

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3643 - L2 Version 3  
Chandra X-Ray Center

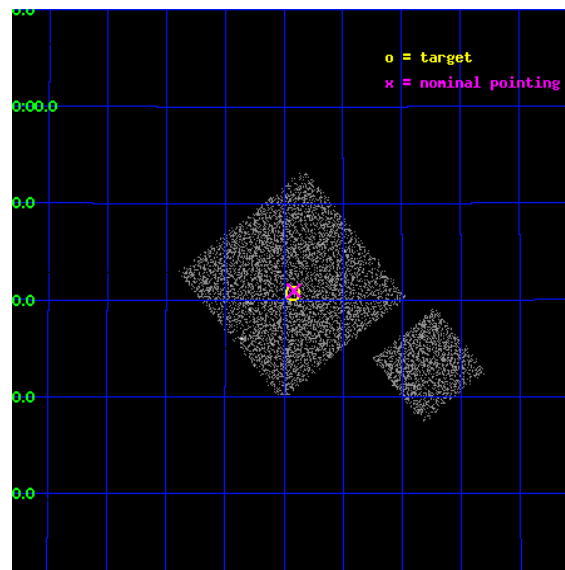
L2 Processing Date : Oct 25 2012

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# 1 Front

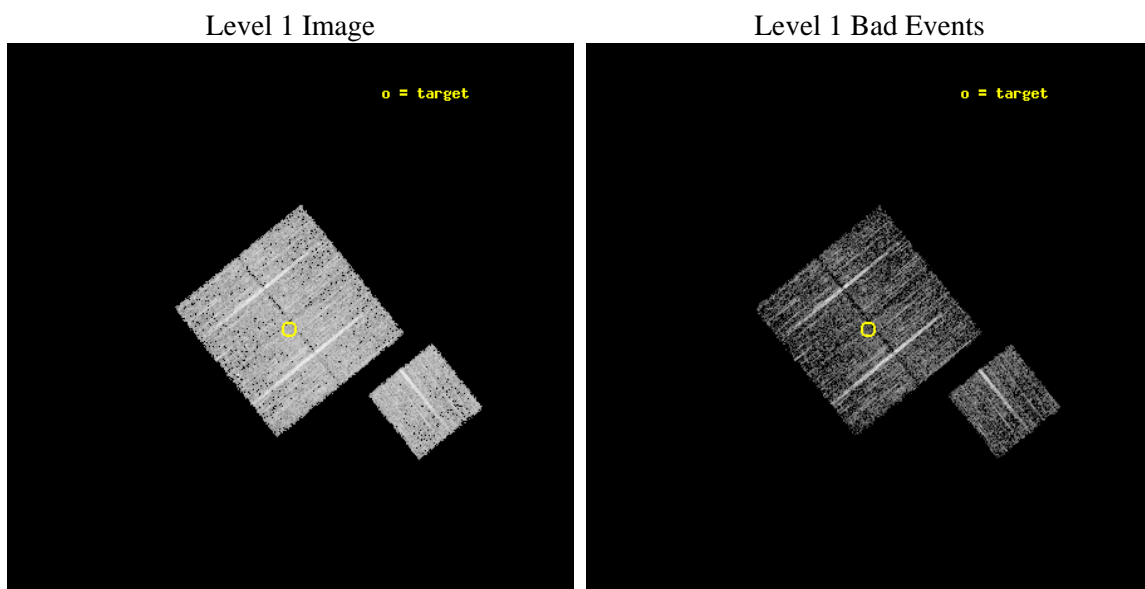
seq_num	900243	Sequence number
obs_id	3643	Observation id
title	CHANDRA LARGE SCALE SURVEY OF THE NOAO BOOTES DEEP FIELD	Proposal
observer	Dr. Stephen Murray	Principal investigator
object	NOAO FIELD F9	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	219.106748	Observer's specified target RA [deg]
dec_targ	34.679082	Observer's specified target Dec [deg]
ra_nom	219.10411604119	Nominal RA [deg]
dec_nom	34.683095600923	Nominal Dec [deg]
roll_nom	141.0101803676	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4773.378023088	Sum of GTIs [s]
livetime	4711.0103251066	Livetime [s]
ontime0	4776.395863384	Sum of GTIs [s]
ontime1	4776.4369033873	Sum of GTIs [s]
ontime2	4776.4779433906	Sum of GTIs [s]
ontime3	4773.378023088	Sum of GTIs [s]
ontime6	4776.3548233807	Sum of GTIs [s]
l2events	9782	Number of level 2 events



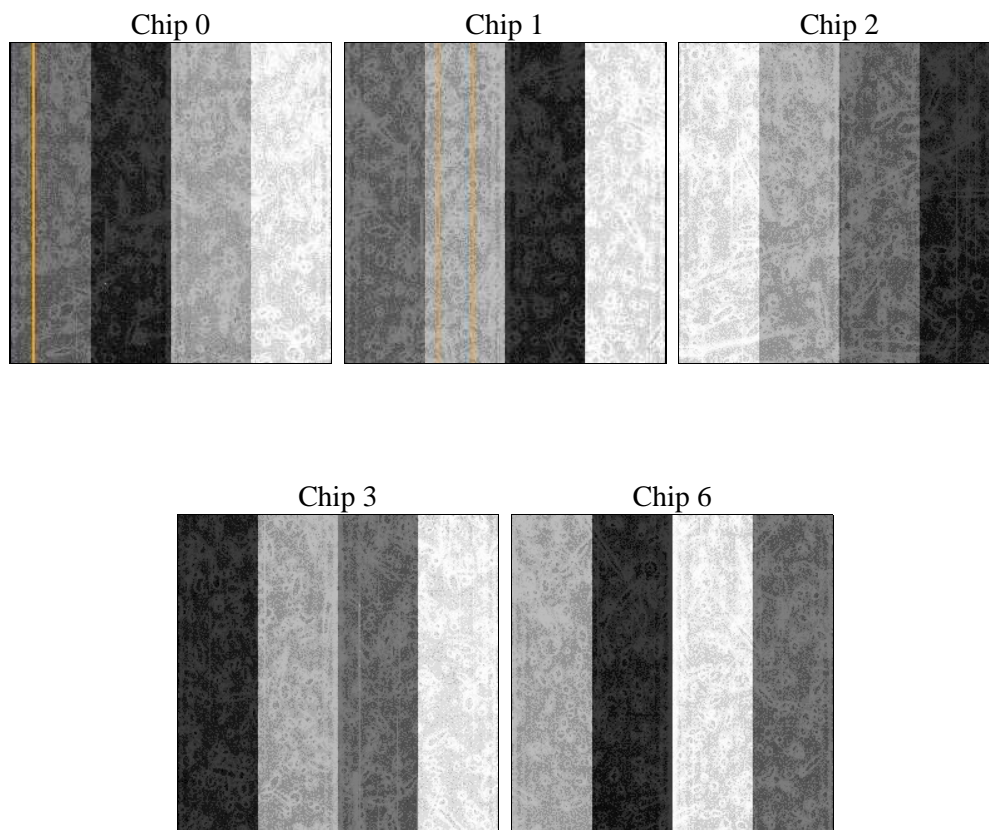
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4773.378023088	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	4776.395863384	Sum of GTIs [s]
date	2012-10-25T23:42:20	Date and time of file creation	ontime1	4776.4369033873	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4776.4779433906	Sum of GTIs [s]
			ontime3	4773.378023088	Sum of GTIs [s]
			ontime6	4776.3548233807	Sum of GTIs [s]
			l1events	118915	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	22483	22500	24862	25160	23910
rejected events	20067	20073	22565	22823	21524
rejected %	89%	89%	90%	90%	90%

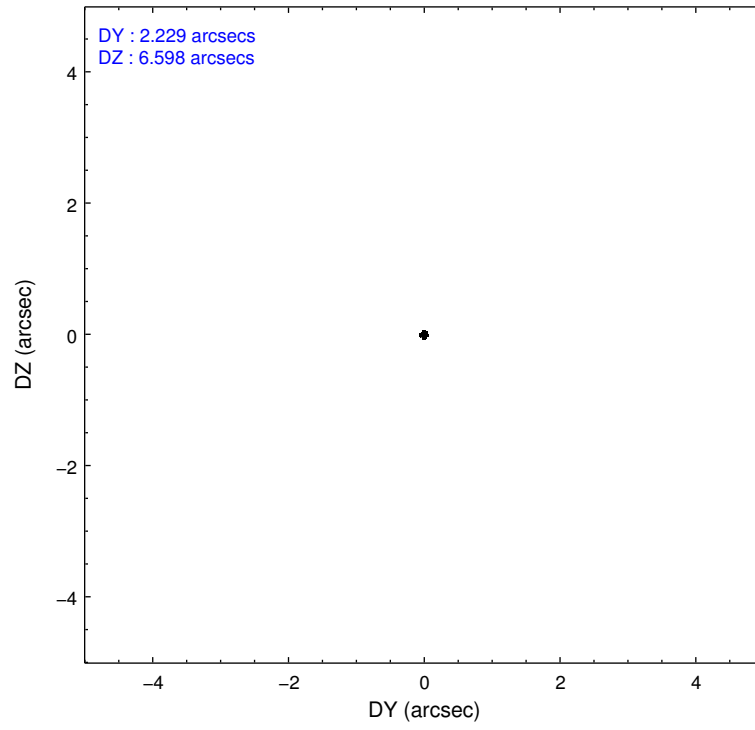
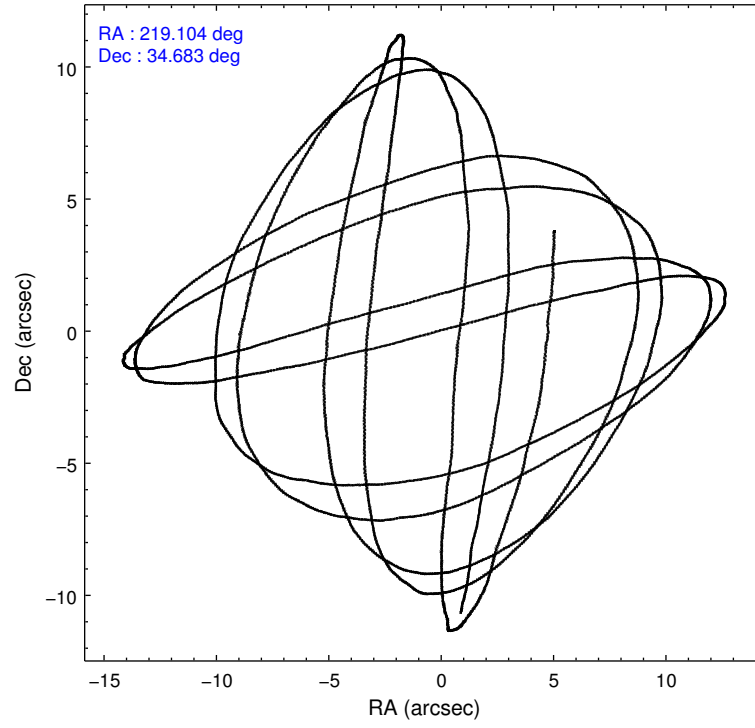
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	908	889	920	884	881
	4%	3%	3%	3%	3%
grade 1 events	8	12	5	6	18
	0%	0%	0%	0%	0%
grade 2 events	519	486	523	465	508
	2%	2%	2%	1%	2%
grade 3 events	301	289	222	277	263
	1%	1%	0%	1%	1%
grade 4 events	274	289	258	265	253
	1%	1%	1%	1%	1%
grade 5 events	672	755	646	783	780
	2%	3%	2%	3%	3%
grade 6 events	416	475	376	446	482
	1%	2%	1%	1%	2%
grade 7 events	19385	19305	21912	22034	20725
	86%	85%	88%	87%	86%

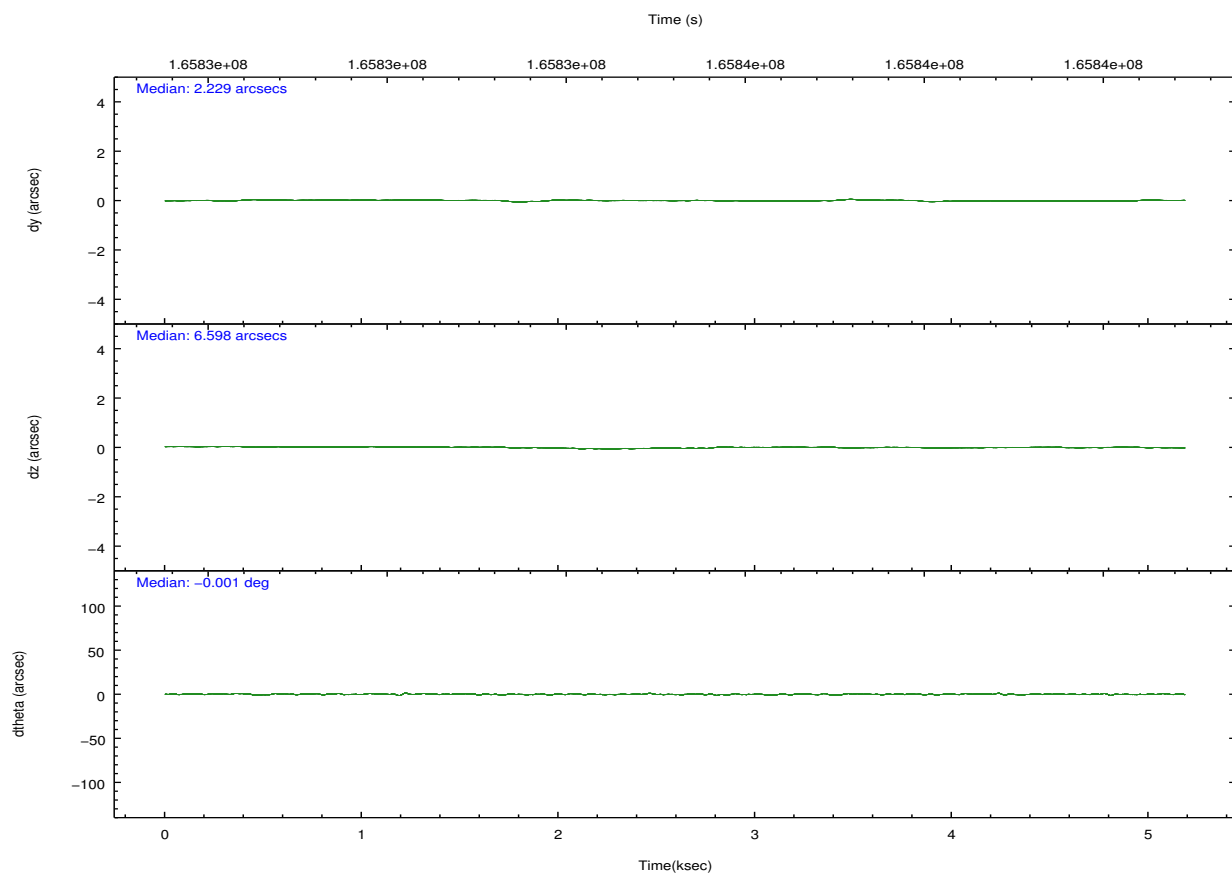
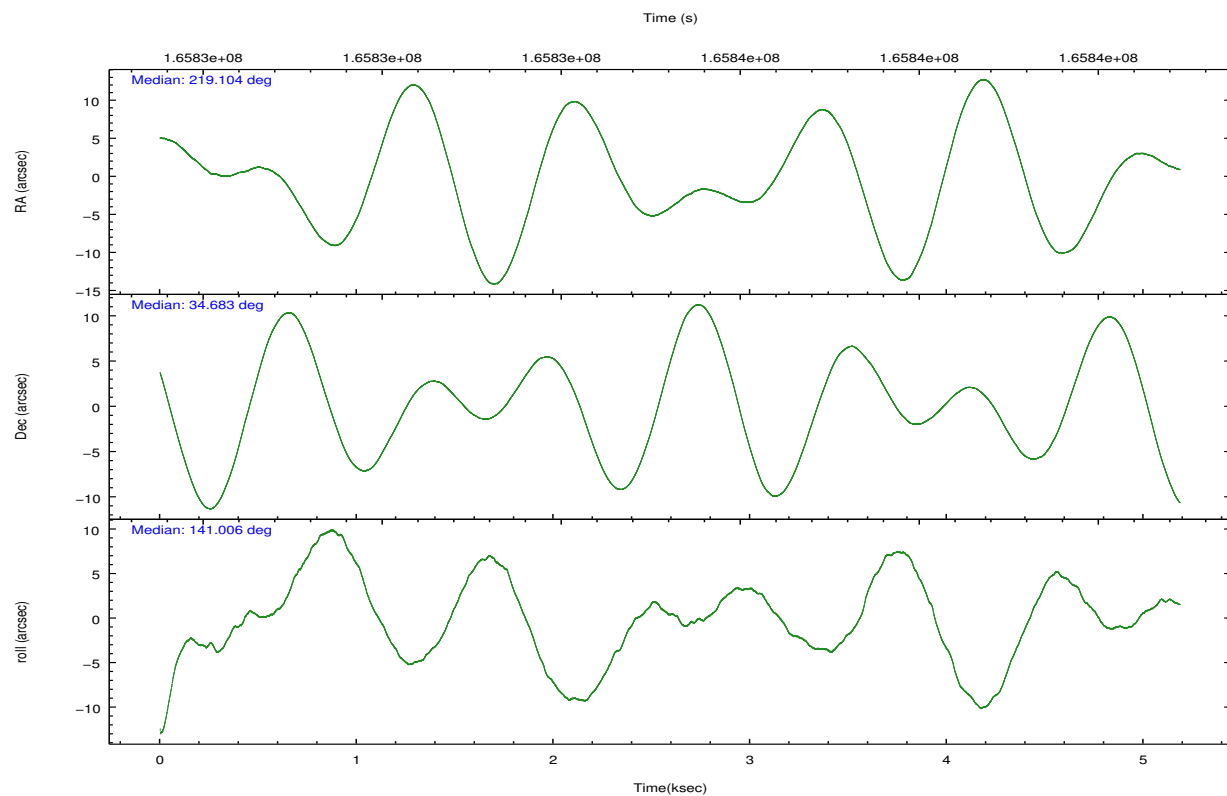


## 2.2 Compared Parameters

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	219.137001	219.1041160411868	Subarray requested	NONE	NONE
[deg] Pointing Dec	34.679001	34.68309560092322	Alternating exposures requested	N	N
[deg] Pointing Roll	140.782786	141.0101803675952	[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)	165832205.184000	165831829.25605			
Observation start date	2003-04-04T08:29:01	2003-04-04T08:23:49			
[s] Observation end time (MET)	165837205.184000	165837339.14378			
Observation end date	2003-04-04T09:52:21	2003-04-04T09:55:39			
Read mode	TIMED	TIMED			

## 2.3 Aspect



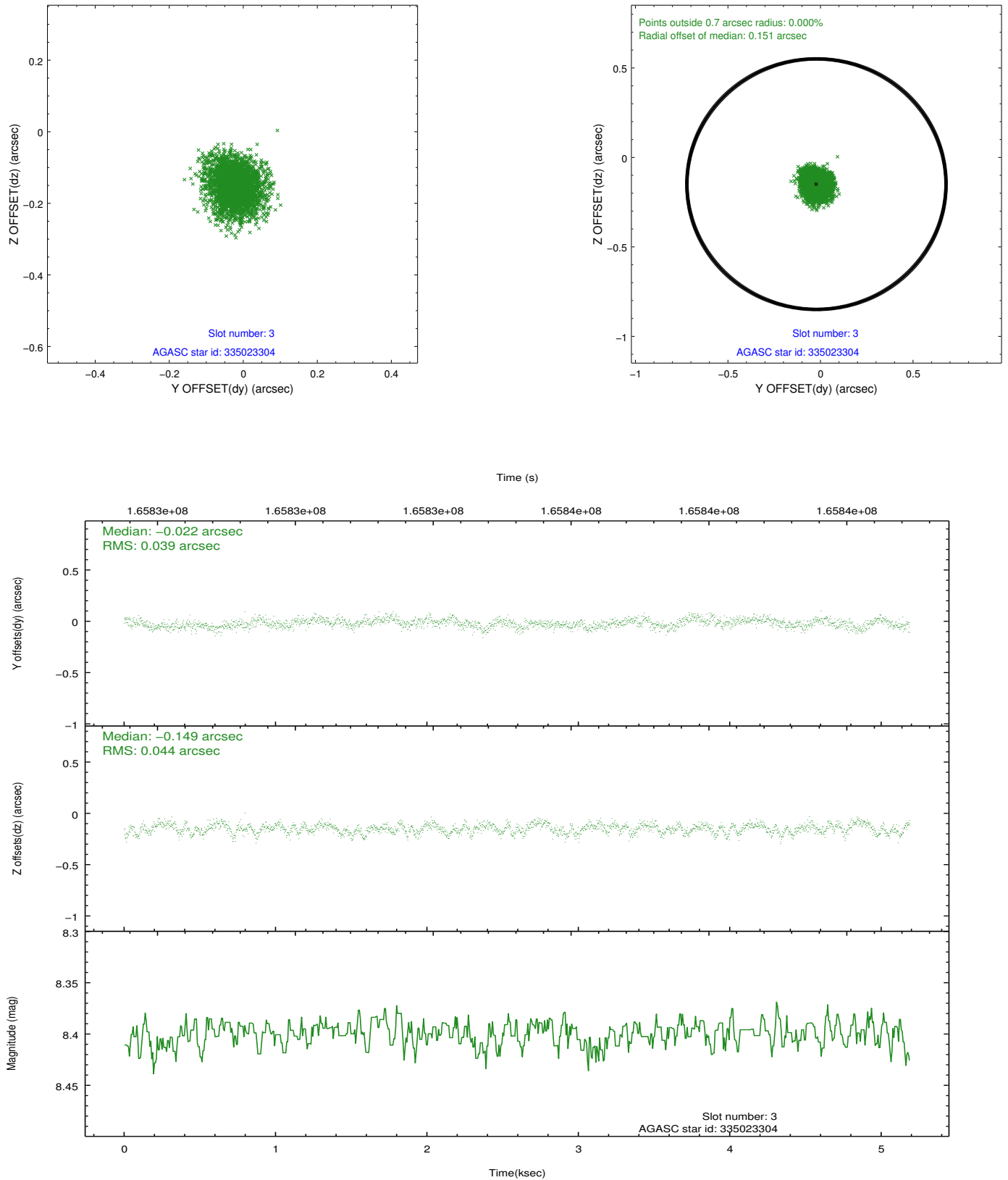


### Slot Statistics

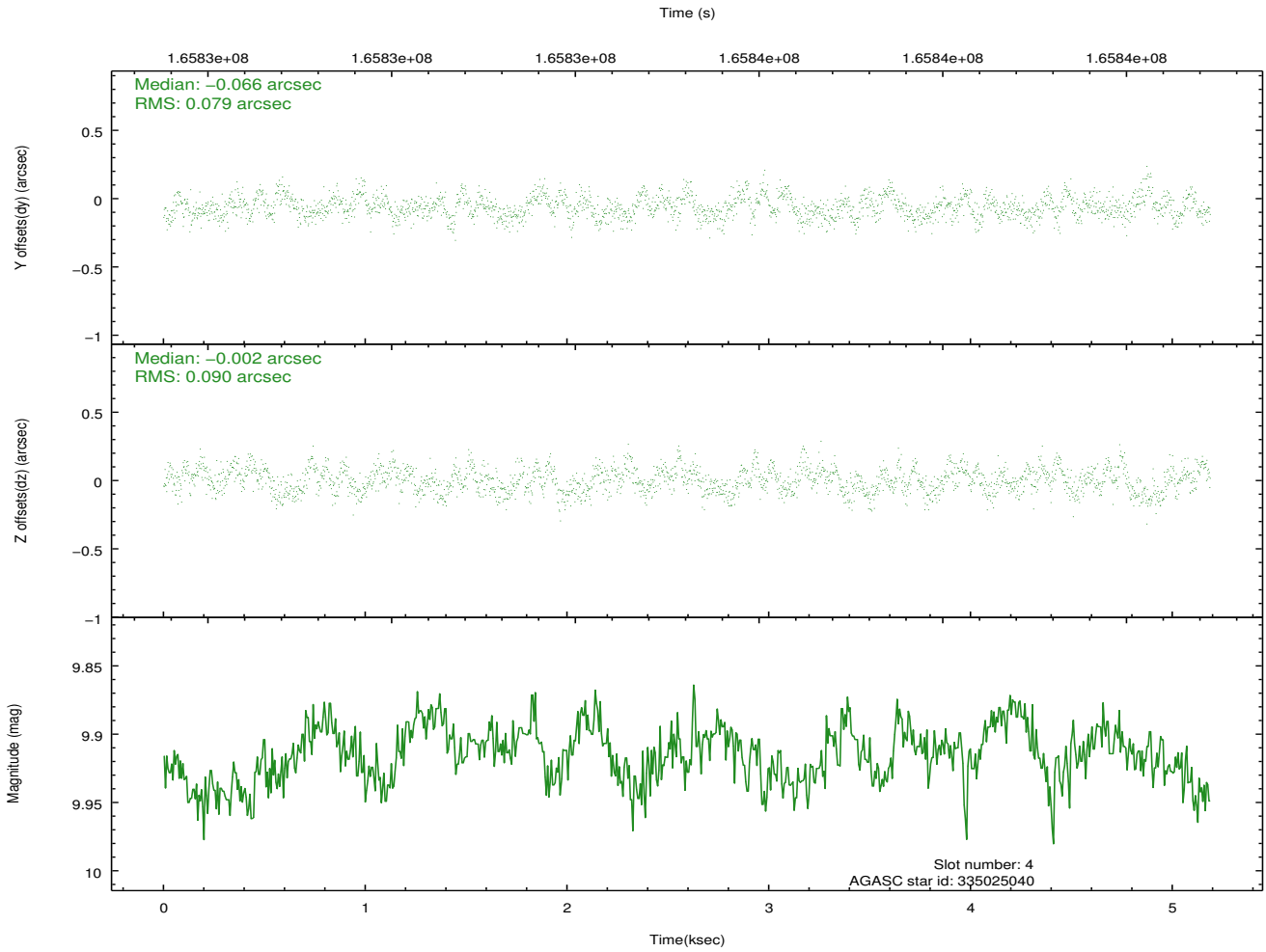
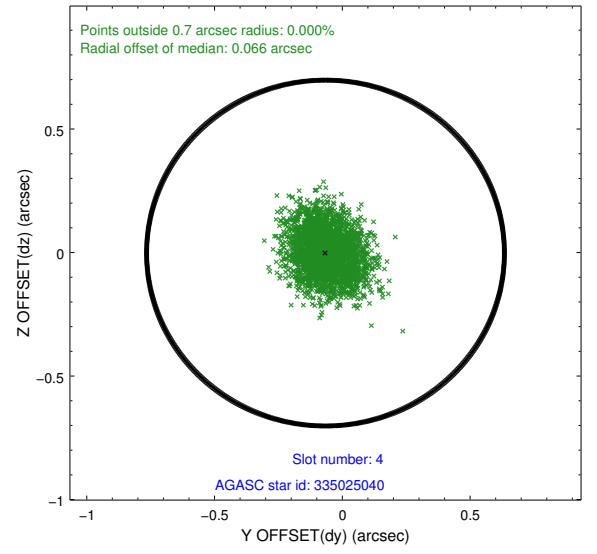
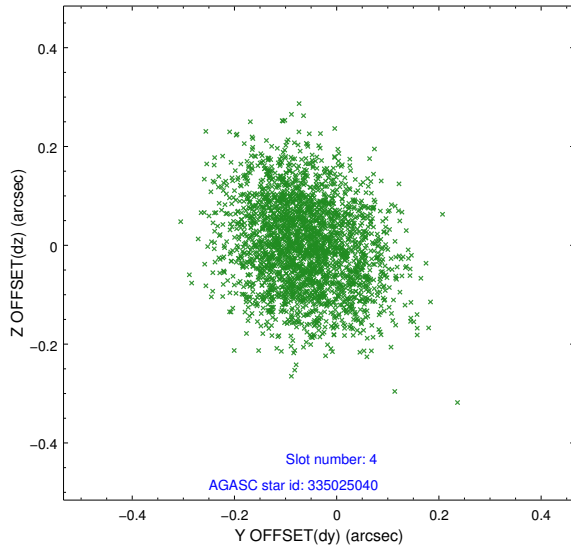
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1265	0.012	-0.005	0.006	0.010	0.000000	0.000000	937.58	-830.00
1	FID	ACIS-I-5	7.24	1265	-0.077	0.052	0.007	0.011	0.000000	0.000000	-1809.92	1067.02
2	FID	ACIS-I-6	7.26	1265	-0.025	0.023	0.007	0.011	0.000000	0.000000	401.88	1712.77
3	GUIDE	335023304	8.40	2531	-0.022	-0.149	0.063	0.101	218.883608	34.686545	599.30	452.39
4	GUIDE	335025040	9.91	2528	-0.066	-0.002	0.128	0.202	218.601670	34.305240	385.80	2045.95
5	GUIDE	335152968	9.77	2521	0.189	-0.035	0.112	0.181	219.446087	34.867883	-275.78	-1104.26
6	GUIDE	335414336	8.96	2531	-0.070	0.071	0.069	0.114	218.979022	35.090910	1298.68	-855.19
7	GUIDE	335153184	8.62	2530	-0.032	0.119	0.073	0.122	220.141256	34.877917	-1834.67	-2441.89

## 2.4 Star Slots

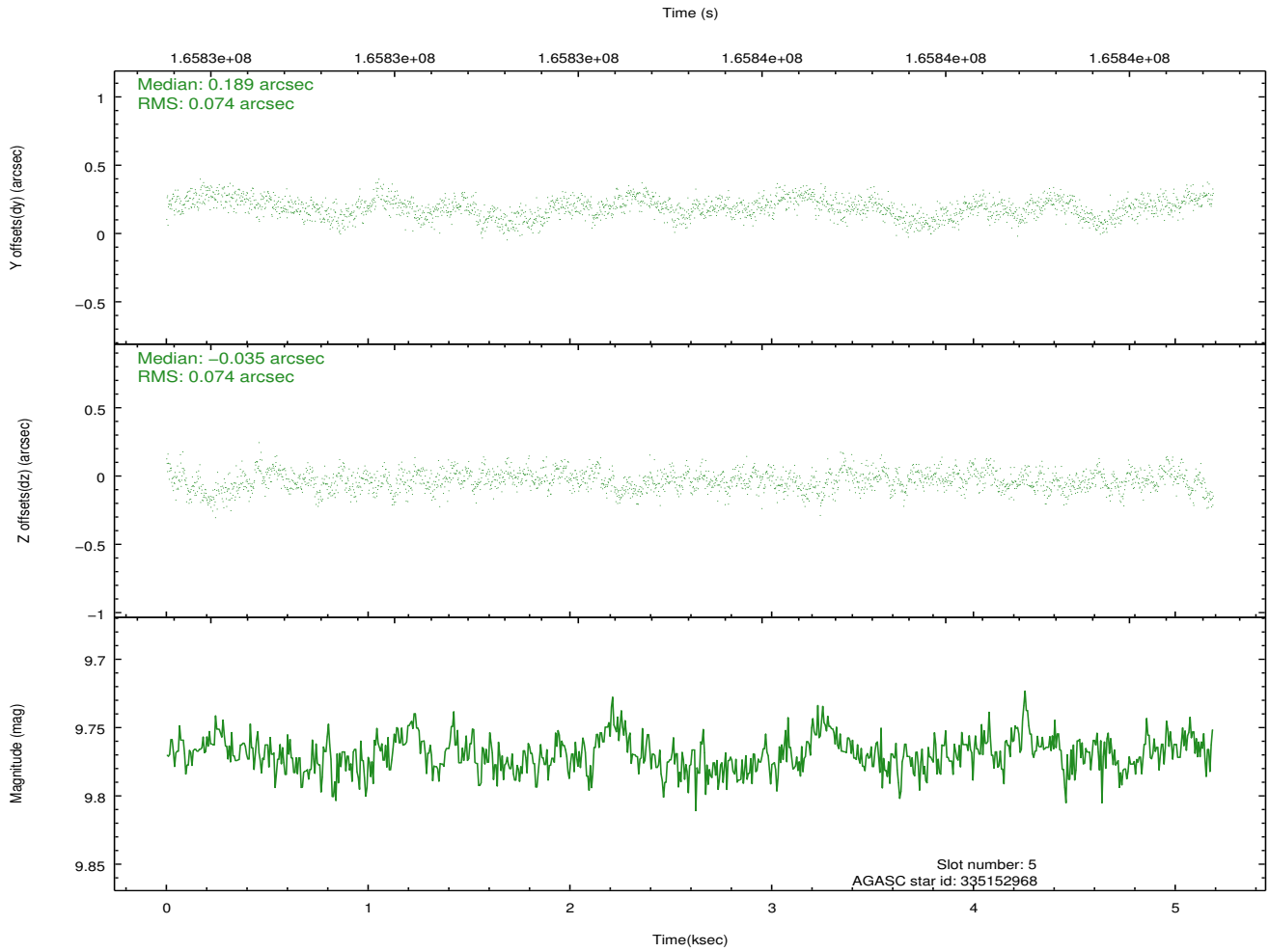
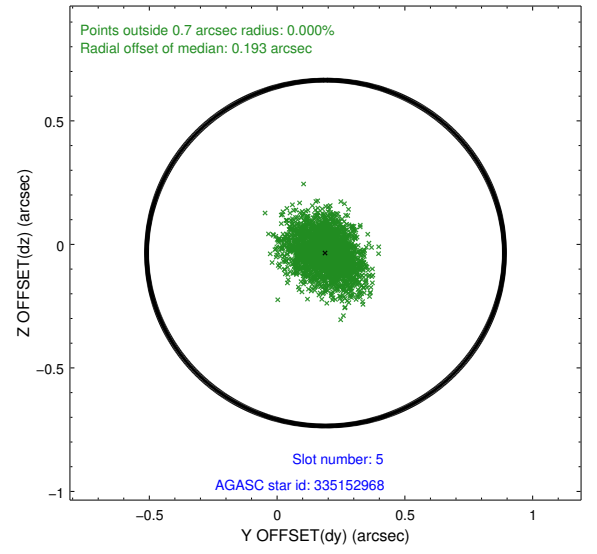
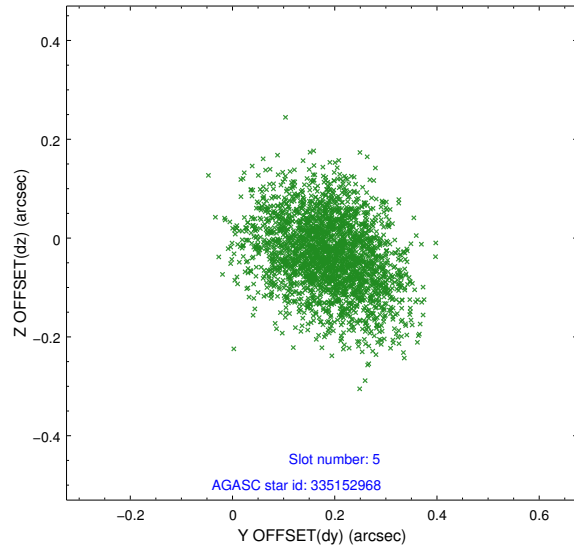
### 2.4.1 Slot 3



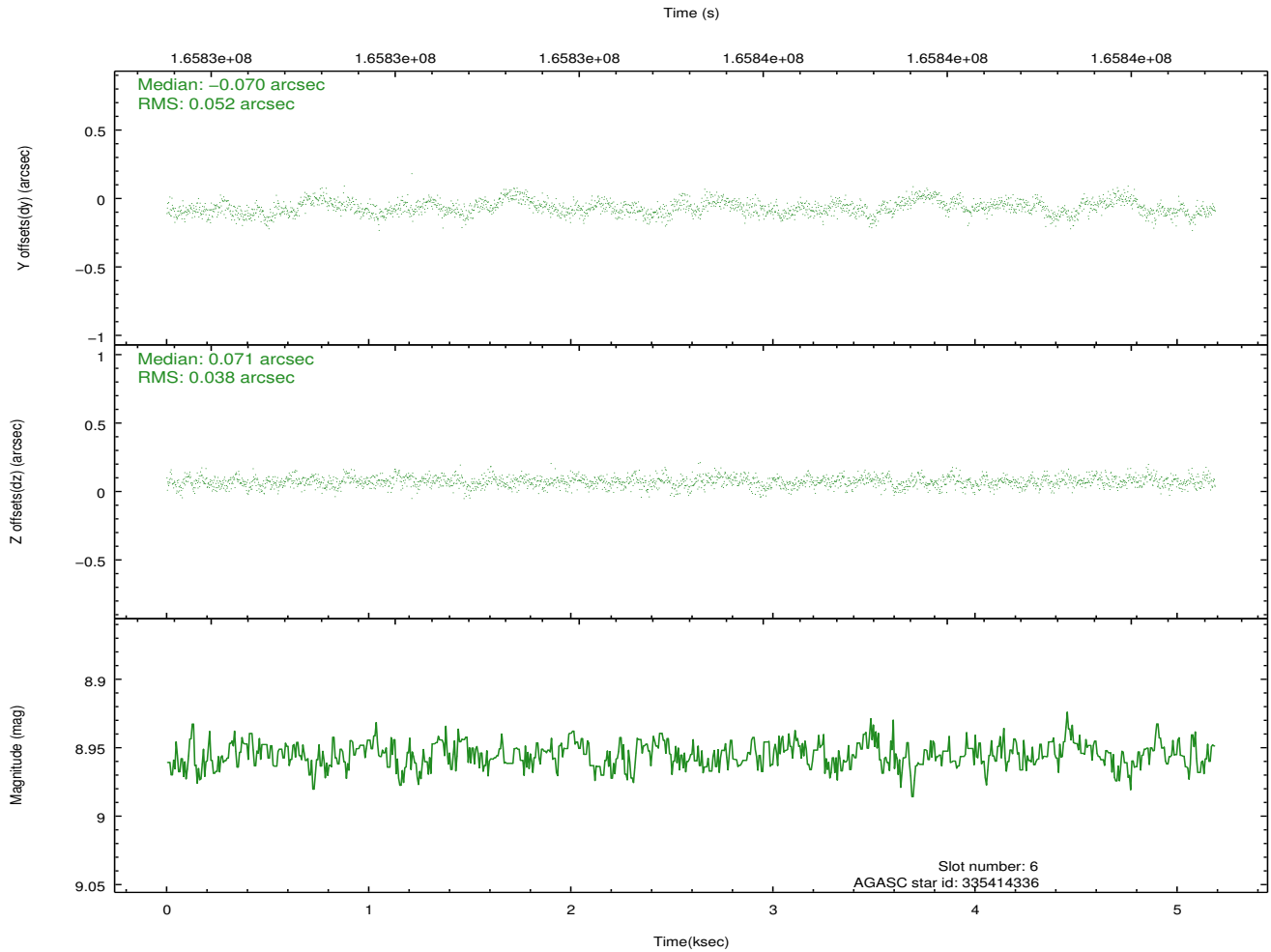
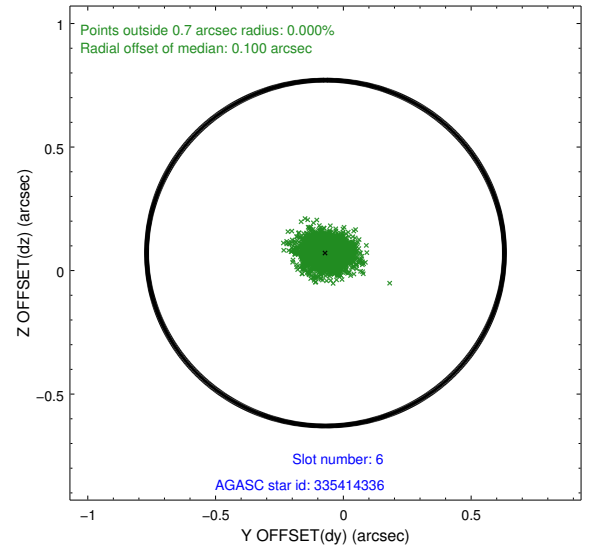
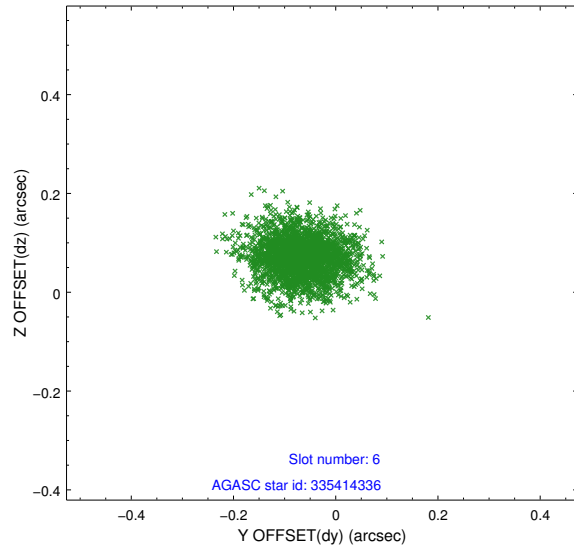
## 2.4.2 Slot 4



### 2.4.3 Slot 5

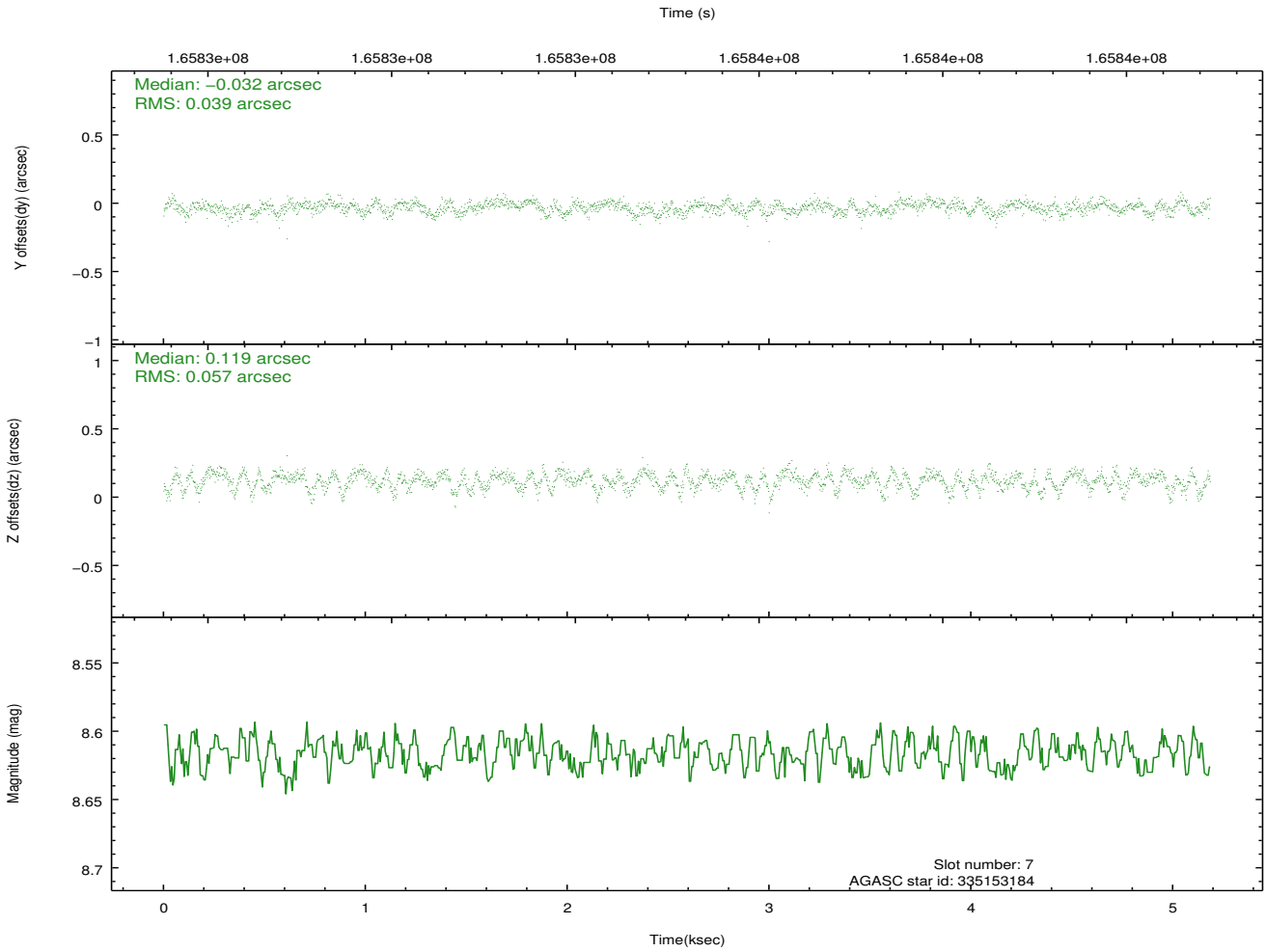
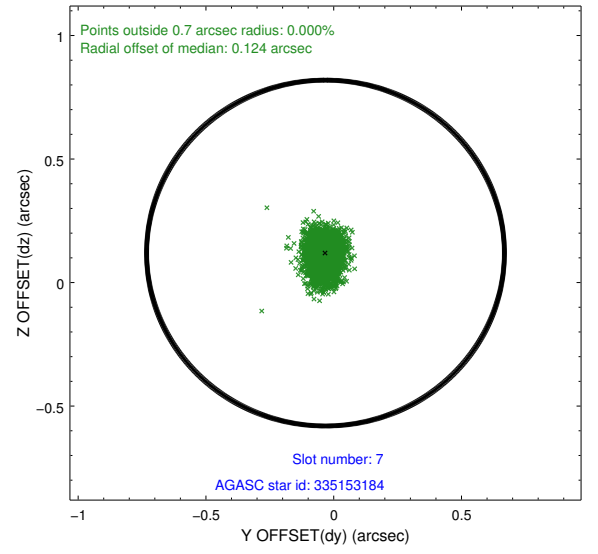
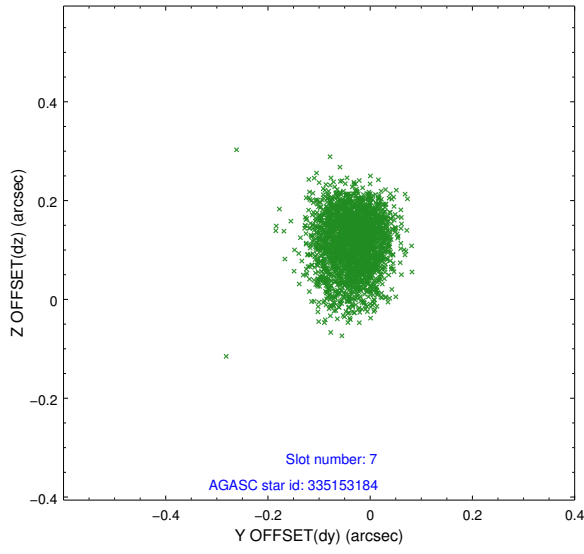


## 2.4.4 Slot 6



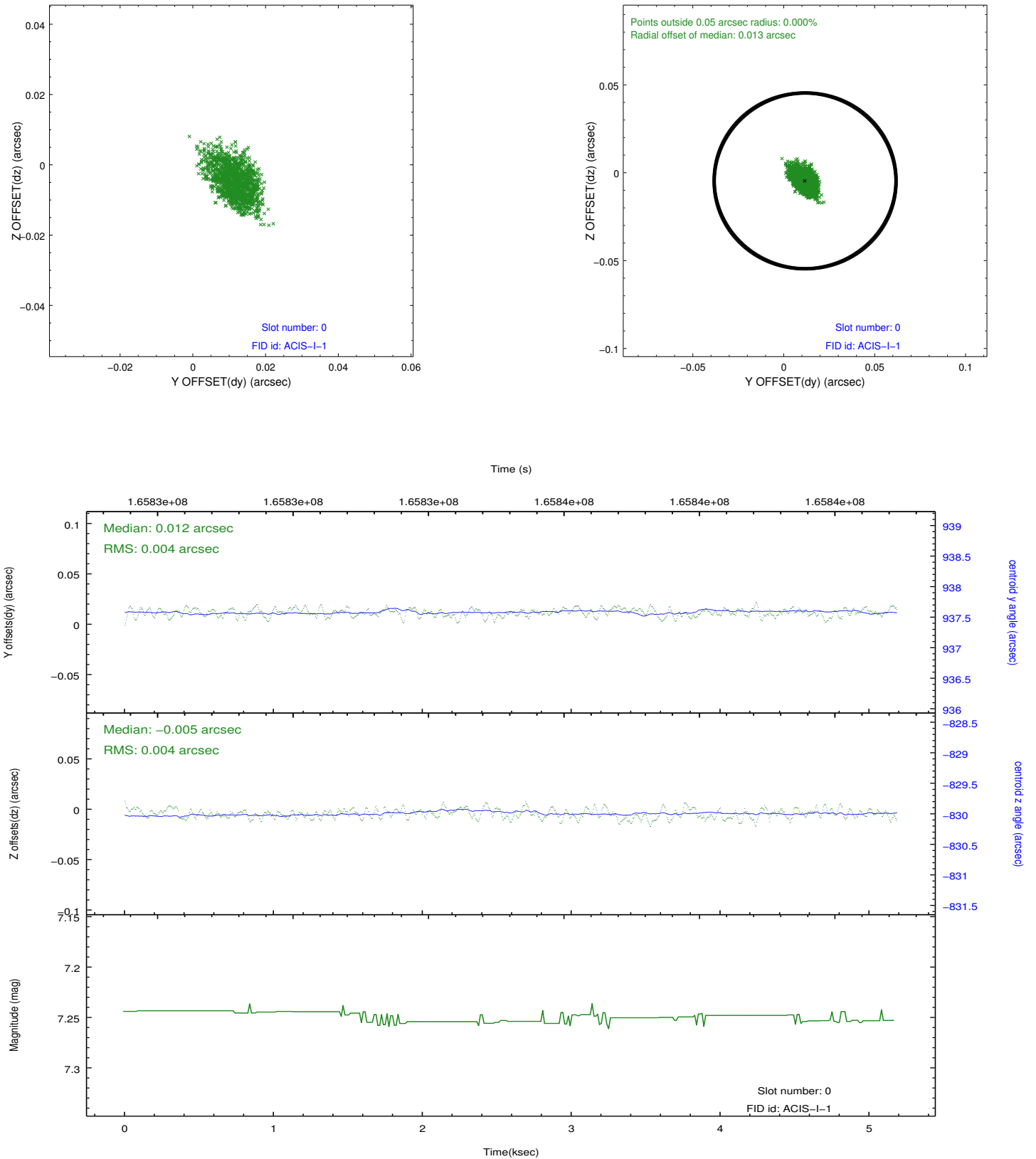


## 2.4.5 Slot 7

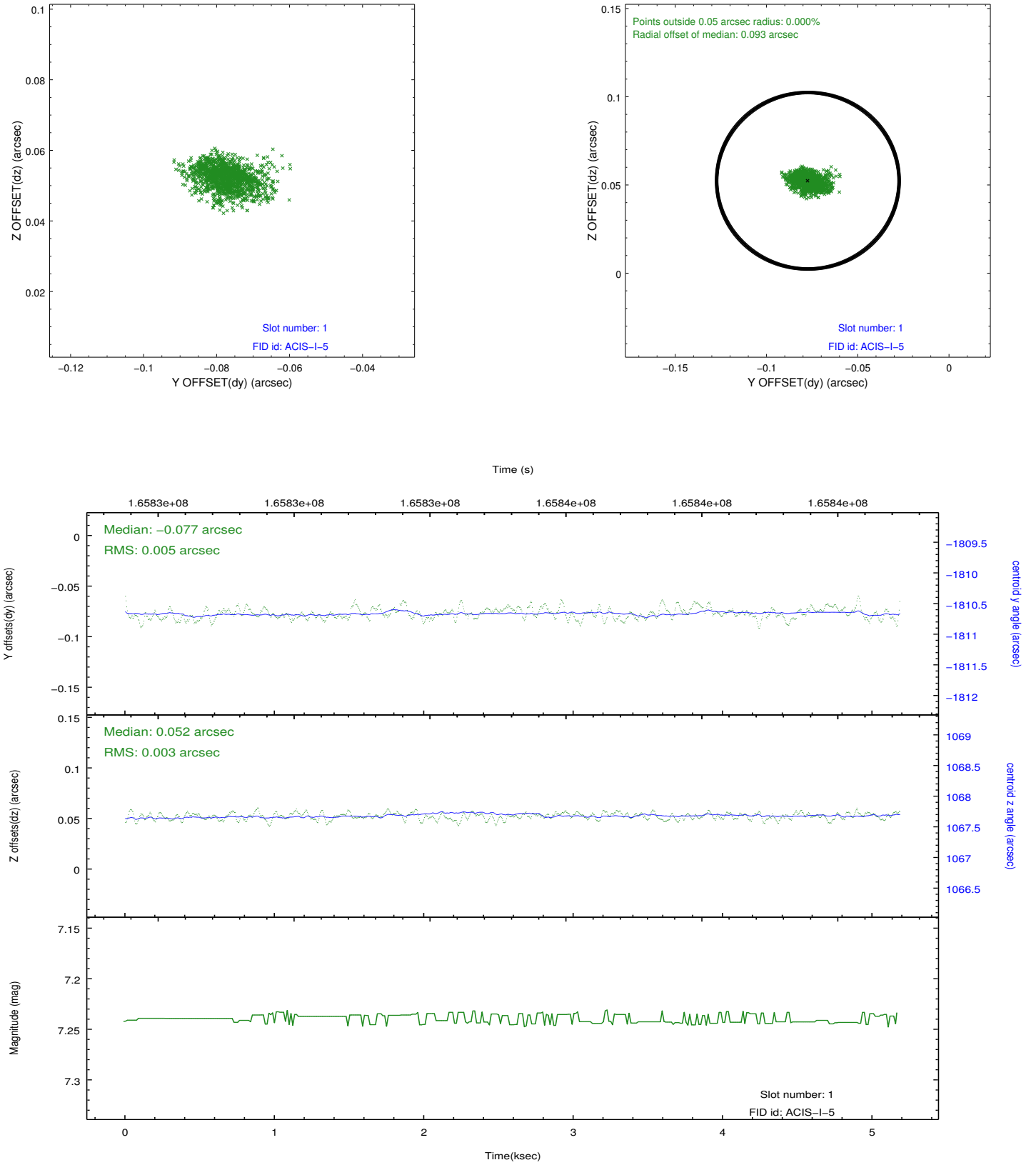


## 2.5 FID Slots

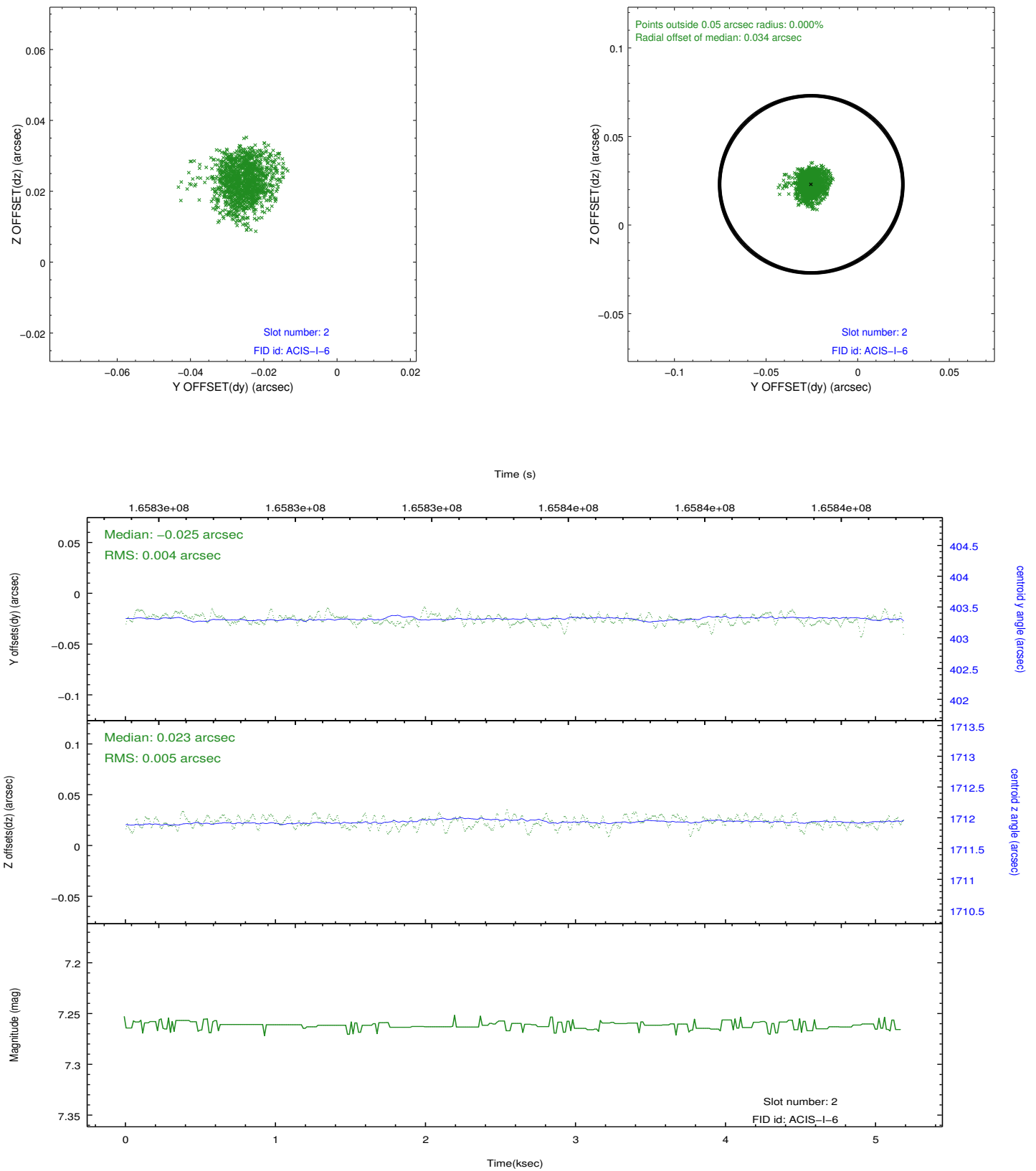
### 2.5.1 Slot 0



## 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)	2012.11.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.773

### A.2 Comments