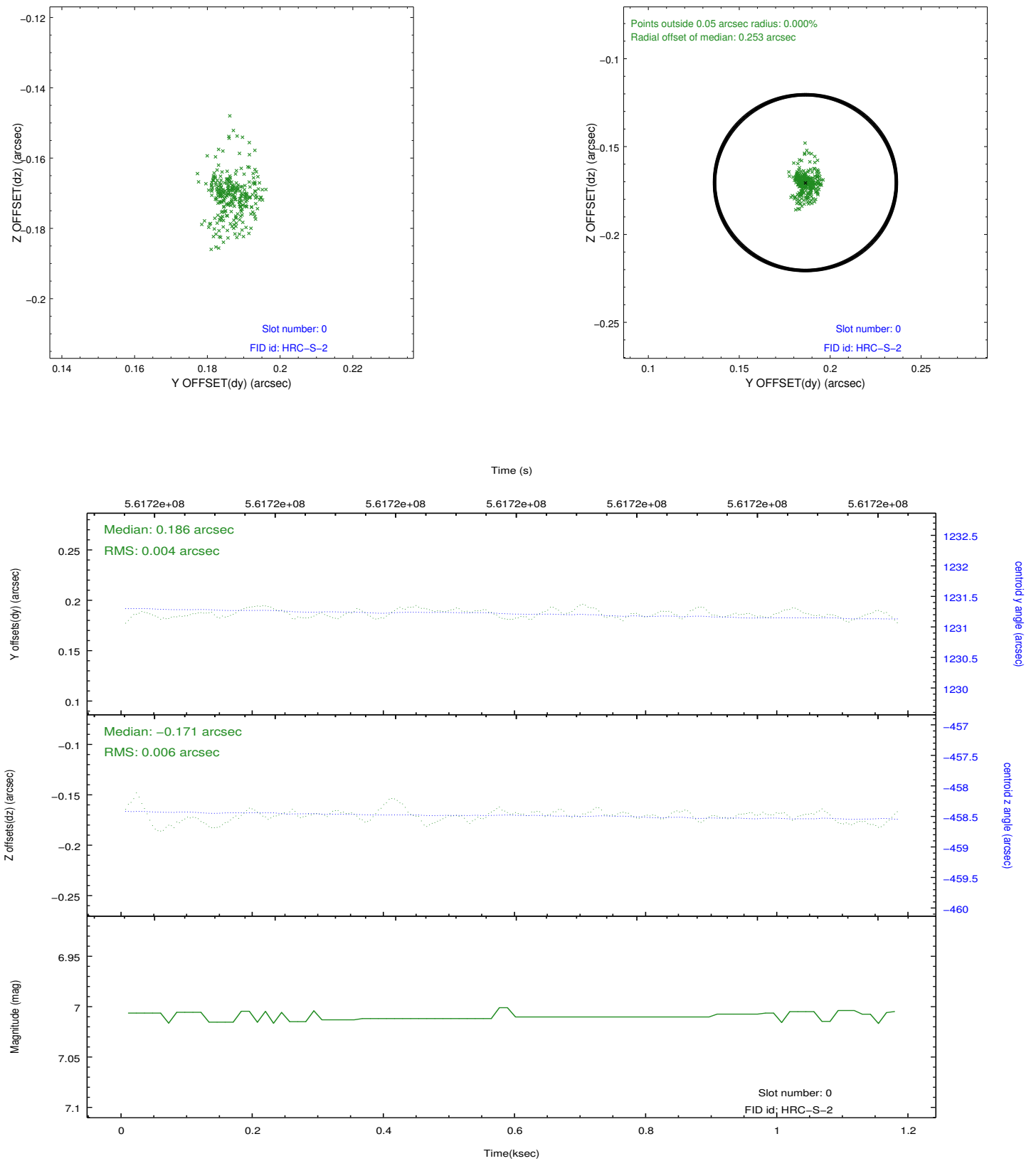


## 2.4.5 Slot 7

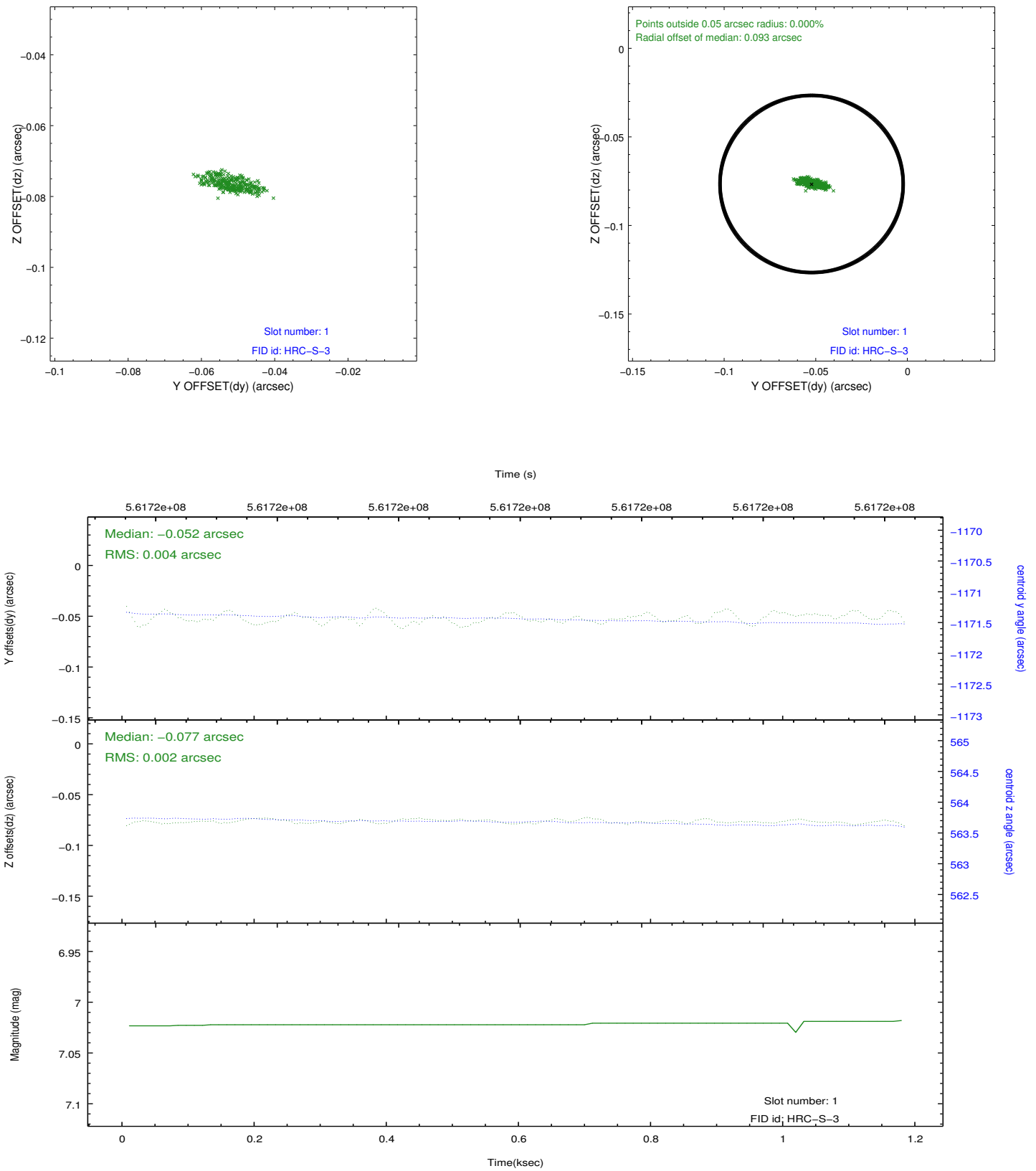


## 2.5 FID Slots

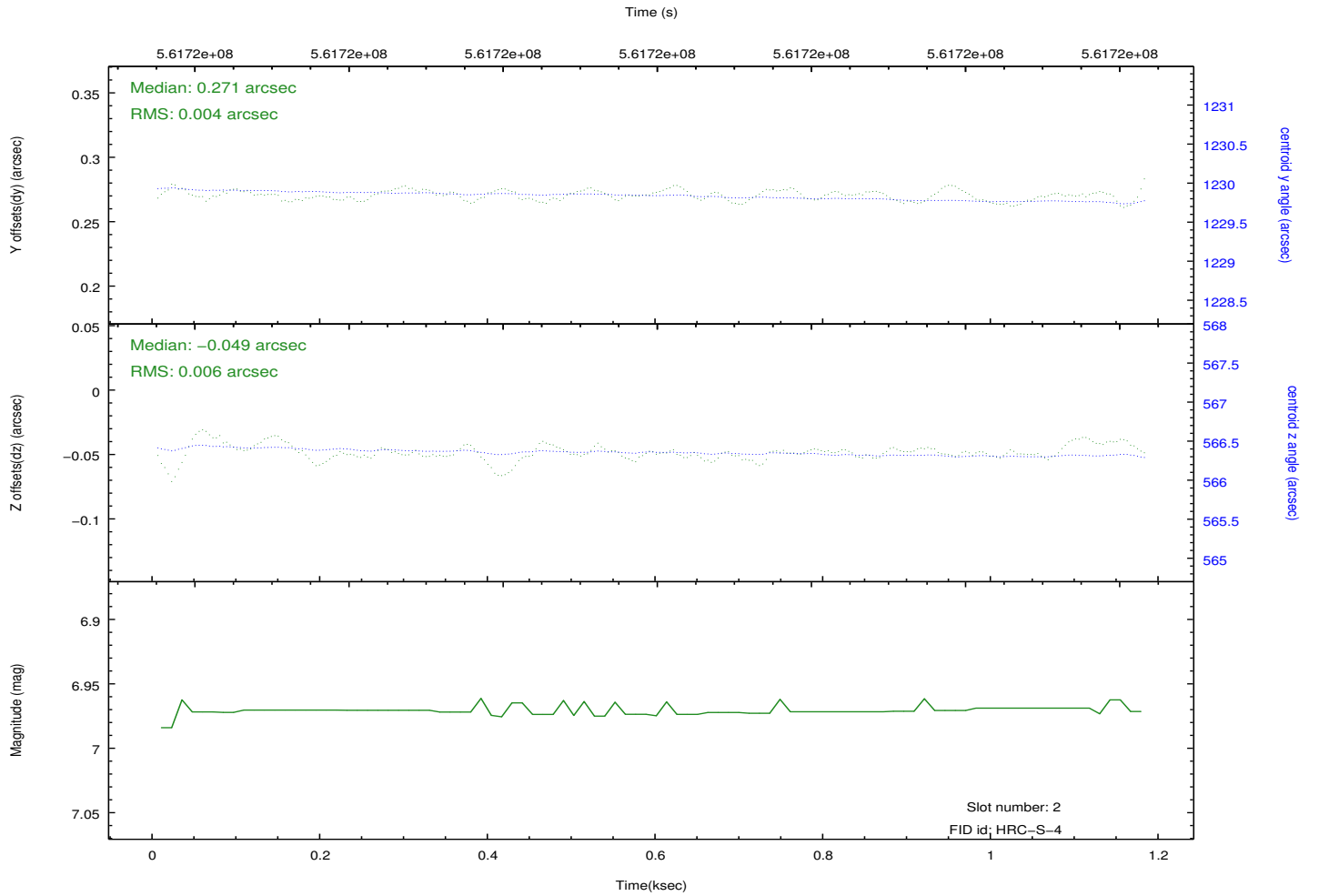
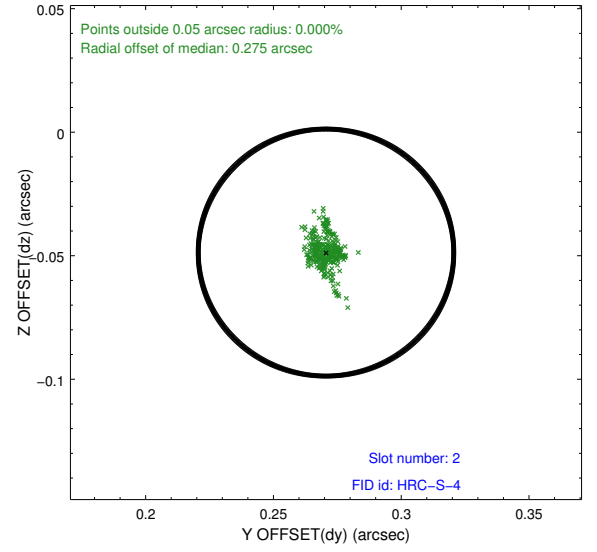
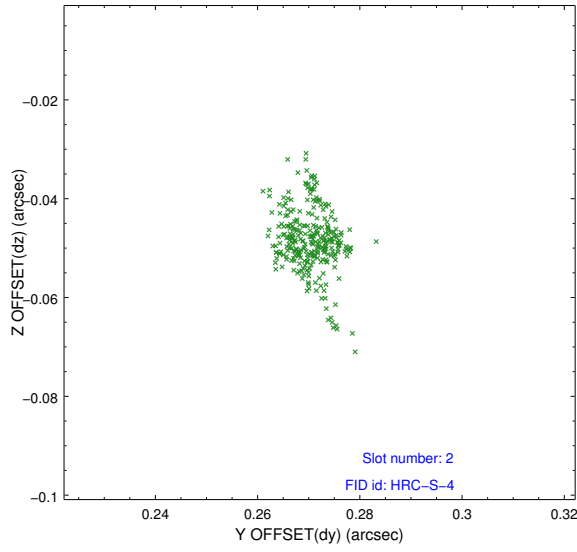
### 2.5.1 Slot 0



## 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	1.1510750652552

### A.2 Comments