

# V&V Reference Report

## L2 ASCDS Version : 10.4.1

Observation 17363 - L2 Version 1  
Chandra X-Ray Center

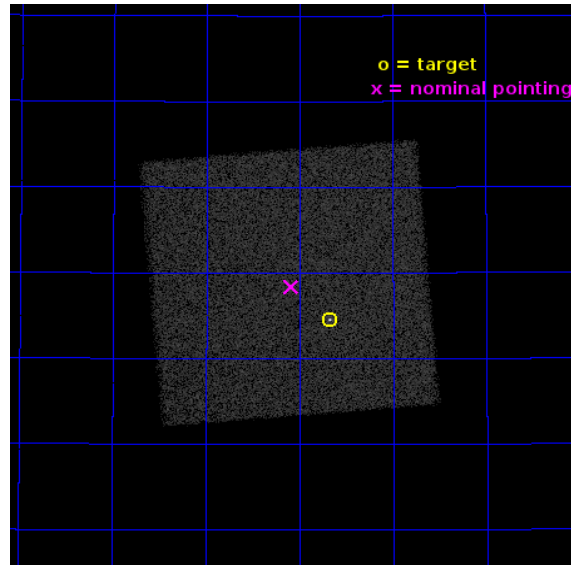
L2 Processing Date : Sep 27 2015

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# 1 Front

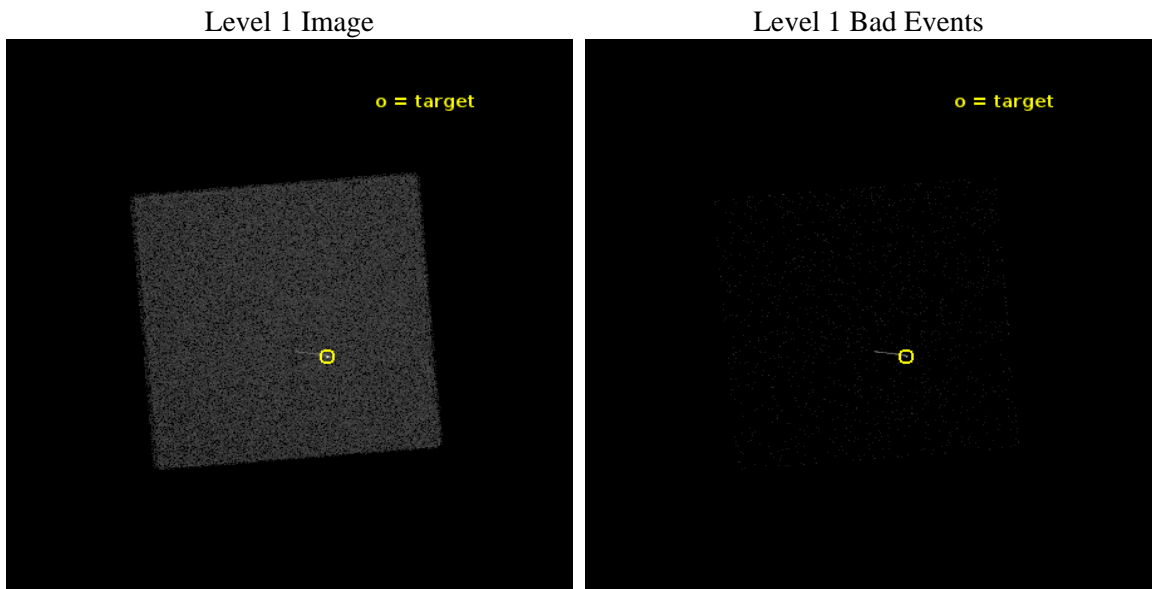
seq_num	291236	Sequence number
obs_id	17363	Observation id
title	AO-16 Calibration Observations to Monitor the Spatial Variations in the HRC-I Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.27203660679	Nominal RA [deg]
dec_nom	45.806246298448	Nominal Dec [deg]
roll_nom	220.25418722951	Nominal Roll [deg]
revision	1	Processing version of data
ontime	1180.031316638	[s]
livetime	1169.2634383215	Ontime multiplied by DTCOR
l2events	89196	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	10.4.1	Processing system revision	ontime	1180.031316638	[s]
caldbver	4.6.8	&#160	l1events	149837	Number of level 1 events
date	2015-09-27T05:24:42	Date and time of file creation			
revision	1	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

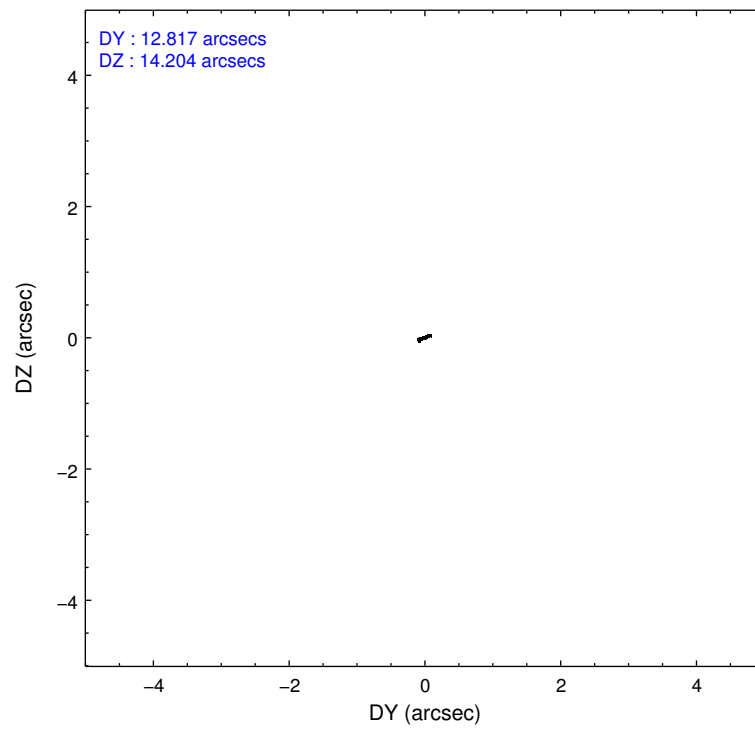
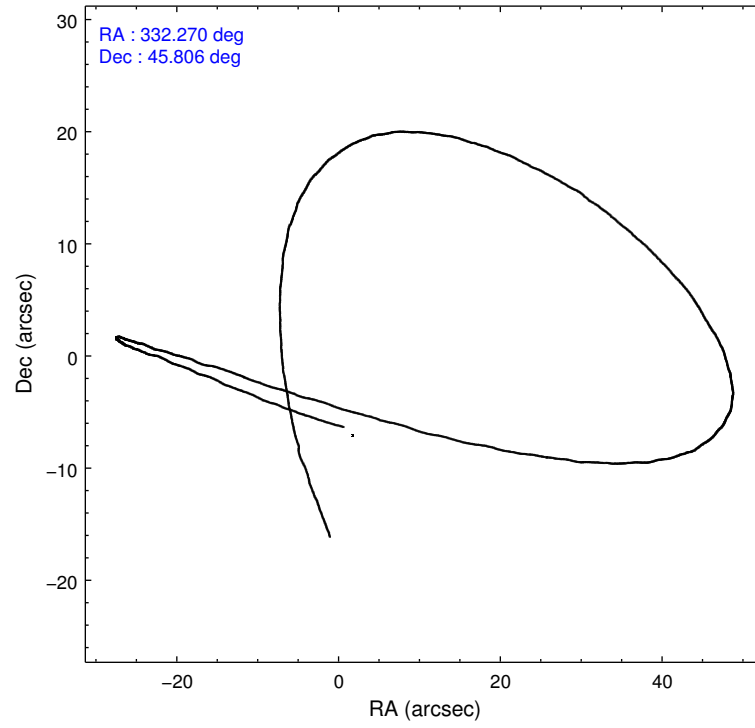
	<b>segment 0</b>
level 1 events	149837
rejected events	32058
rejected %	21%

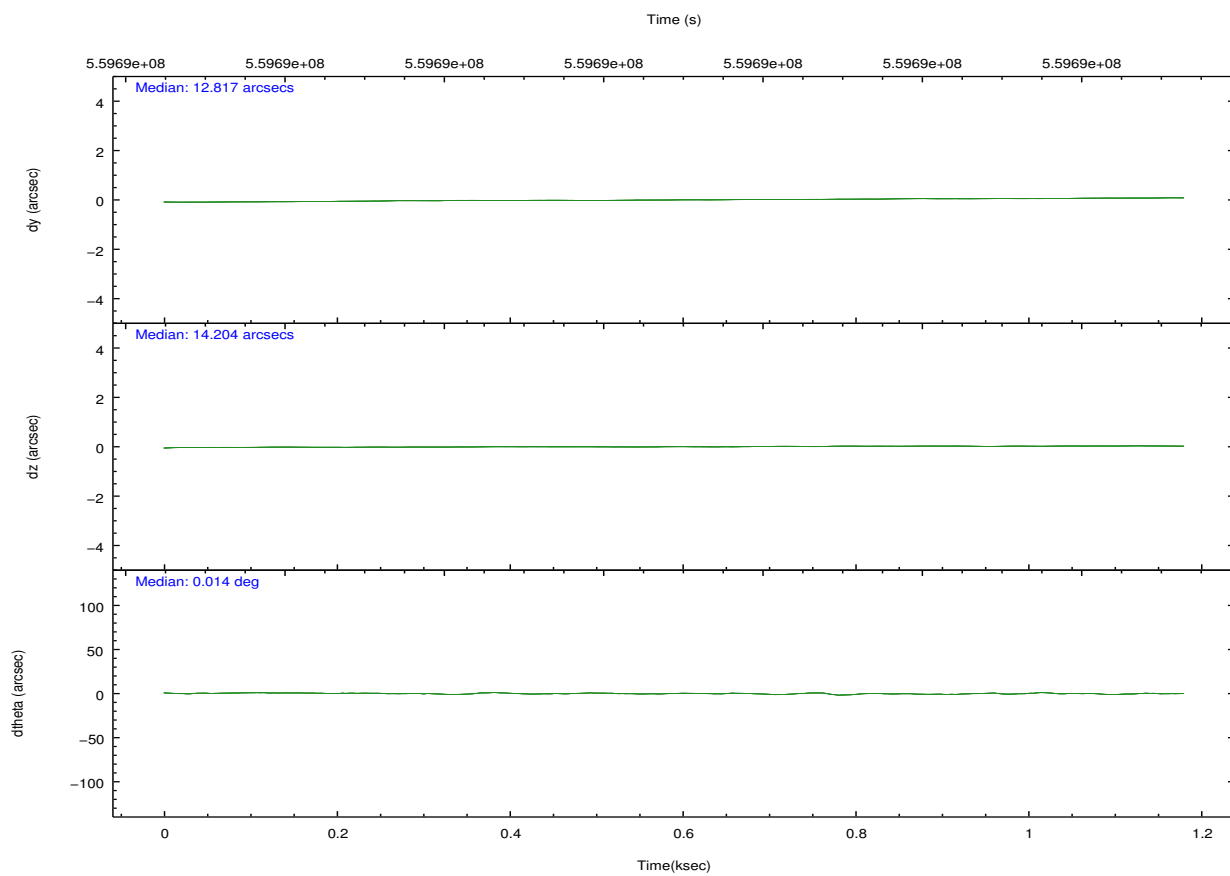
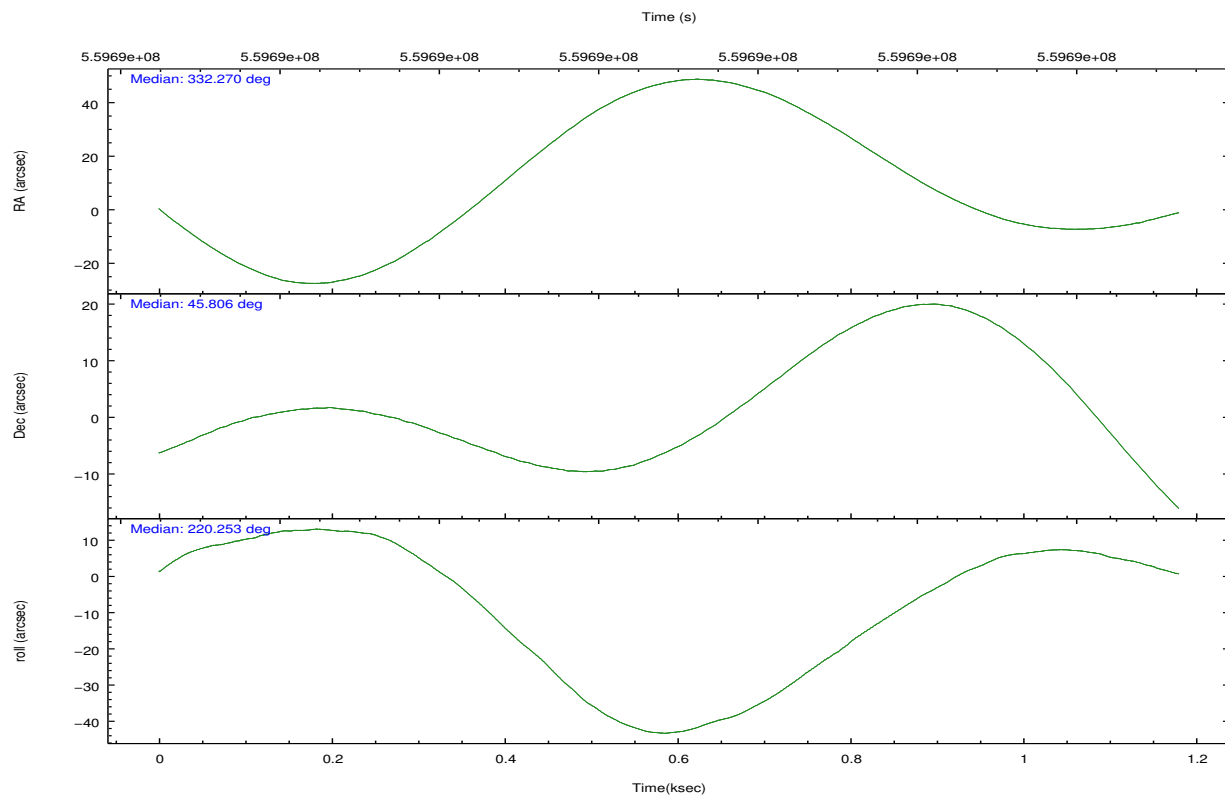
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	332.285800	332.2720366067897
[deg] Pointing Dec	45.831561	45.80624629844769
[deg] Pointing Roll	220.339821	220.2541872295122
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9829799899862
[mm] SIM translation stage offset	0	0.002508901615314585
[s] Observation start time (MET)	559687092.184000	559686716.16945
Observation start date	2015-09-26T20:37:04	2015-09-26T20:31:56
[s] Observation end time (MET)	559688092.184000	559688226.50704
Observation end date	2015-09-26T20:53:44	2015-09-26T20:57:06

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

## 2.3 Aspect





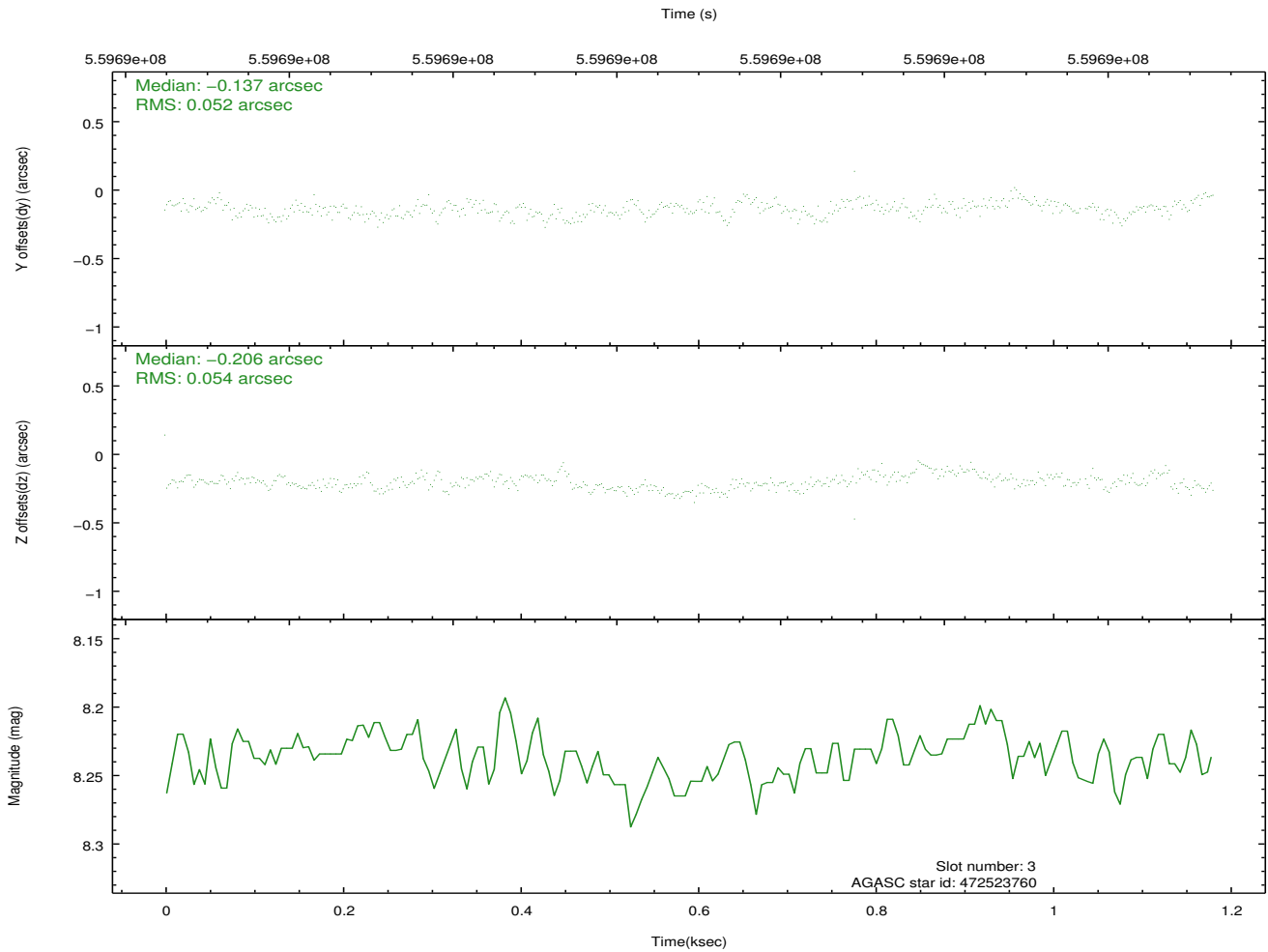
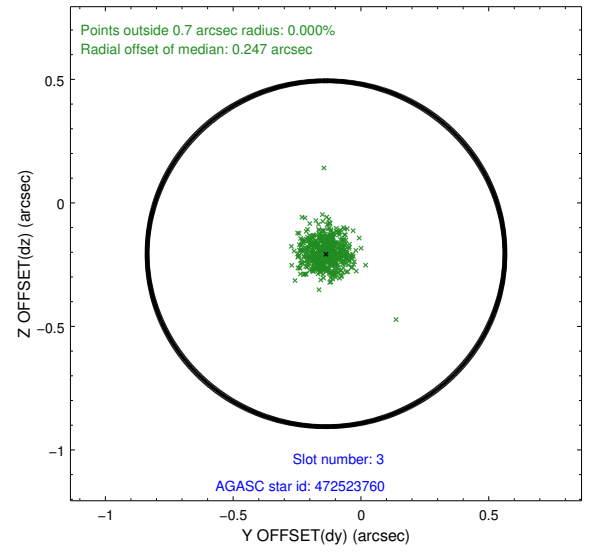
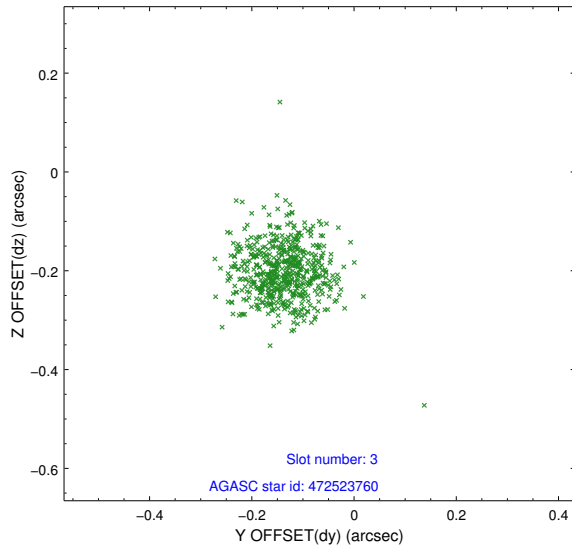
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.00	288	-0.270	-0.130	0.005	0.011	0.000000	0.000000	-768.95	-1302.32
1	FID		HRC-I-2	7.03	288	0.257	-0.061	0.006	0.010	0.000000	0.000000	841.54	-1308.49
2	FID		HRC-I-4	7.01	288	0.129	0.098	0.004	0.008	0.000000	0.000000	1277.37	995.35
3	GUIDE	used	472523760	8.24	575	-0.137	-0.206	0.079	0.123	331.645363	45.403260	2226.97	126.49
4	GUIDE	used	472533912	9.14	577	0.203	0.141	0.131	0.224	331.791136	46.368695	-314.22	-2267.72
5	GUIDE	used	472655152	9.41	575	-0.026	-0.165	0.159	0.300	332.504239	45.862991	-492.61	267.91
6	GUIDE	used	472665256	9.02	577	0.052	0.200	0.133	0.218	332.808125	46.195041	-1843.53	-153.38
7	GUIDE	used	472654568	9.40	574	-0.104	0.037	0.126	0.218	332.194449	45.063576	1962.43	1961.02

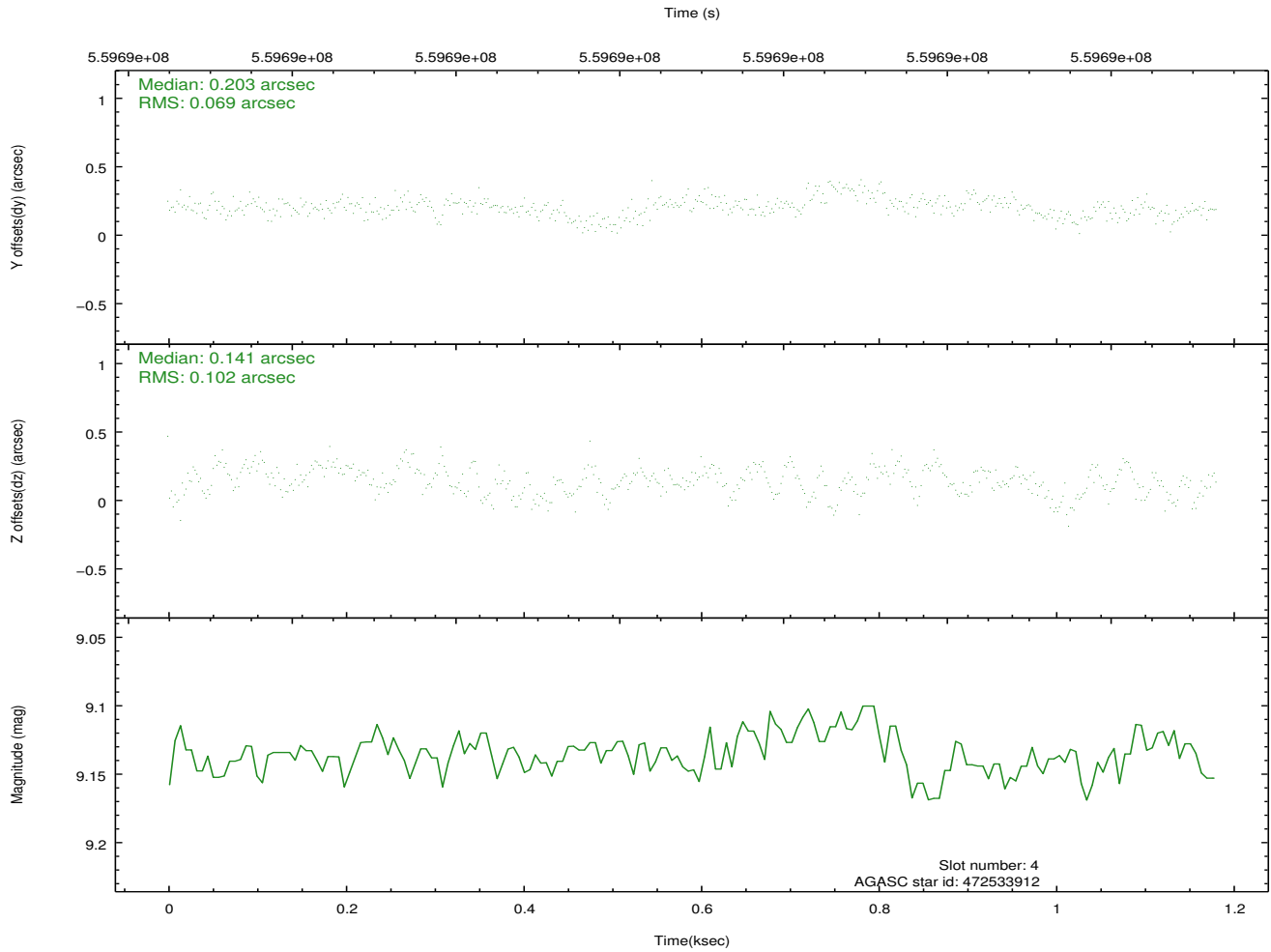
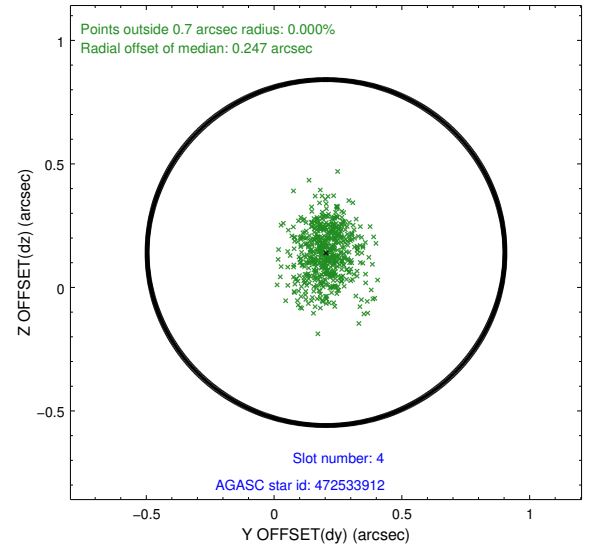
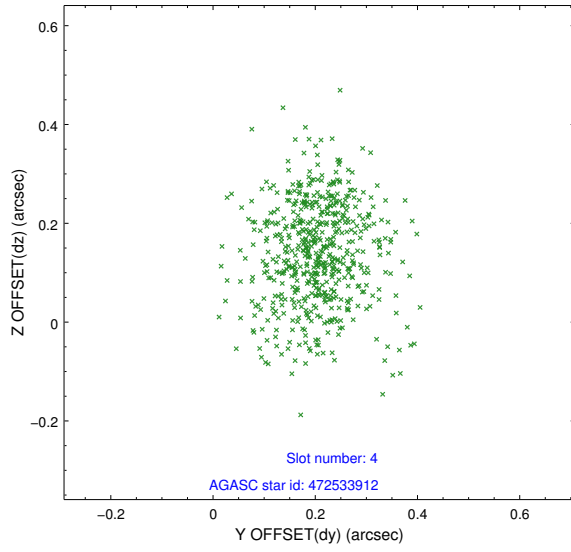


## 2.4 Star Slots

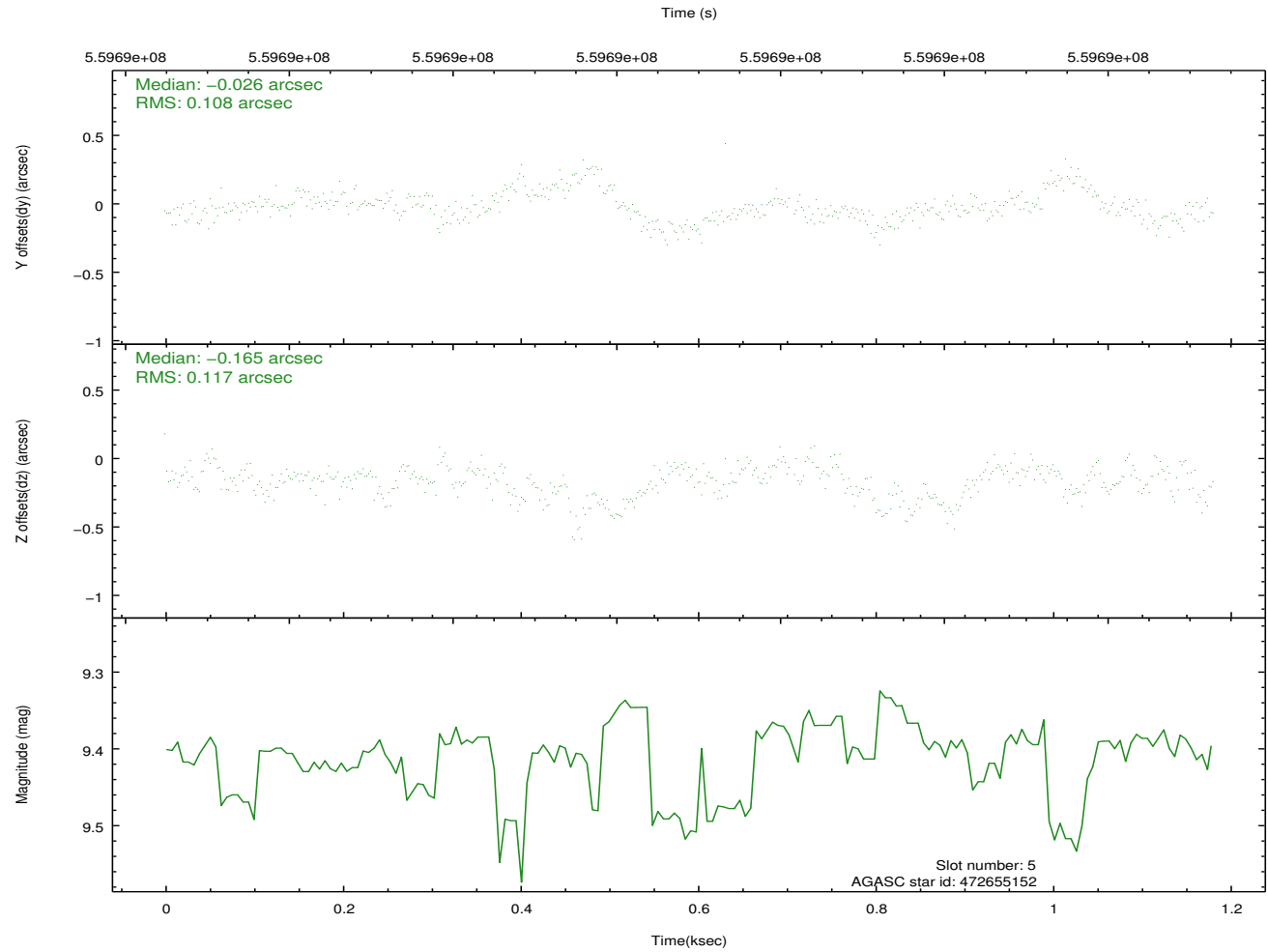
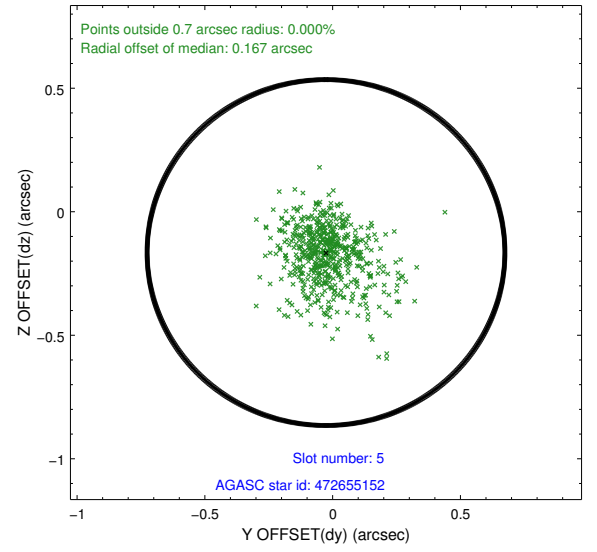
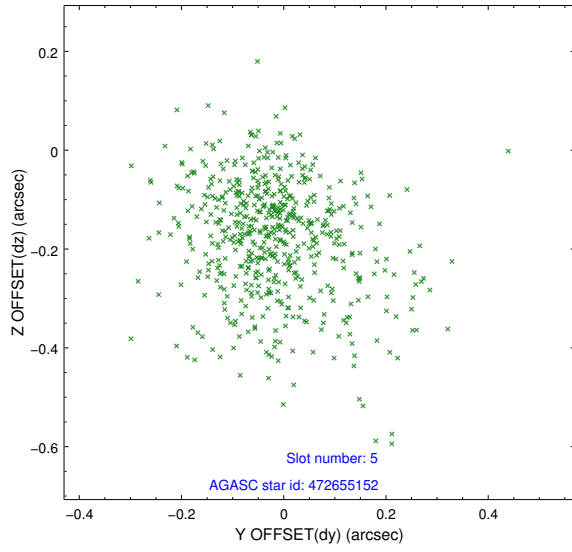
### 2.4.1 Slot 3



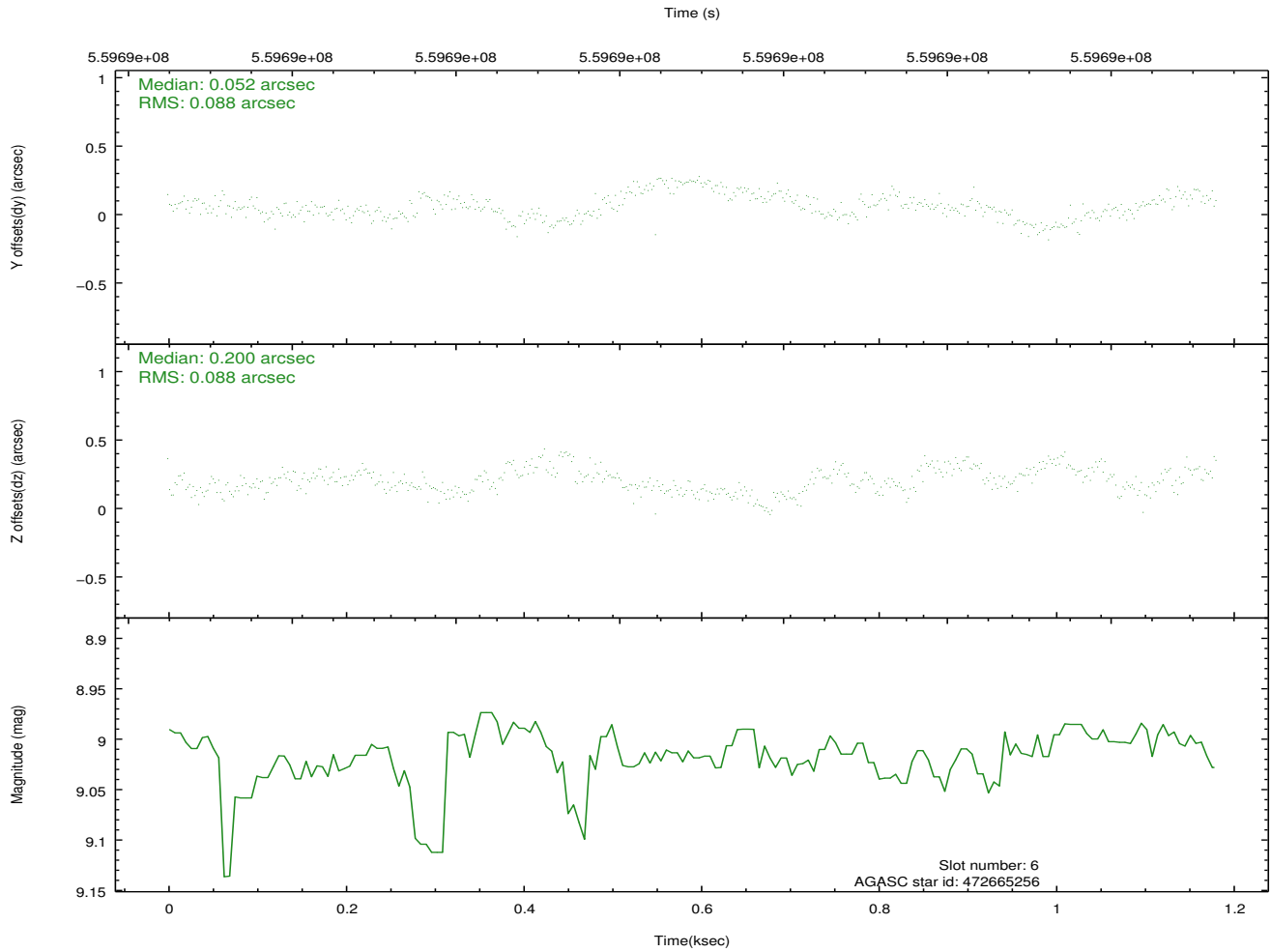
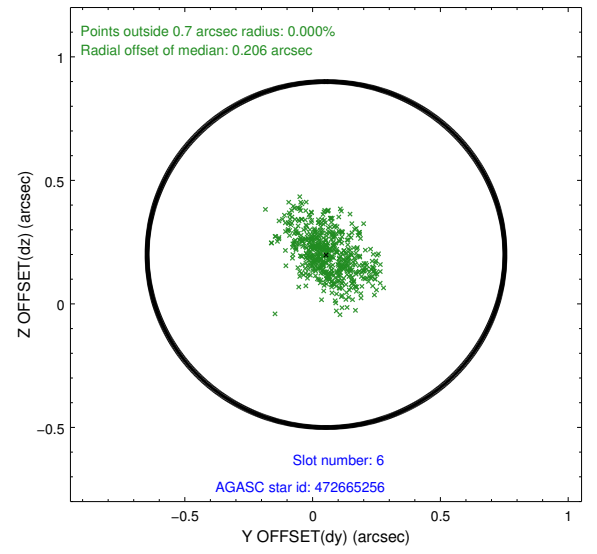
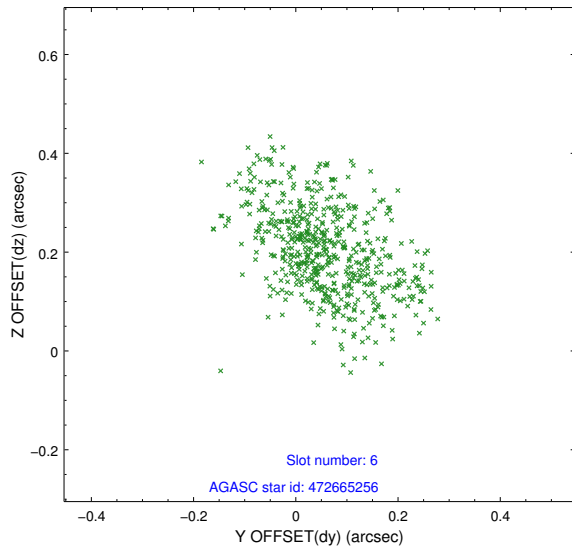
## 2.4.2 Slot 4



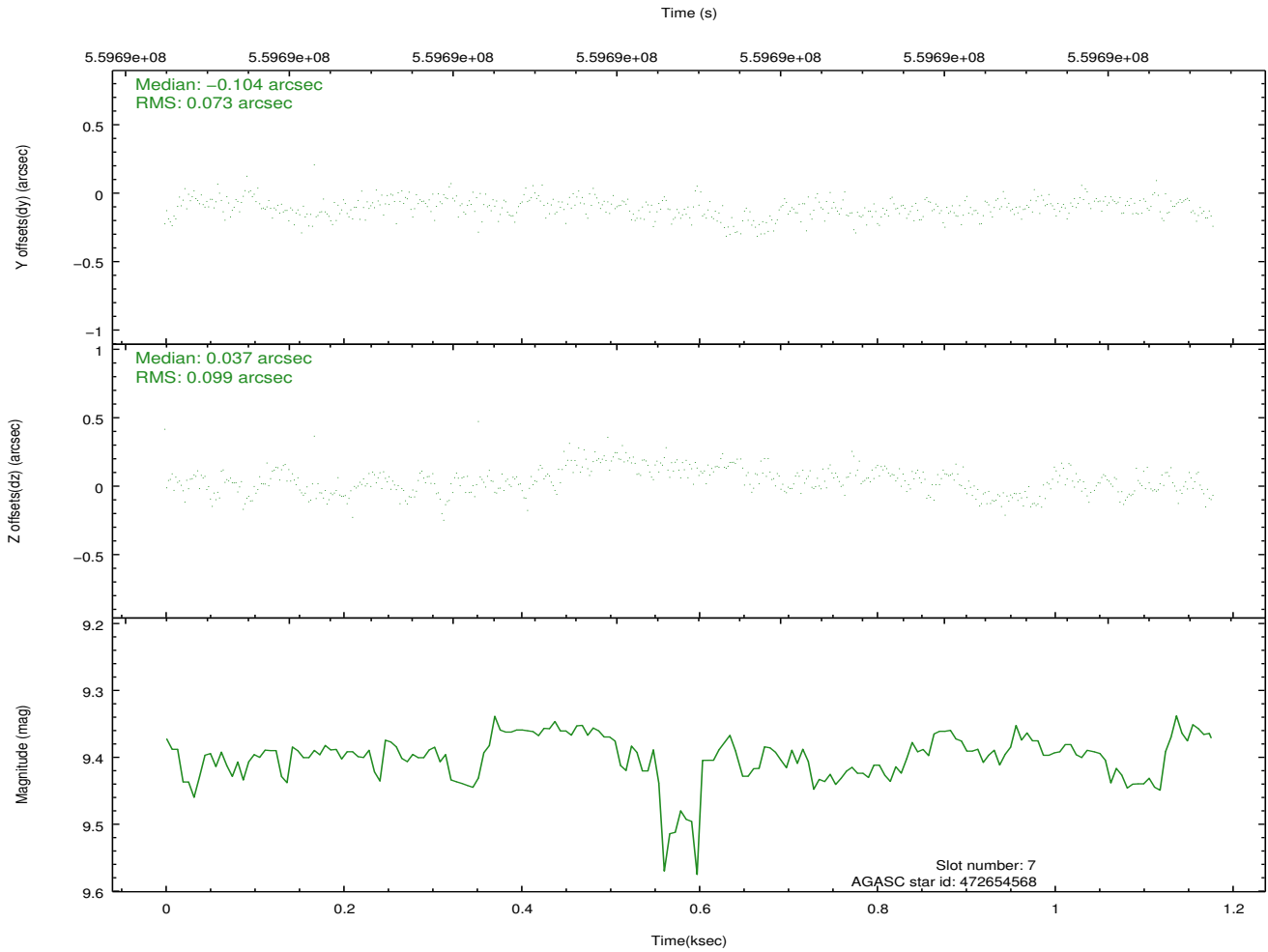
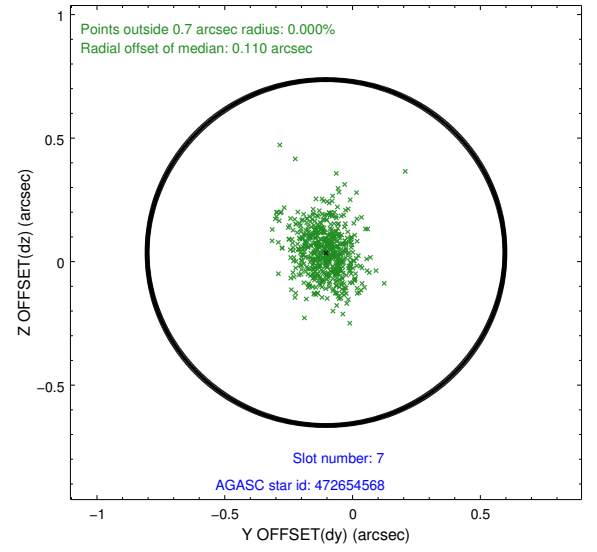
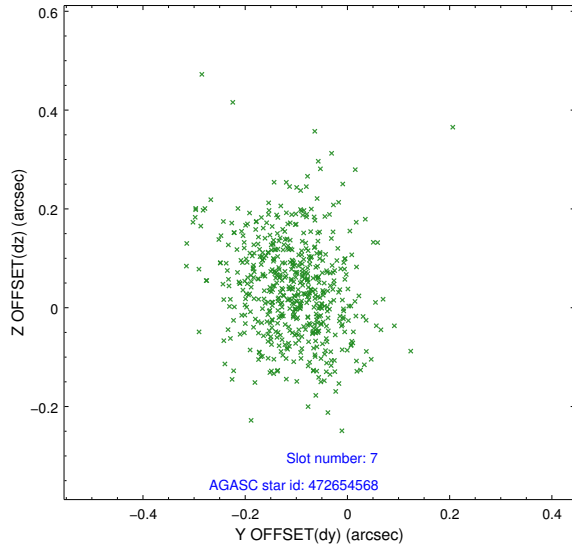
### 2.4.3 Slot 5



## 2.4.4 Slot 6

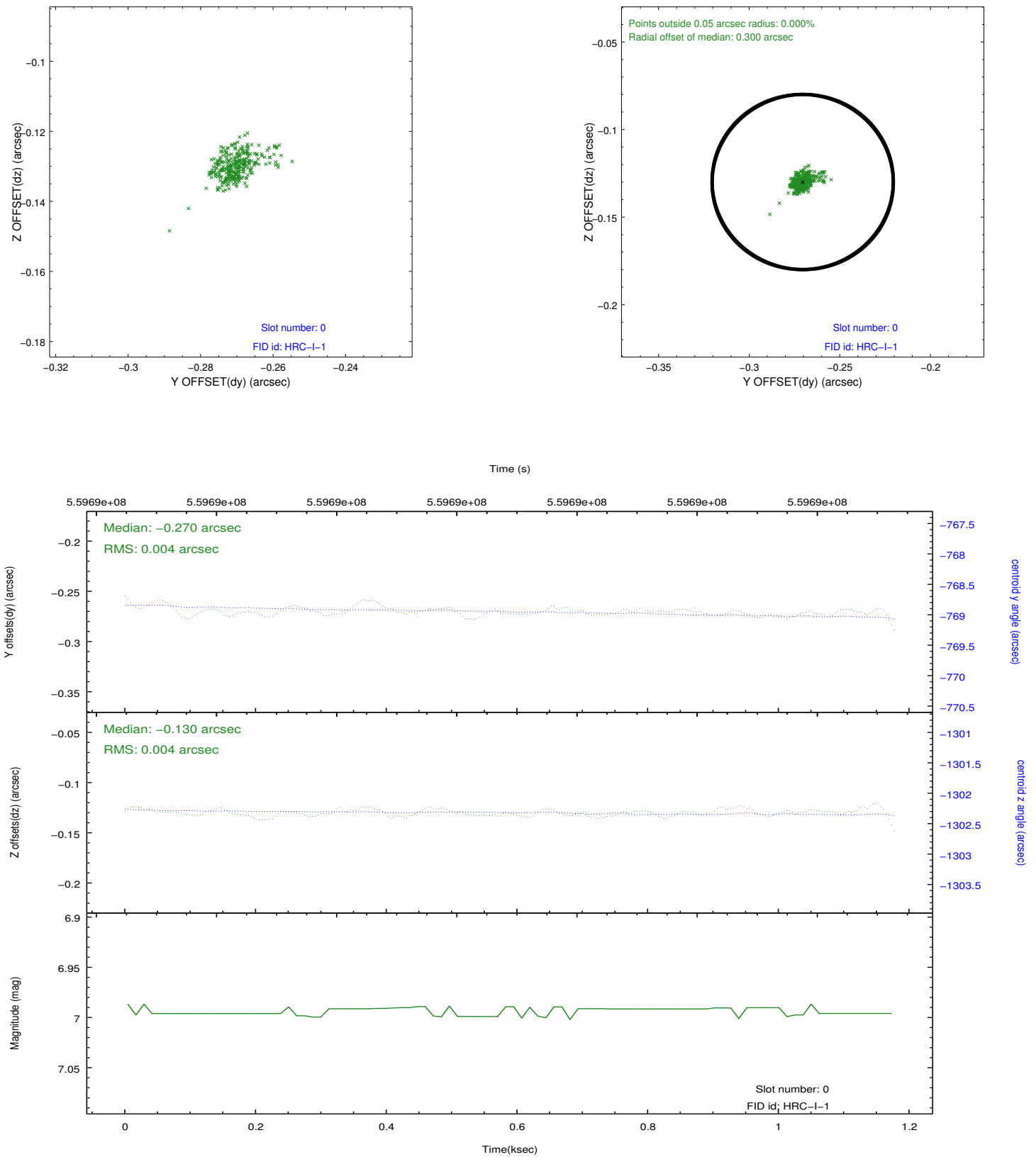


## 2.4.5 Slot 7

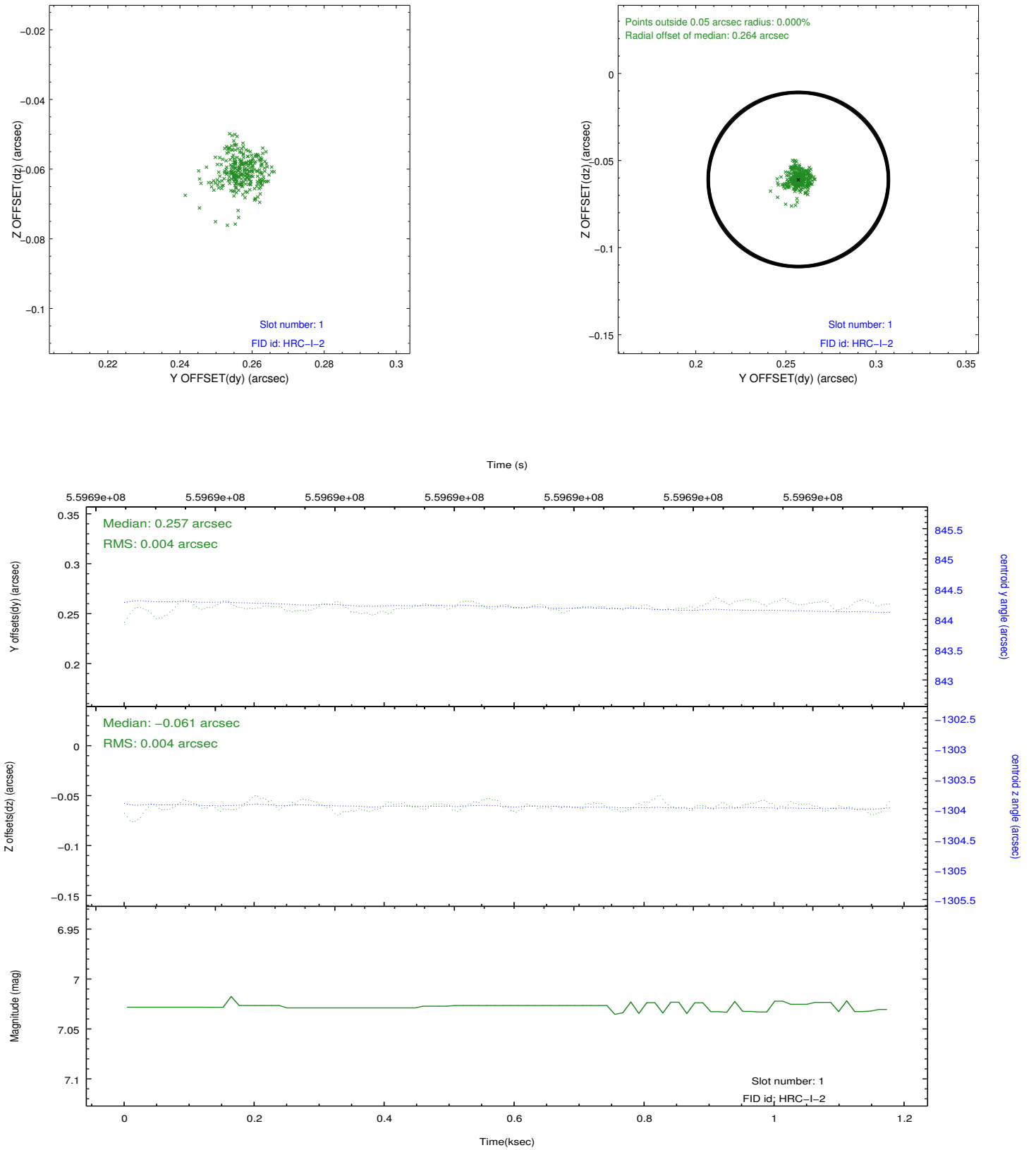


## 2.5 FID Slots

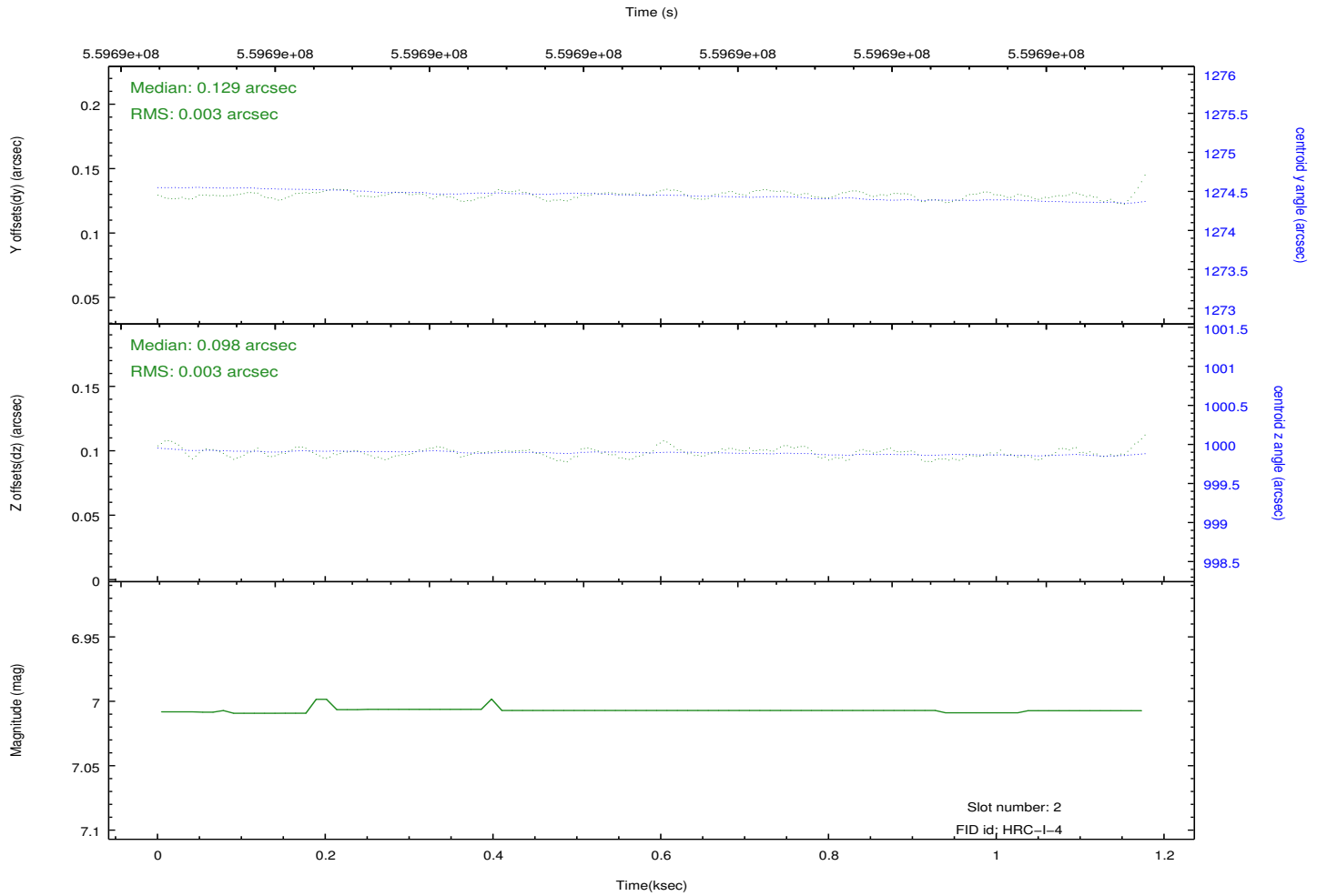
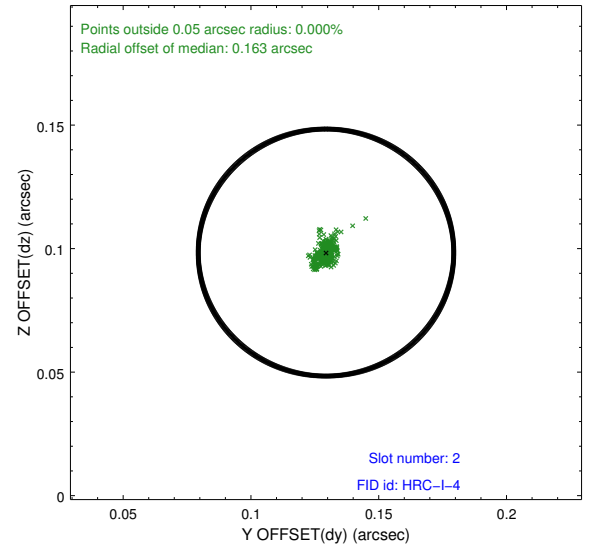
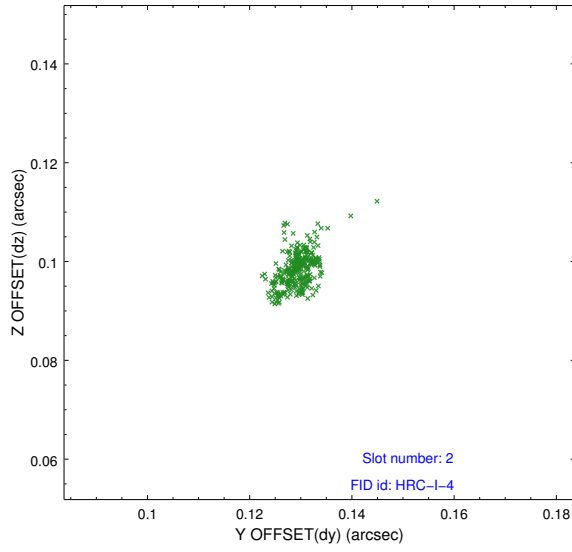
### 2.5.1 Slot 0



## 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)	2015.09.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.180031316638

### A.2 Comments