

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 7007 - L2 Version 2  
Chandra X-Ray Center

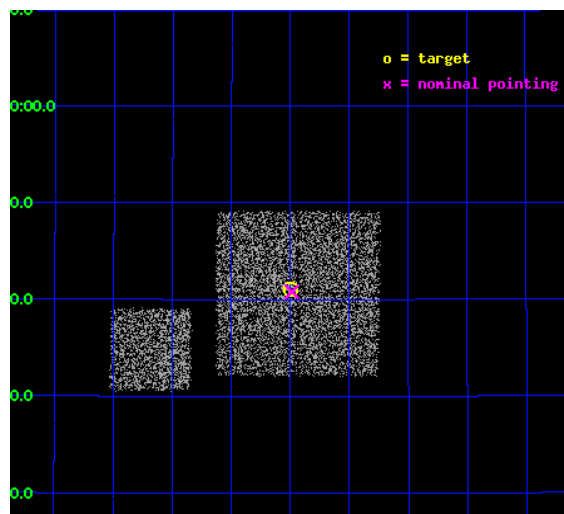
L2 Processing Date : Apr 7 2012

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# 1 Front

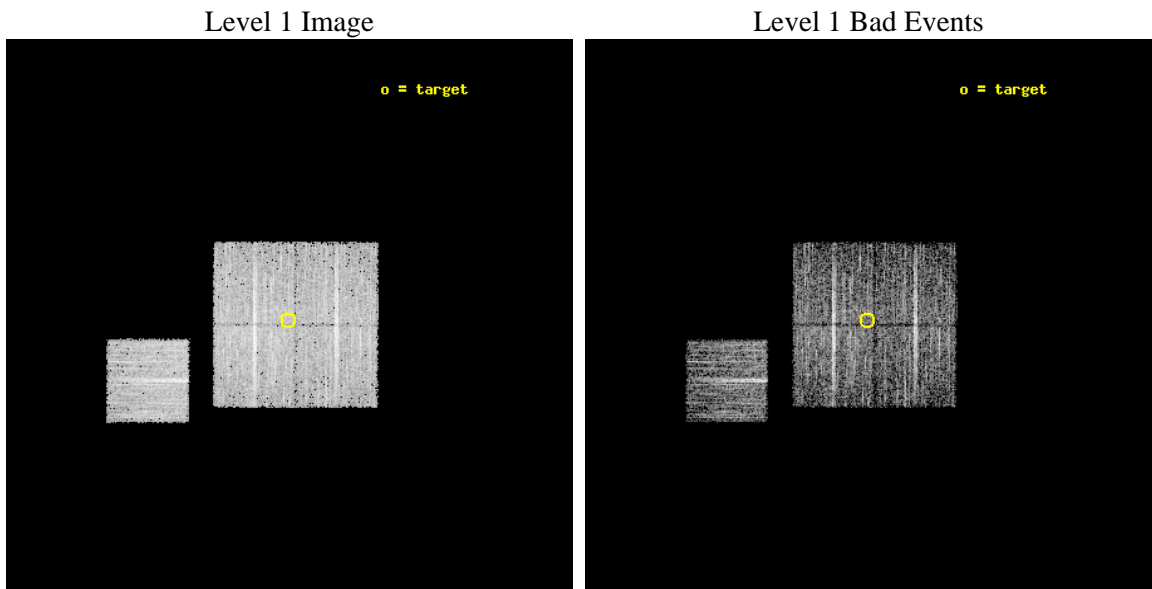
seq_num	900423	Sequence number
obs_id	7007	Observation id
title	Chandra Large Scale Survey of the NOAO Bootes Deep Field (A)	Propo
observer	Dr Stephen Murray	Principal investigator
object	Bootes2 29	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.37402	Observer's specified target RA [deg]
dec_targ	34.684255	Observer's specified target Dec [deg]
ra_nom	217.37183713992	Nominal RA [deg]
dec_nom	34.679957981592	Nominal Dec [deg]
roll_nom	270.20990218281	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4478.9049633741	Sum of GTIs [s]
livetime	4420.3847727058	Livetime [s]
ontime0	4478.7818632722	Sum of GTIs [s]
ontime1	4475.6819130182	Sum of GTIs [s]
ontime2	4478.8639233708	Sum of GTIs [s]
ontime3	4478.9049633741	Sum of GTIs [s]
ontime6	4478.7408033609	Sum of GTIs [s]
l2events	12703	Number of level 2 events



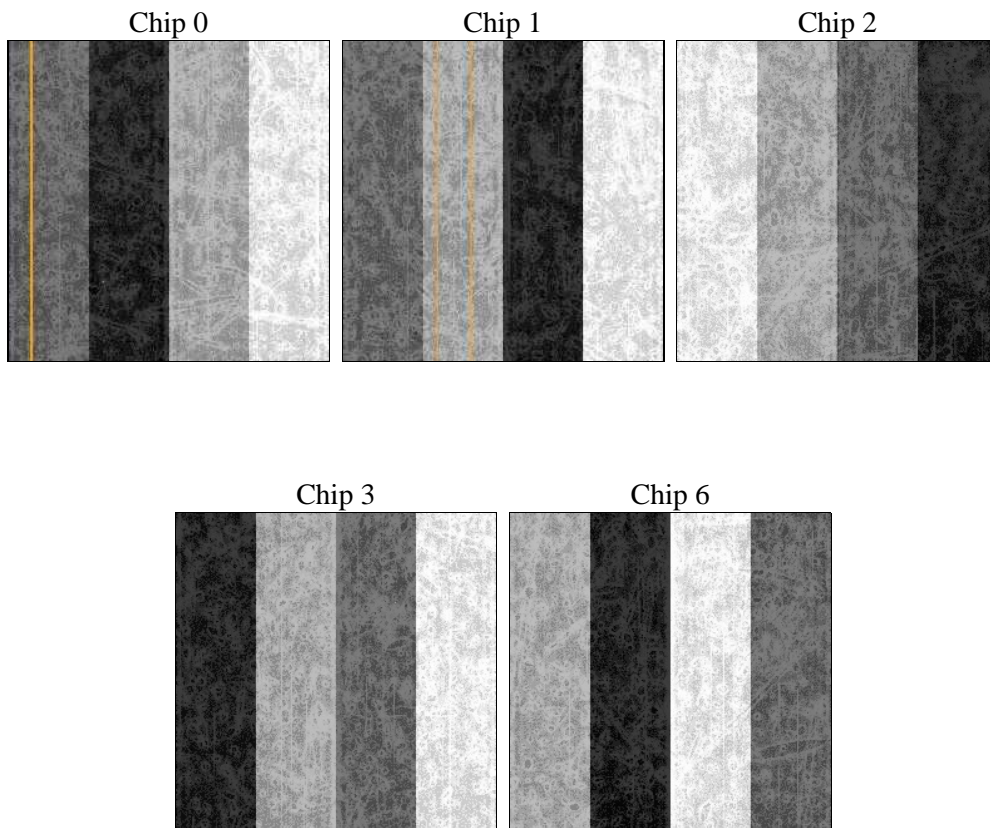
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4700.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	4478.9049633741	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	4478.7818632722	Sum of GTIs [s]
date	2012-04-07T09:06:25	Date and time of file creation	ontime1	4475.6819130182	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4478.8639233708	Sum of GTIs [s]
			ontime3	4478.9049633741	Sum of GTIs [s]
			ontime6	4478.7408033609	Sum of GTIs [s]
			l1events	161581	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	30223	29713	34850	32165	34630
rejected events	27074	26468	31838	29153	31498
rejected %	89%	89%	91%	90%	90%

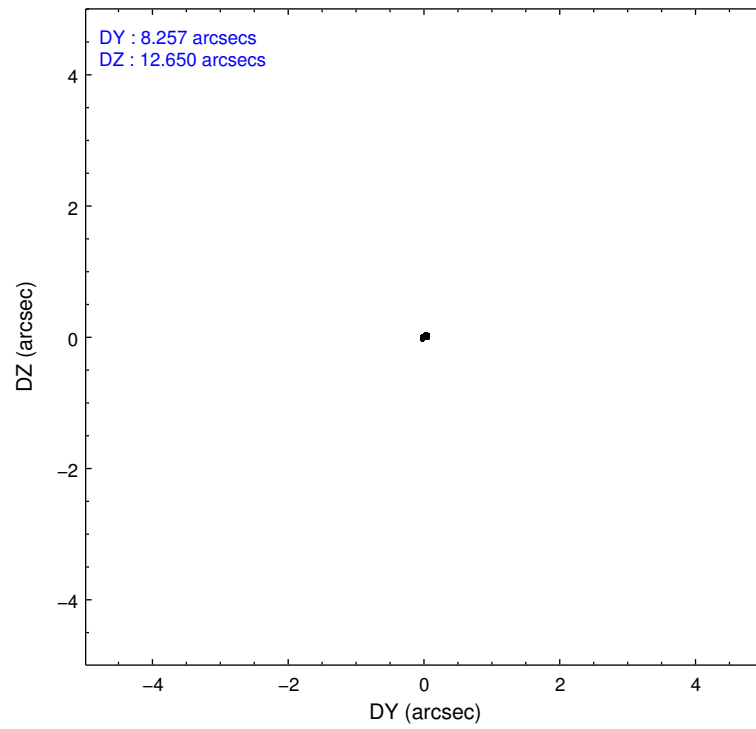
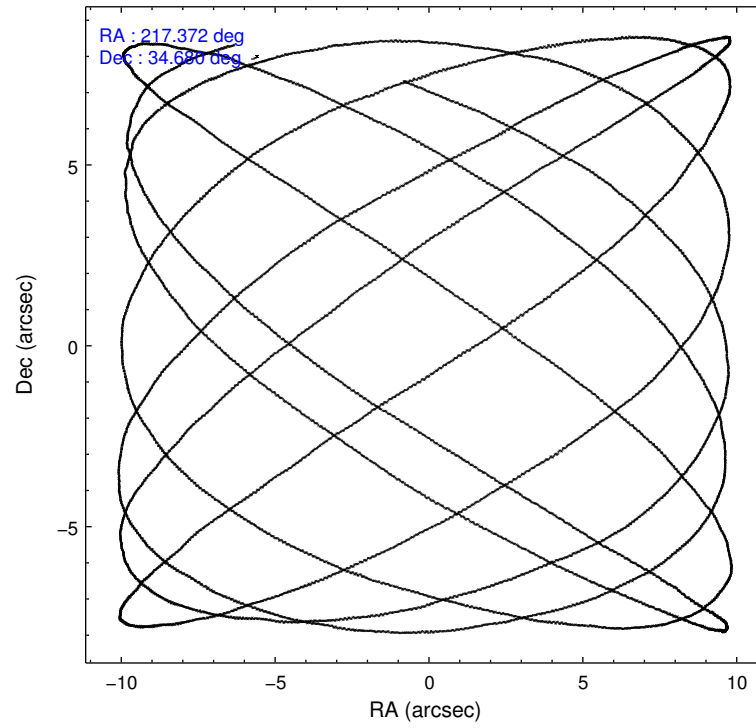
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1187	1153	1126	1088	1099
	3%	3%	3%	3%	3%
grade 1 events	13	16	18	20	23
	0%	0%	0%	0%	0%
grade 2 events	742	706	711	633	710
	2%	2%	2%	1%	2%
grade 3 events	350	381	291	395	359
	1%	1%	0%	1%	1%
grade 4 events	322	372	343	335	361
	1%	1%	0%	1%	1%
grade 5 events	896	1042	813	1141	1034
	2%	3%	2%	3%	2%
grade 6 events	553	636	543	563	604
	1%	2%	1%	1%	1%
grade 7 events	26160	25407	31005	27990	30440
	86%	85%	88%	87%	87%

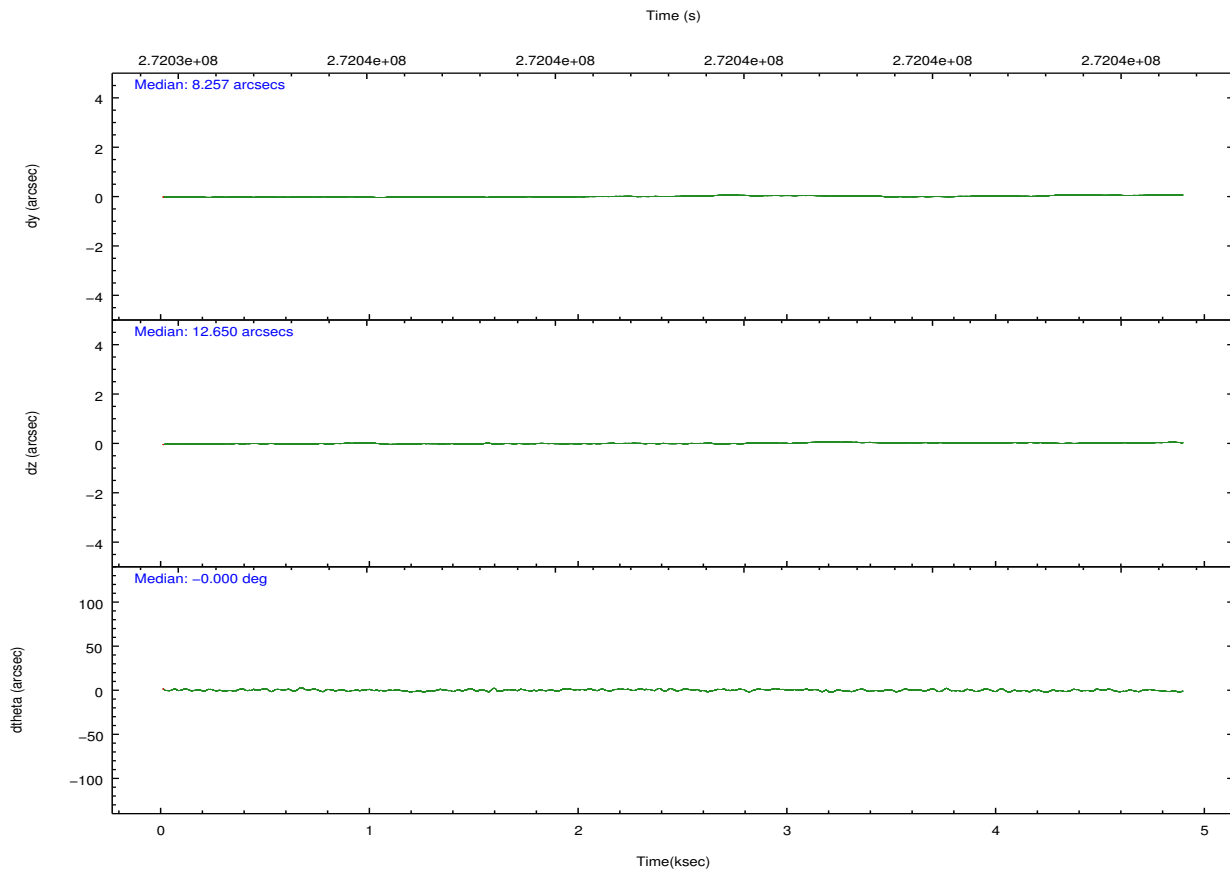
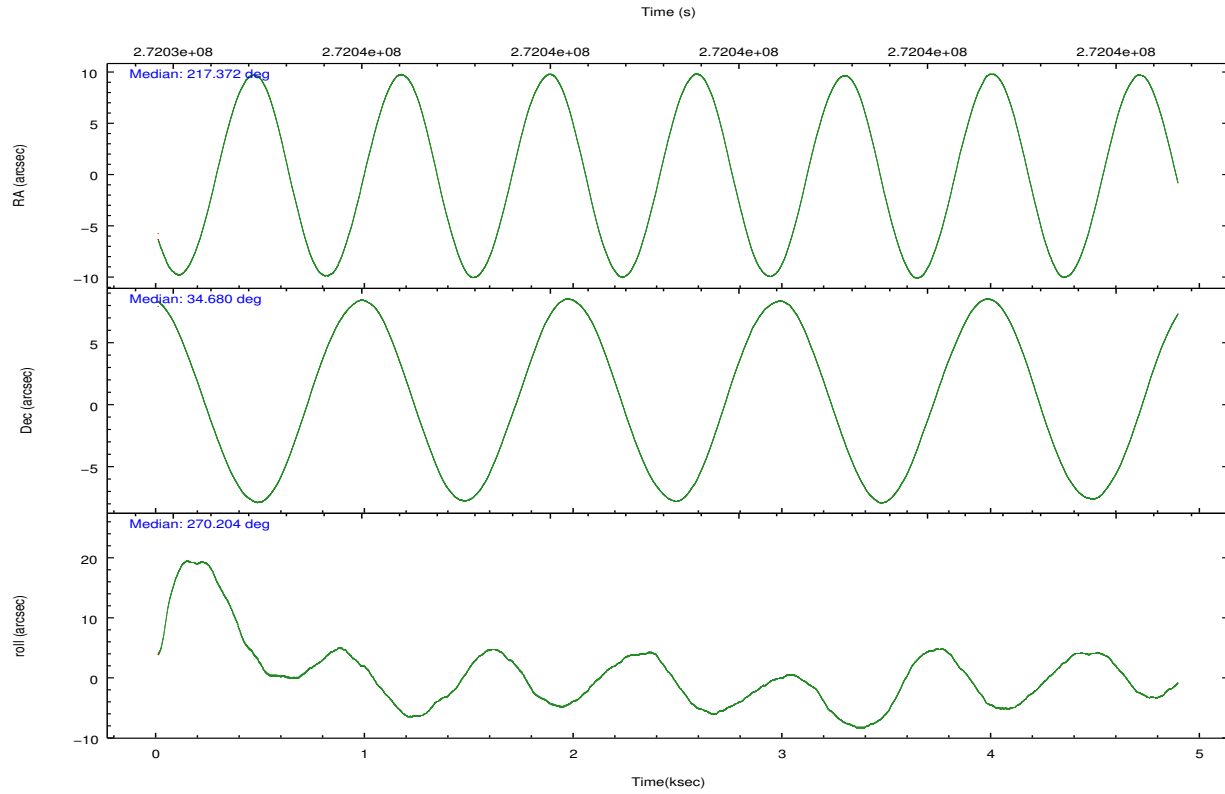


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	217.354937	217.3718371399245	Subarray requested	NONE	NONE
[deg] Pointing Dec	34.703628	34.67995798159163	Alternating exposures requested	N	N
[deg] Pointing Roll	270.010859	270.2099021828118	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	272034373.184000	272033997.69097			
Observation start date	2006-08-15T13:05:08	2006-08-15T12:59:57			
[s] Observation end time (MET)	272039073.184000	272039887.85374			
Observation end date	2006-08-15T14:23:28	2006-08-15T14:38:07			
Read mode	TIMED	TIMED			

## 2.3 Aspect



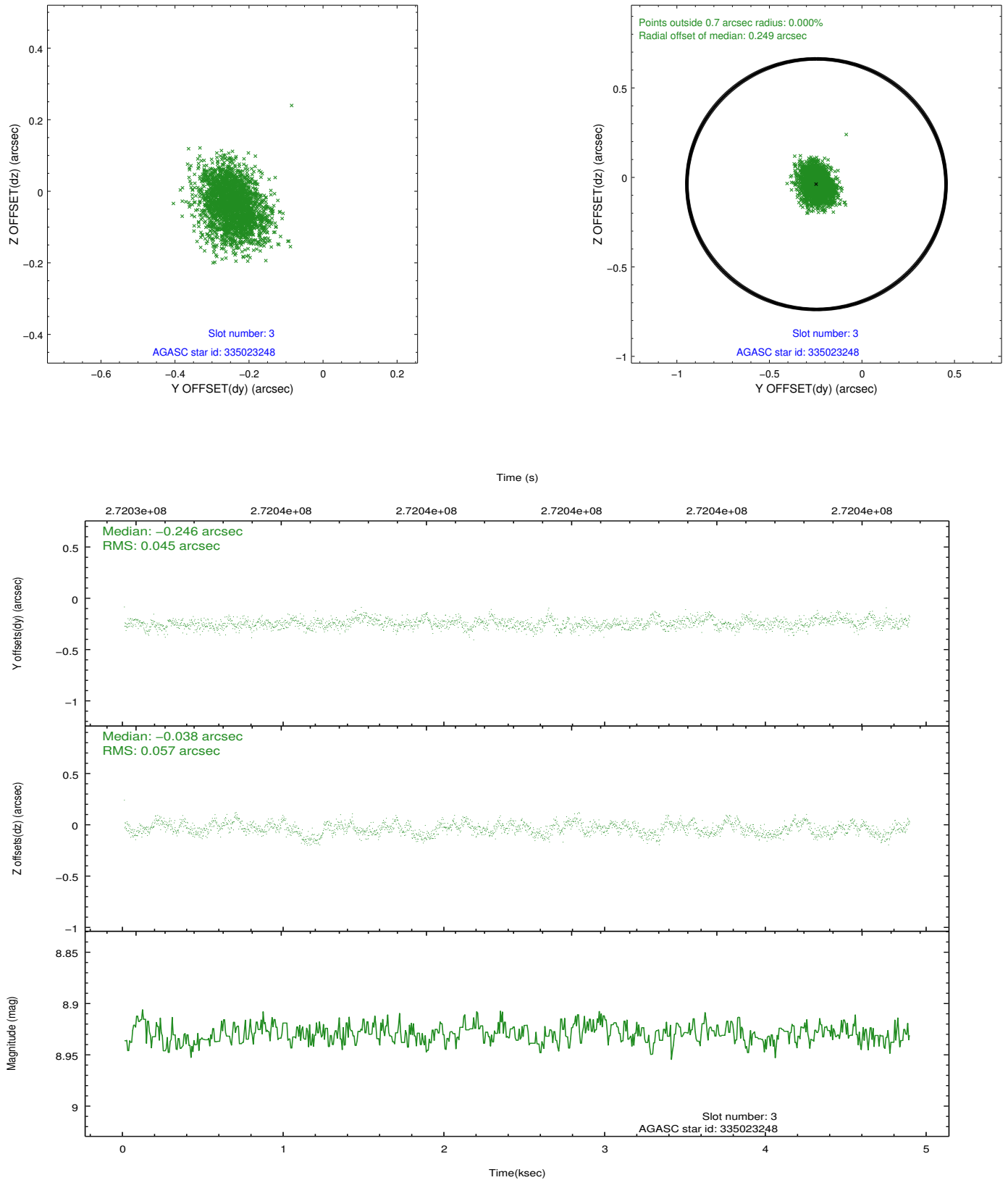


### Slot Statistics

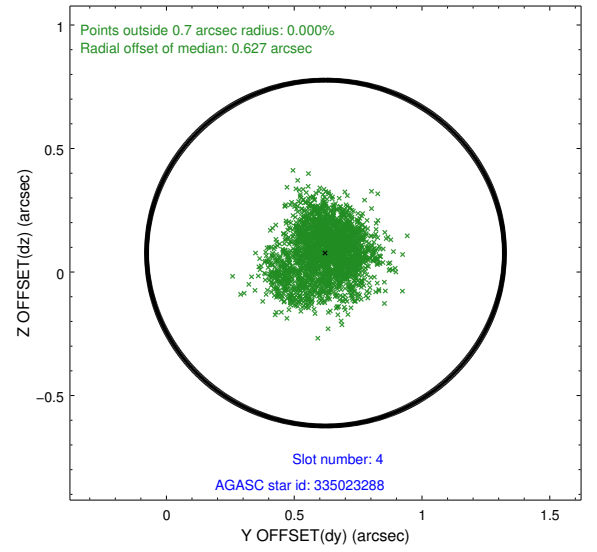
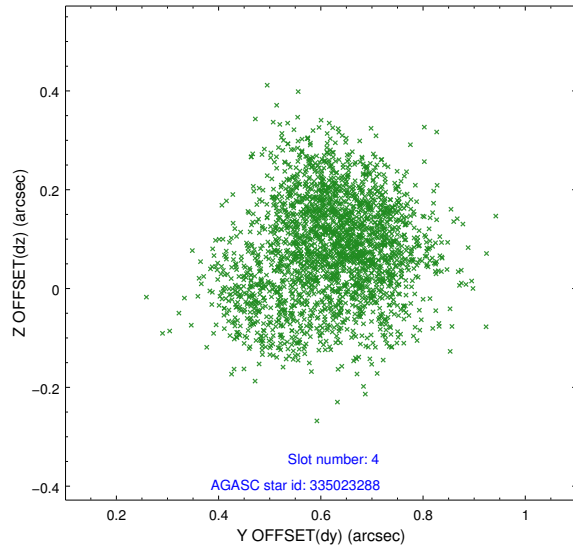
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1192	-0.051	0.050	0.008	0.014	0.000000	0.000000	931.31	-836.17
1	FID	ACIS-I-2	7.14	1192	-0.159	-0.086	0.006	0.010	0.000000	0.000000	-762.20	-843.32
2	FID	ACIS-I-4	7.19	1192	0.111	0.103	0.007	0.012	0.000000	0.000000	2150.84	1063.02
3	GUIDE	335023248	8.93	2384	-0.246	-0.038	0.077	0.126	217.634832	34.944512	-868.28	826.30
4	GUIDE	335023288	9.86	2365	0.622	0.077	0.155	0.237	217.791365	34.425735	998.21	1296.64
5	GUIDE	335028336	9.44	2376	-0.149	0.088	0.134	0.202	217.189840	34.665629	136.88	-487.90
6	GUIDE	335030384	8.84	2383	0.096	-0.088	0.095	0.156	216.806407	34.722197	-71.01	-1623.04
7	GUIDE	335415168	9.76	2377	-0.319	-0.034	0.151	0.231	217.681296	35.301767	-2155.04	957.83

## 2.4 Star Slots

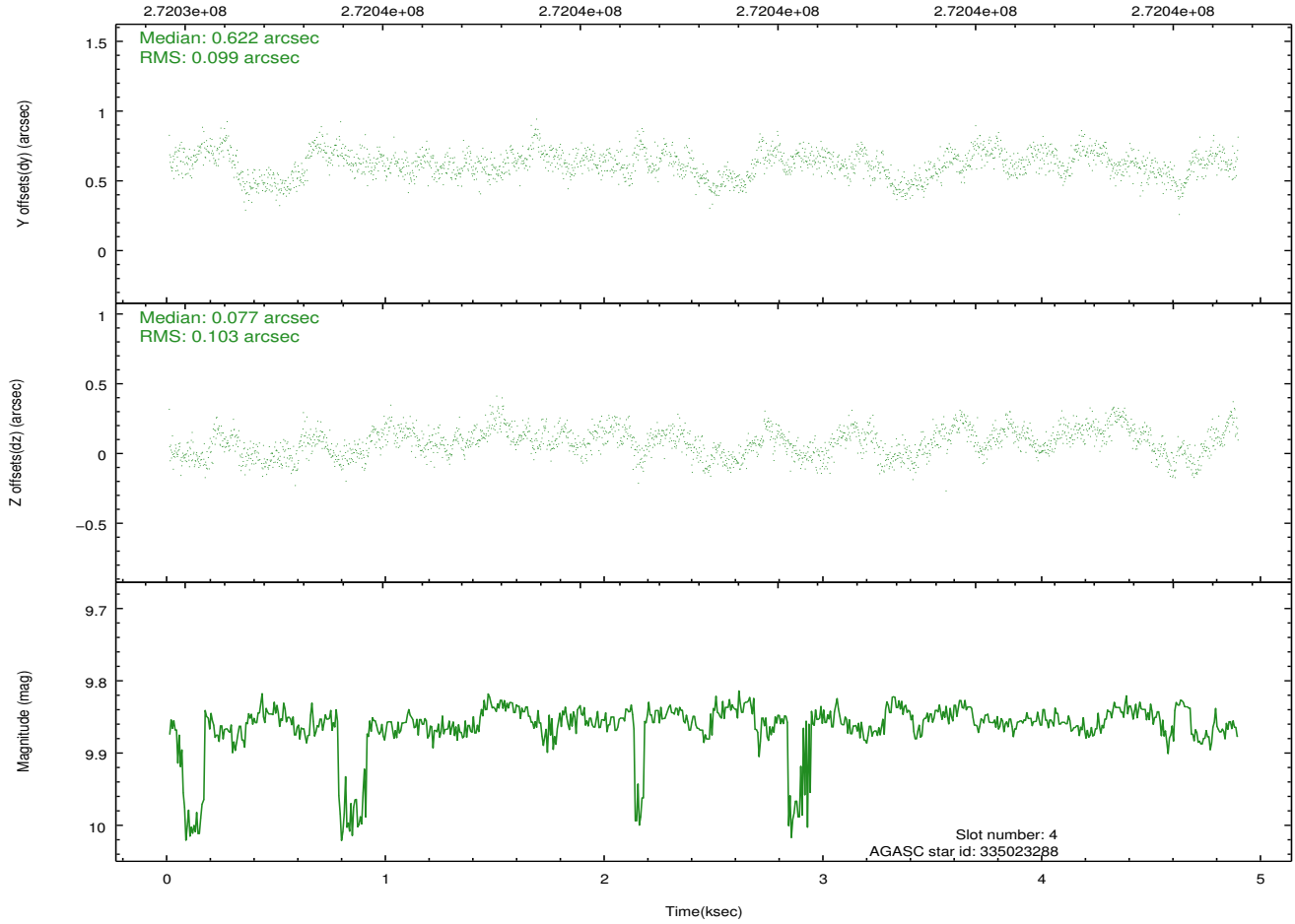
### 2.4.1 Slot 3



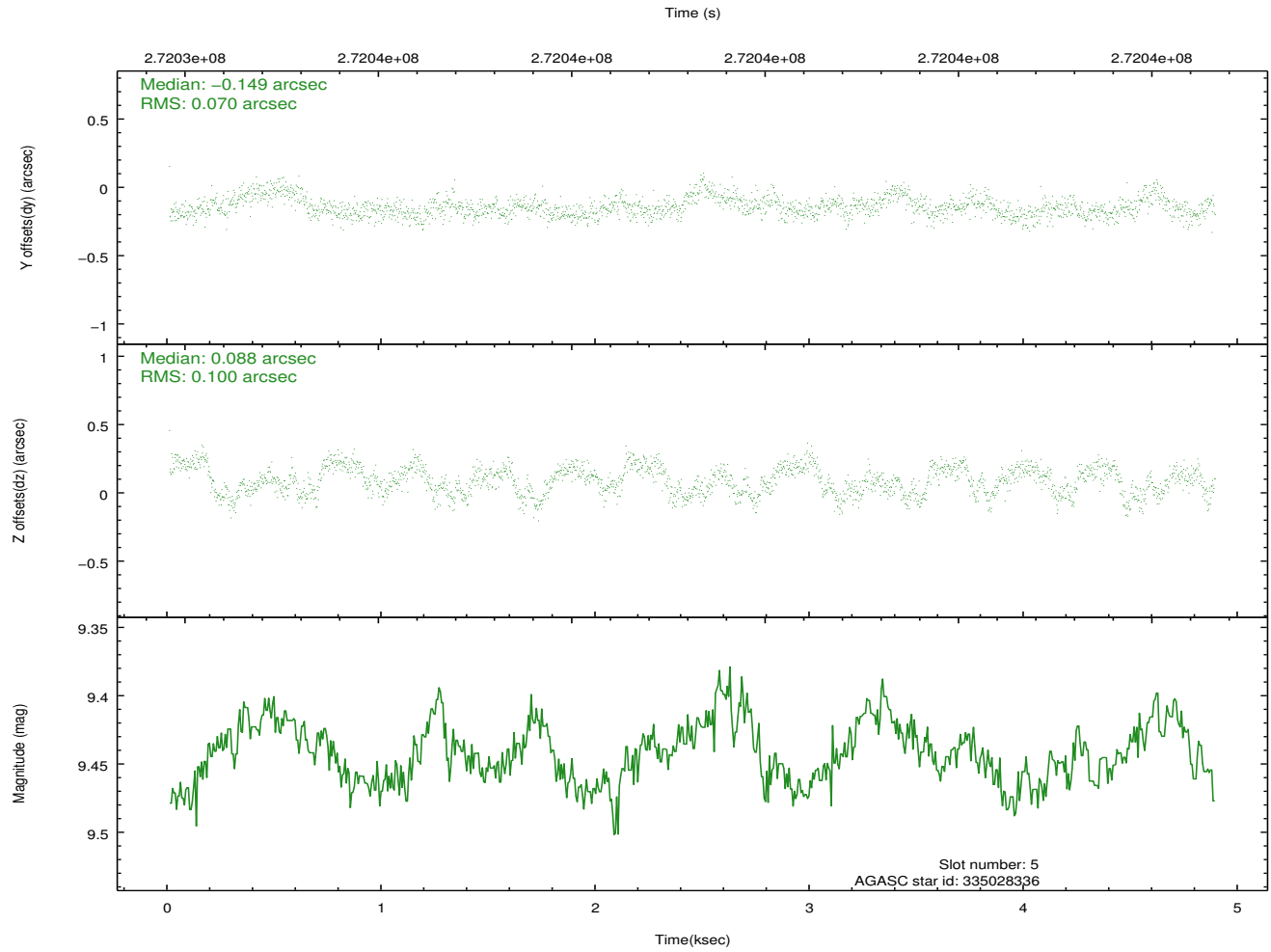
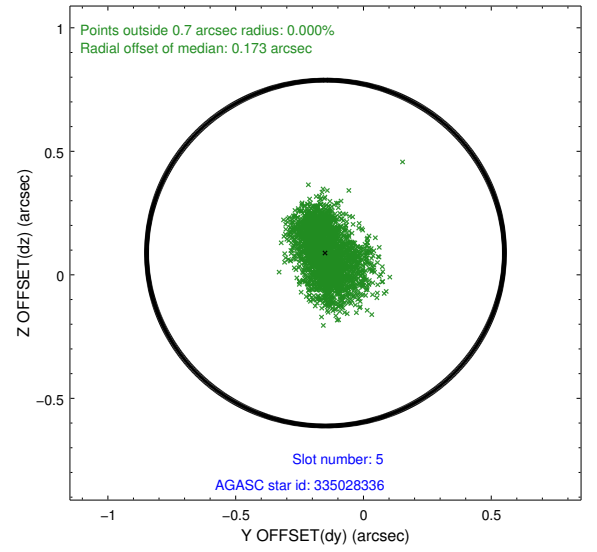
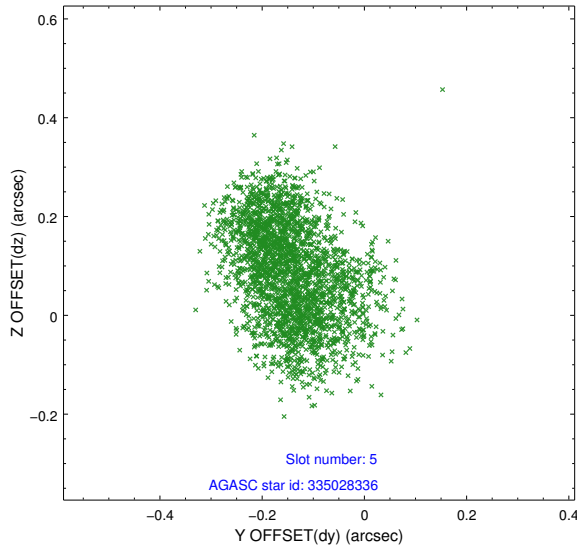
## 2.4.2 Slot 4



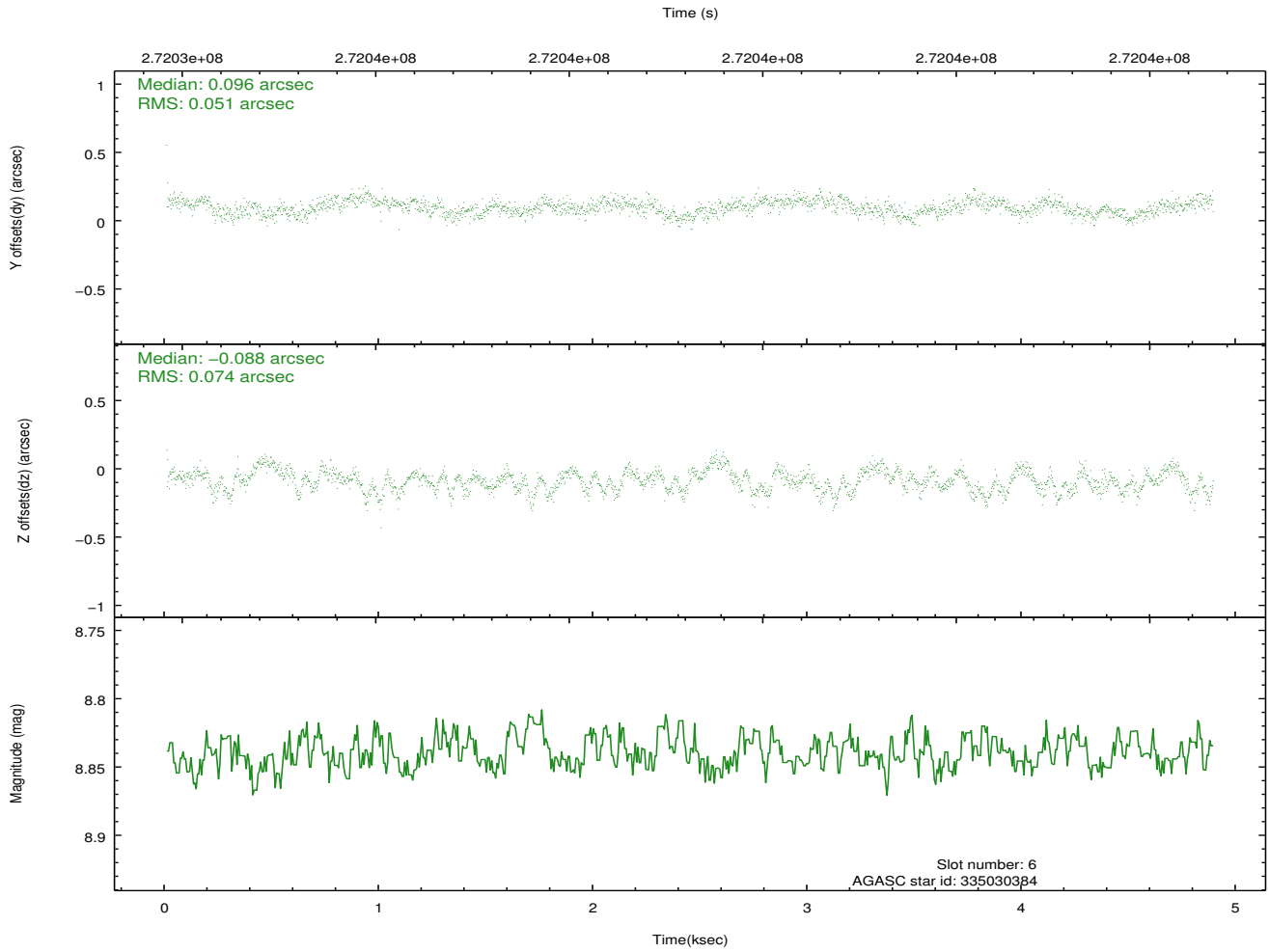
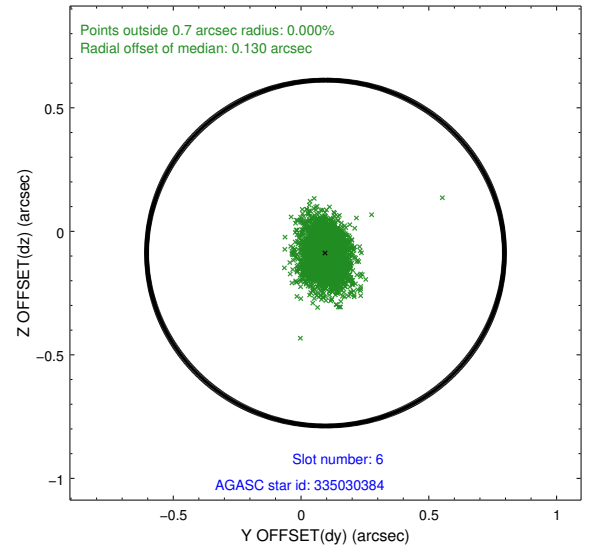
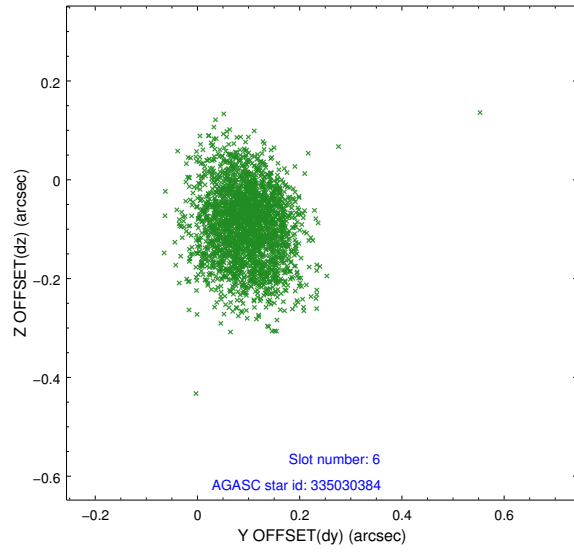
Time (s)



### 2.4.3 Slot 5

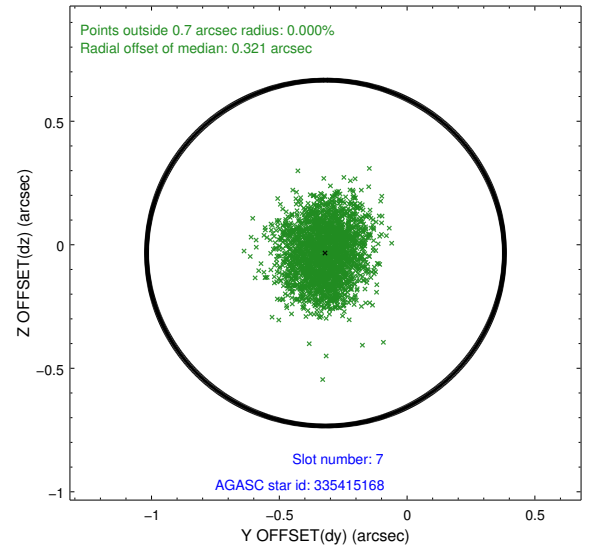
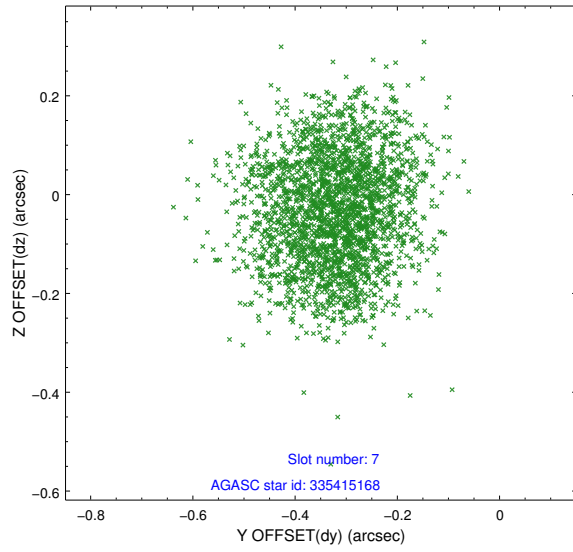


## 2.4.4 Slot 6

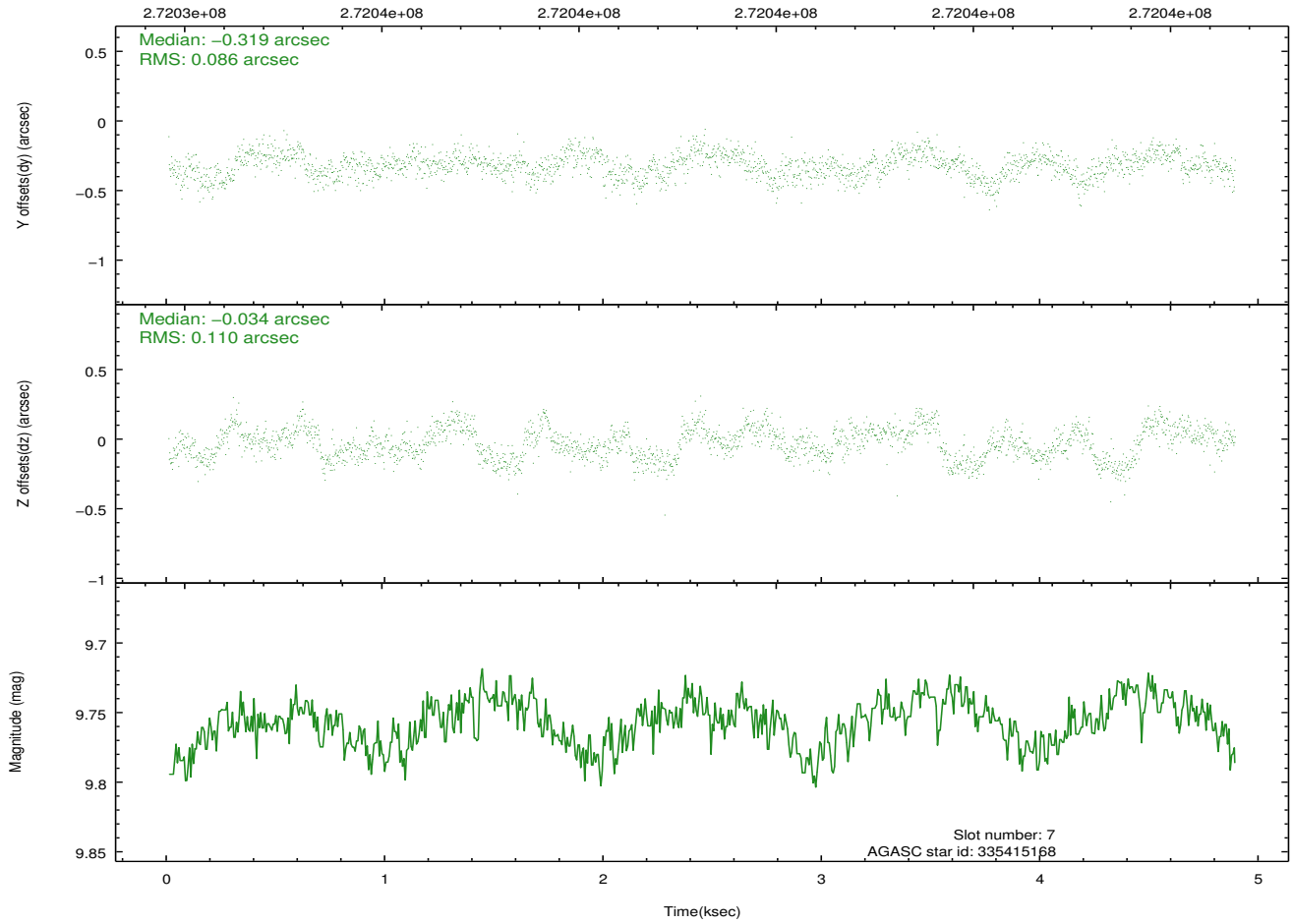




## 2.4.5 Slot 7

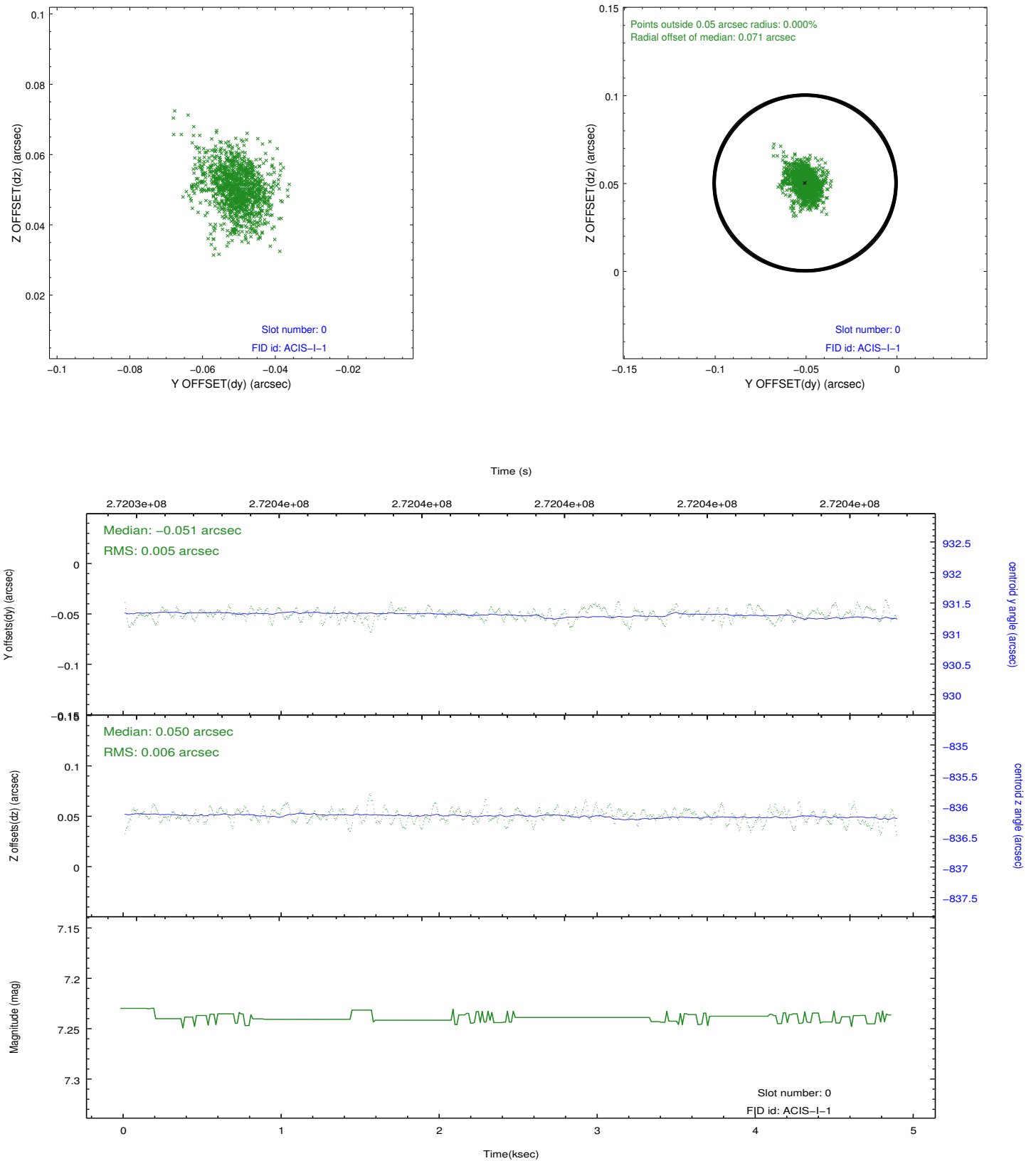


Time (s)

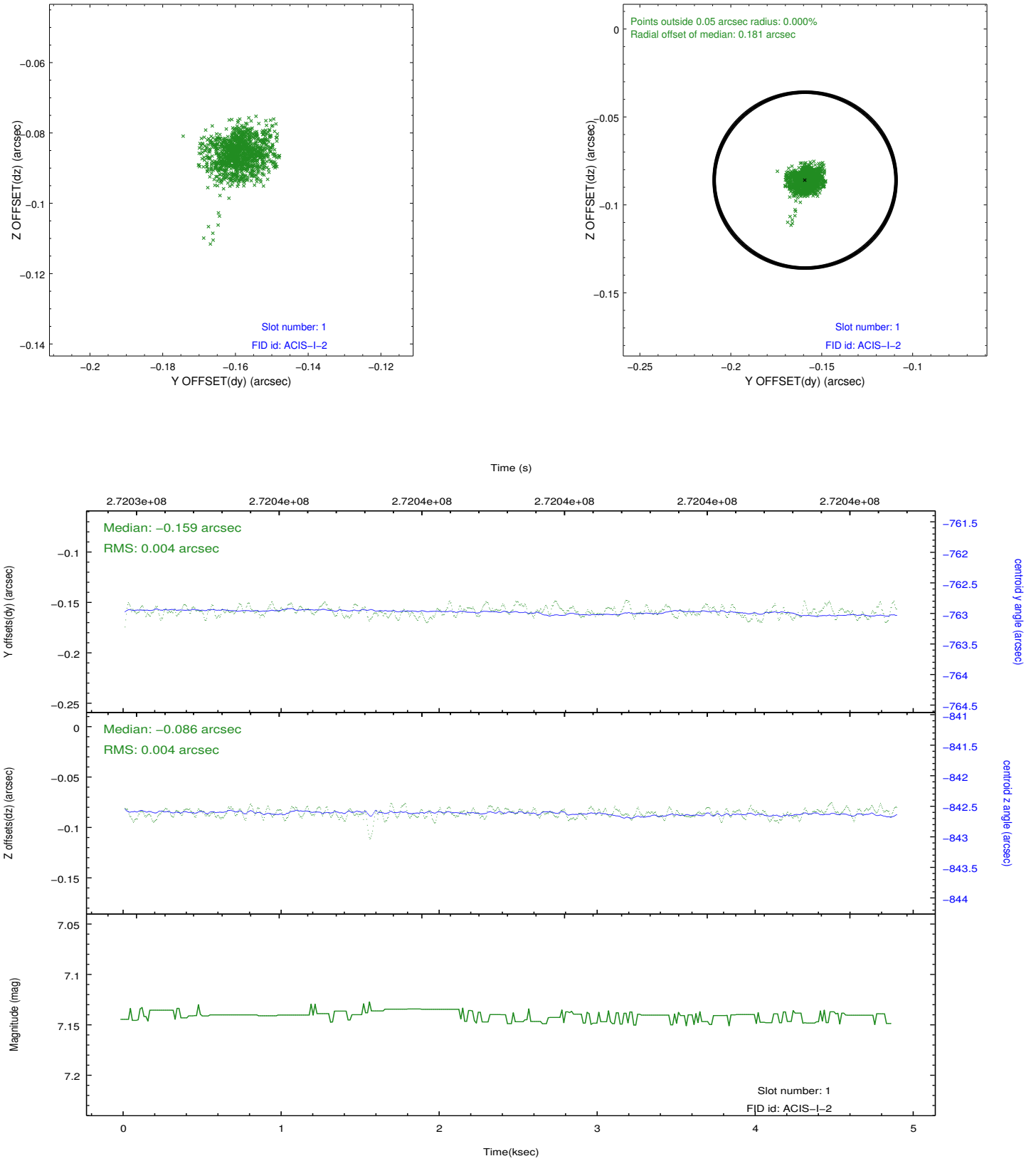


## 2.5 FID Slots

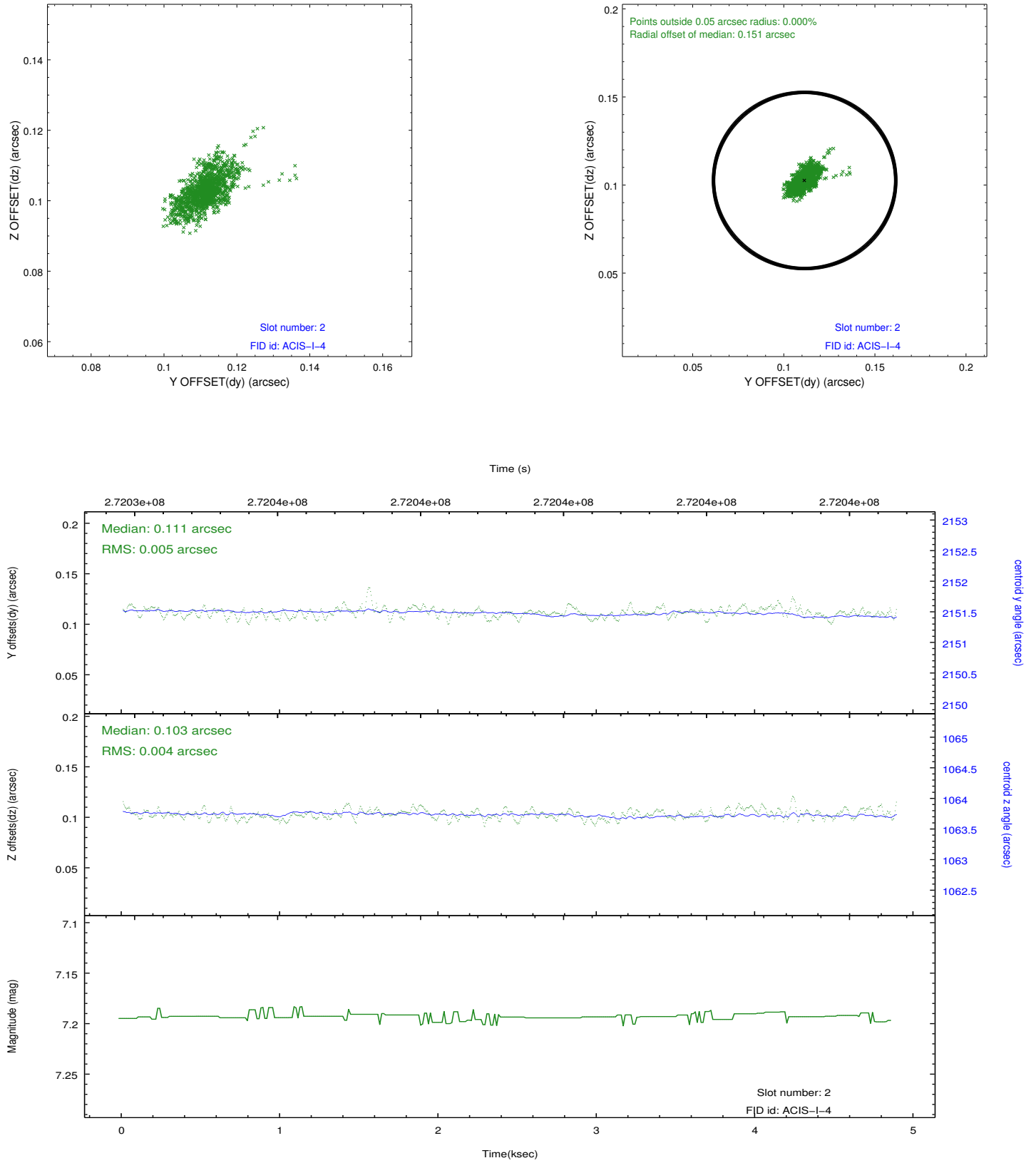
### 2.5.1 Slot 0



## 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)	2012.04.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.47950003

### A.2 Comments