

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8320 - L2 Version 3  
Chandra X-Ray Center

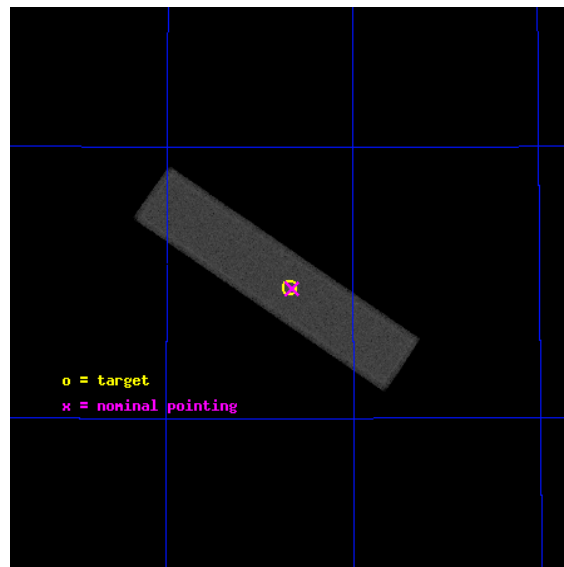
L2 Processing Date : Aug 12 2012

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# 1 Front

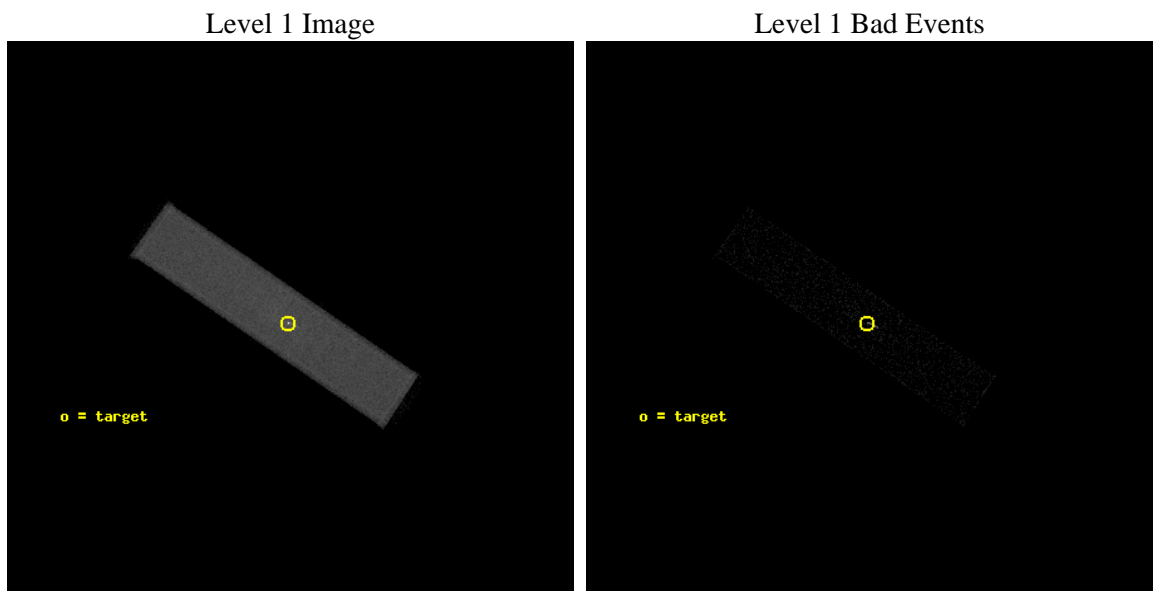
seq_num	290699	Sequence number
obs_id	8320	Observation id
title	AO8 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.16434575802	Nominal RA [deg]
dec_nom	45.739676499066	Nominal Dec [deg]
roll_nom	214.18055525342	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3160.3314021826	[s]
livetime	3133.2615276541	Ontime multiplied by DTCOR
l2events	194727	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	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3160.3314021826	[s]
caldbver	4.5.1.1	&#160	l1events	310859	Number of level 1 events
date	2012-08-12T02:45:20	Date and time of file creation			
revision	3	Processing version of data			

### 2.1.3 Events

Level 1 Events

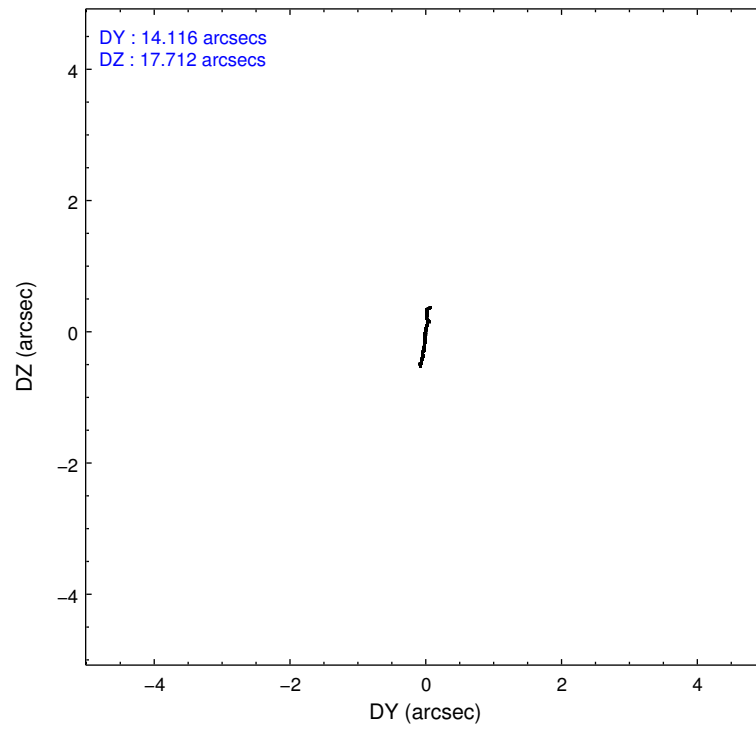
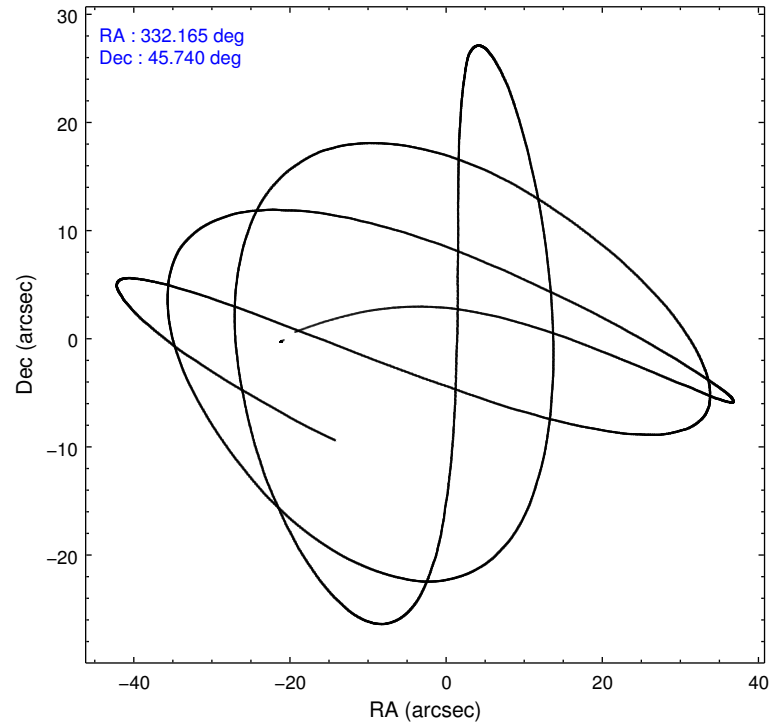
	<b>segment 1</b>	<b>segment 2</b>	<b>segment 3</b>
level 1 events	0	310859	0
rejected events	0	76809	0
rejected %	0%	24%	0%

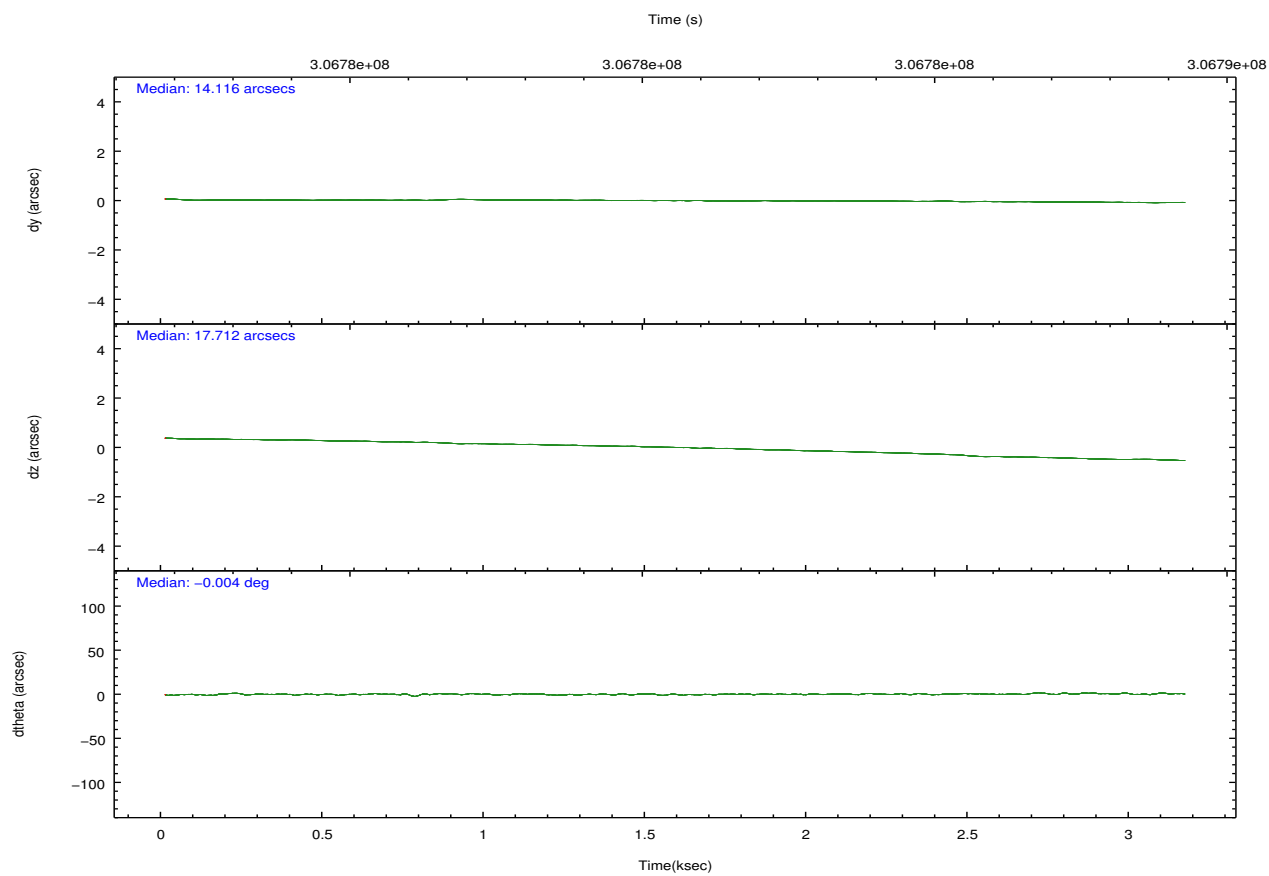
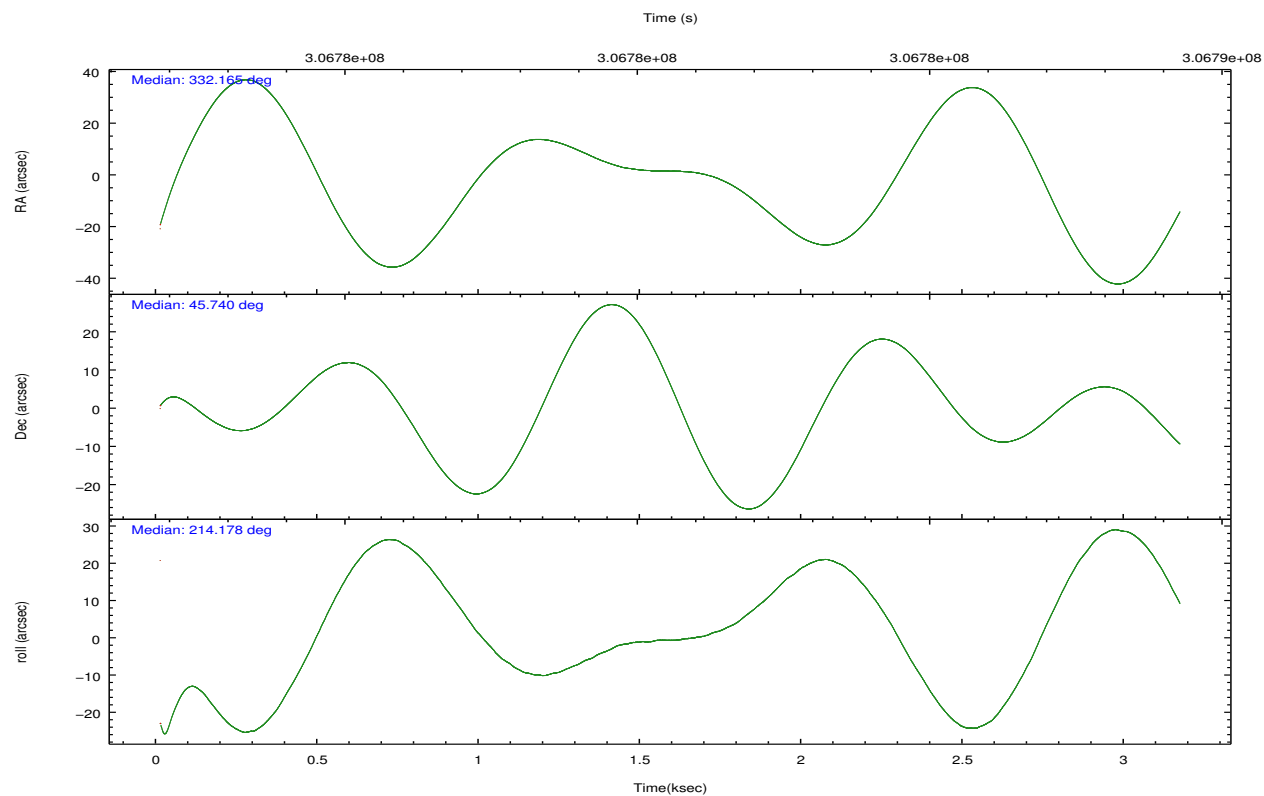
## 2.2 Compared Parameters

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	332.180360	332.1643457580246
[deg] Pointing Dec	45.766119	45.73967649906599
[deg] Pointing Roll	214.101886	214.1805552534245
[s] Window start time (MET)	302313665.184000	302313665.184000
[s] Window stop time (MET)	310176065.184000	310176065.184000
[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)	306782703.184000	306781583.90539
Observation start date	2007-09-21T17:23:58	2007-09-21T17:06:23
[s] Observation end time (MET)	306785703.184000	306785837.6556
Observation end date	2007-09-21T18:13:58	2007-09-21T18:17:17

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

## 2.3 Aspect





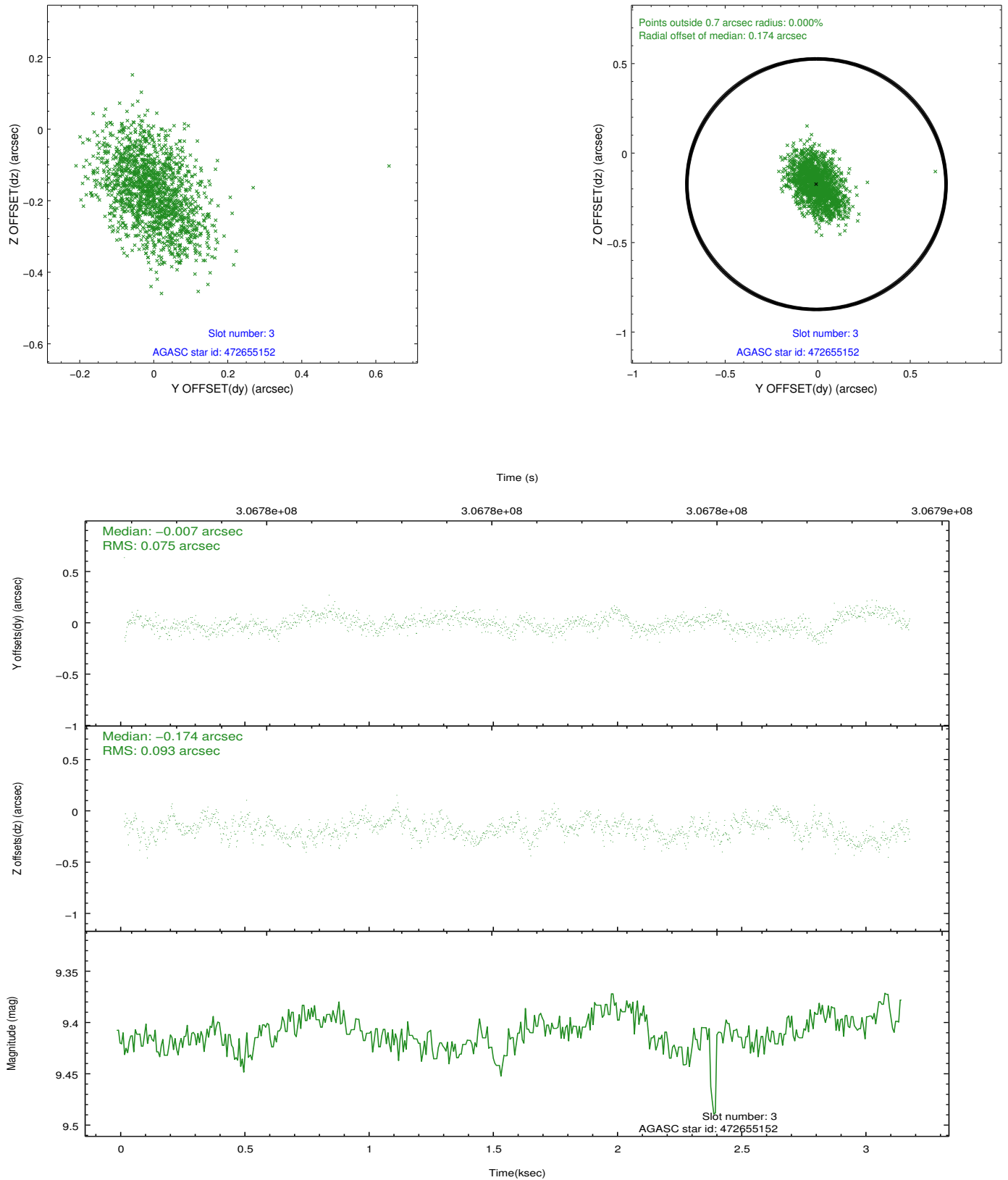
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.09	771	0.092	-0.168	0.010	0.017	0.000000	0.000000	-1168.45	-466.62
1	FID	HRC-S-2	7.06	772	0.162	-0.098	0.005	0.010	0.000000	0.000000	1229.77	-459.76
2	FID	HRC-S-3	7.07	771	0.135	-0.036	0.011	0.018	0.000000	0.000000	-1169.54	562.44
3	GUIDE	472655152	9.41	1538	-0.007	-0.174	0.127	0.203	332.504239	45.862991	-868.37	165.15
4	GUIDE	472665256	9.01	1542	0.083	0.110	0.070	0.113	332.808125	46.195041	-2164.57	-406.34
5	GUIDE	420754040	9.06	1540	-0.006	0.087	0.088	0.142	331.917939	44.882543	2335.23	2258.07
6	GUIDE	472523760	8.24	1541	-0.072	-0.089	0.070	0.116	331.645363	45.403260	1851.55	321.31
7	GUIDE	472533912	9.16	1539	0.001	0.076	0.128	0.202	331.791136	46.368695	-415.24	-2339.92

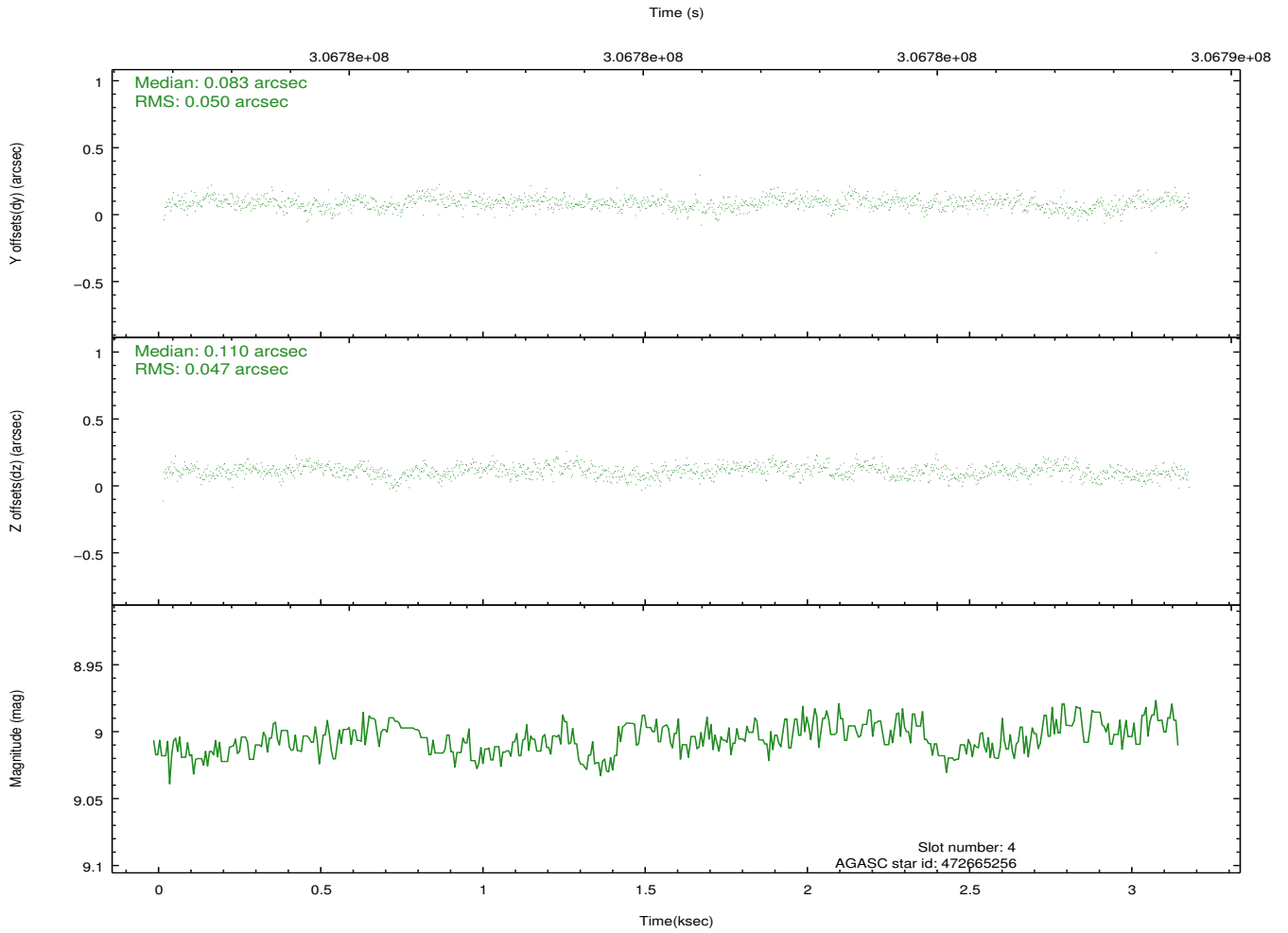
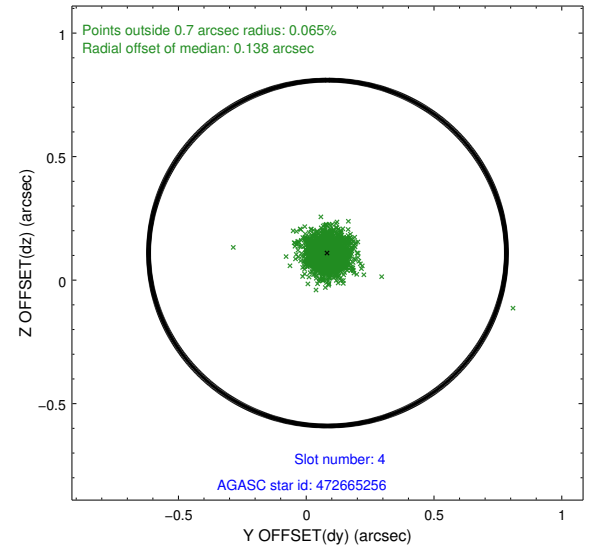
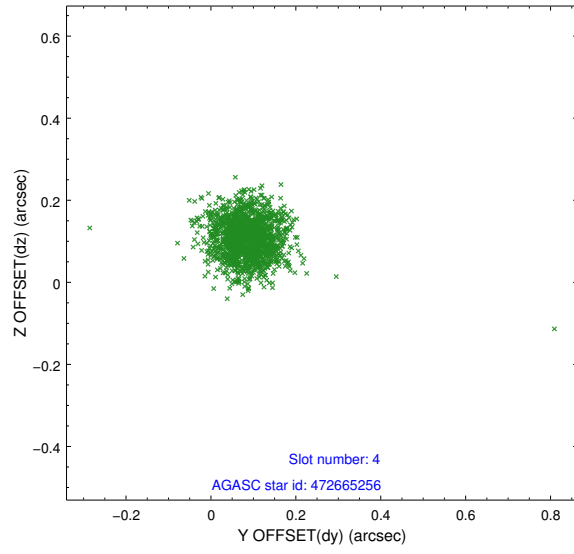


## 2.4 Star Slots

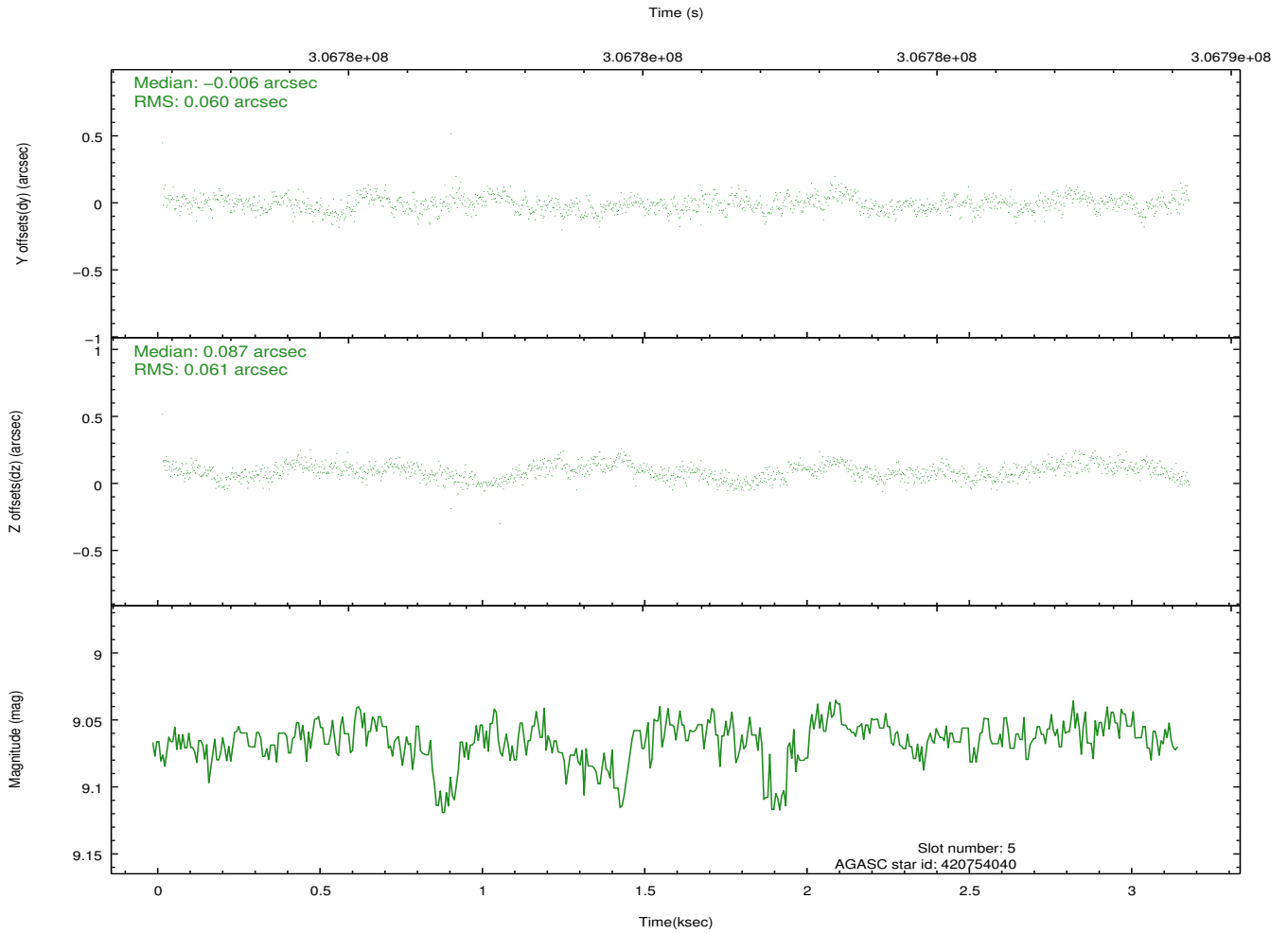
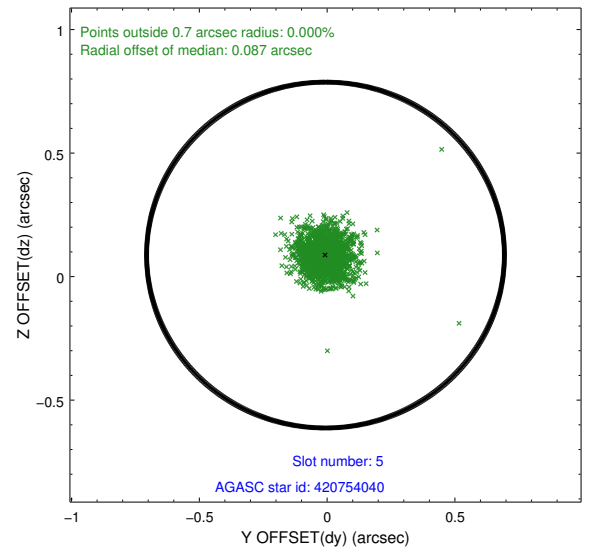
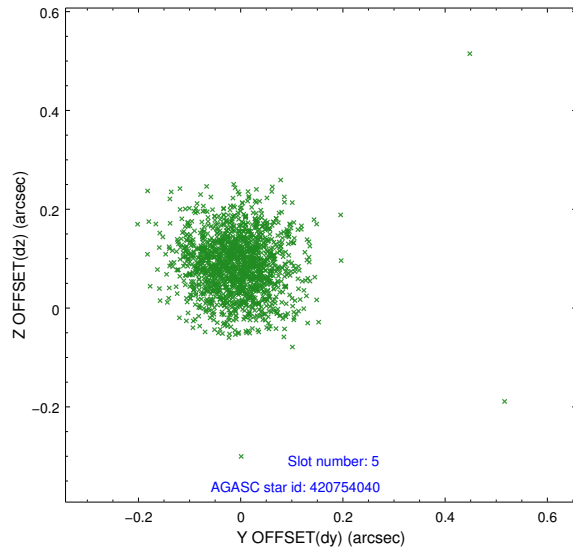
### 2.4.1 Slot 3



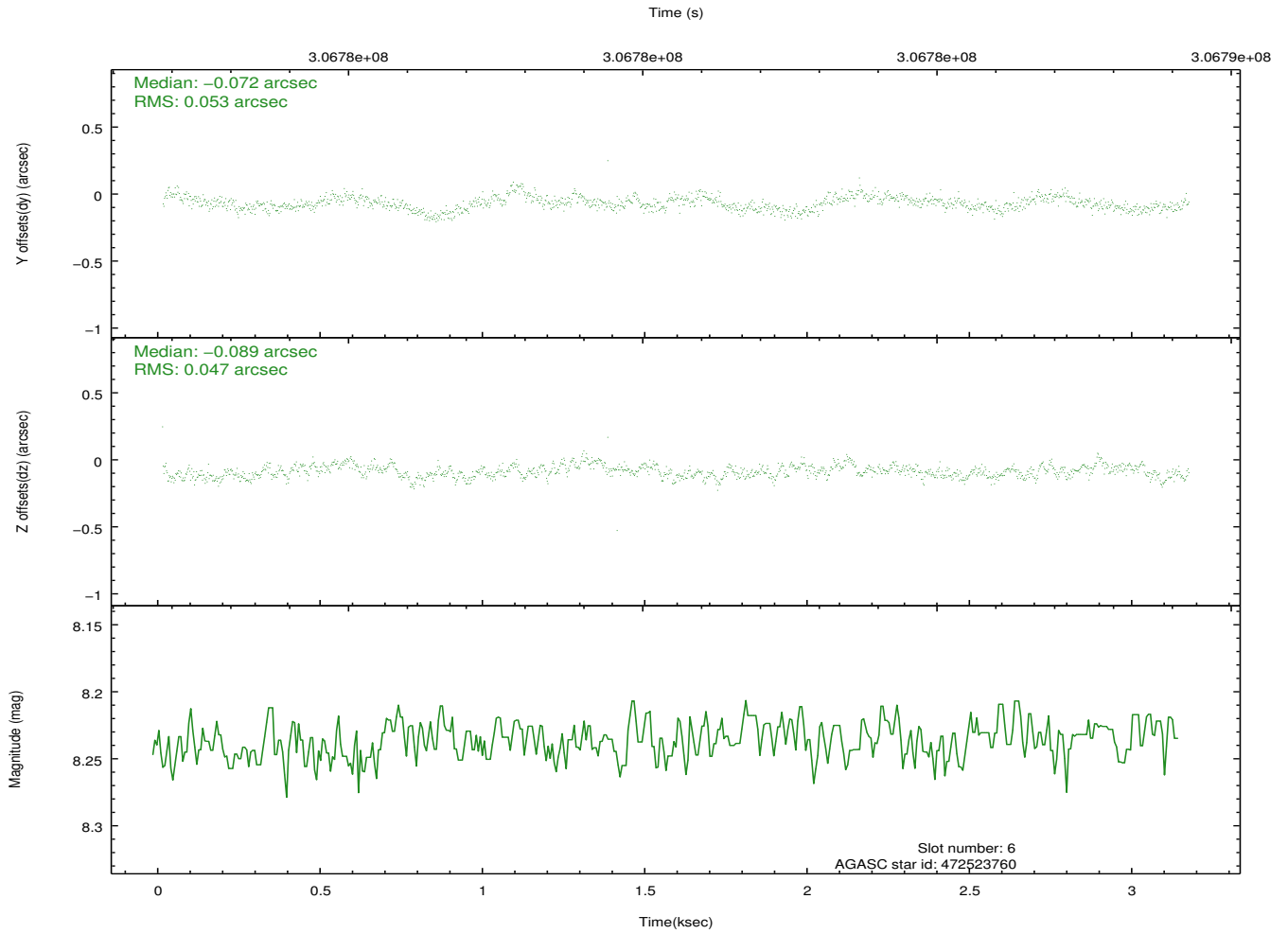
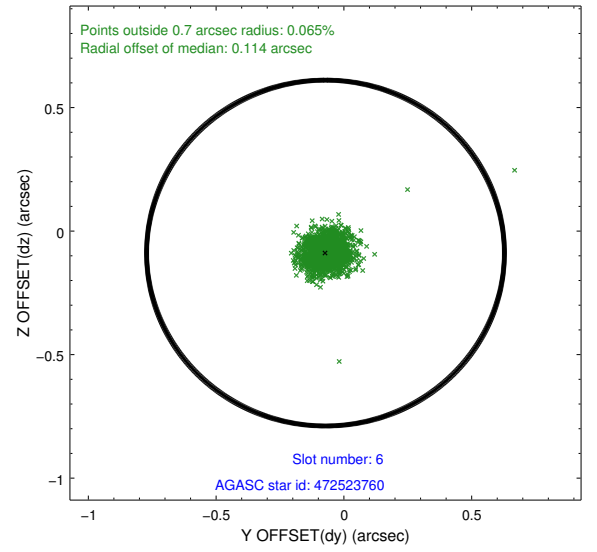
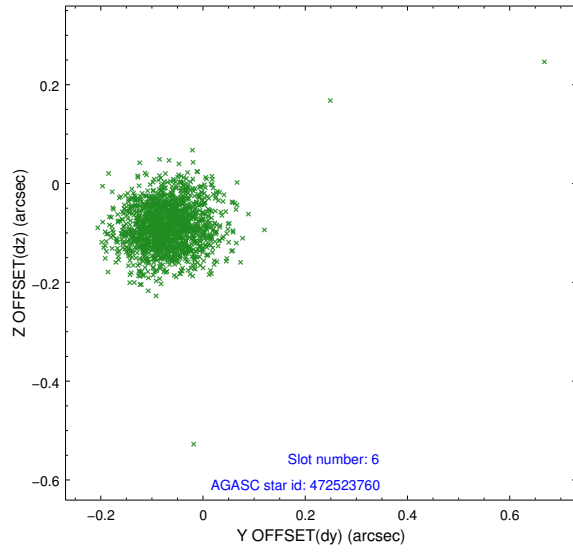
## 2.4.2 Slot 4



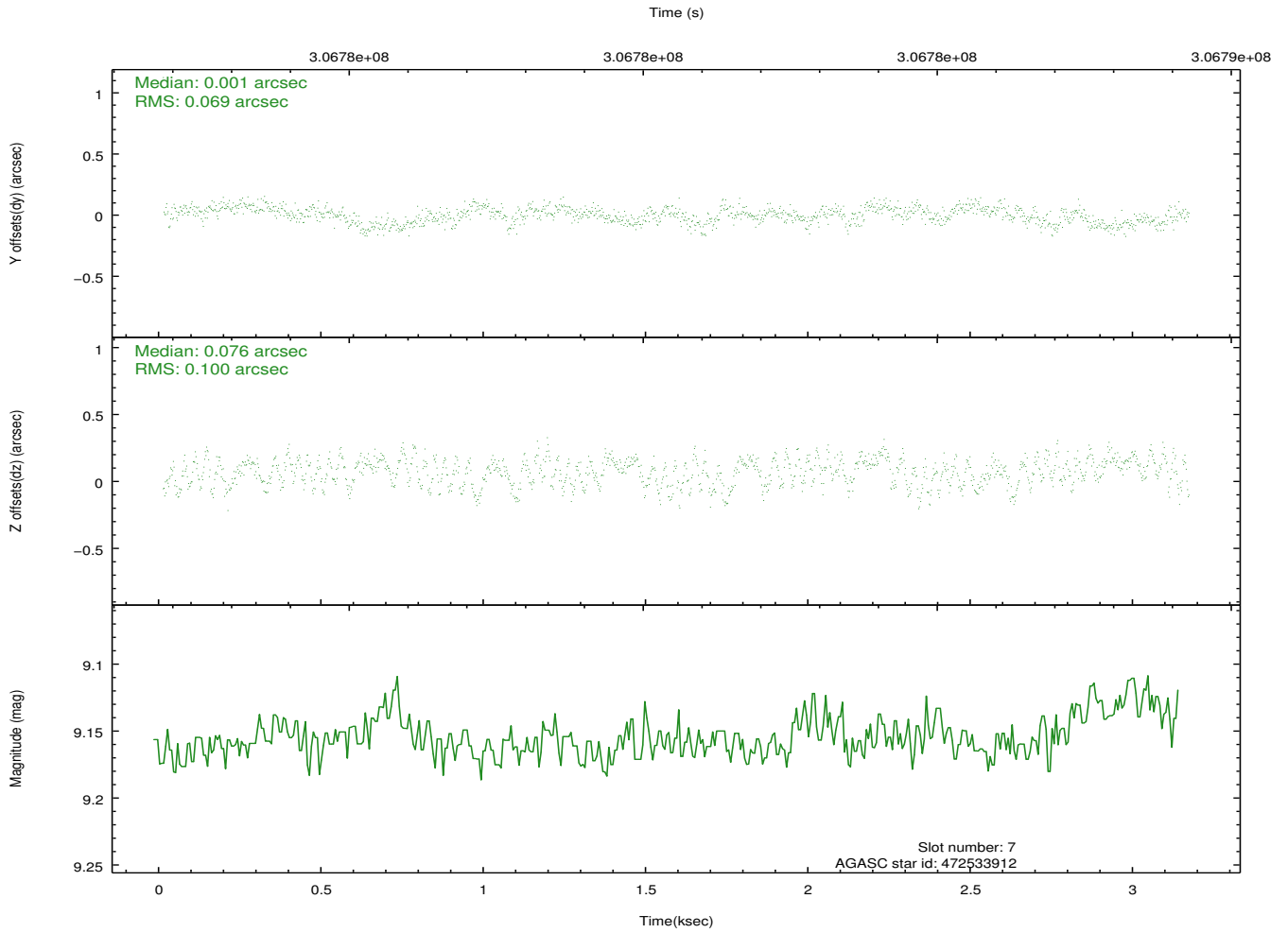
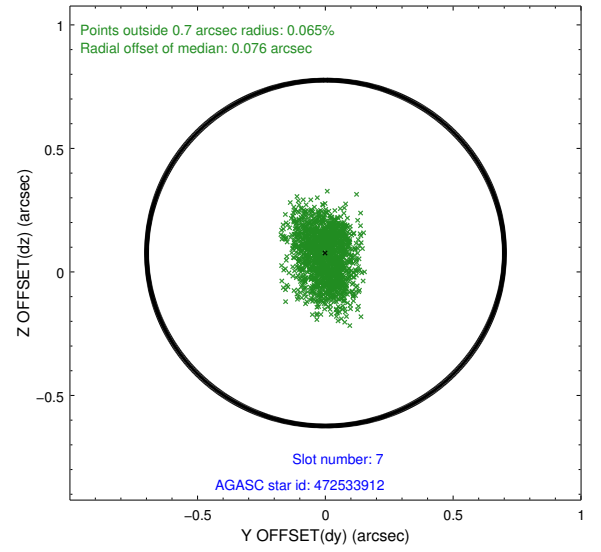
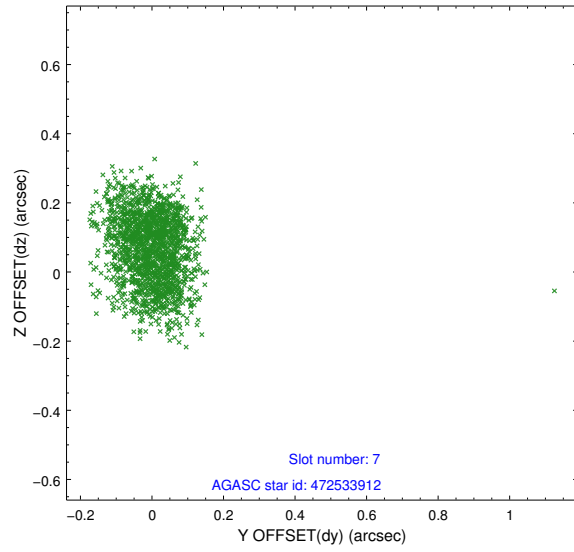
### 2.4.3 Slot 5



## 2.4.4 Slot 6

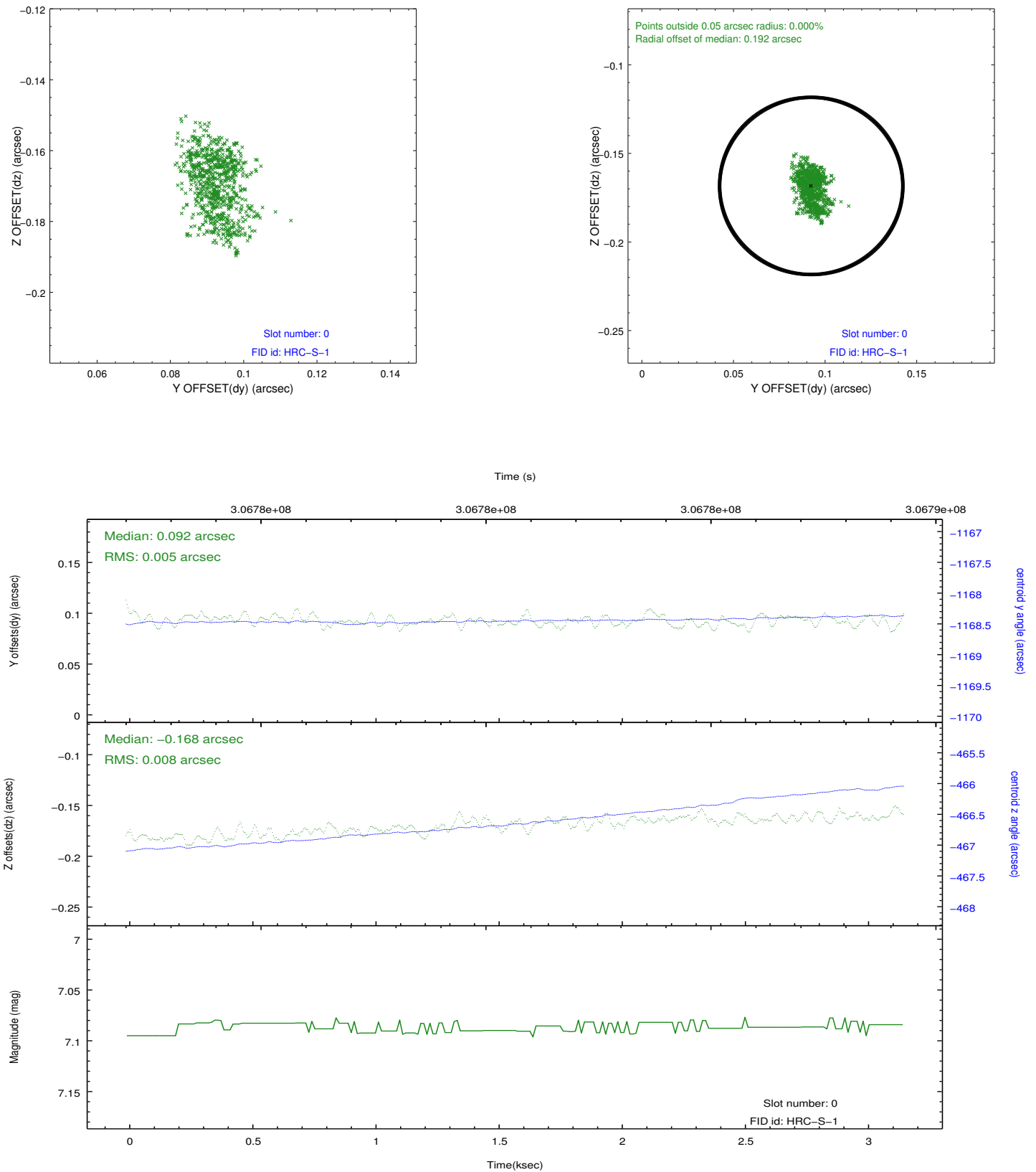


## 2.4.5 Slot 7

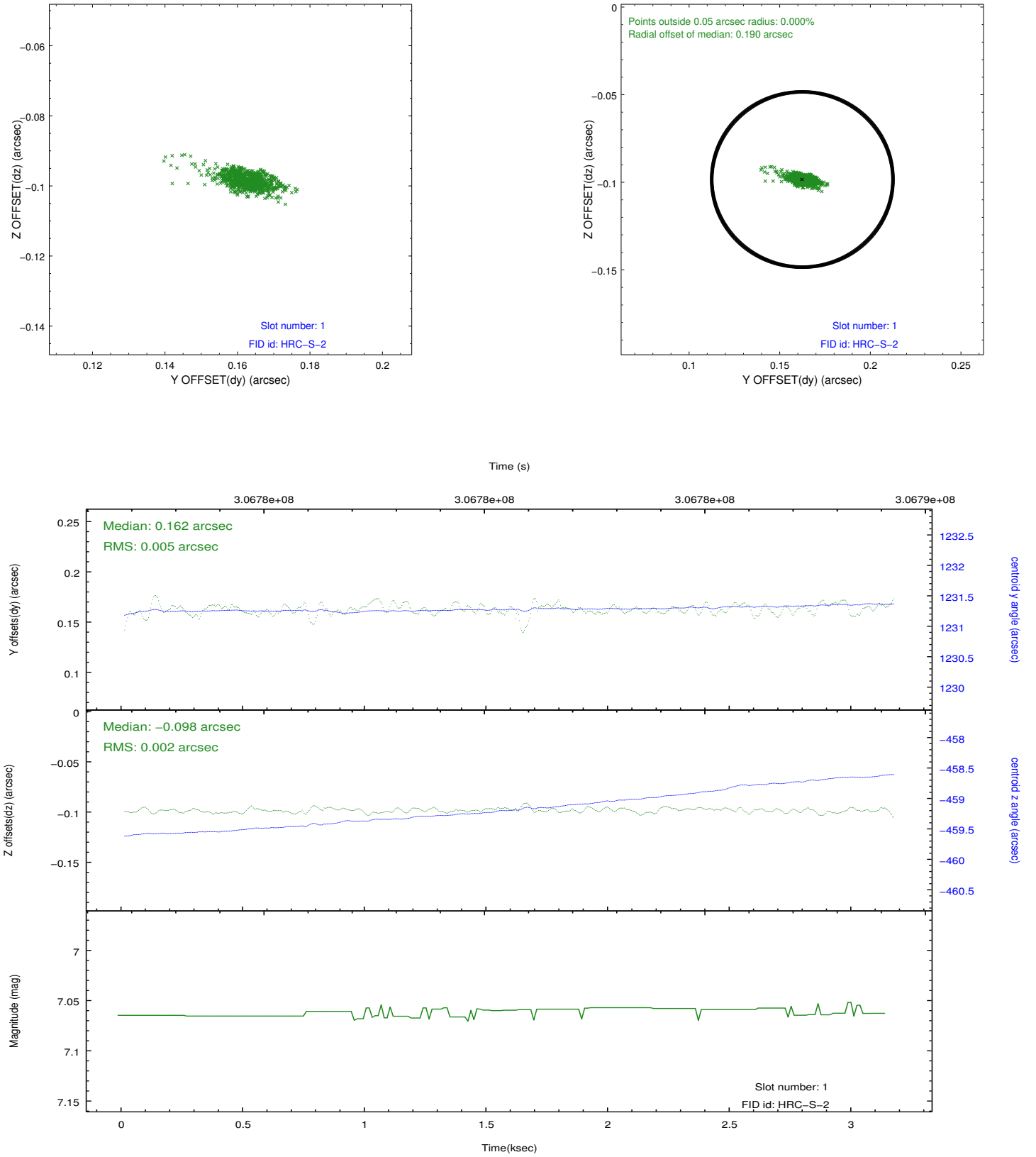


## 2.5 FID Slots

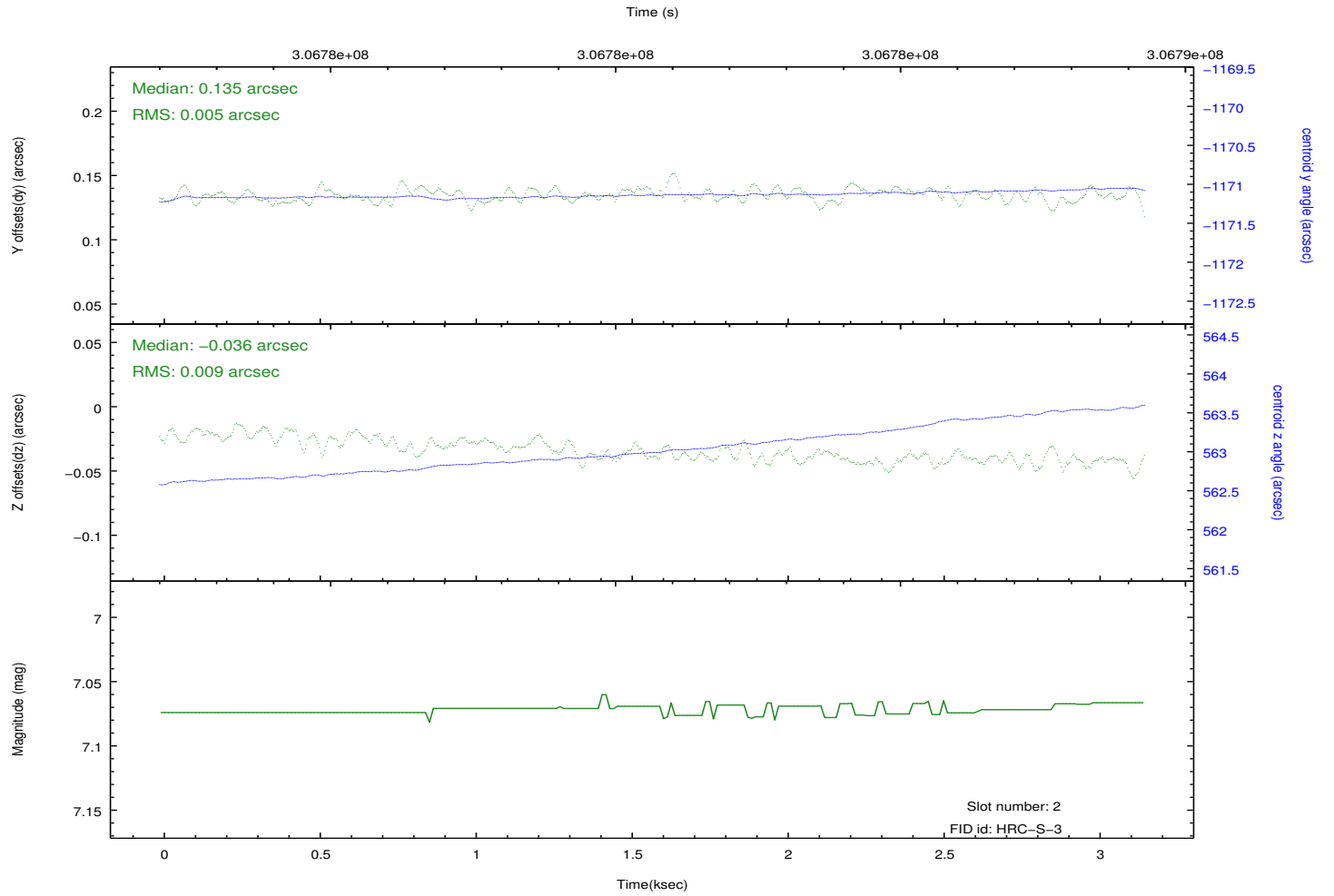
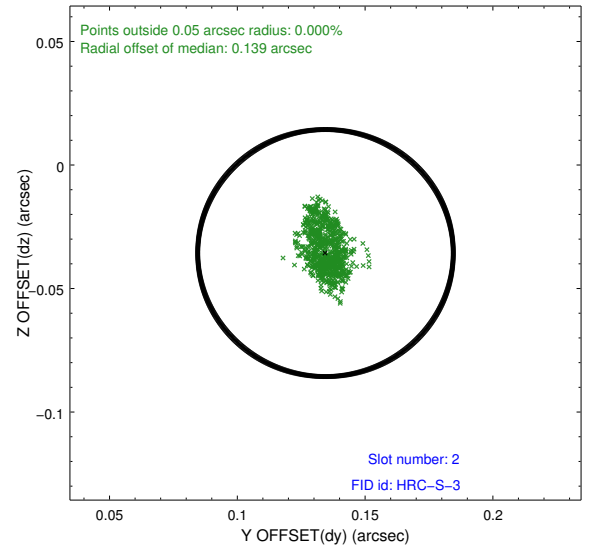
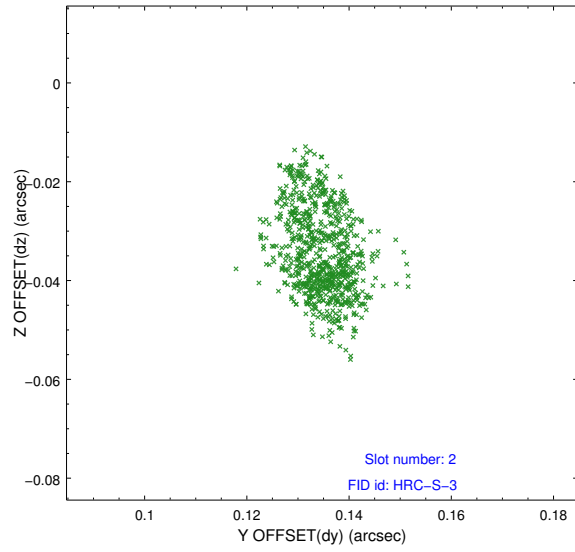
### 2.5.1 Slot 0



## 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)	2012.08.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.1603314

### A.2 Comments

Window constraint met.