

# V&V Reference Report

## L2 ASCDS Version : 10.5.1.1

Observation 18372 - L2 Version 1  
Chandra X-Ray Center

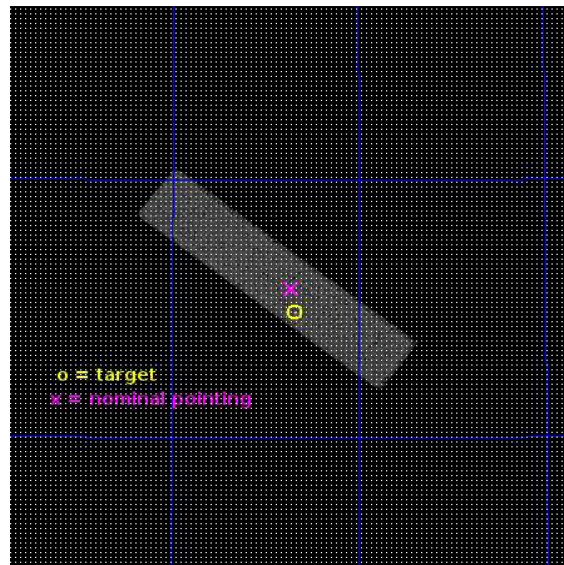
L2 Processing Date : Sep 23 2016

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# 1 Front

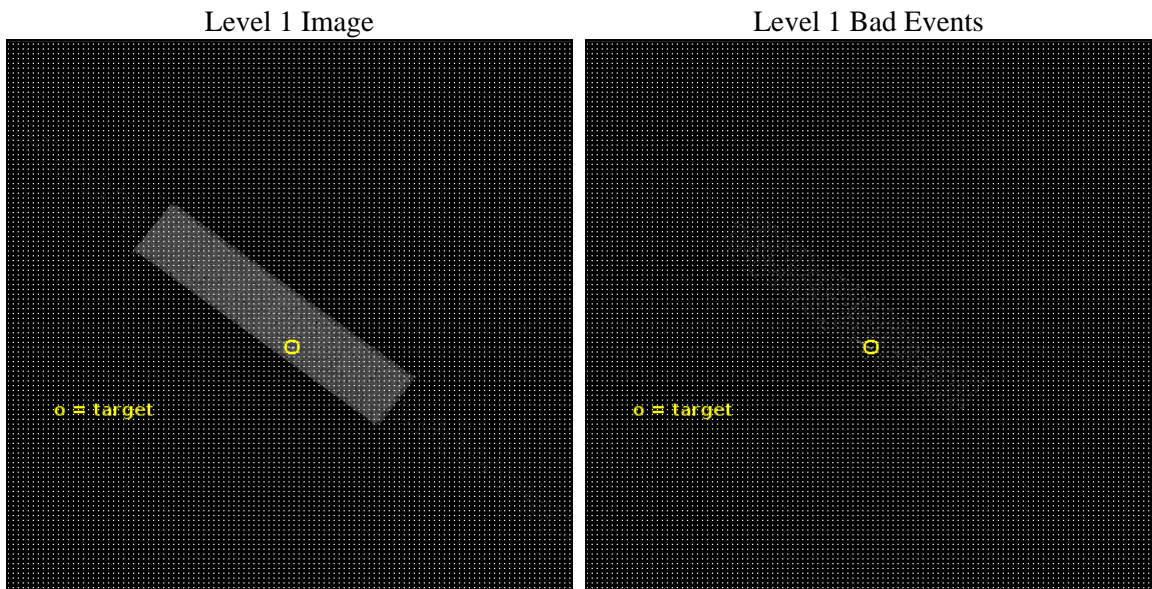
seq_num	291267	Sequence number
obs_id	18372	Observation id
title	AO-17 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.17925826665	Nominal RA [deg]
dec_nom	45.789004905044	Nominal Dec [deg]
roll_nom	216.90859065832	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1134.9313154221	[s]
livetime	1126.060231221	Ontime multiplied by DTCOR
l2events	67531	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	1134.9313154221	[s]
caldsver	4.7.2	&#160	l1events	104403	Number of level 1 events
date	2016-09-23T18:33:16	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

Level 1 Events

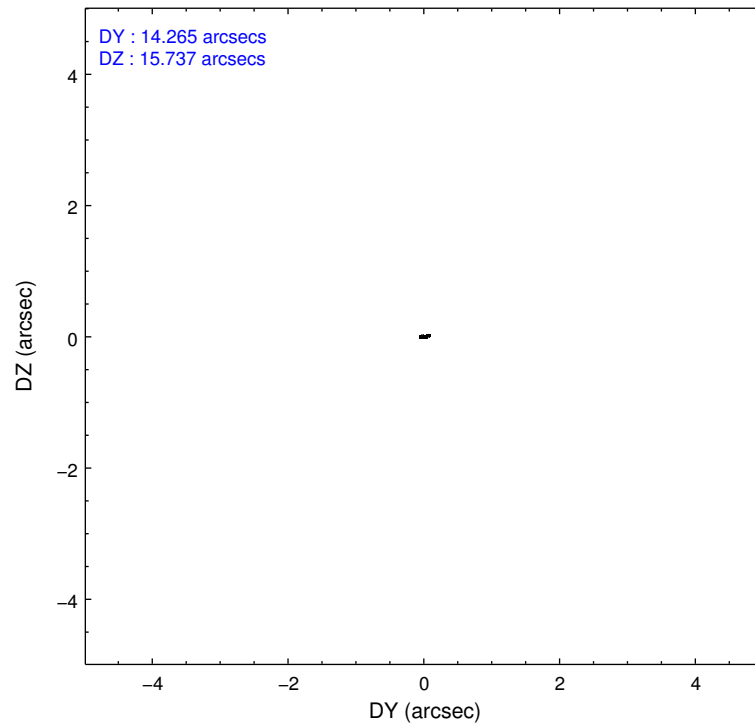
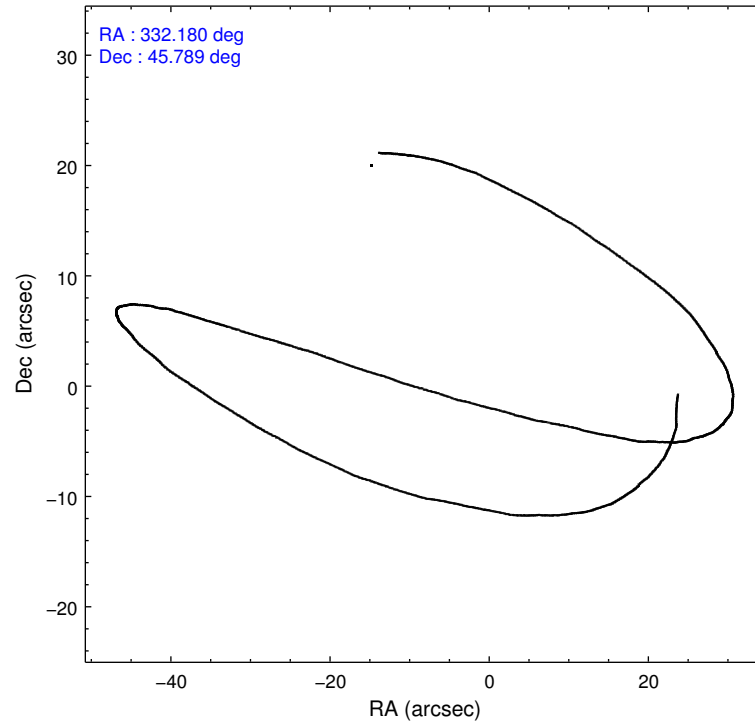
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	1018	102426	959
rejected events	1018	24659	959
rejected %	100%	24%	100%

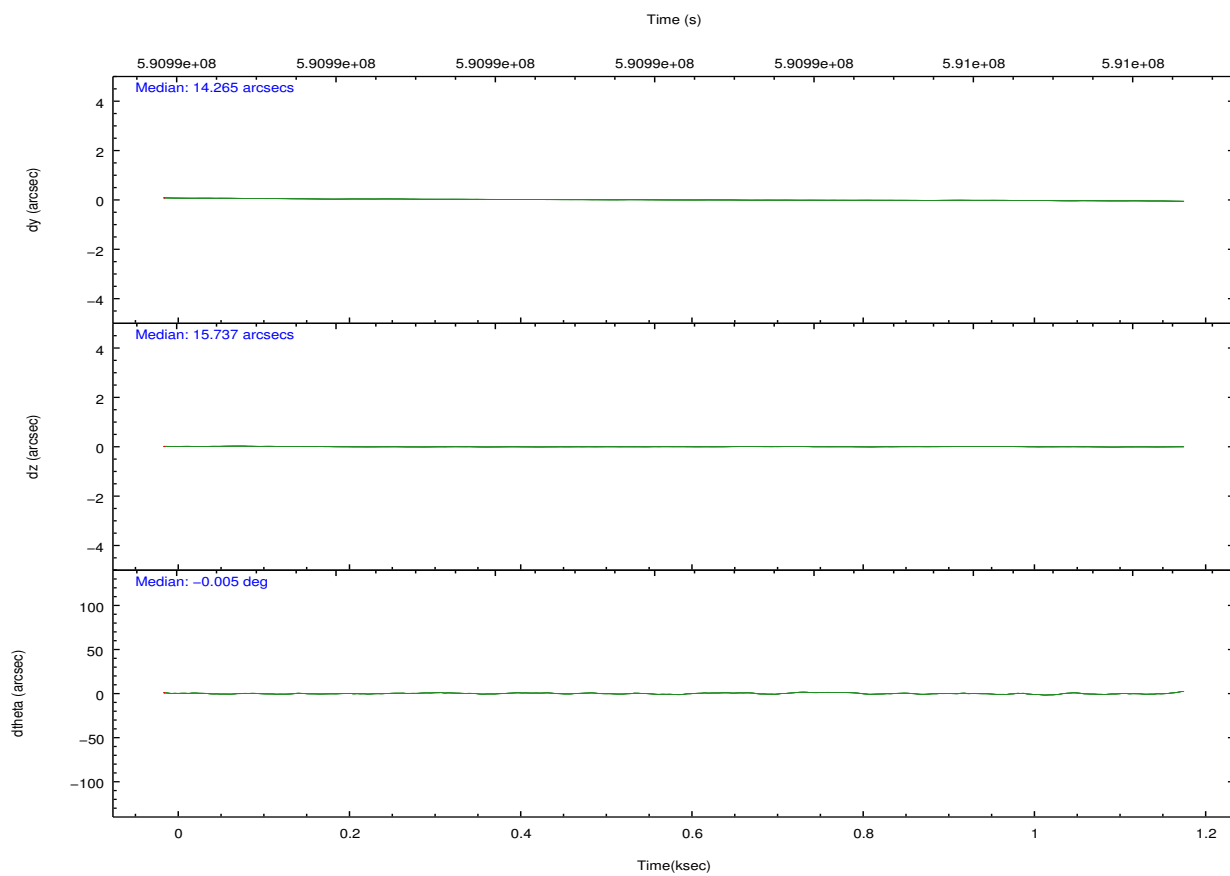
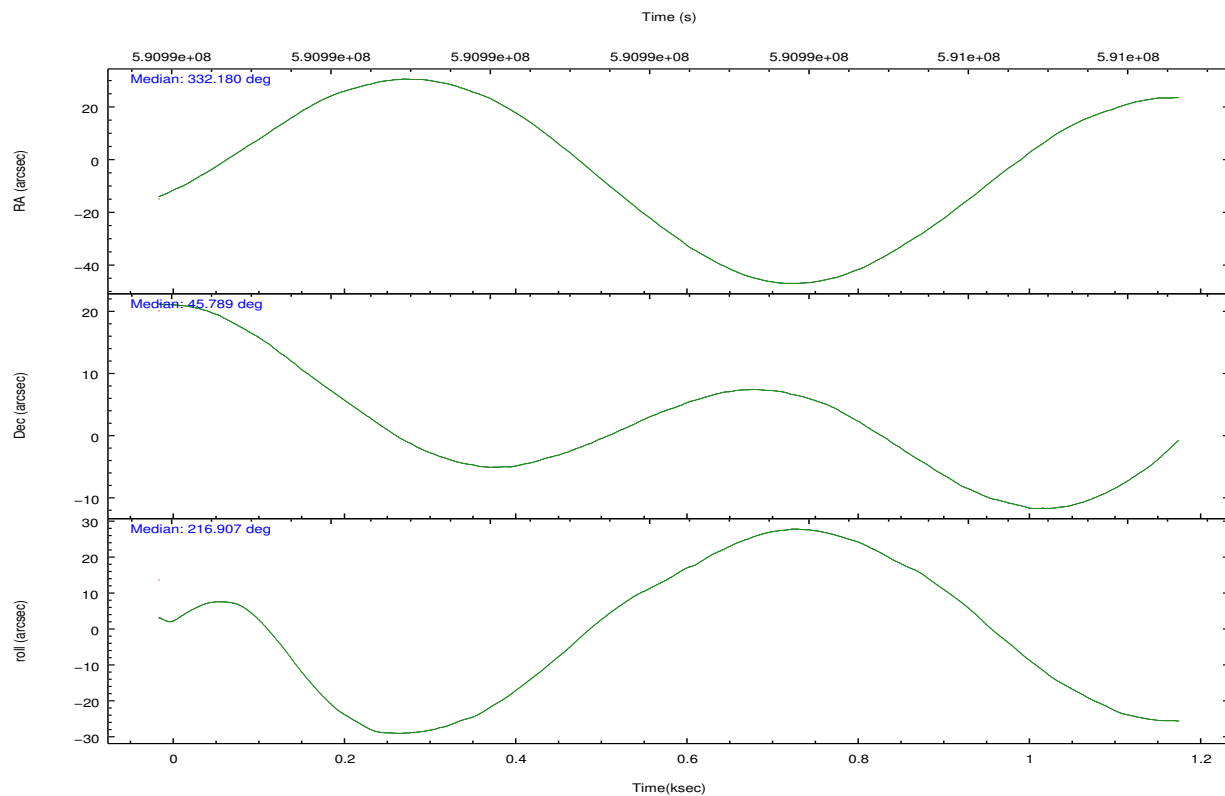
## 2.2 Compared Parameters

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	332.192804	332.1792582666538
[deg] Pointing Dec	45.816426	45.78900490504392
[deg] Pointing Roll	216.831637	216.9085906583208
[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)	590994222.184000	590993846.39074
Observation start date	2016-09-23T05:02:34	2016-09-23T04:57:26
[s] Observation end time (MET)	590995222.184000	590995356.21583
Observation end date	2016-09-23T05:19:14	2016-09-23T05:22:36

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

## 2.3 Aspect





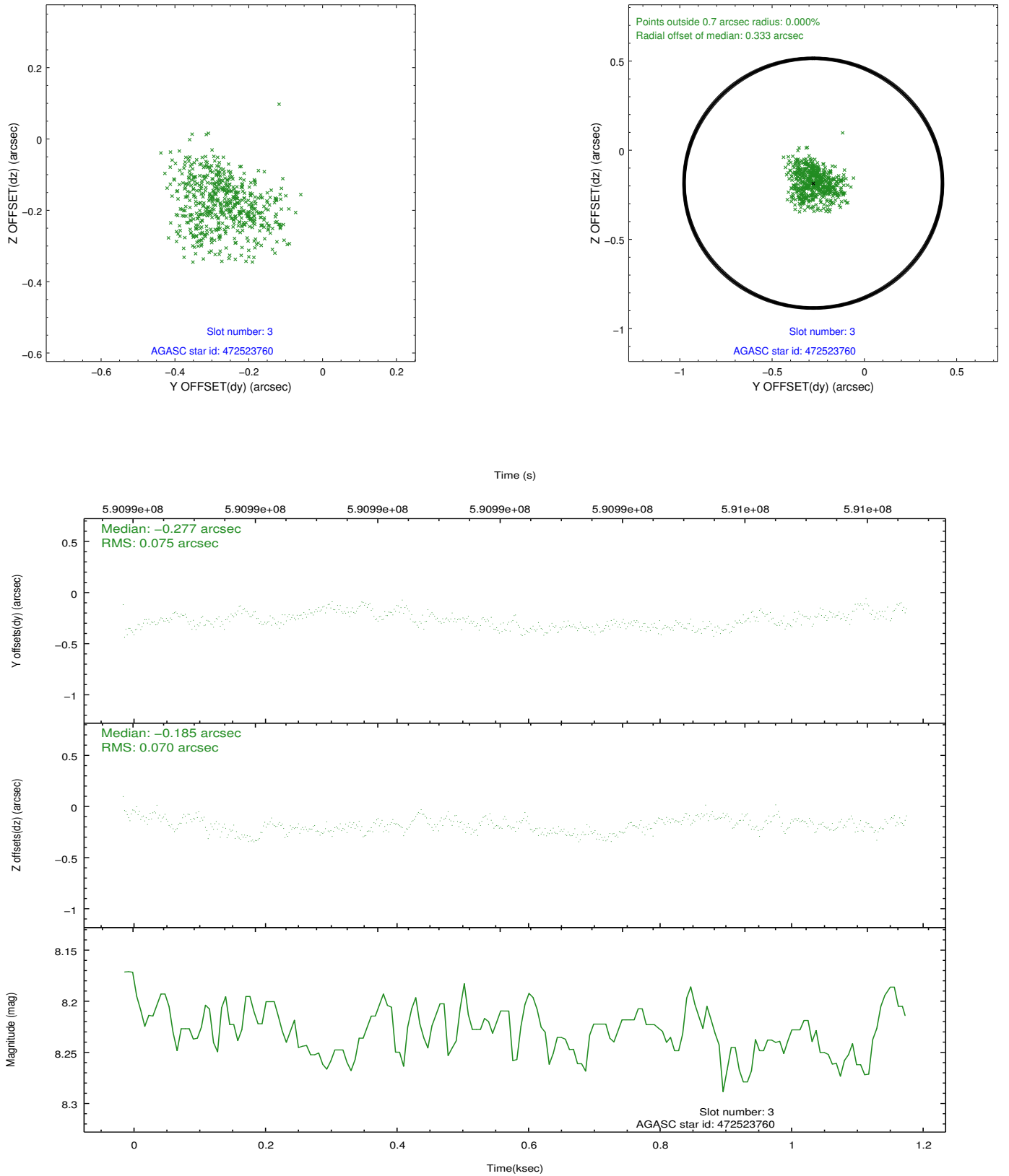
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	7.08	291	-0.028	-0.248	0.007	0.013	0.000000	0.000000	-1168.74	-464.67
1	FID		HRC-S-2	7.05	291	0.362	-0.132	0.005	0.009	0.000000	0.000000	1227.29	-458.74
2	FID		HRC-S-3	7.05	291	0.056	0.077	0.006	0.011	0.000000	0.000000	-1167.18	563.60
3	GUIDE	used	472523760	8.23	581	-0.277	-0.185	0.111	0.173	331.645363	45.403260	1997.56	355.19
4	GUIDE	used	472533912	9.13	582	0.276	0.120	0.146	0.244	331.791136	46.368695	-389.62	-2192.72
5	GUIDE	used	472655152	9.39	581	-0.118	-0.191	0.168	0.328	332.504239	45.862991	-725.79	326.85
6	GUIDE	used	472665256	8.98	582	0.011	0.129	0.135	0.245	332.808125	46.195041	-2047.79	-177.84
7	GUIDE	used	472663080	9.35	578	0.088	0.117	0.147	0.258	332.652741	46.473840	-2335.46	-1215.69

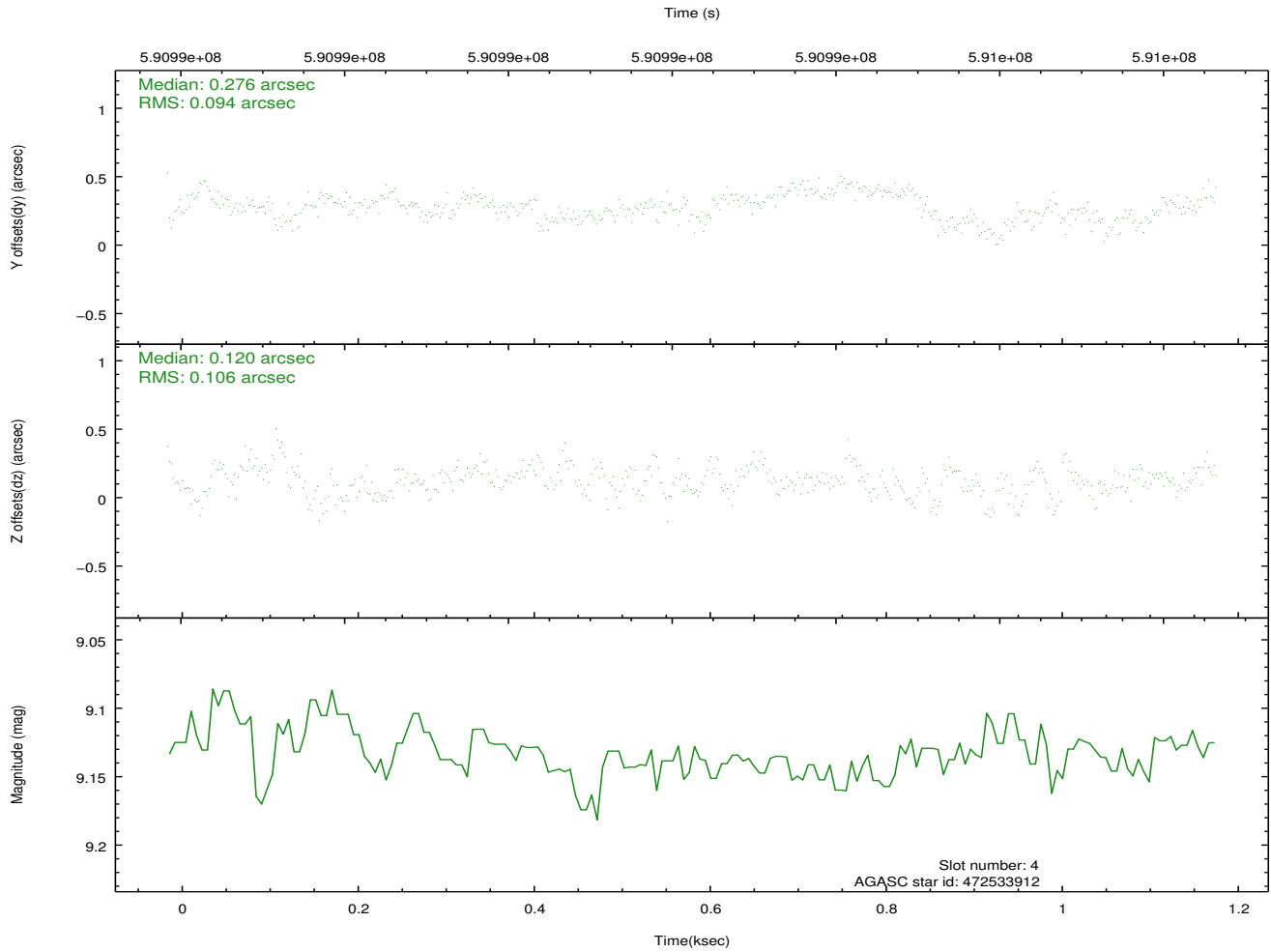
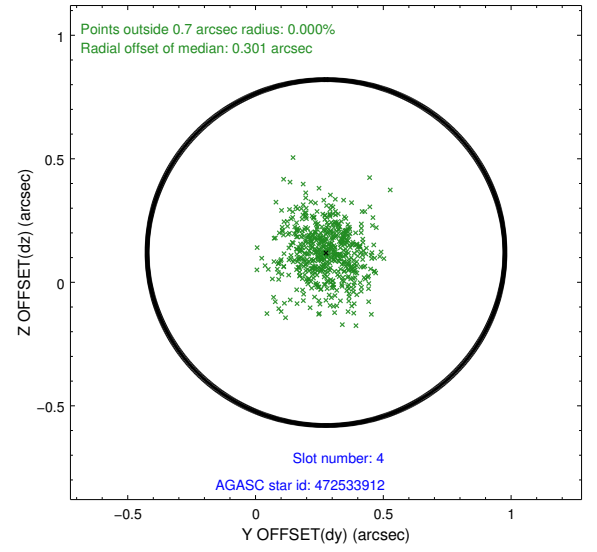
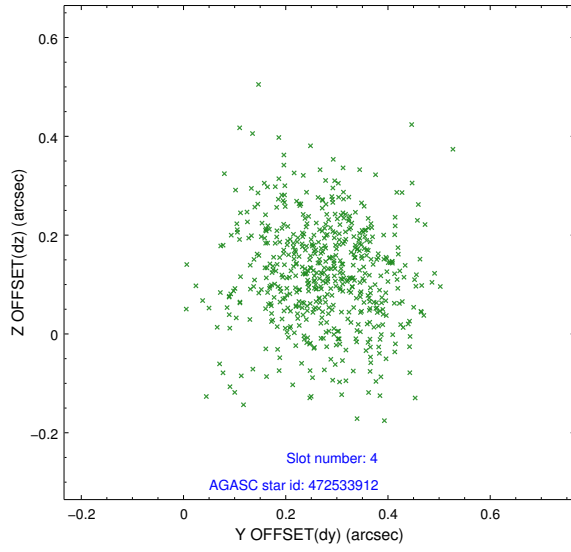


## 2.4 Star Slots

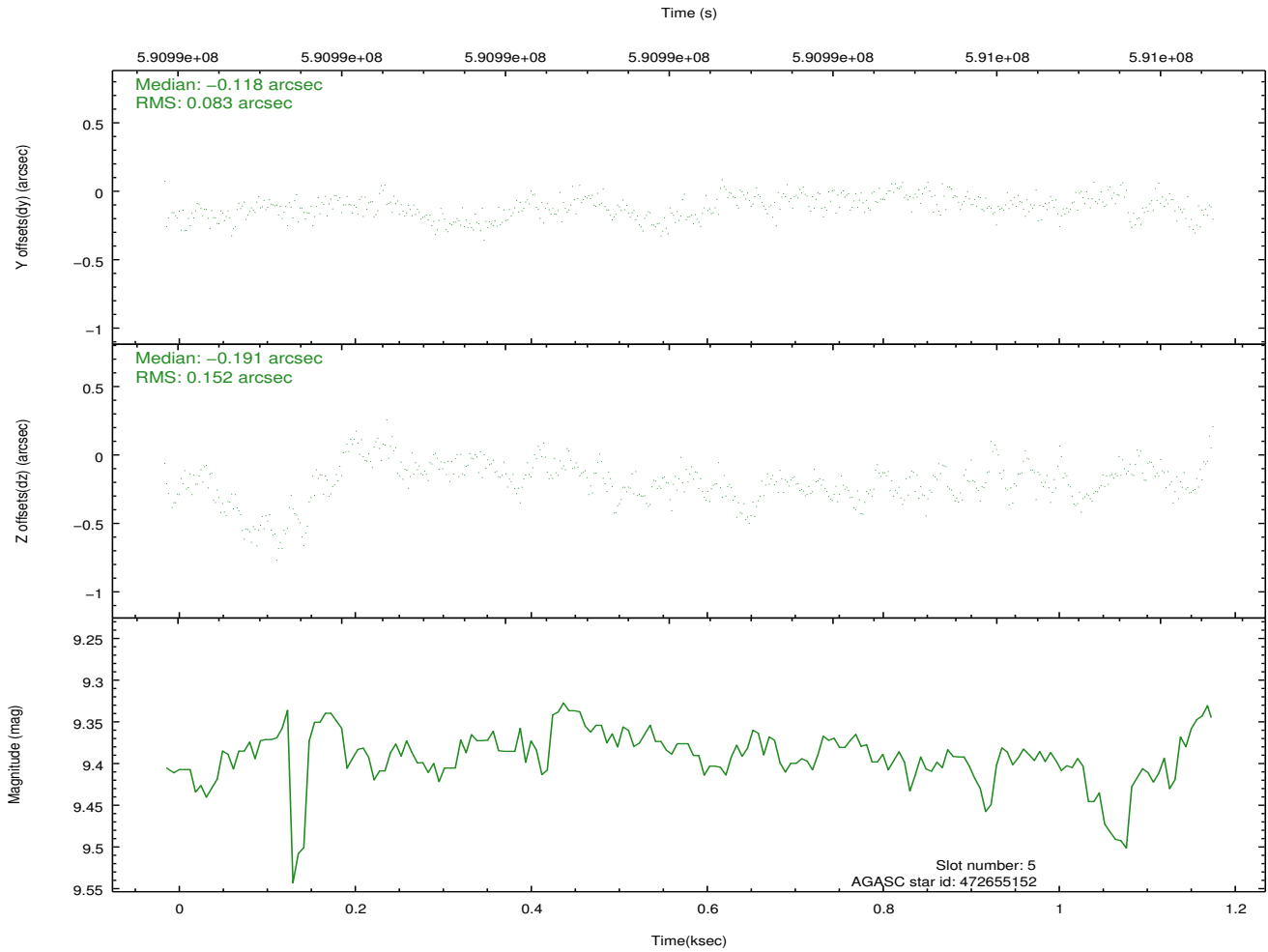
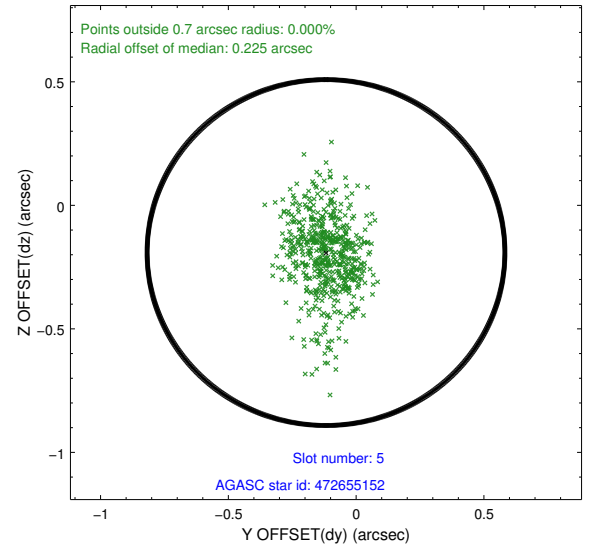
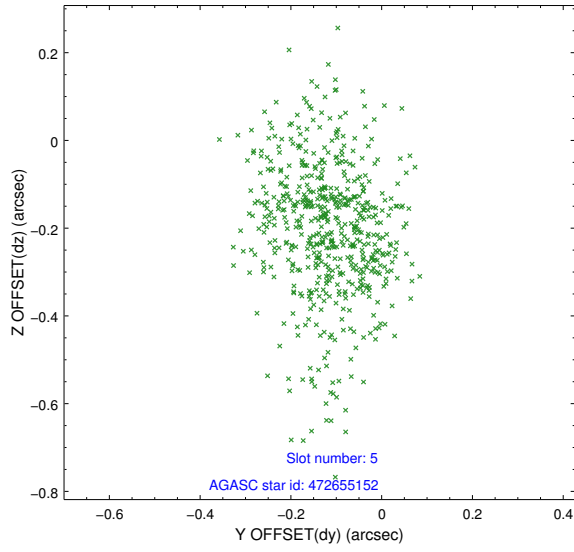
### 2.4.1 Slot 3



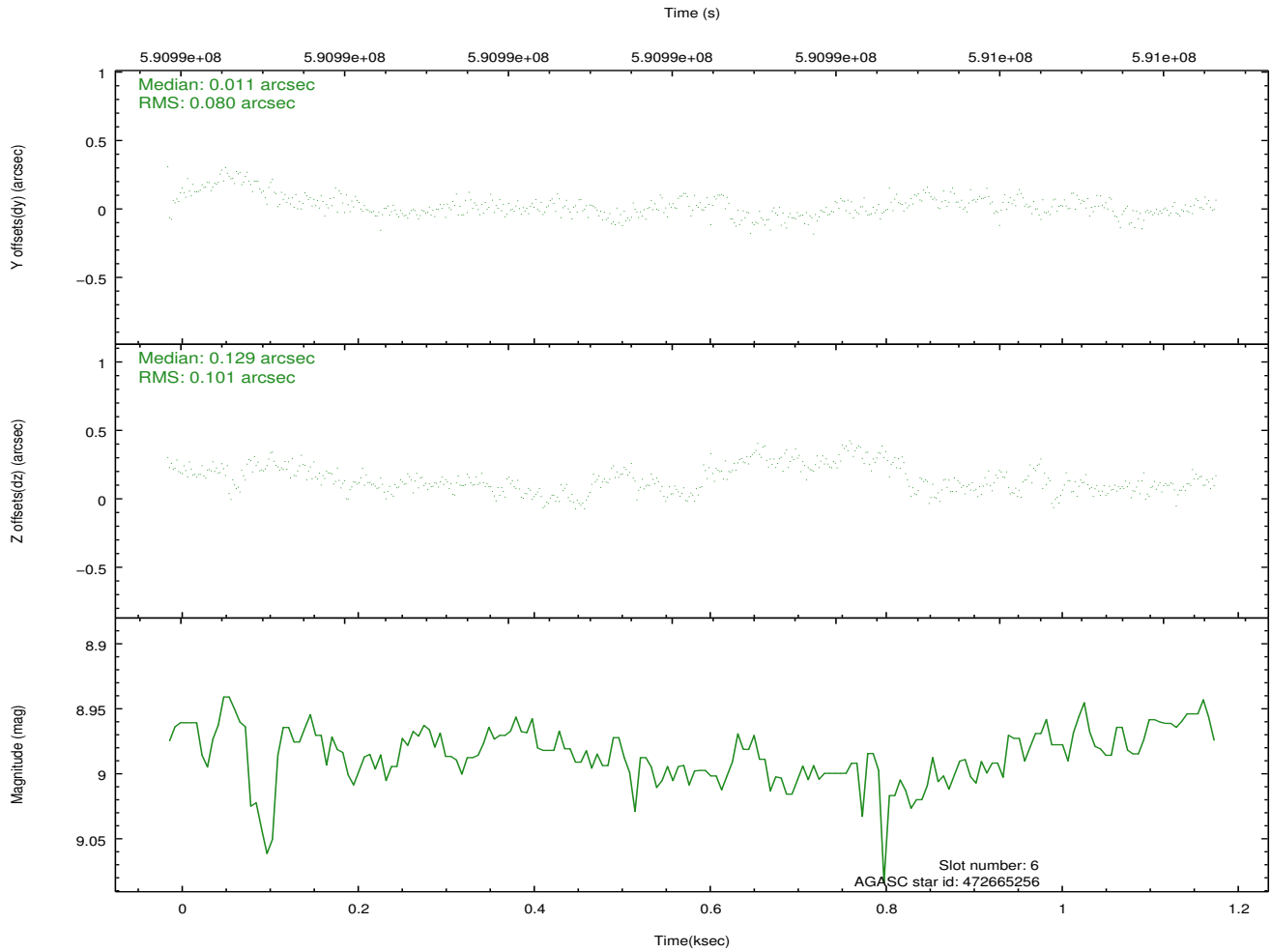
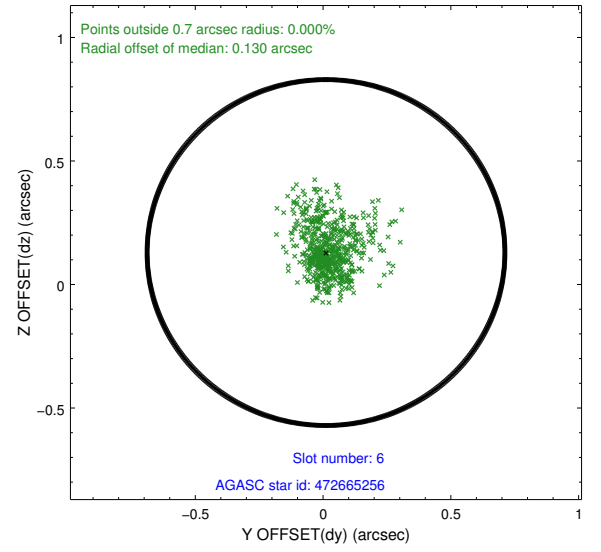
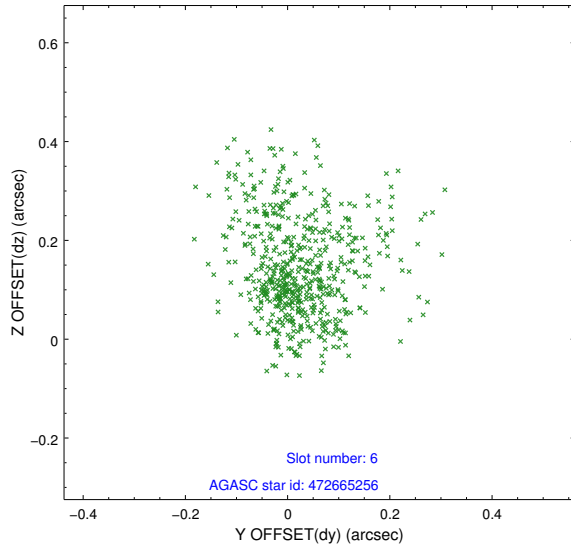
## 2.4.2 Slot 4



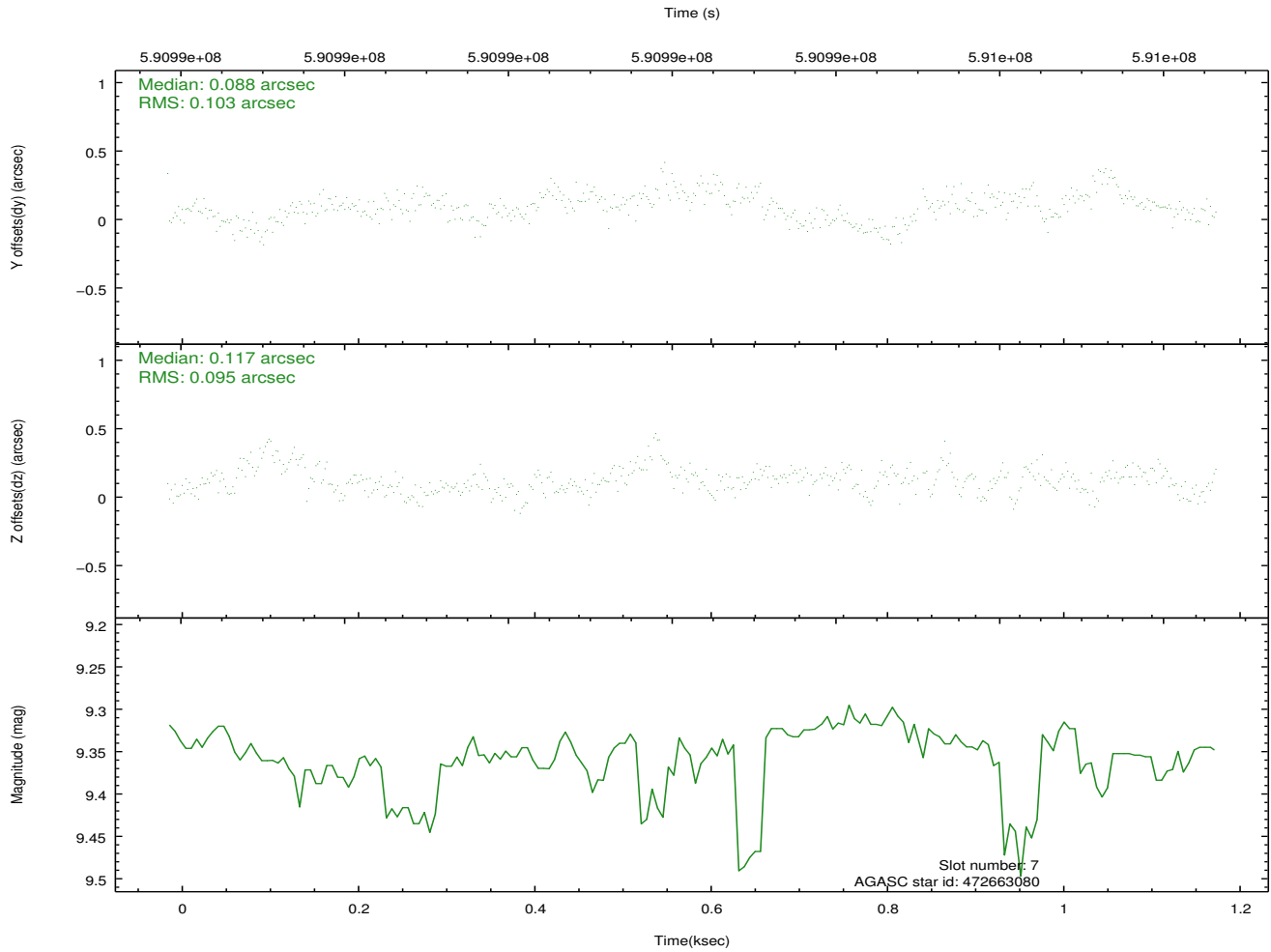
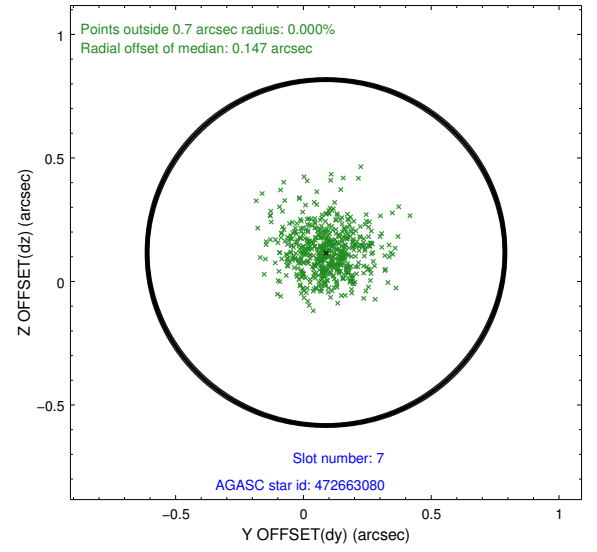
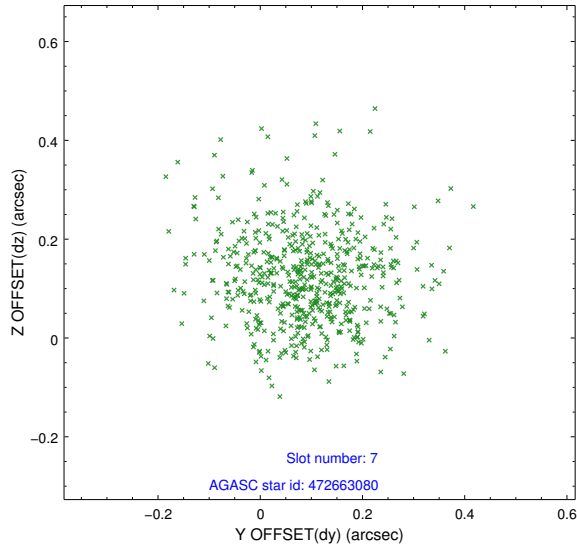
### 2.4.3 Slot 5



## 2.4.4 Slot 6

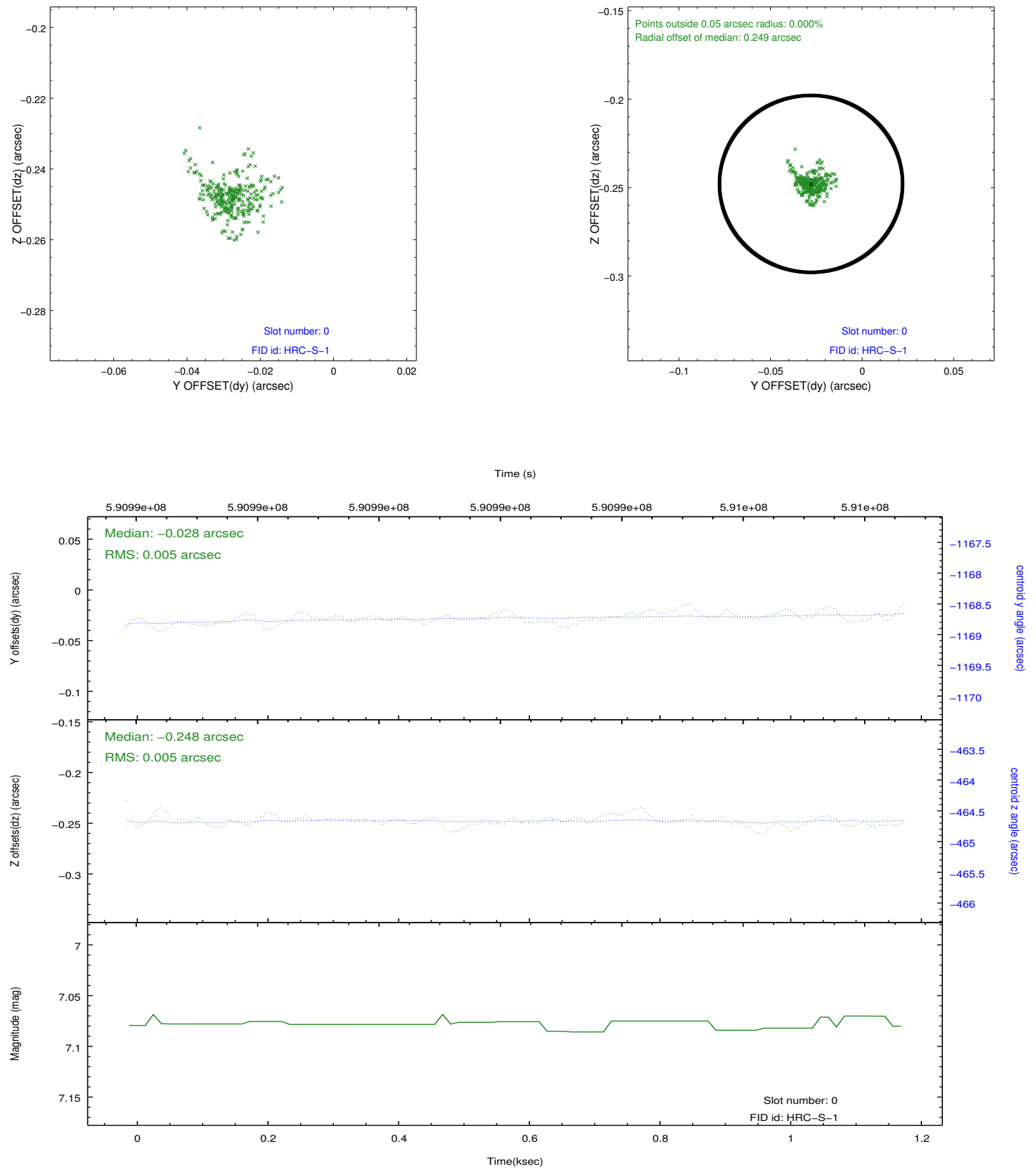


## 2.4.5 Slot 7

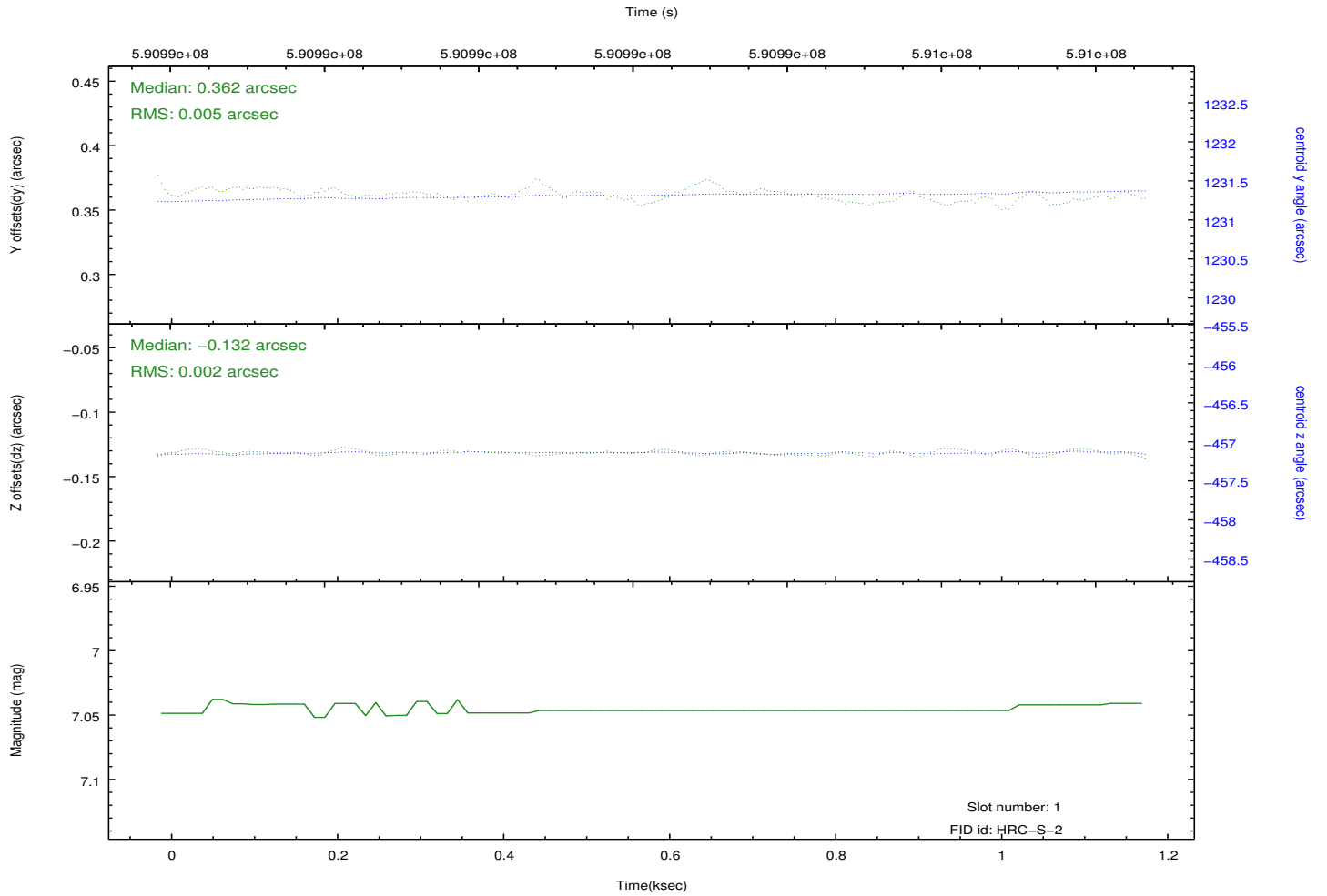
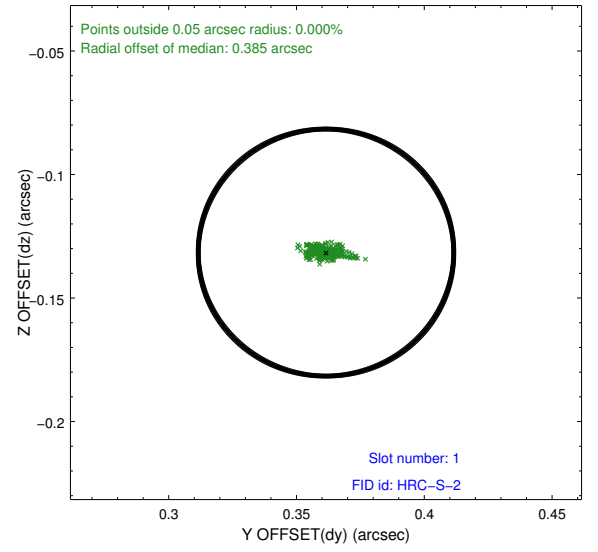
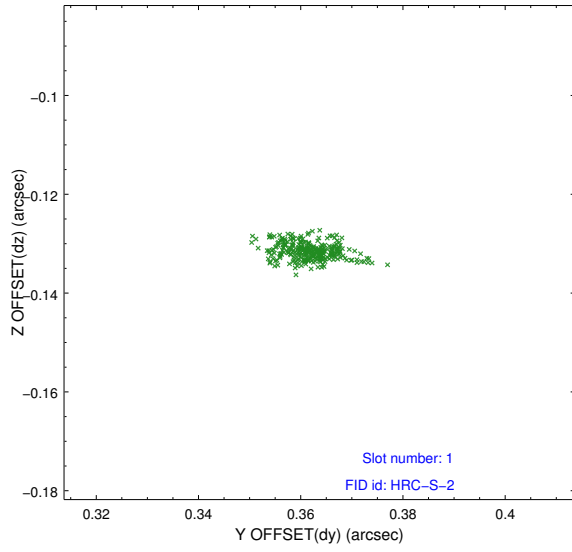


## 2.5 FID Slots

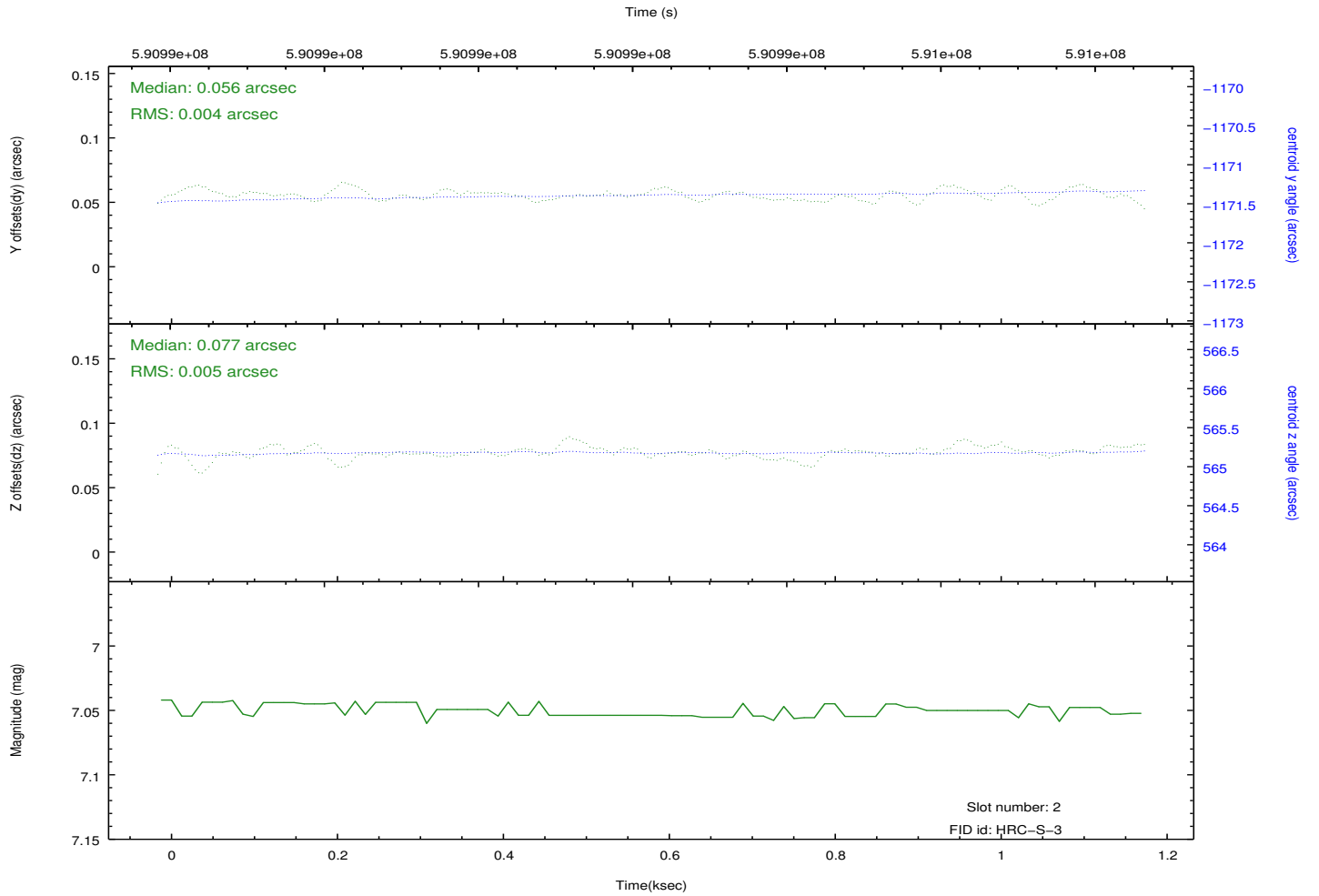
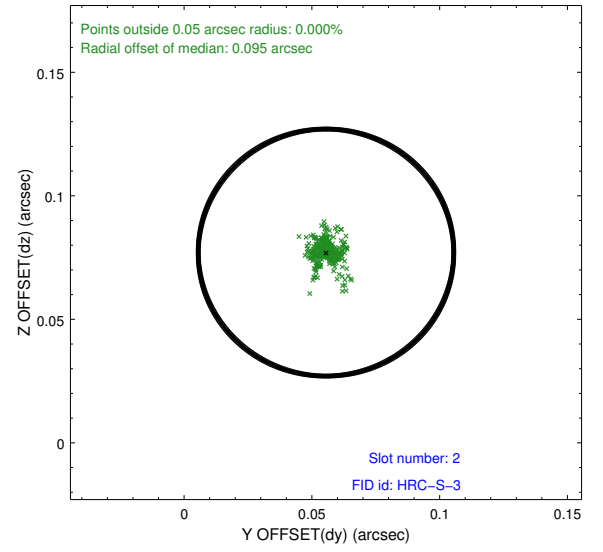
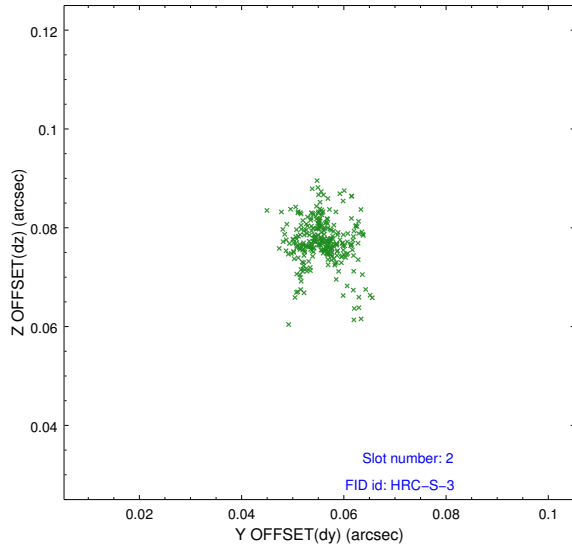
### 2.5.1 Slot 0



## 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)	2016.09.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1349313154221

### A.2 Comments