

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11918 - L2 Version 2  
Chandra X-Ray Center

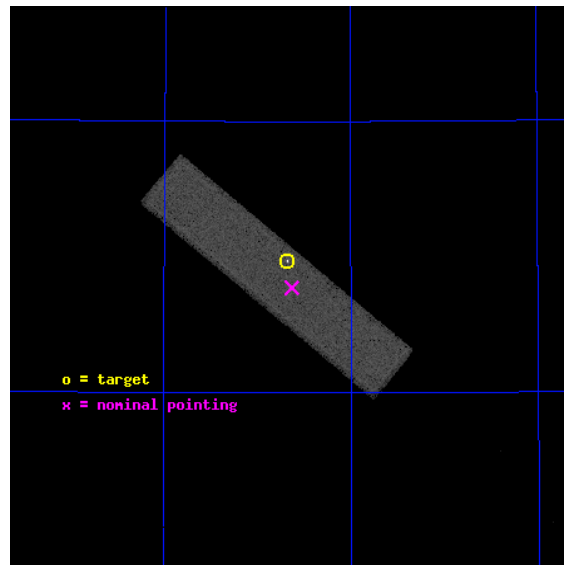
L2 Processing Date : Jul 3 2012

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# 1 Front

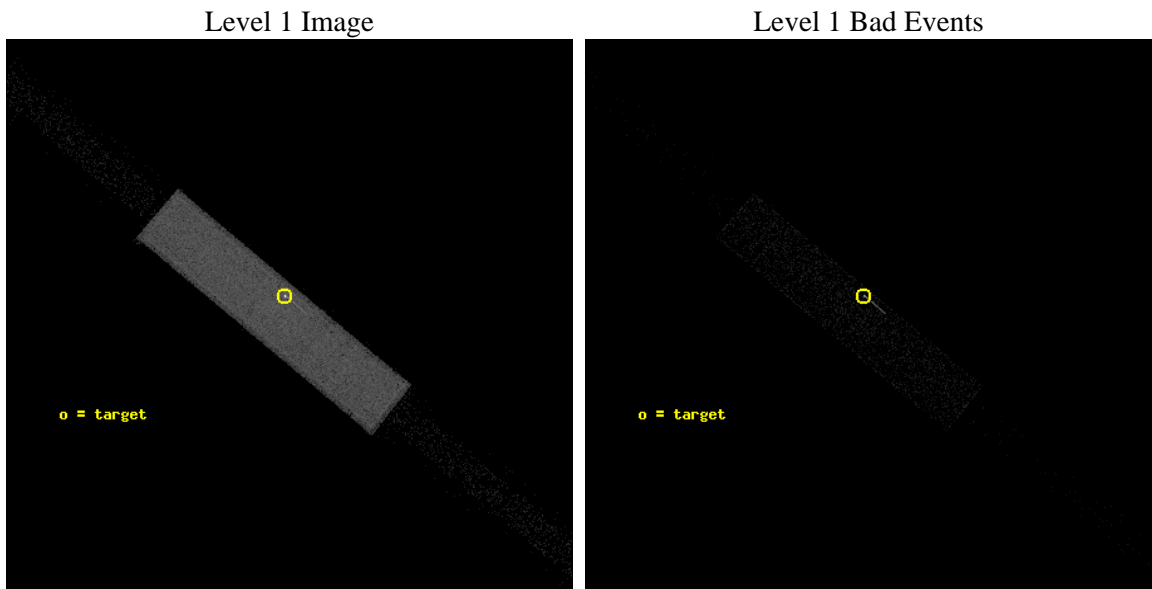
seq_num	290907	Sequence number
obs_id	11918	Observation id
title	AO-11 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.15809709365	Nominal RA [deg]
dec_nom	45.693174669471	Nominal Dec [deg]
roll_nom	219.64144830635	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1151.3313089609	[s]
livetime	1137.0575495506	Ontime multiplied by DTCOR
l2events	78225	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	8.4.5	Processing system revision	ontime	1151.3313089609	[s]
caldsver	4.5.0	&#160	l1events	121580	Number of level 1 events
date	2012-07-03T23:59:23	Date and time of file creation			
revision	2	Processing version of data			

### 2.1.3 Events

Level 1 Events

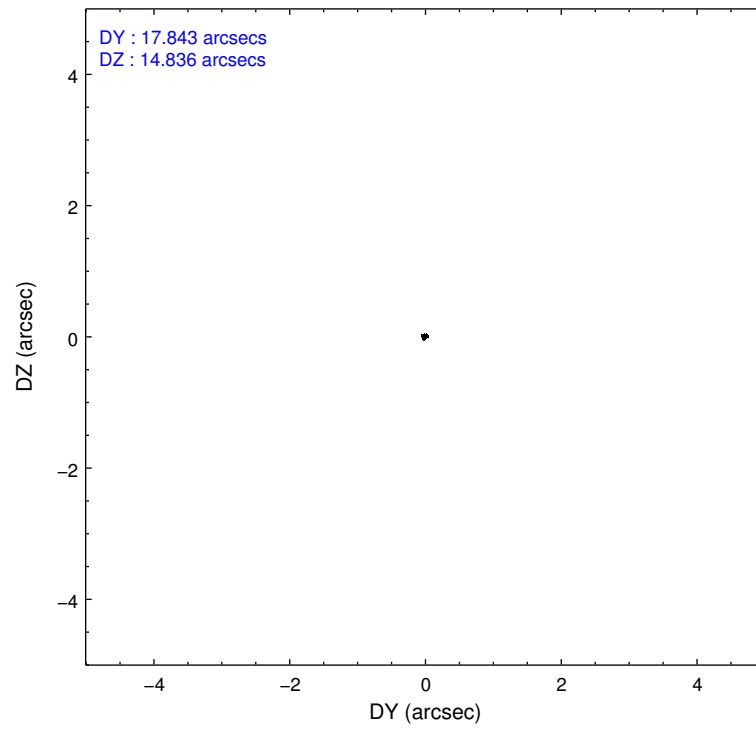
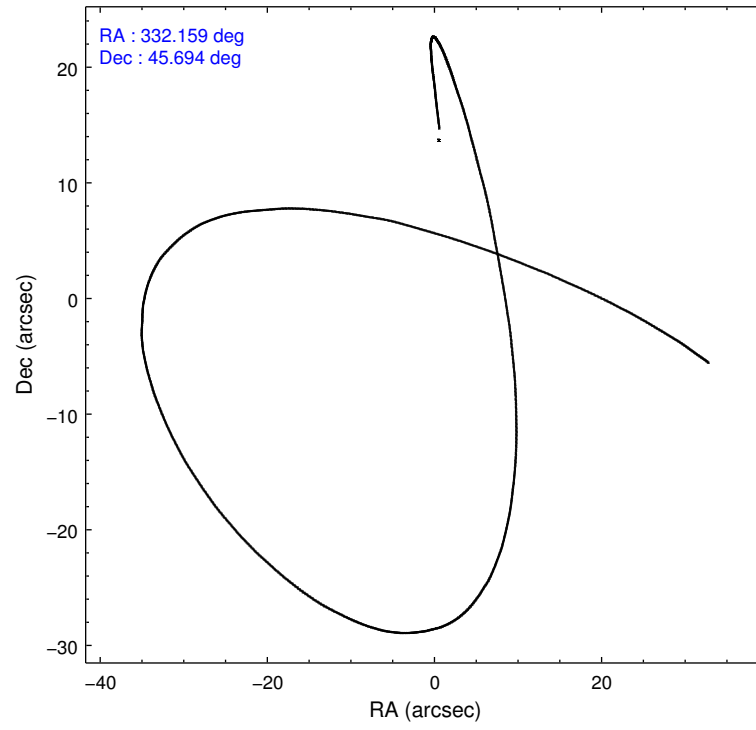
	segment 1	segment 2	segment 3
level 1 events	1060	119481	1039
rejected events	1060	28768	1037
rejected %	100%	24%	99%

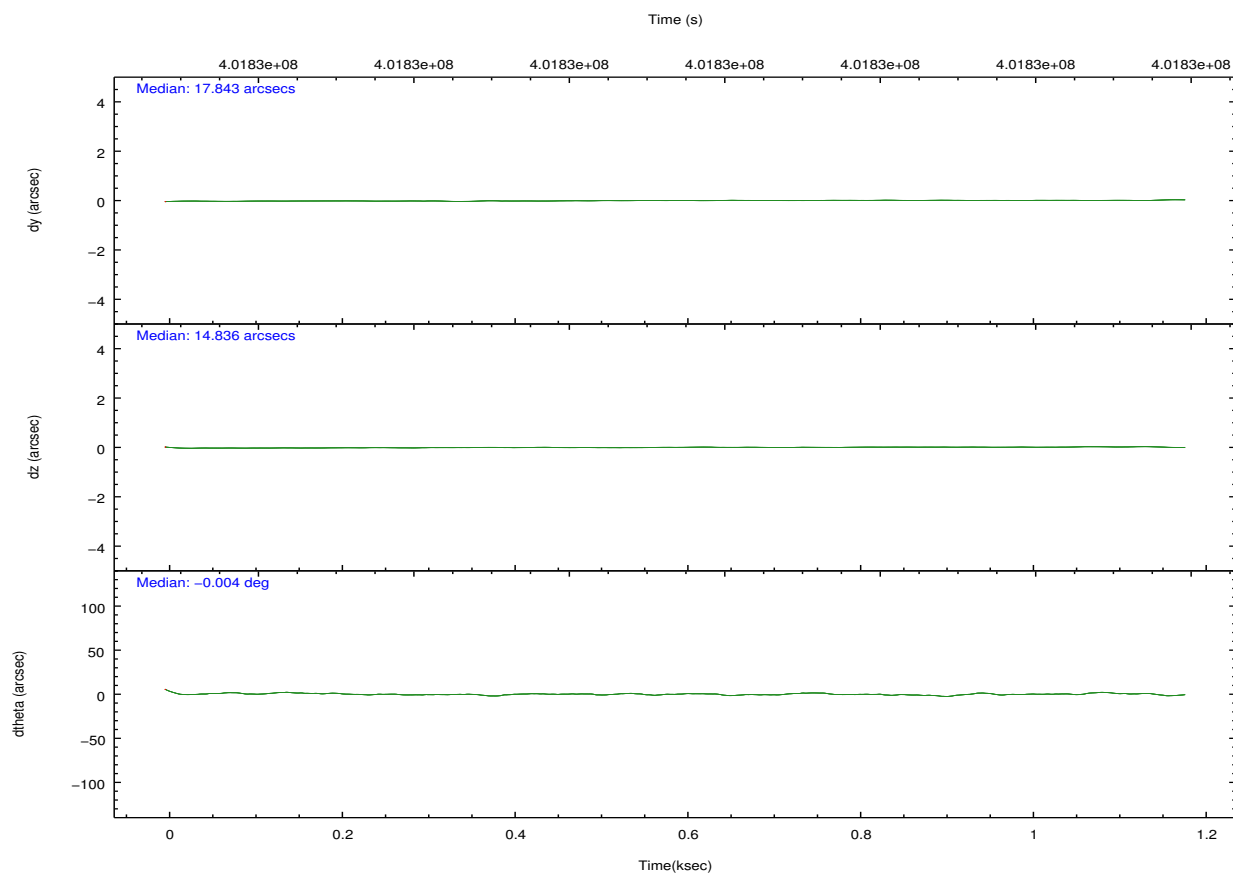
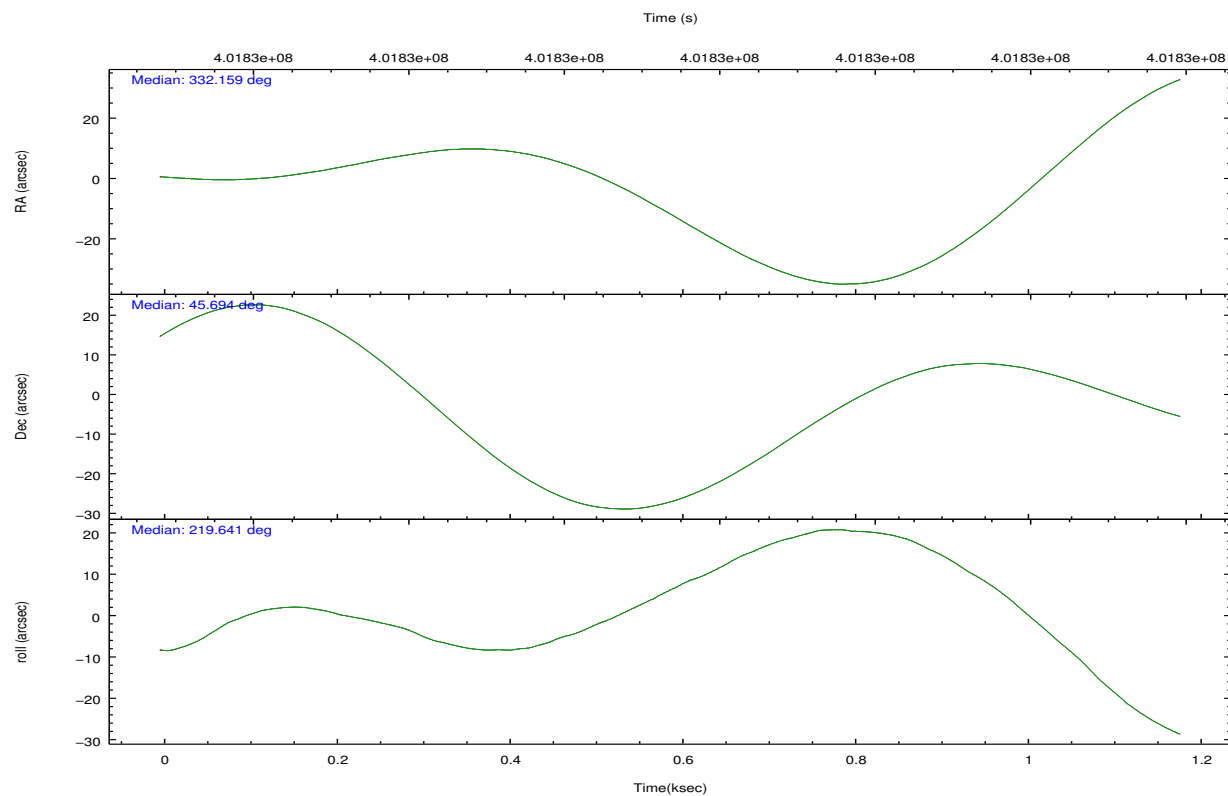
## 2.2 Compared Parameters

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	332.170663	332.158097093651
[deg] Pointing Dec	45.719762	45.69317466947057
[deg] Pointing Roll	219.565140	219.6414483063514
[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)	401830319.184000	401829943.46508
Observation start date	2010-09-25T19:30:53	2010-09-25T19:25:43
[s] Observation end time (MET)	401831319.184000	401831453.29016
Observation end date	2010-09-25T19:47:33	2010-09-25T19:50:53

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

## 2.3 Aspect





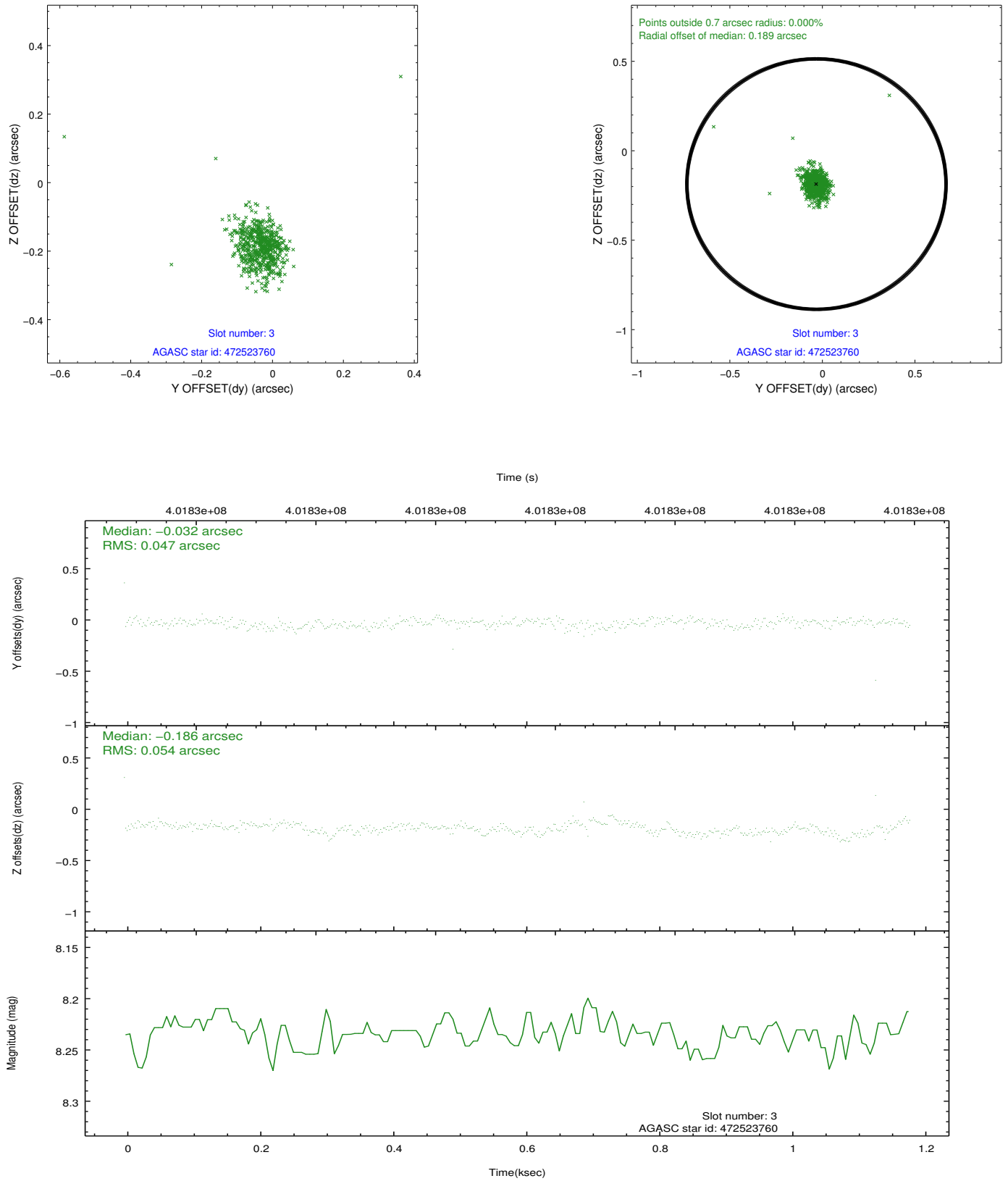
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-S-1	7.00	288	-0.024	-0.158	0.005	0.010	0.000000	0.000000	-1172.41	-463.70
1	FID	HRC-S-2	6.98	289	0.162	-0.098	0.009	0.017	0.000000	0.000000	1223.38	-457.86
2	FID	HRC-S-4	6.93	289	0.264	-0.047	0.008	0.013	0.000000	0.000000	1230.34	566.93
3	GUIDE	472523760	8.23	577	-0.032	-0.186	0.062	0.109	331.645363	45.403260	1748.48	31.88
4	GUIDE	472533912	9.15	576	0.085	0.149	0.136	0.221	331.791136	46.368695	-757.74	-2400.20
5	GUIDE	472665256	9.02	576	0.110	0.148	0.086	0.153	332.808125	46.195041	-2317.79	-313.36
6	GUIDE	420754040	9.06	577	-0.168	0.036	0.106	0.164	331.917939	44.882543	2412.63	1914.92
7	GUIDE	472655152	9.42	576	0.018	-0.143	0.116	0.201	332.504239	45.862991	-968.19	139.94

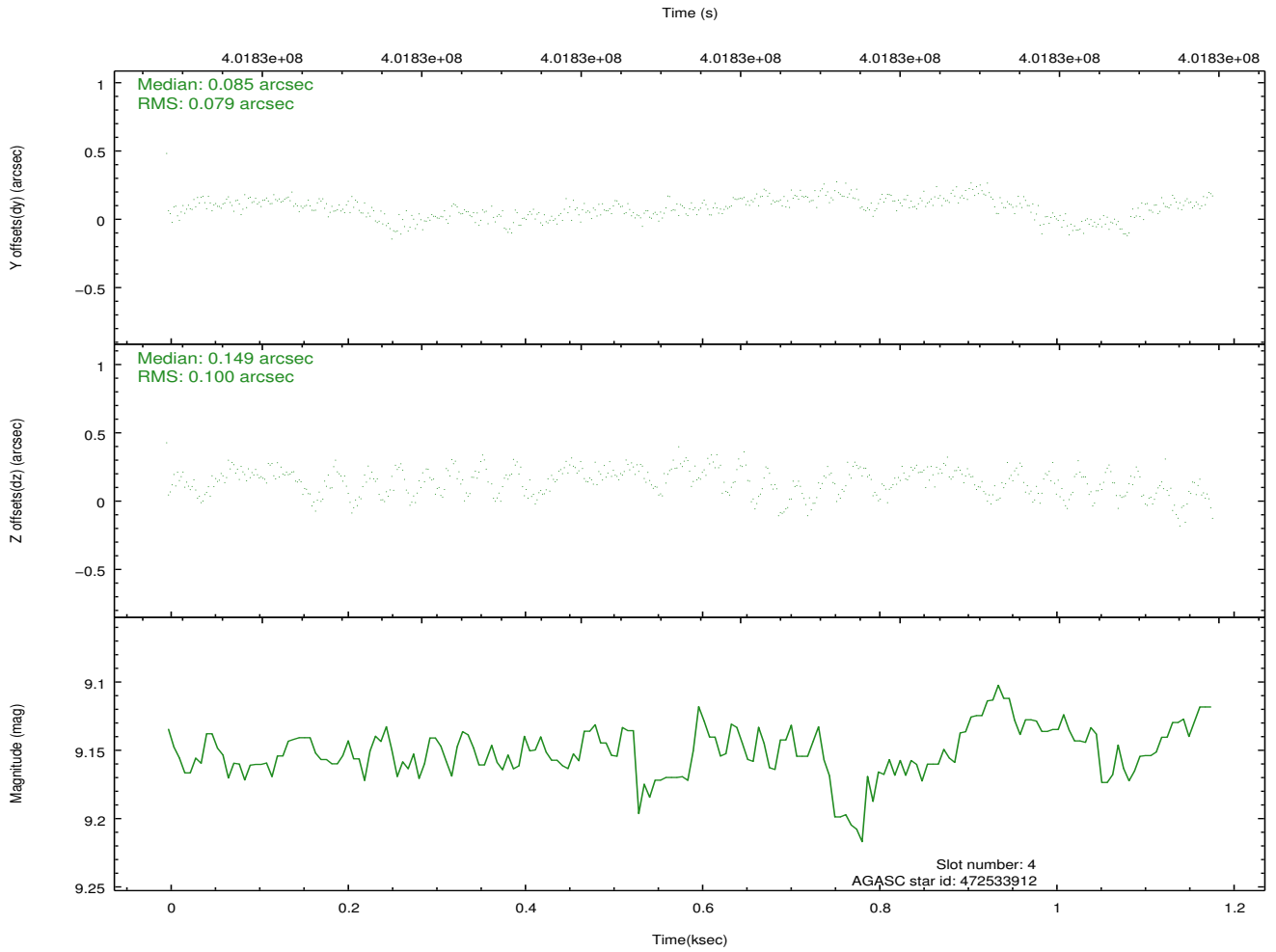
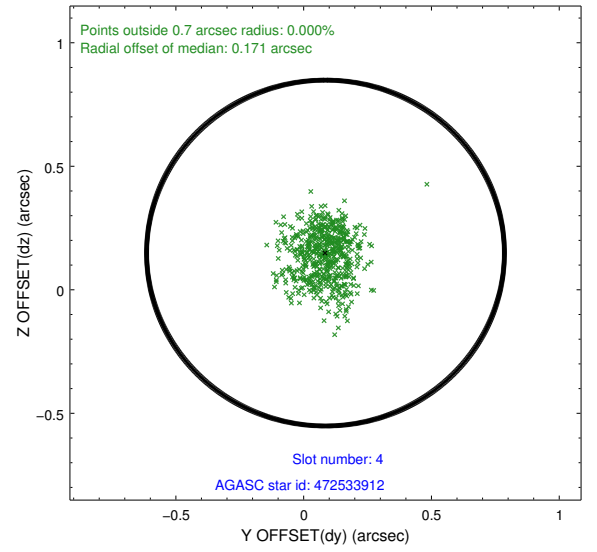
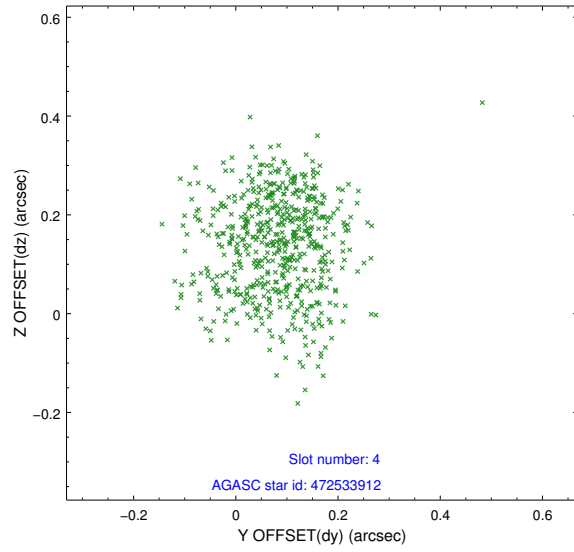


## 2.4 Star Slots

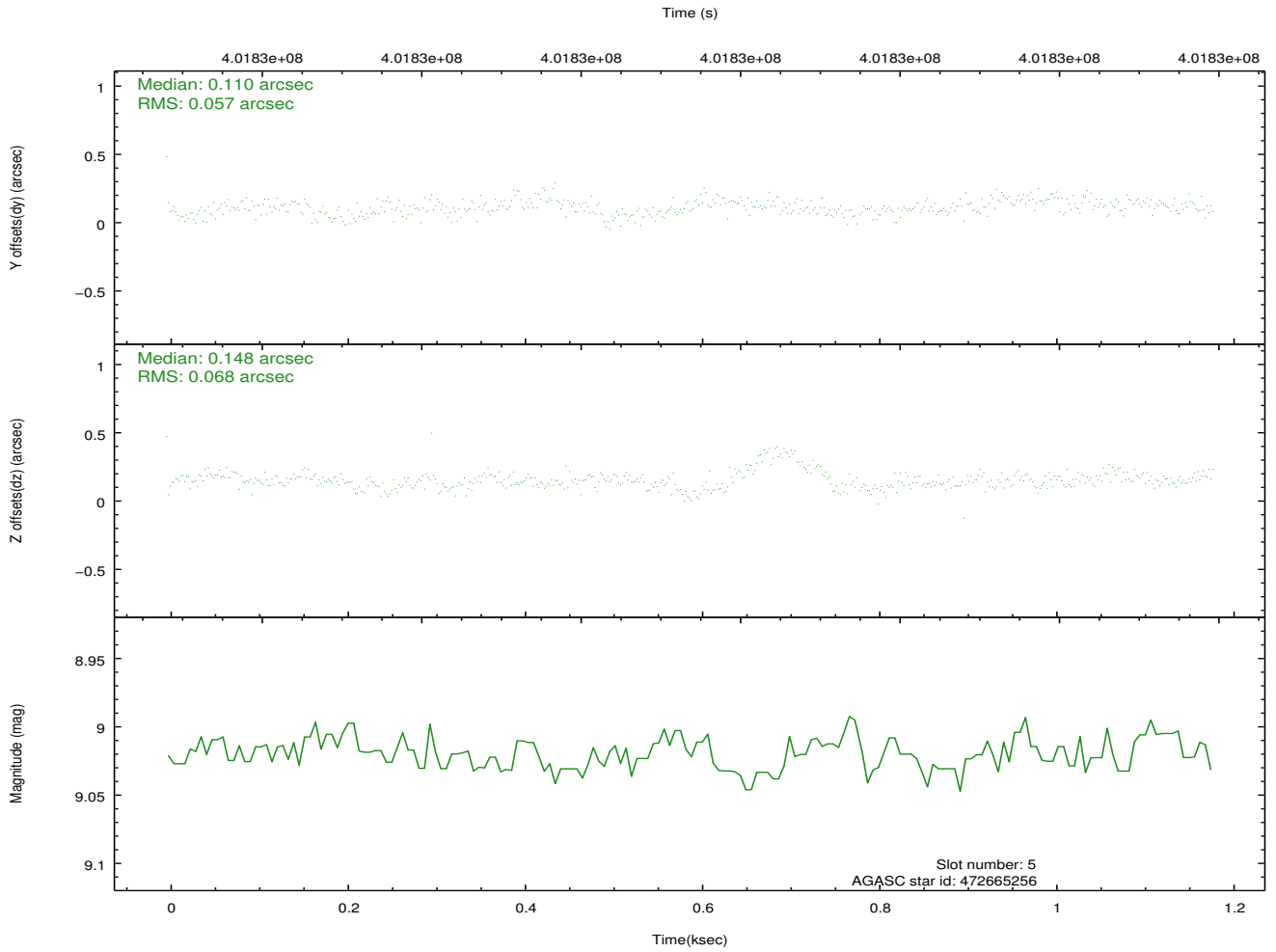
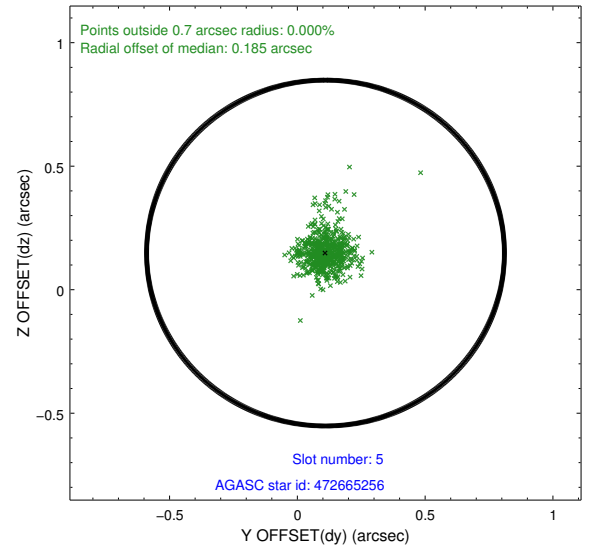
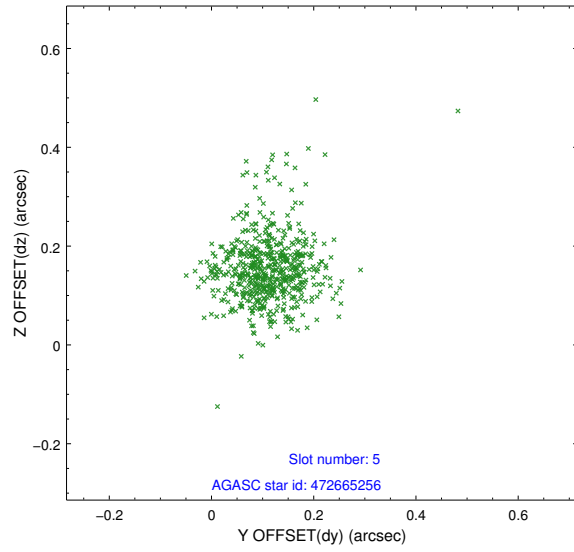
### 2.4.1 Slot 3



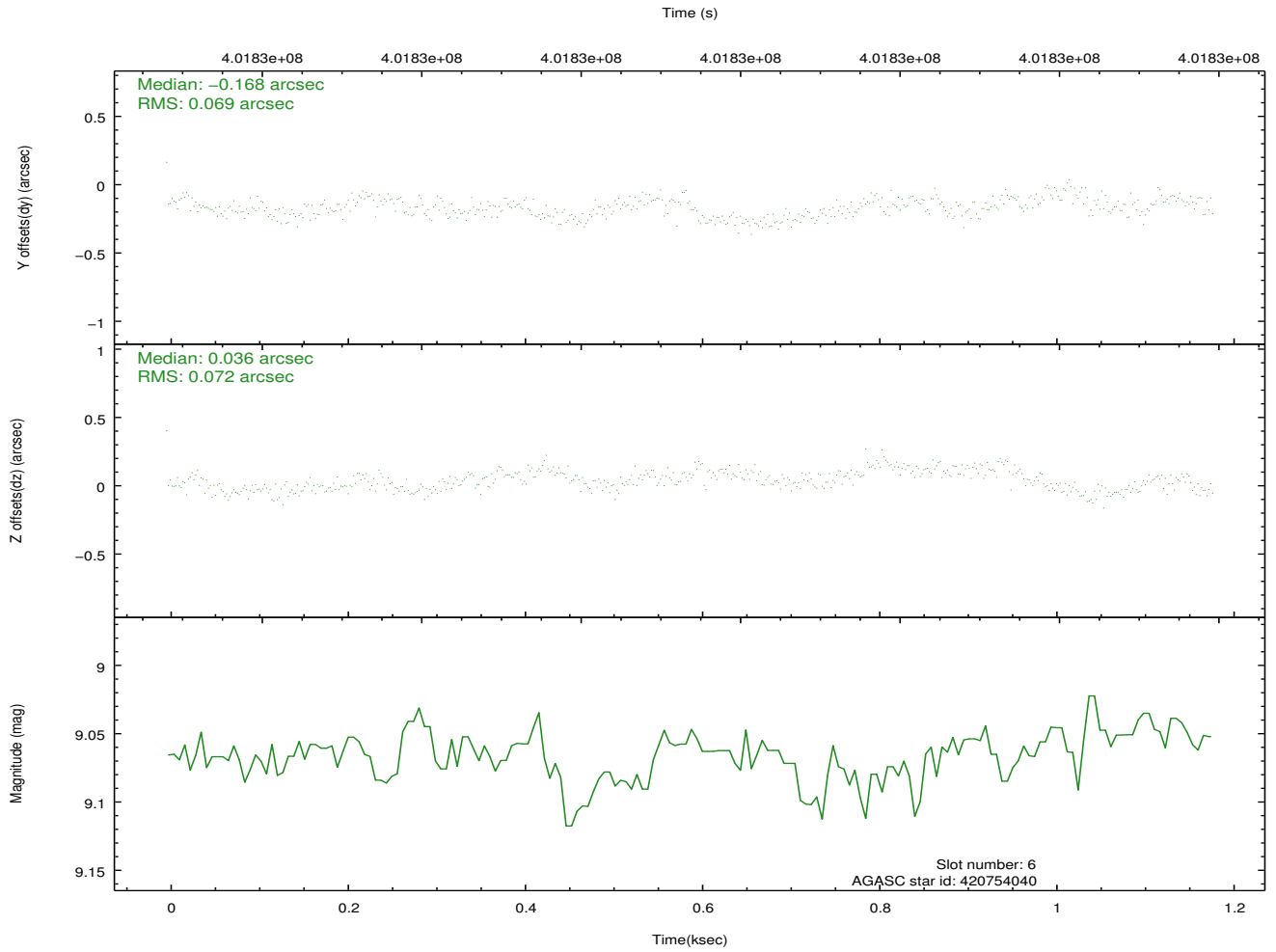
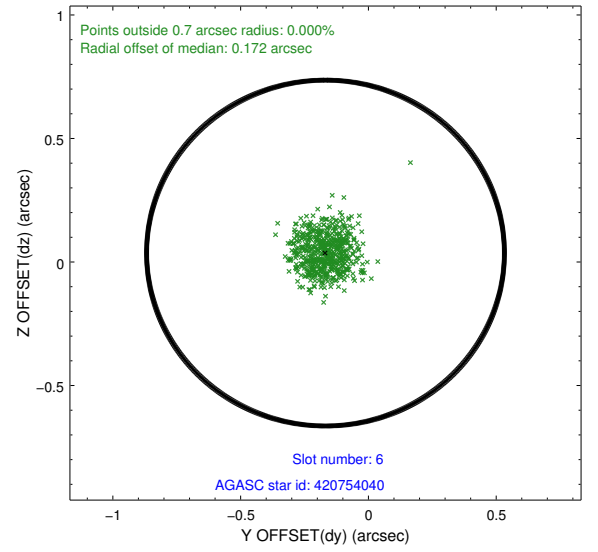
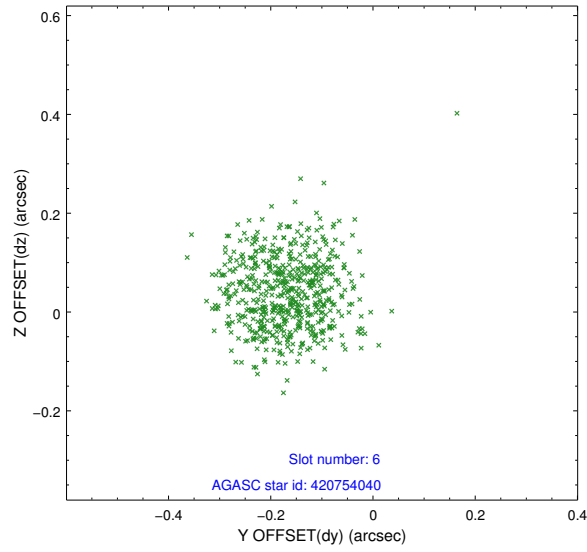
## 2.4.2 Slot 4



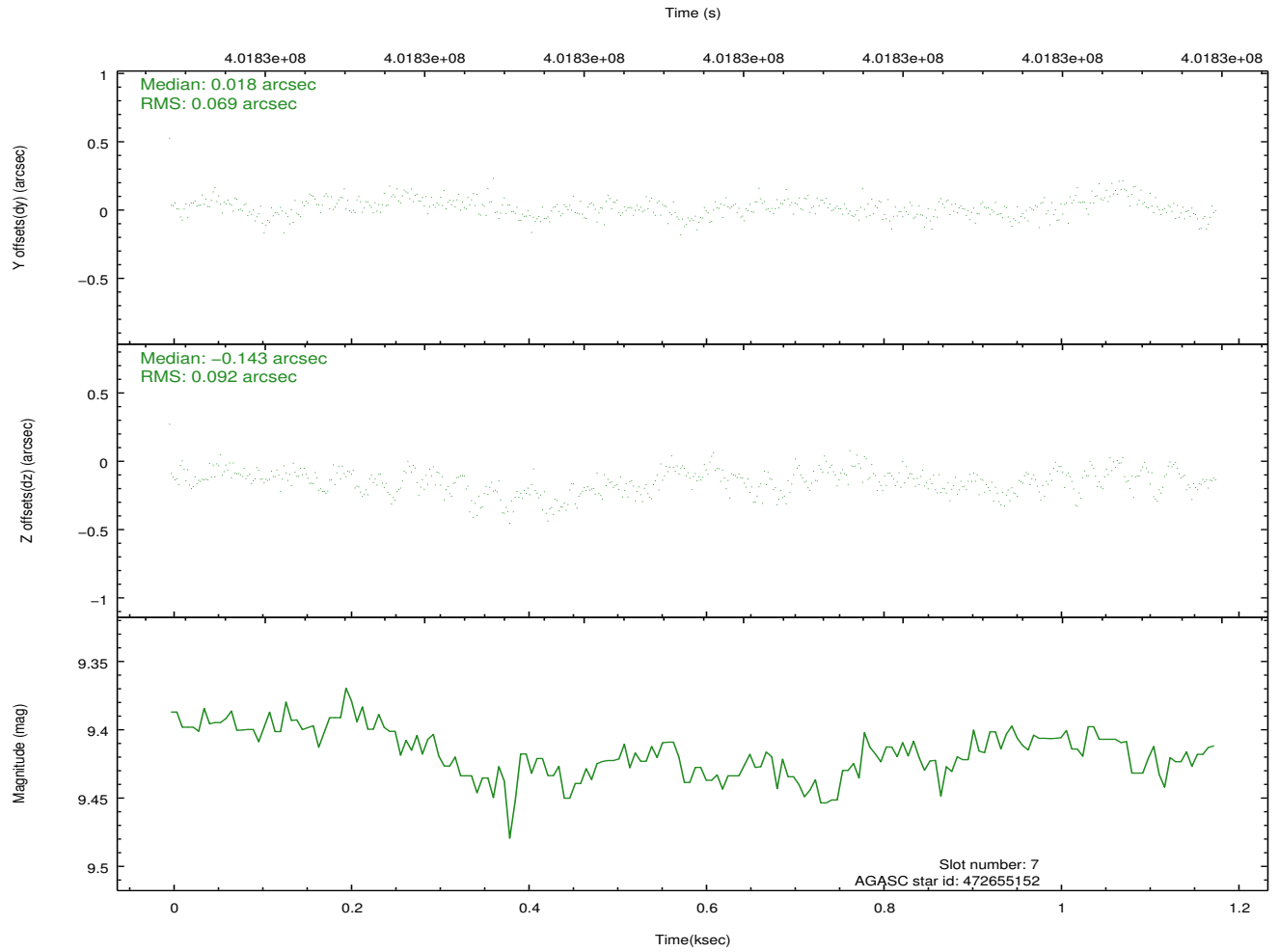
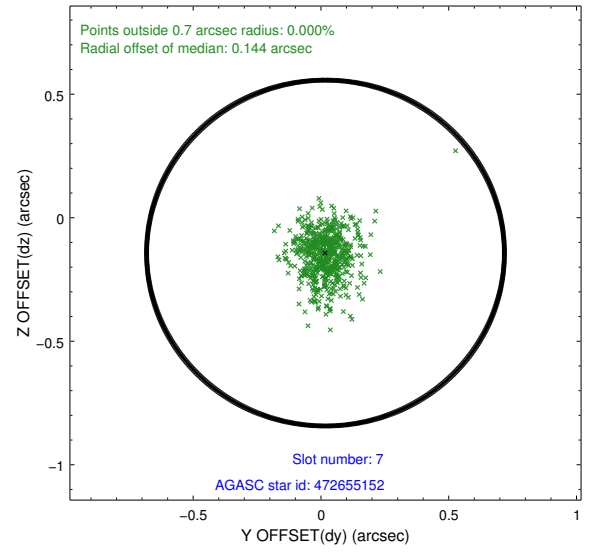
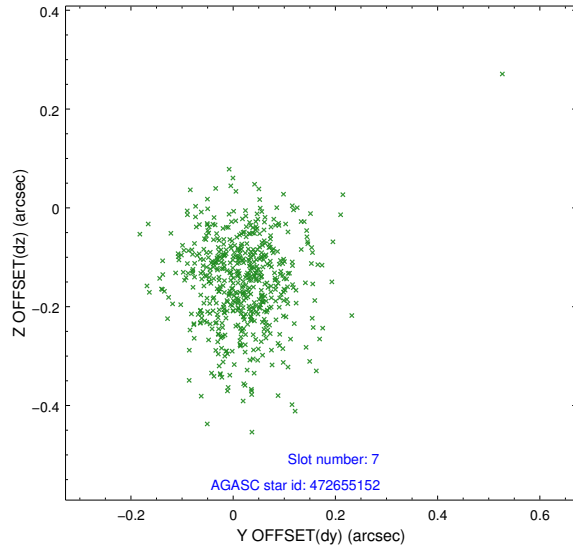
### 2.4.3 Slot 5



## 2.4.4 Slot 6

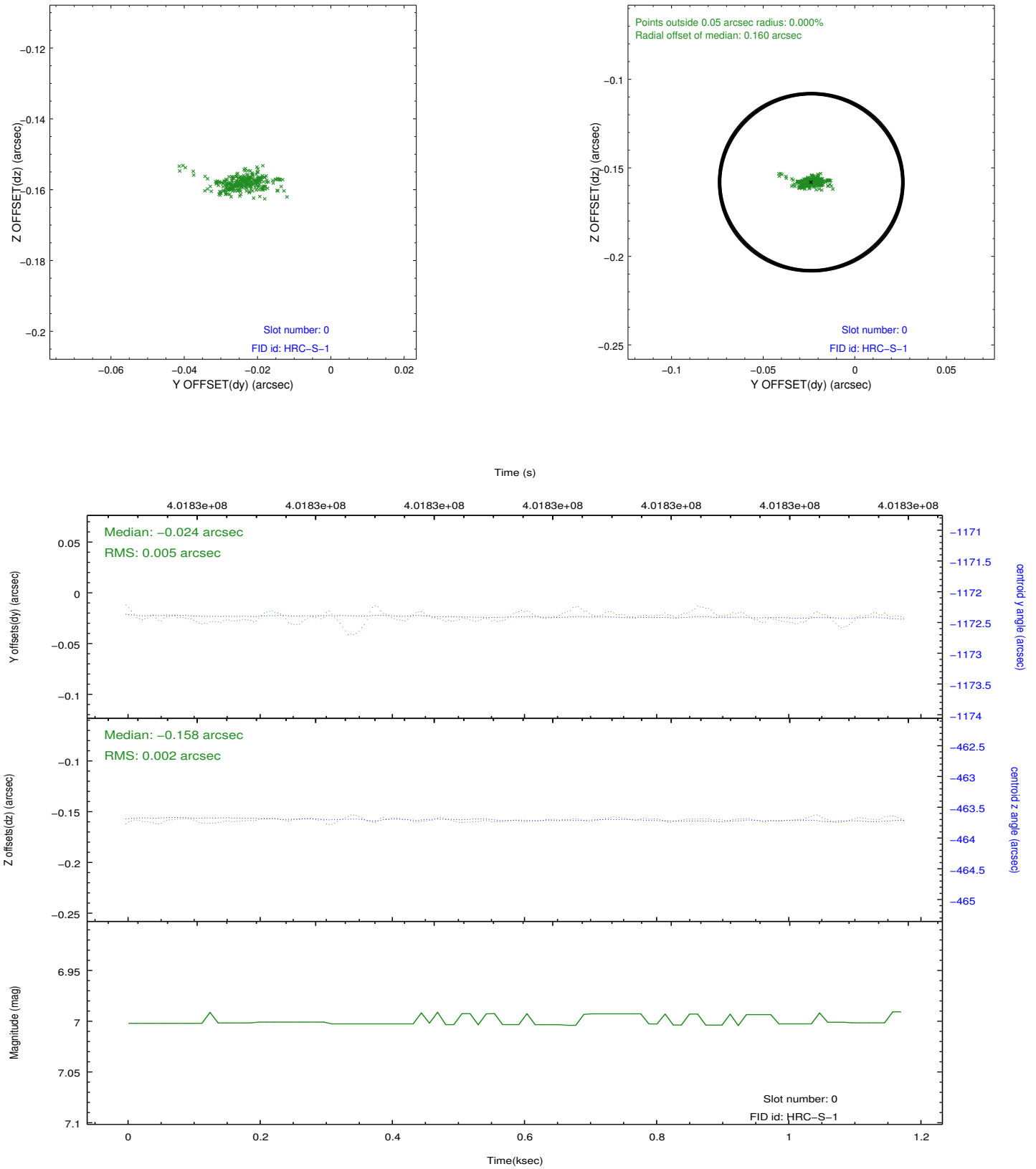


## 2.4.5 Slot 7

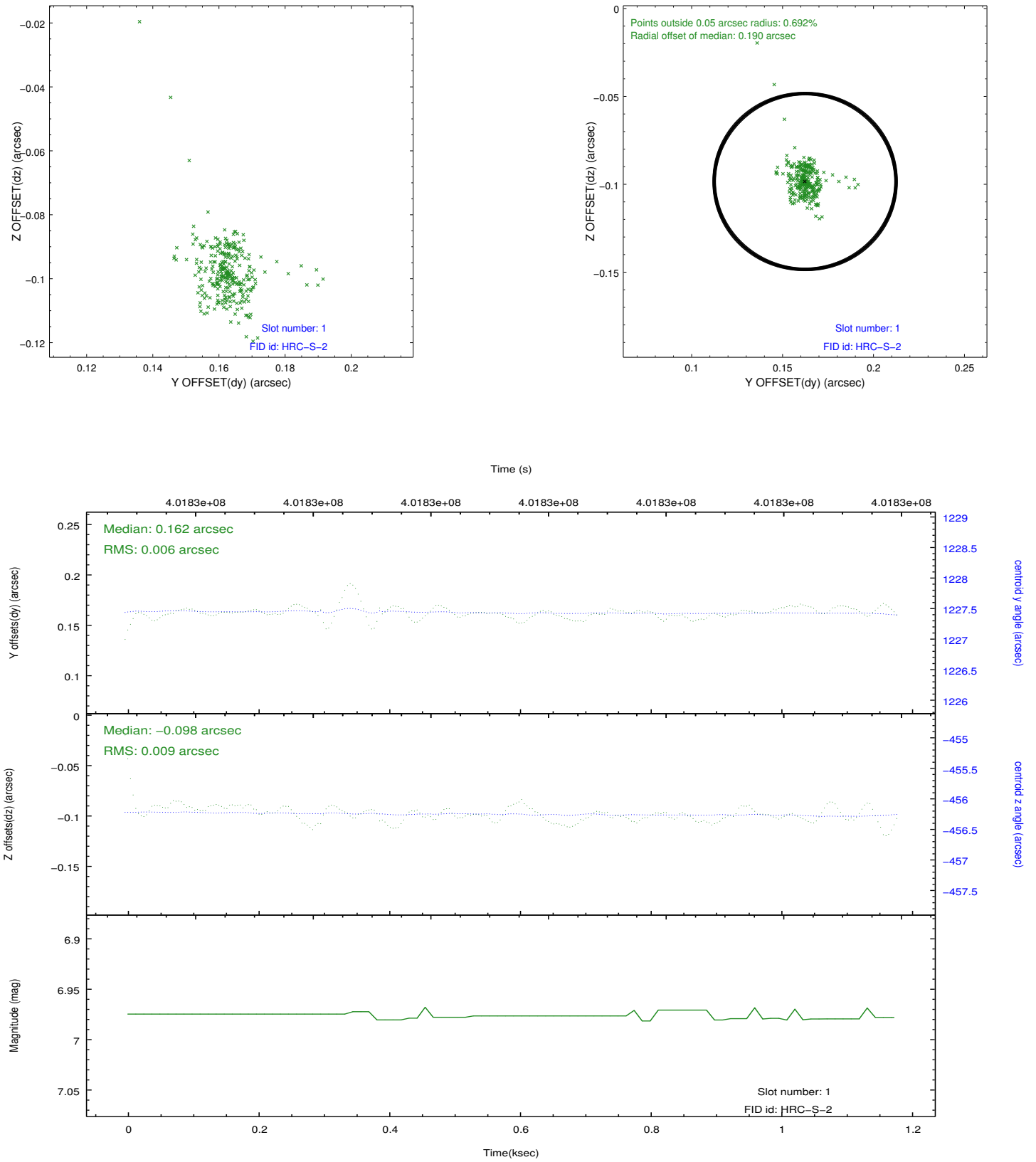


## 2.5 FID Slots

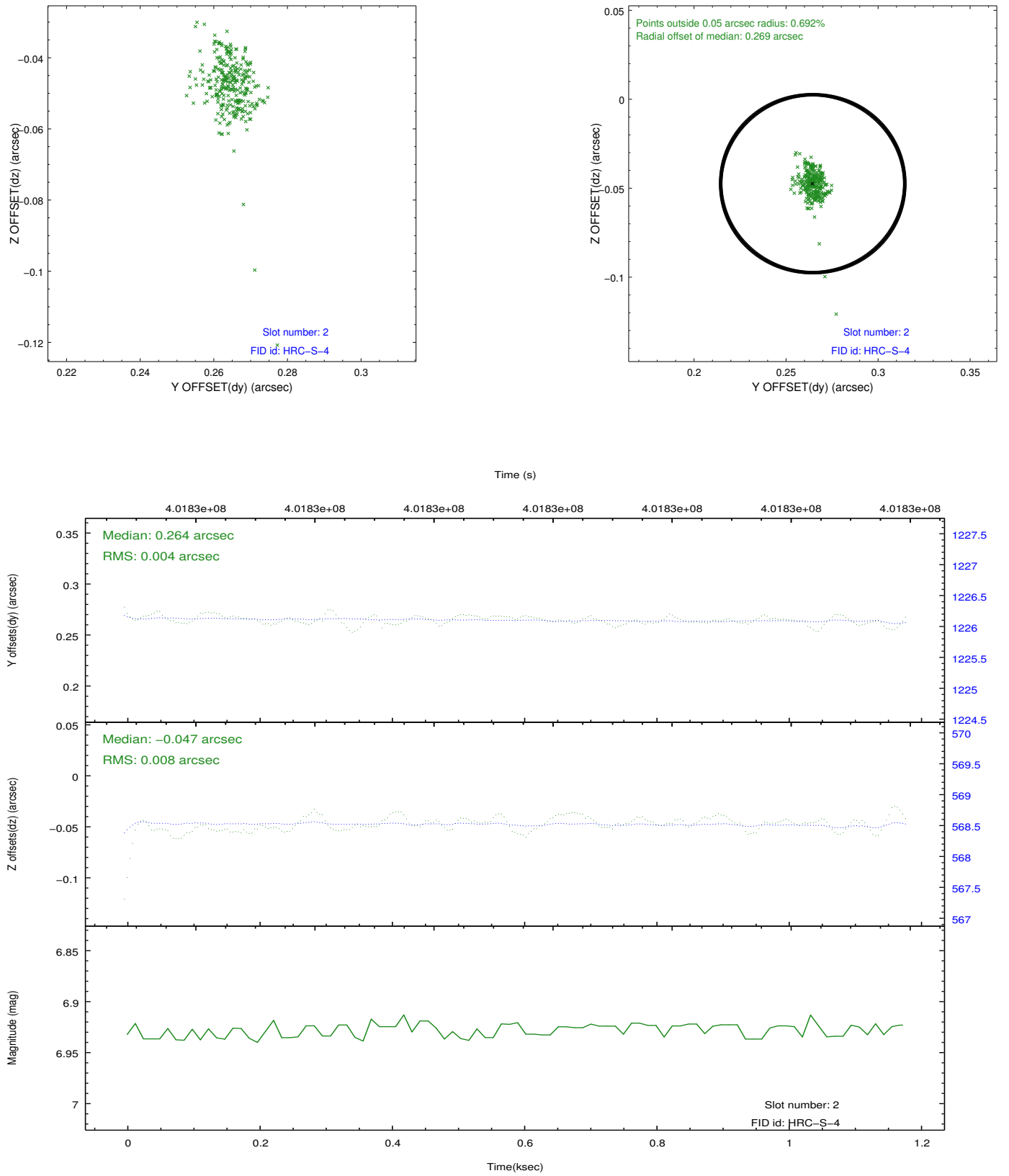
### 2.5.1 Slot 0



## 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)	2012.07.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.1513313090801

### A.2 Comments