

# V&V Reference Report

## L2 ASCDS Version : 10.5.1.1

Observation 18377 - L2 Version 1  
Chandra X-Ray Center

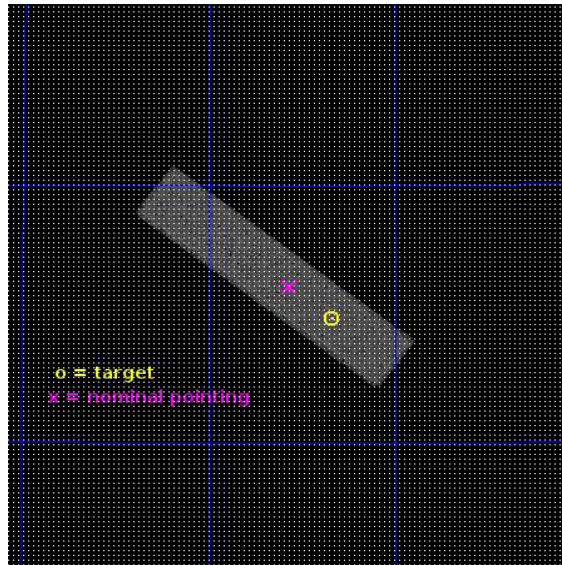
L2 Processing Date : Sep 23 2016

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# 1 Front

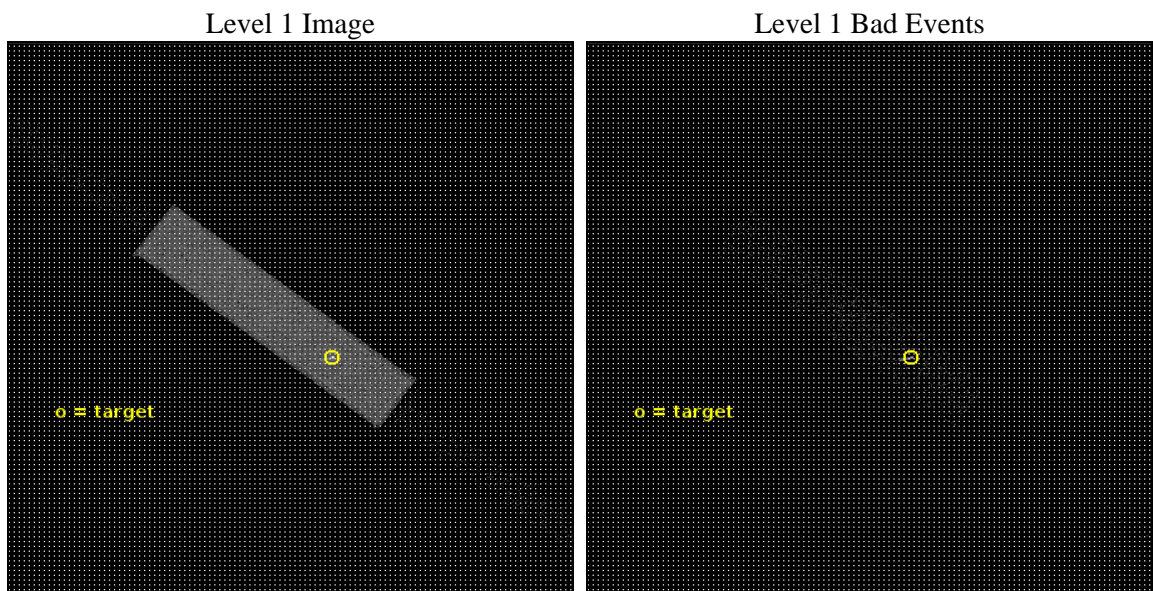
seq_num	291272	Sequence number
obs_id	18377	Observation id
title	AO-17 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.28327877383	Nominal RA [deg]
dec_nom	45.803302514839	Nominal Dec [deg]
roll_nom	216.89294621651	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1179.7750679255	[s]
livetime	1170.738761165	Ontime multiplied by DTCOR
l2events	70752	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	10.5.1.1	Processing system revision	ontime	1179.7750679255	[s]
caldsver	4.7.2	&#160	l1events	104707	Number of level 1 events
date	2016-09-23T18:34:42	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

Level 1 Events

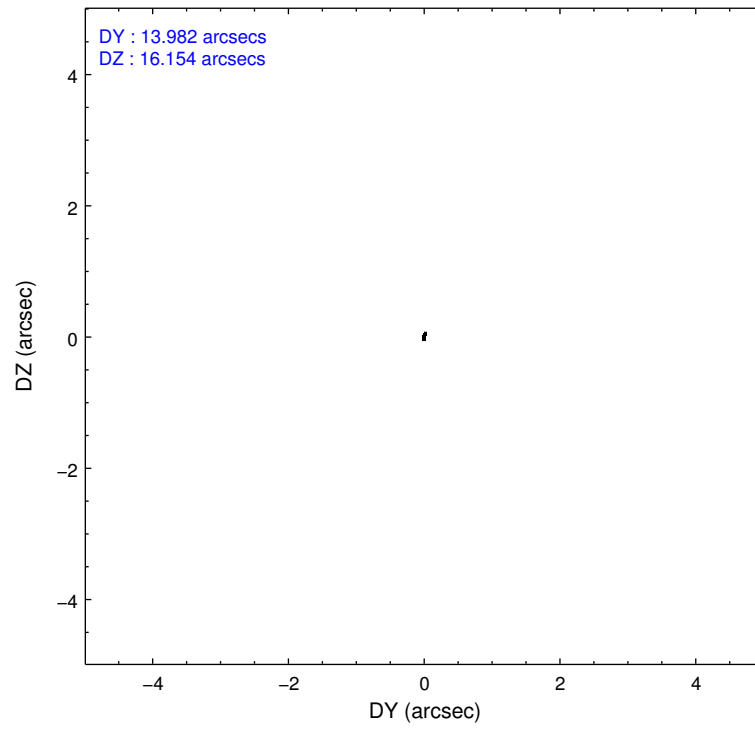
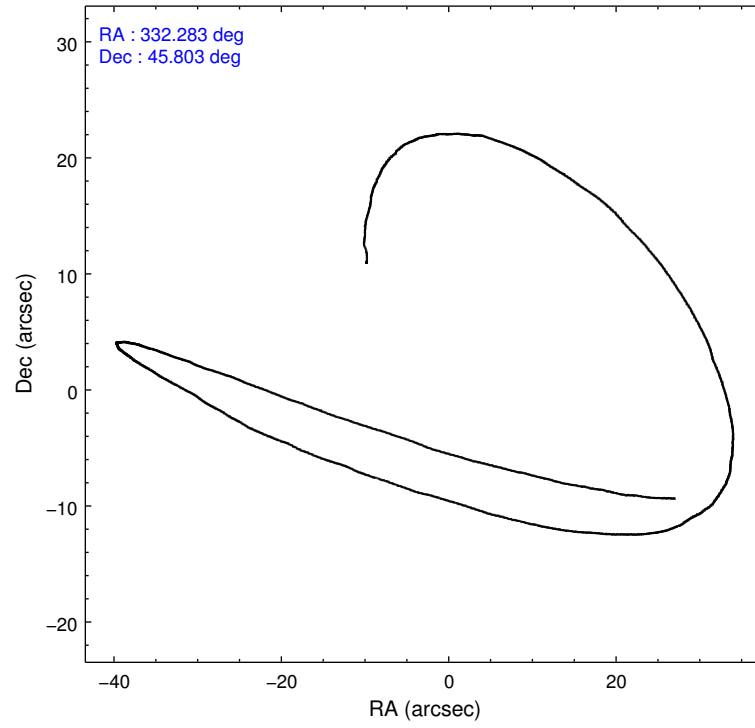
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	975	102841	891
rejected events	975	21354	891
rejected %	100%	20%	100%

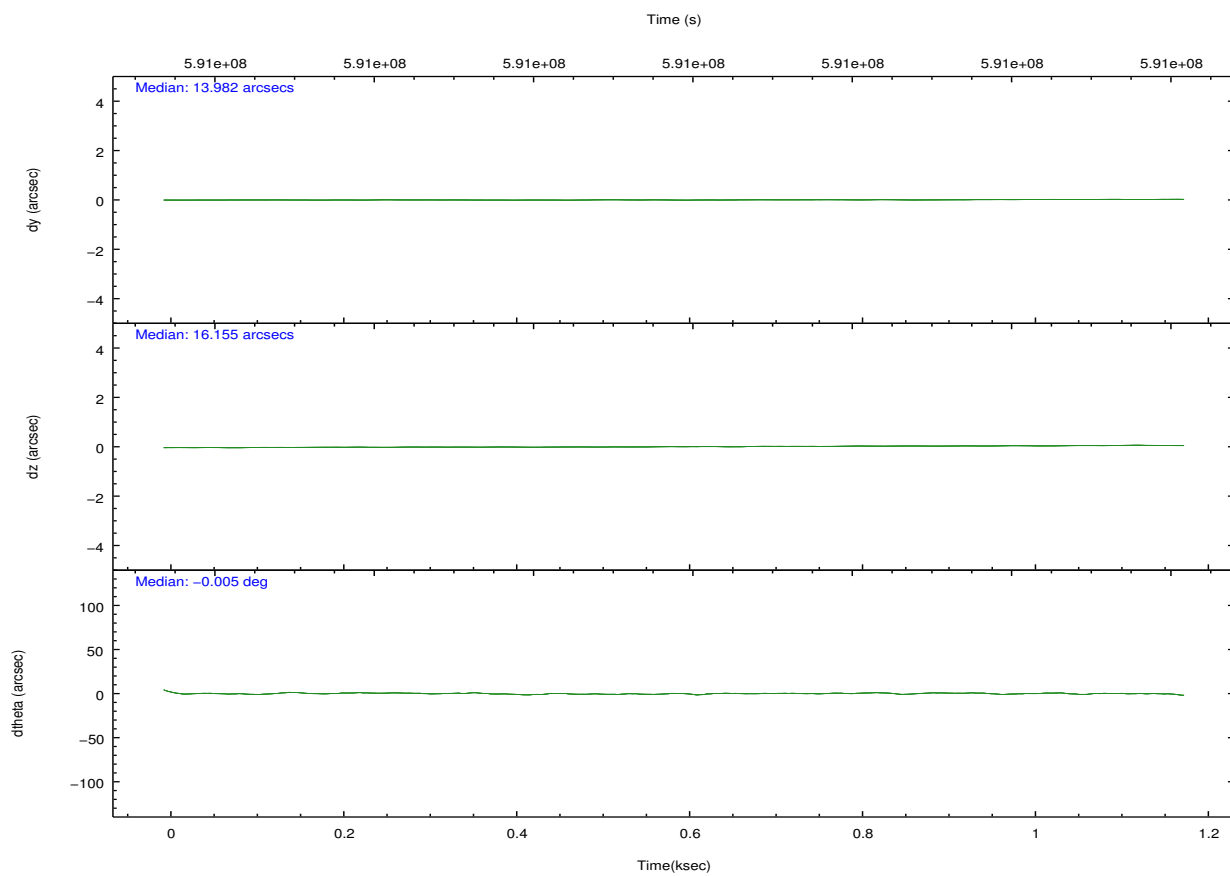
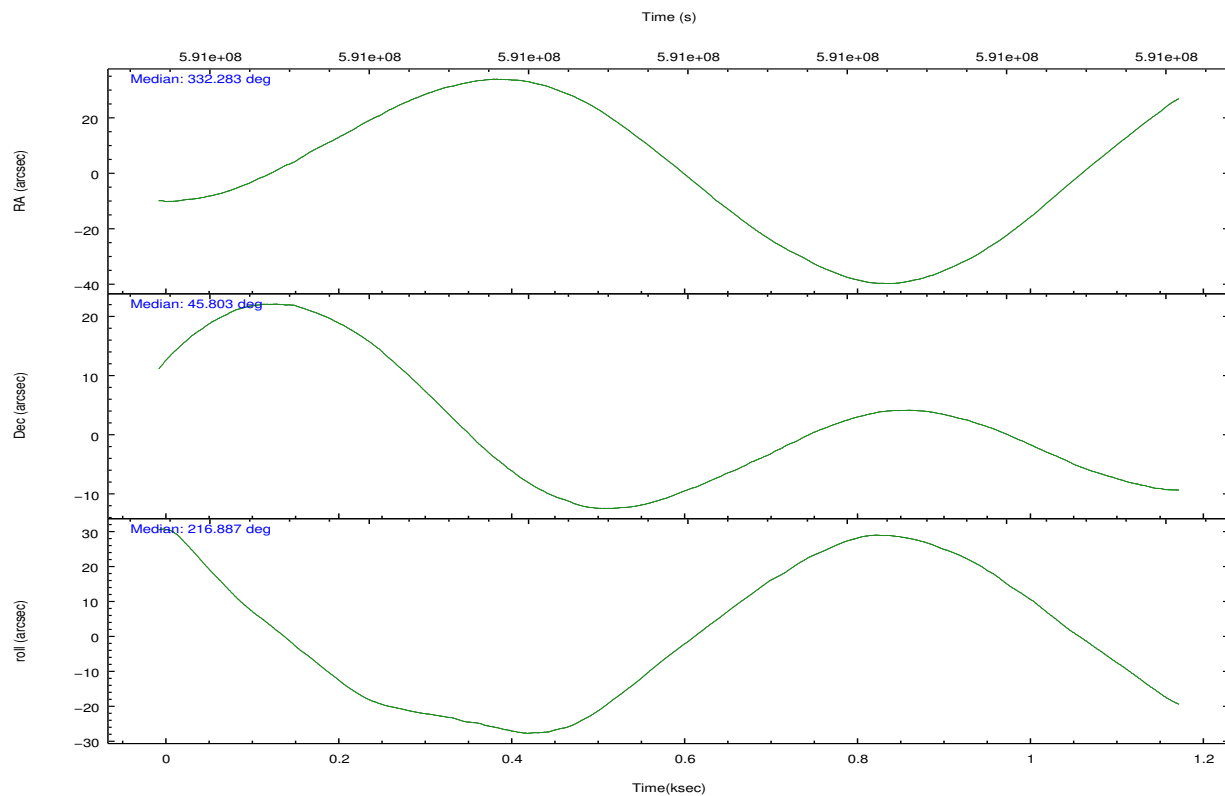
## 2.2 Compared Parameters

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	332.298034	332.2832787738288
[deg] Pointing Dec	45.829888	45.80330251483882
[deg] Pointing Roll	216.814862	216.89294621651
[mm] SIM focus pos	-1.533336	-1.526339935833849
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904
[mm] SIM translation stage pos	250.455976	250.4635187648994
[mm] SIM translation stage offset	0	-0.007540371344731511
[s] Observation start time (MET)	591001772.184000	591001396.54117
Observation start date	2016-09-23T07:08:24	2016-09-23T07:03:16
[s] Observation end time (MET)	591002772.184000	591002906.3662601
Observation end date	2016-09-23T07:25:04	2016-09-23T07:28:26

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

## 2.3 Aspect





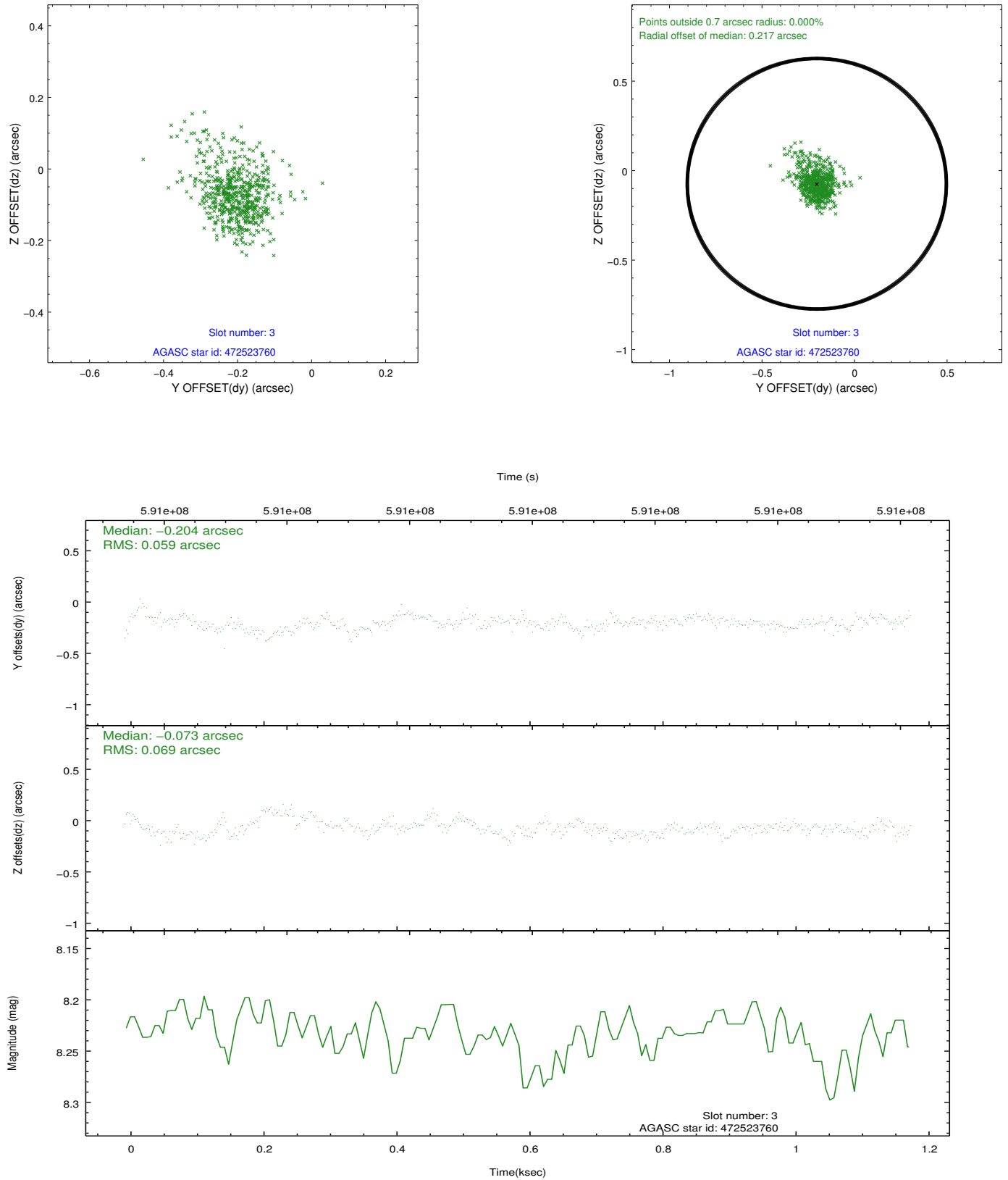
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.08	288	-0.029	-0.218	0.008	0.012	0.000000	0.000000	-1168.44	-465.08
1	FID		HRC-S-2	7.06	288	0.358	-0.130	0.005	0.008	0.000000	0.000000	1227.55	-459.18
2	FID		HRC-S-3	7.05	288	0.060	0.047	0.008	0.012	0.000000	0.000000	-1166.84	563.11
3	GUIDE	used	472523760	8.23	577	-0.204	-0.073	0.092	0.165	331.645363	45.403260	2237.62	238.01
4	GUIDE	used	472533912	9.14	577	0.304	0.281	0.138	0.219	331.791136	46.368695	-151.64	-2307.71
5	GUIDE	used	472651904	6.13	577	-0.296	-0.361	0.120	0.181	332.170077	45.742257	446.54	56.46
6	GUIDE	used	472655152	9.41	577	0.058	-0.132	0.174	0.312	332.504239	45.862991	-484.20	216.20
7	GUIDE	used	472665256	9.00	575	0.127	0.273	0.131	0.261	332.808125	46.195041	-1807.85	-291.17

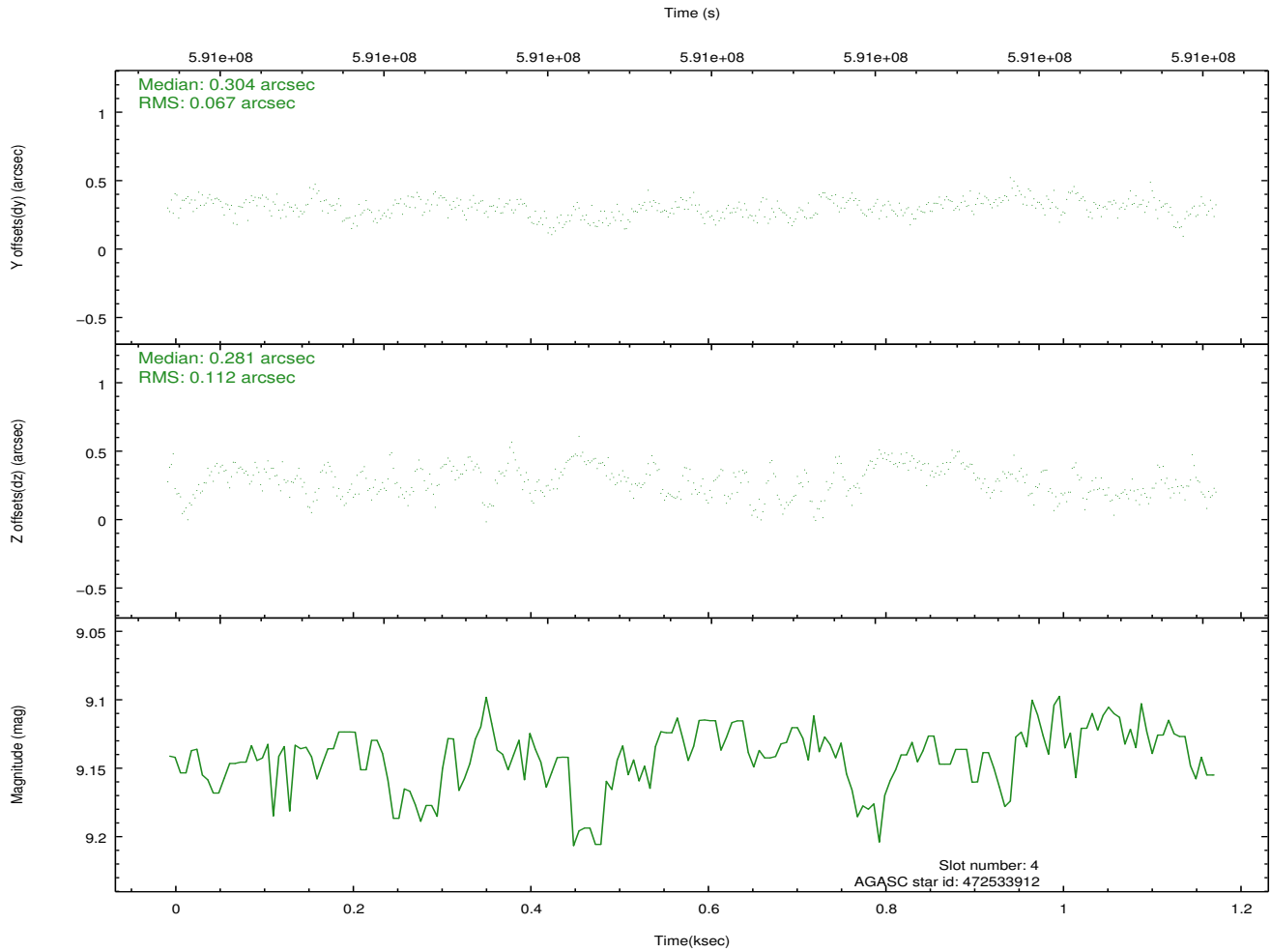
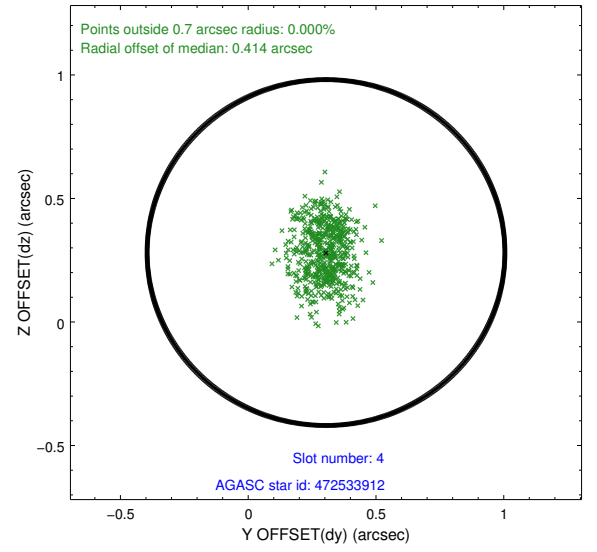
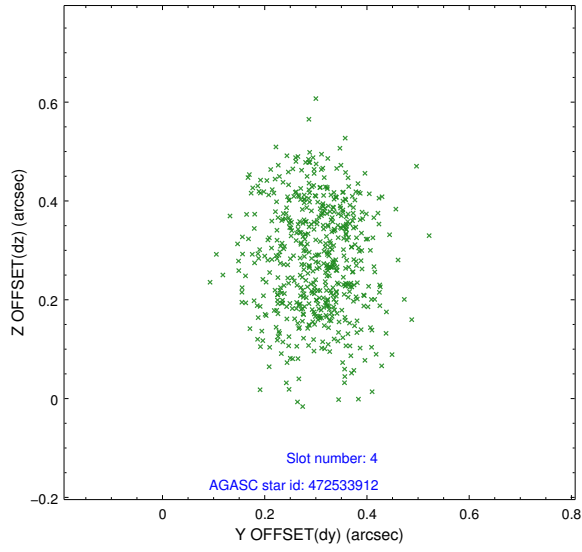


## 2.4 Star Slots

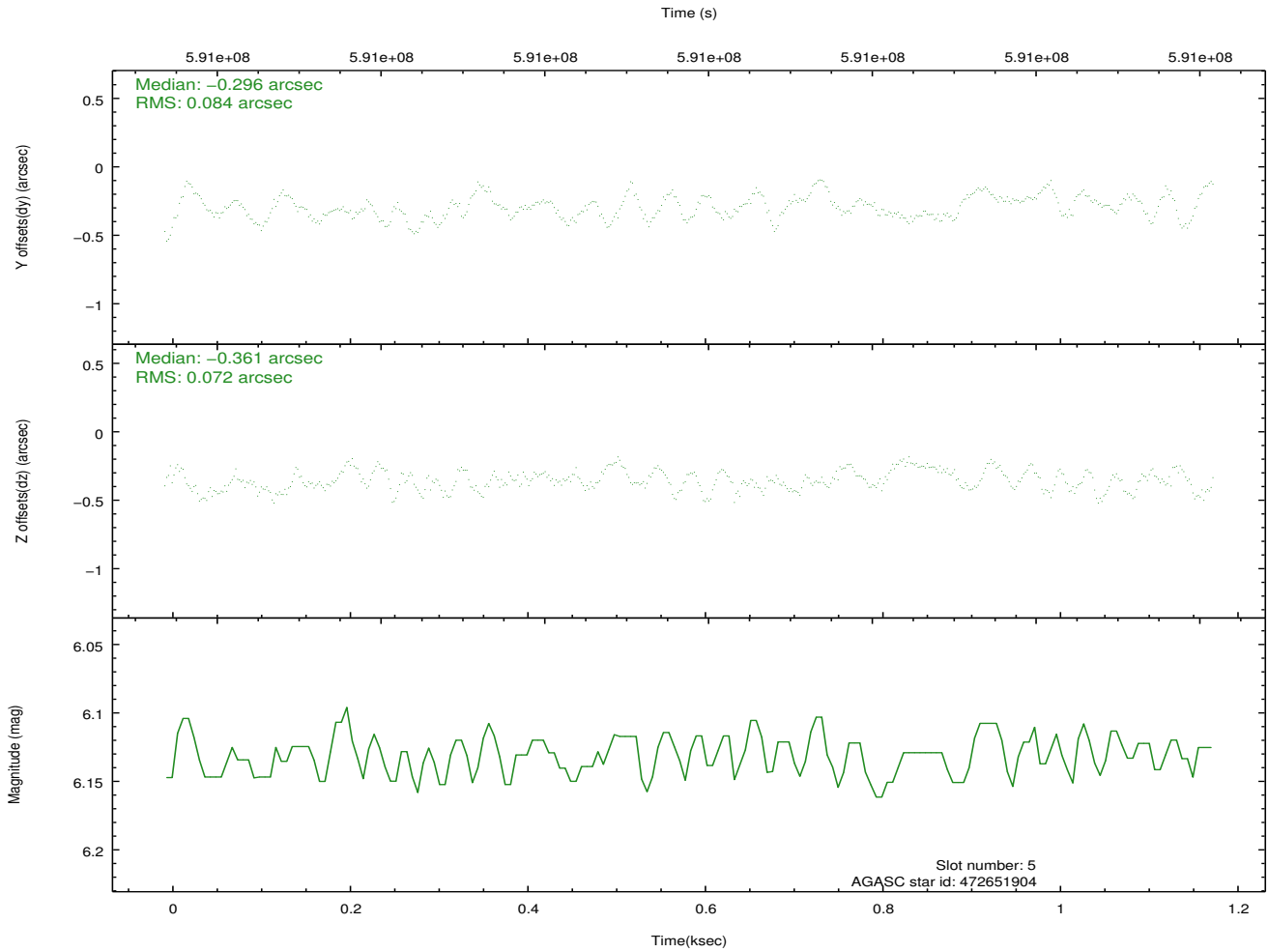
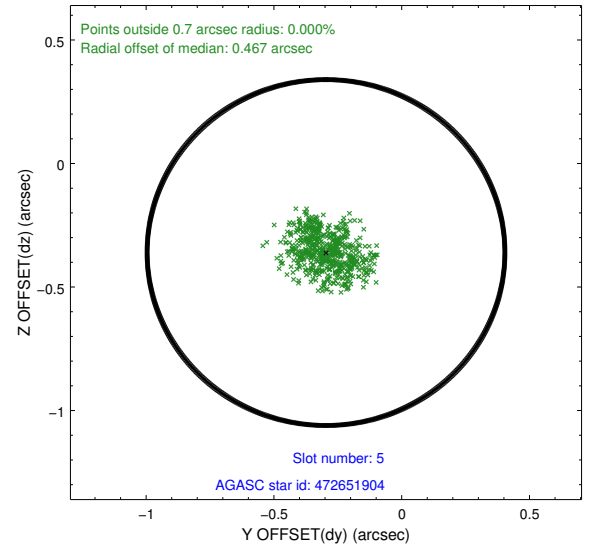
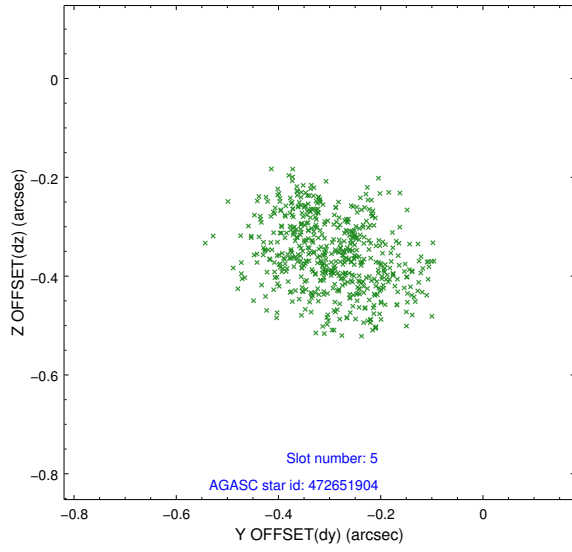
### 2.4.1 Slot 3



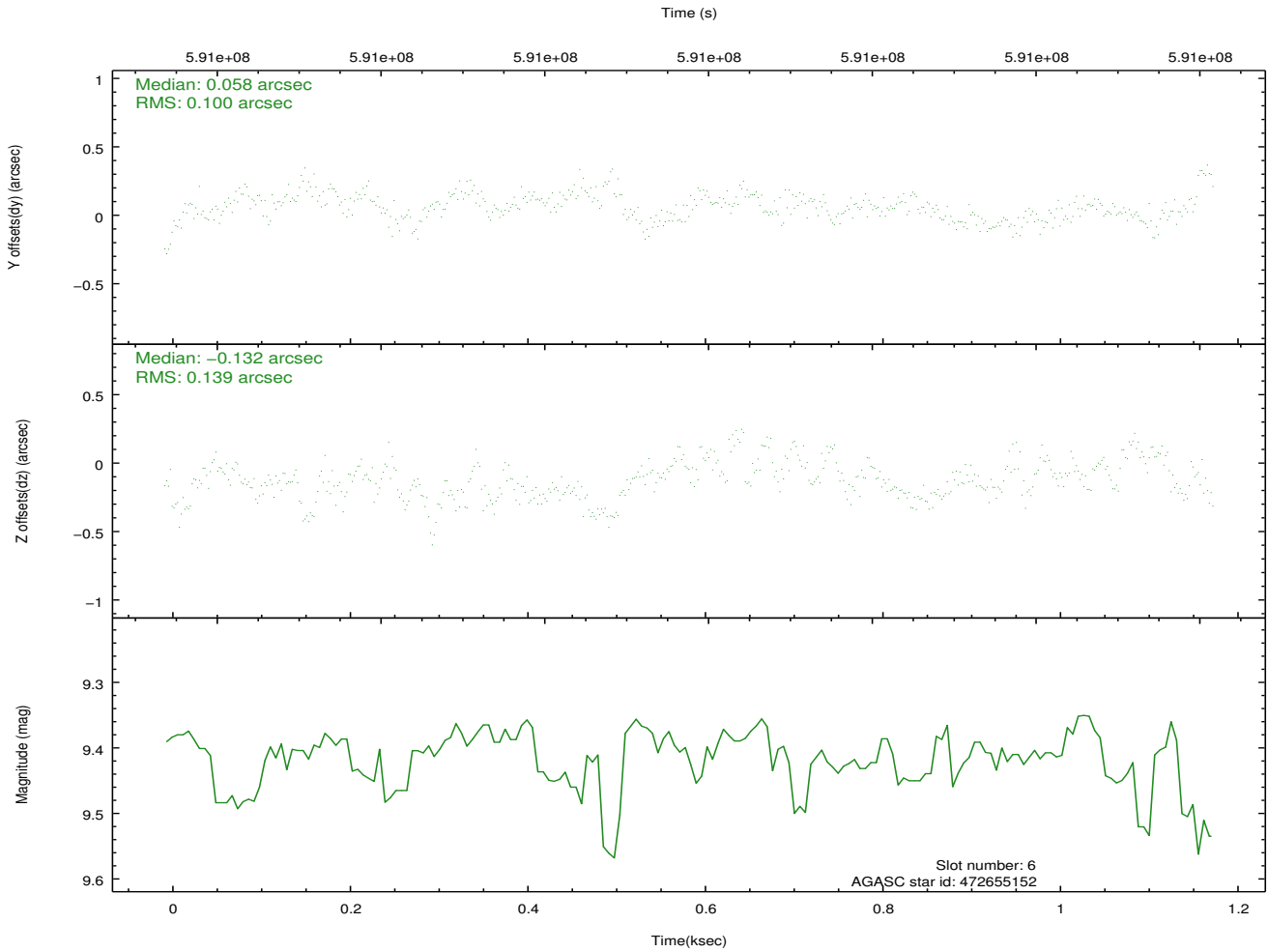
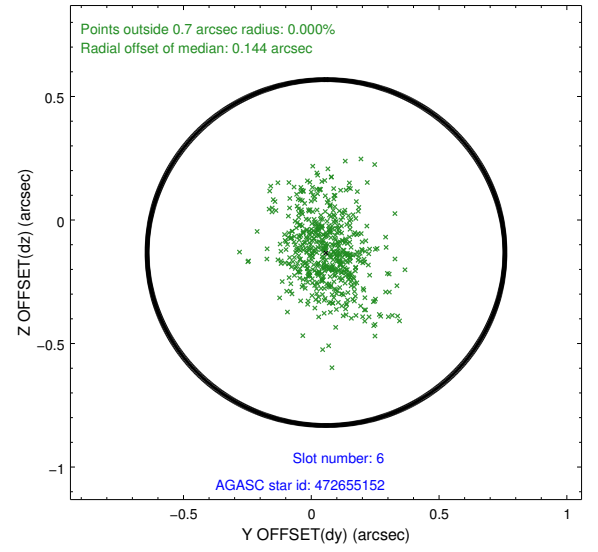
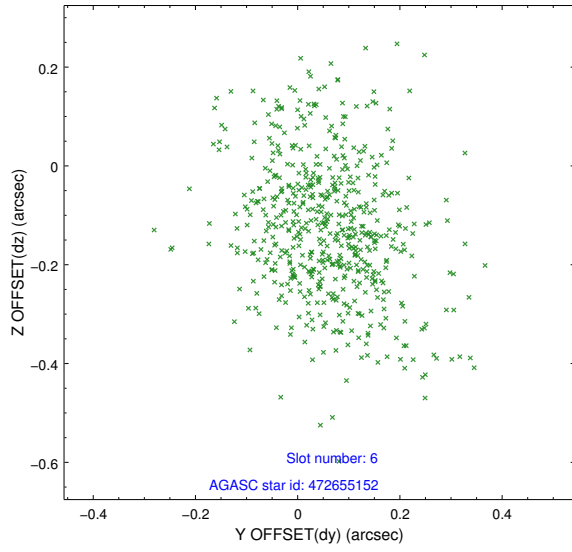
## 2.4.2 Slot 4



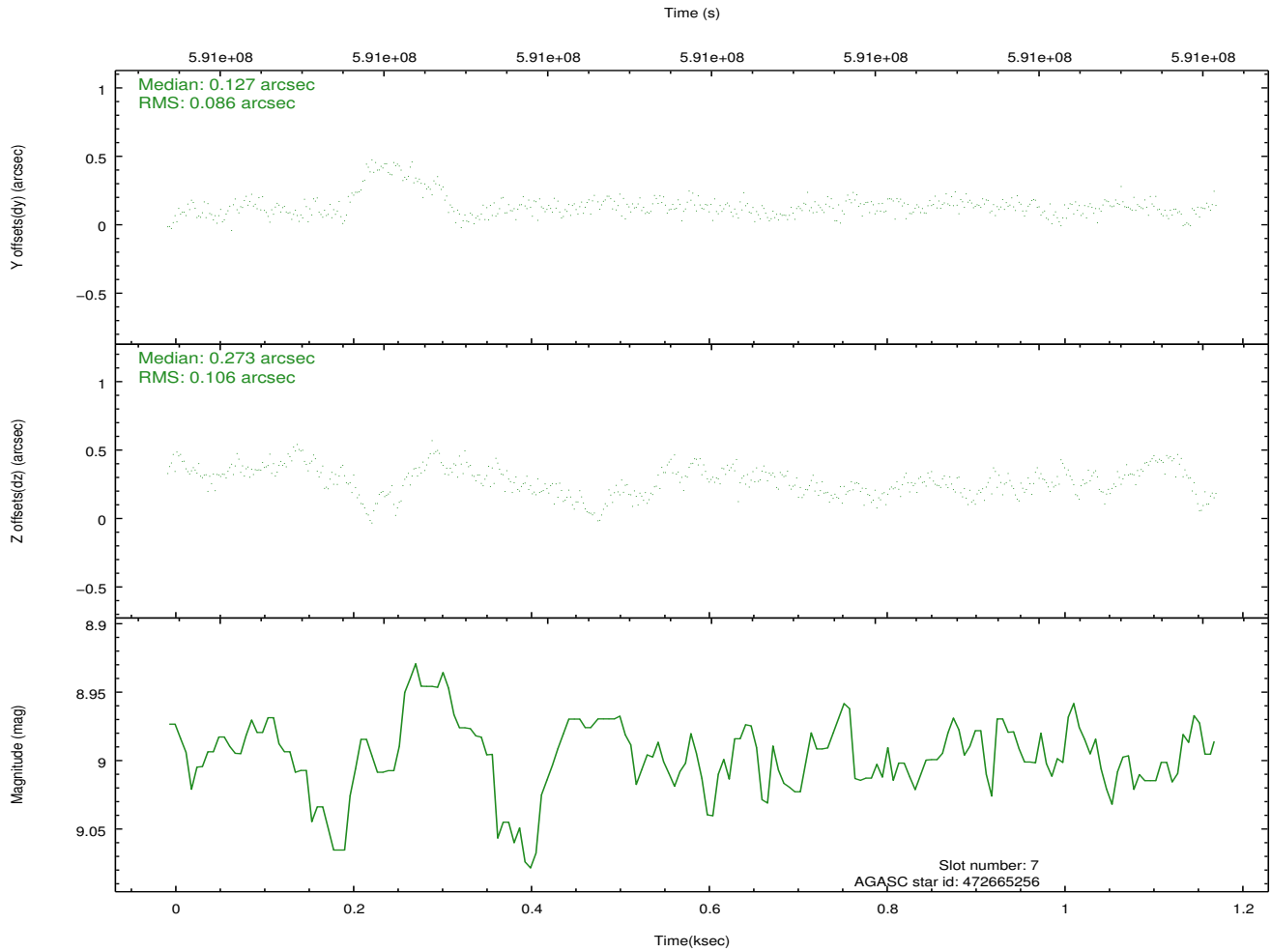
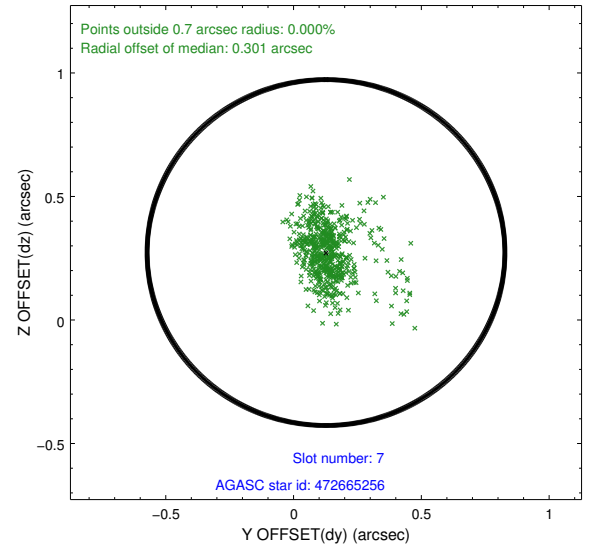
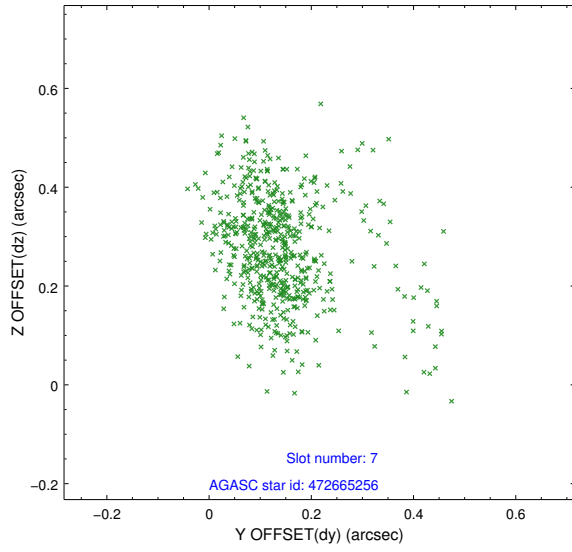
### 2.4.3 Slot 5



## 2.4.4 Slot 6

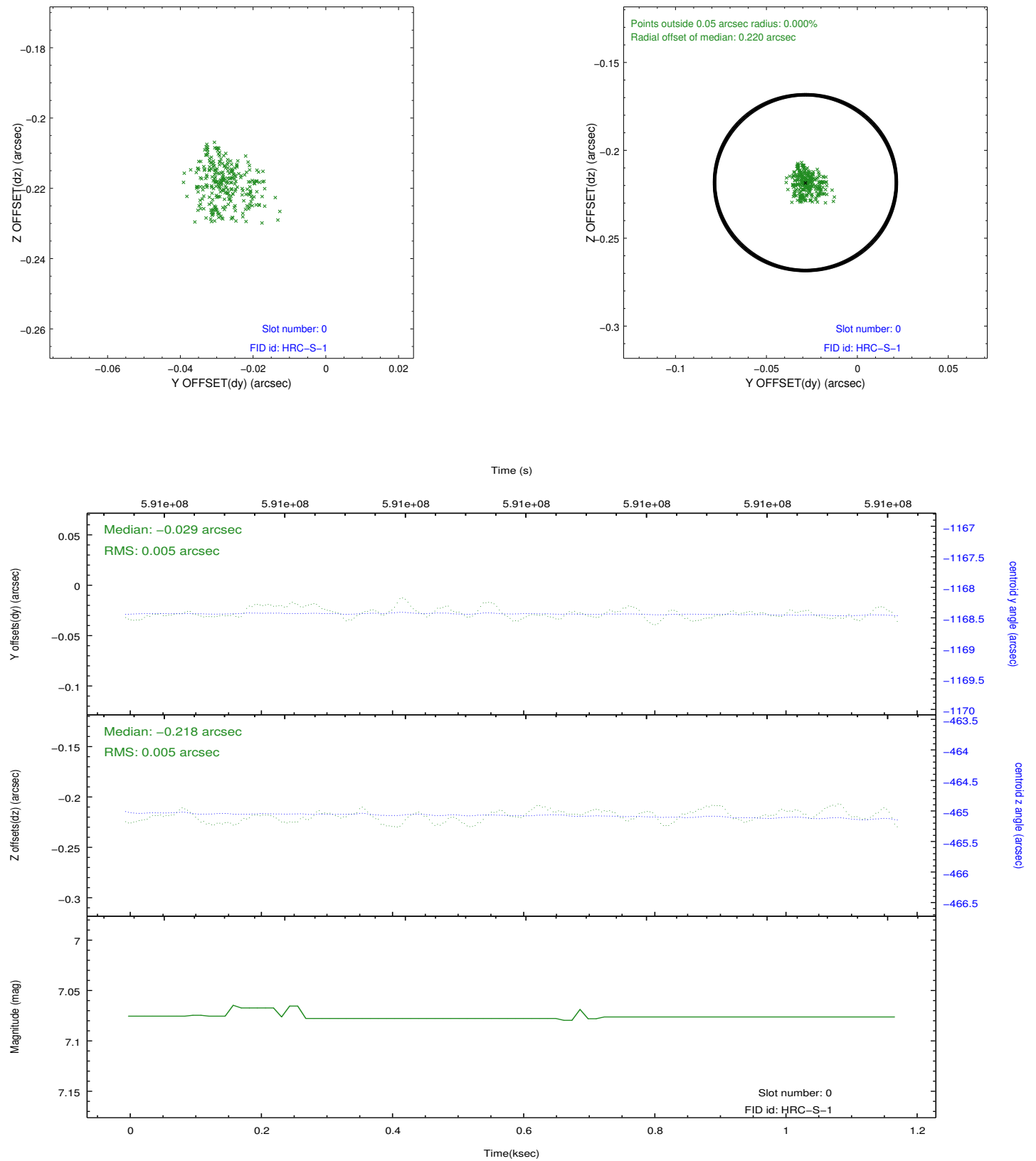


## 2.4.5 Slot 7

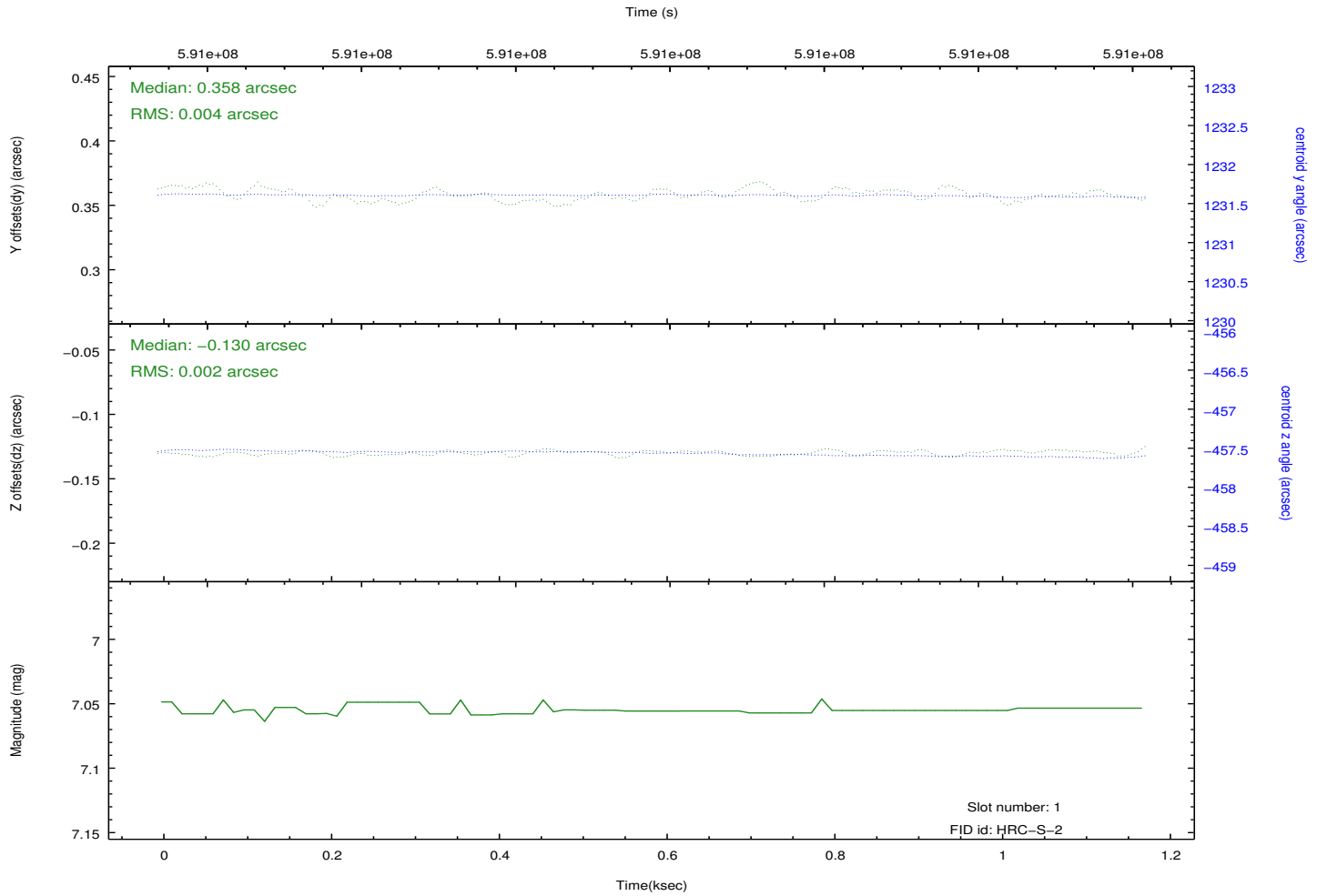
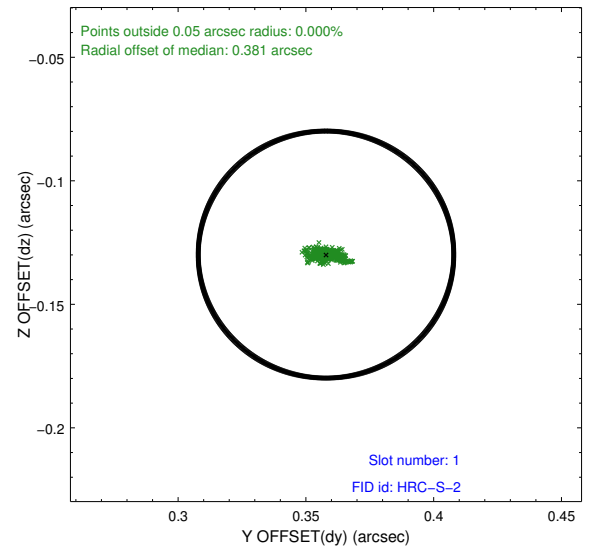
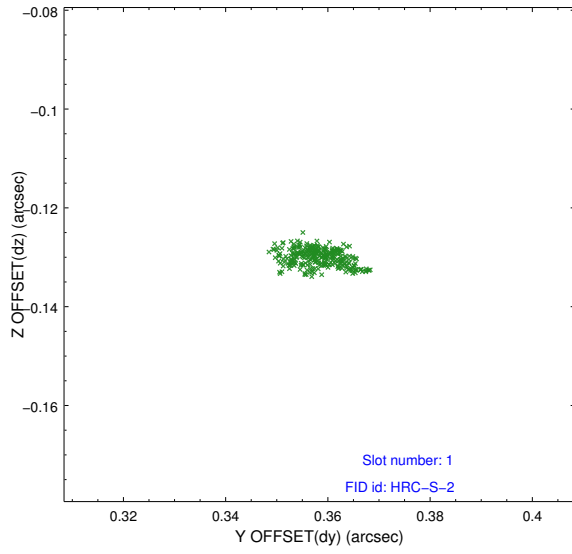


## 2.5 FID Slots

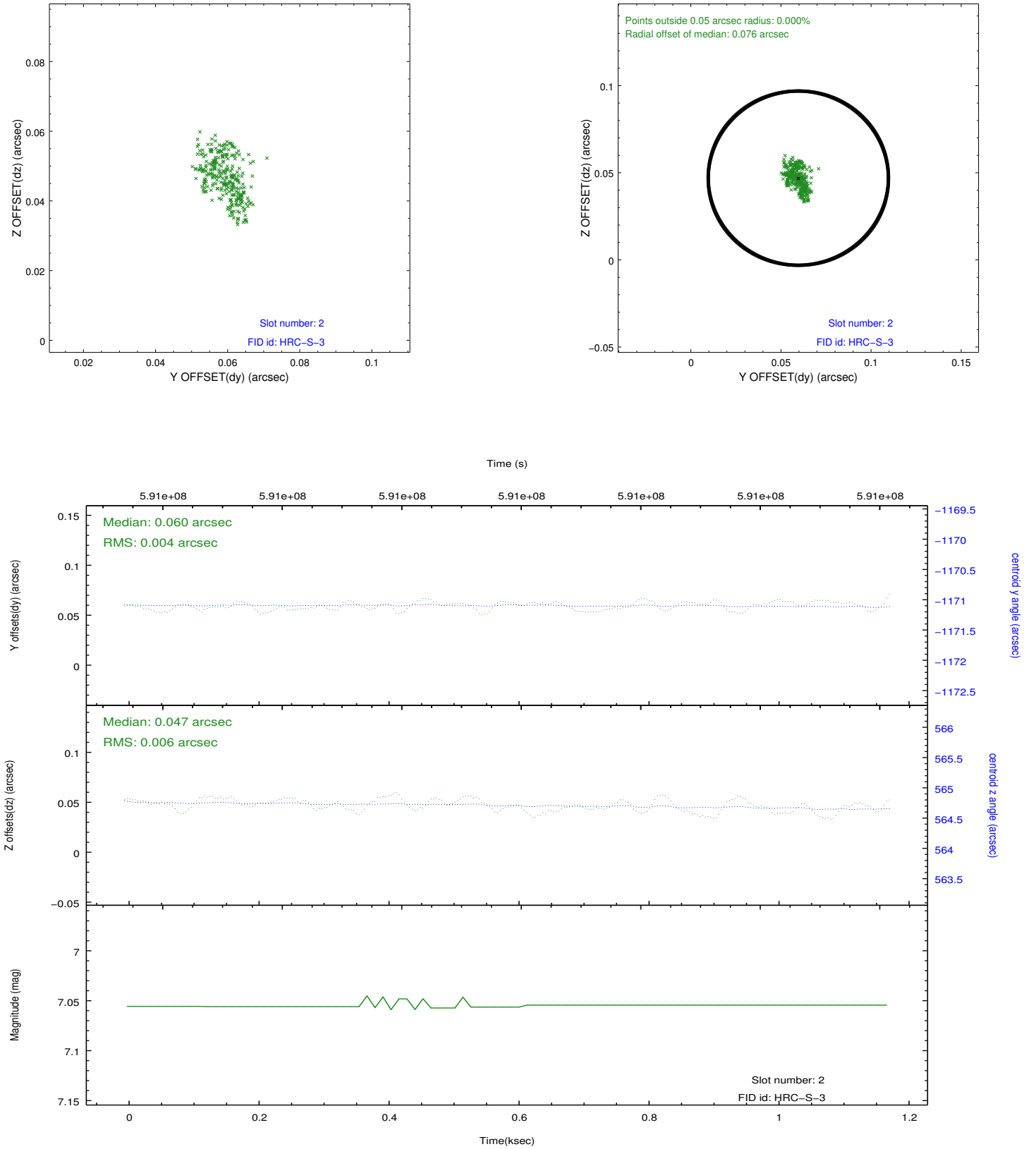
### 2.5.1 Slot 0



## 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)	2016.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1797750679255

### A.2 Comments