

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 7010 - L2 Version 2  
Chandra X-Ray Center

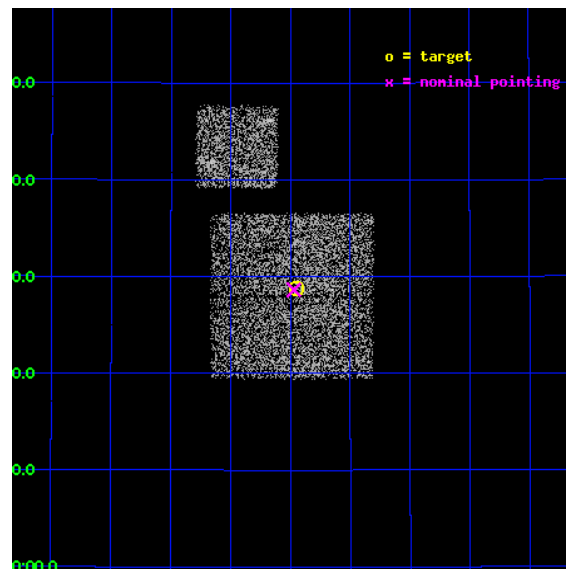
L2 Processing Date : Apr 12 2012

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# 1 Front

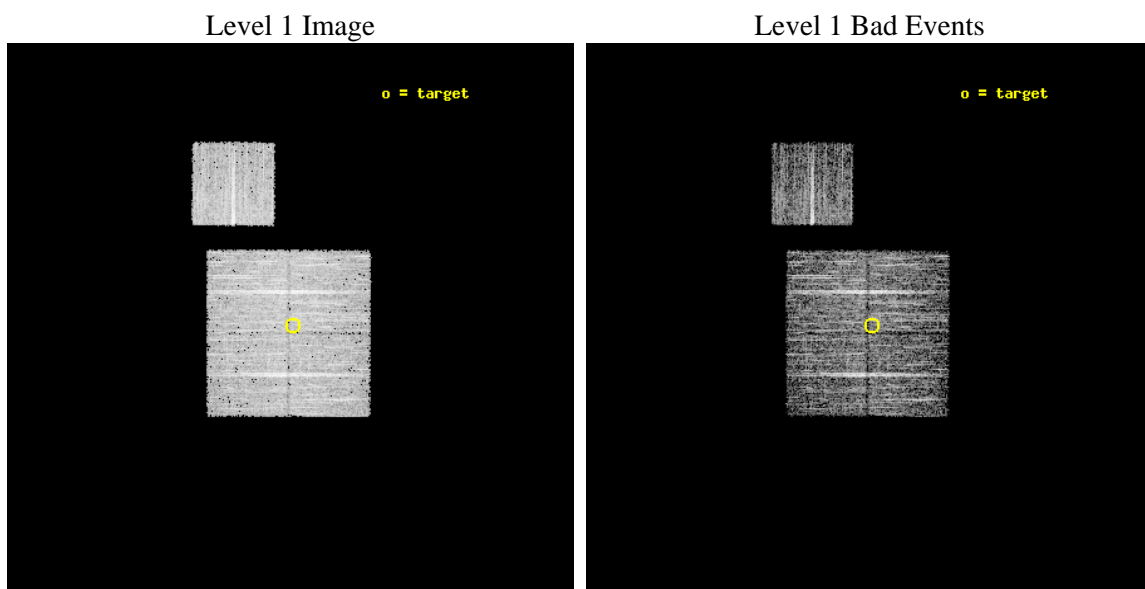
seq_num	900426	Sequence number
obs_id	7010	Observation id
title	Chandra Large Scale Survey of the NOAO Bootes Deep Field (A)	Propo
observer	Dr. Stephen Murray	Principal investigator
object	Bootes2 32	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	218.237633	Observer's specified target RA [deg]
dec_targ	33.478981	Observer's specified target Dec [deg]
ra_nom	218.24272890656	Nominal RA [deg]
dec_nom	33.47723445009	Nominal Dec [deg]
roll_nom	0.20572721432984	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4776.4513576031	Sum of GTIs [s]
livetime	4714.0435042437	Livetime [s]
ontime0	4776.3282077312	Sum of GTIs [s]
ontime1	4776.3692775965	Sum of GTIs [s]
ontime2	4776.4103175998	Sum of GTIs [s]
ontime3	4776.4513576031	Sum of GTIs [s]
ontime6	4776.2871975899	Sum of GTIs [s]
l2events	13586	Number of level 2 events



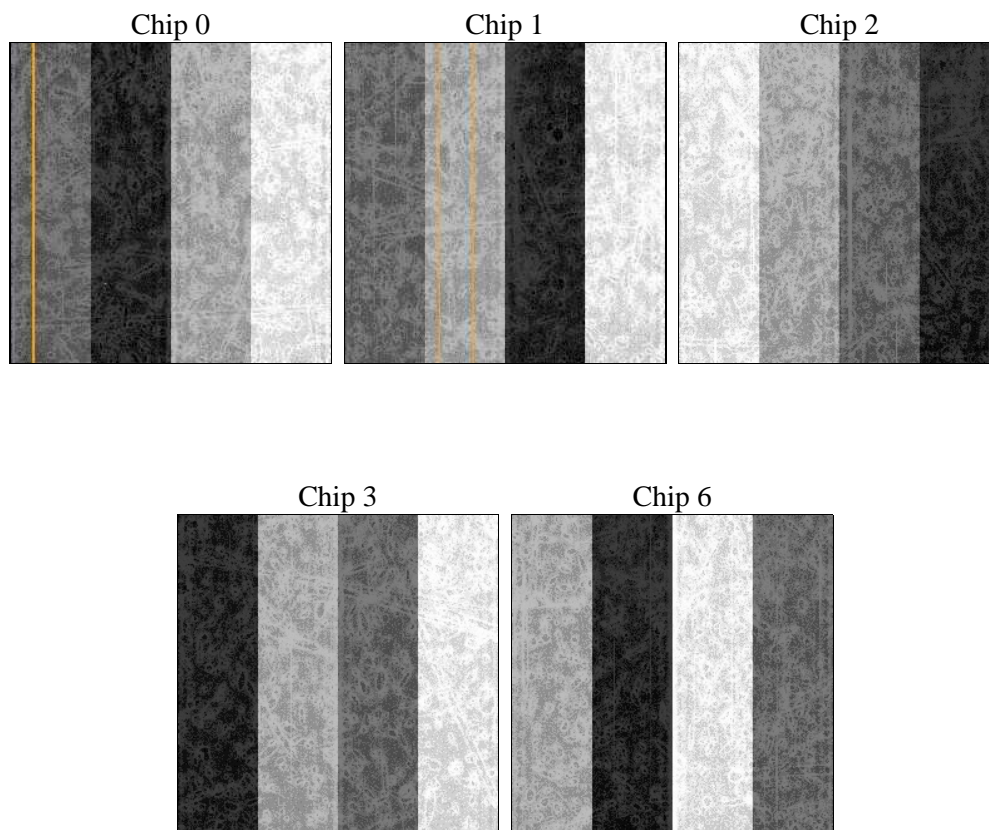
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	4776.4513576031	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	4776.3282077312	Sum of GTIs [s]
date	2012-04-12T23:21:06	Date and time of file creation	ontime1	4776.3692775965	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4776.4103175998	Sum of GTIs [s]
			ontime3	4776.4513576031	Sum of GTIs [s]
			ontime6	4776.2871975899	Sum of GTIs [s]
			l1events	176393	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	32817	32202	39452	36506	35416
rejected events	29503	28813	36248	33284	31930
rejected %	89%	89%	91%	91%	90%

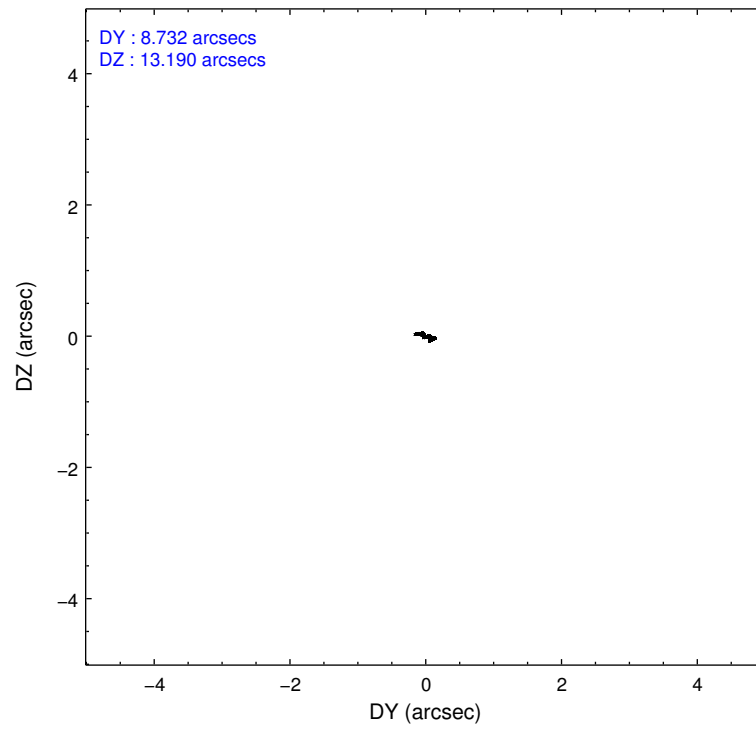
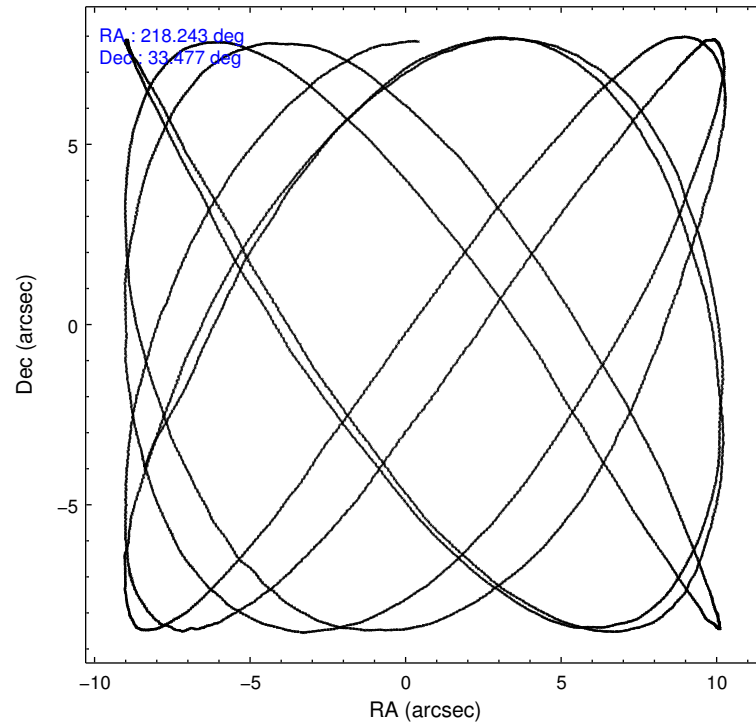
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1177	1165	1218	1178	1284
	3%	3%	3%	3%	3%
grade 1 events	22	22	20	20	17
	0%	0%	0%	0%	0%
grade 2 events	824	768	724	691	698
	2%	2%	1%	1%	1%
grade 3 events	352	377	330	360	418
	1%	1%	0%	0%	1%
grade 4 events	368	405	378	364	392
	1%	1%	0%	0%	1%
grade 5 events	948	1150	935	1147	1154
	2%	3%	2%	3%	3%
grade 6 events	595	678	555	631	697
	1%	2%	1%	1%	1%
grade 7 events	28531	27637	35292	32115	30756
	86%	85%	89%	87%	86%

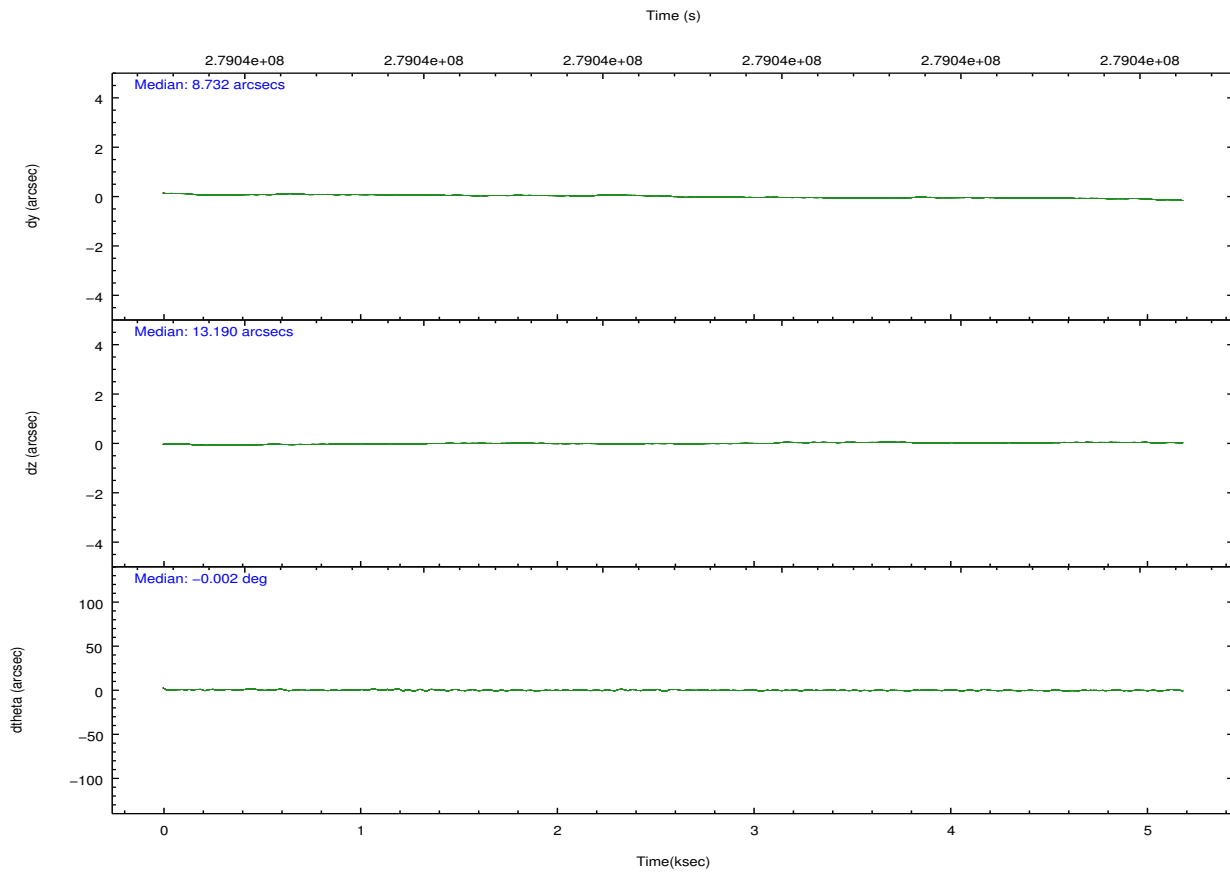
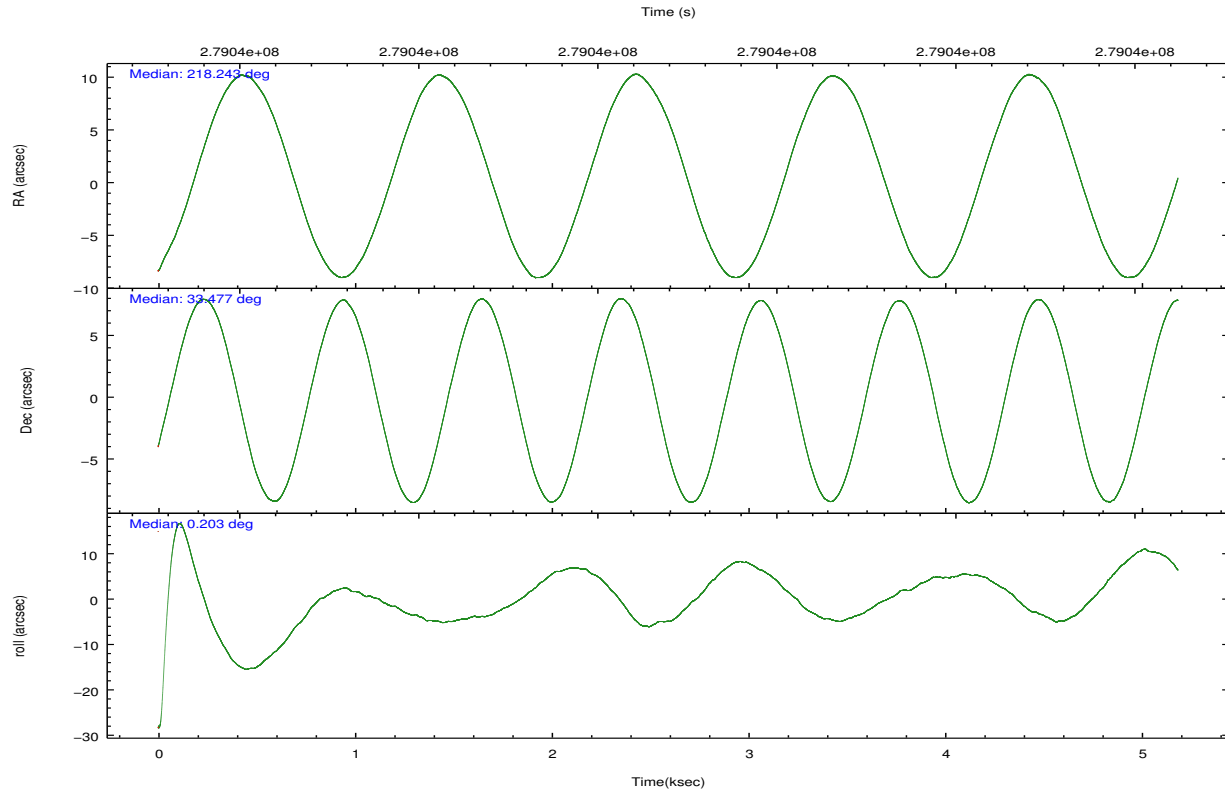


## 2.2 Compared Parameters

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	218.214461	218.2427289065604	Subarray requested	NONE	NONE
[deg] Pointing Dec	33.463314	33.47723445008957	Alternating exposures requested	N	N
[deg] Pointing Roll	0.012779	0.2057272143298423	[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)	279036980.184000	279036603.7831			
Observation start date	2006-11-04T14:15:15	2006-11-04T14:10:03			
[s] Observation end time (MET)	279041980.184000	279042114.18336			
Observation end date	2006-11-04T15:38:35	2006-11-04T15:41:54			
Read mode	TIMED	TIMED			

## 2.3 Aspect



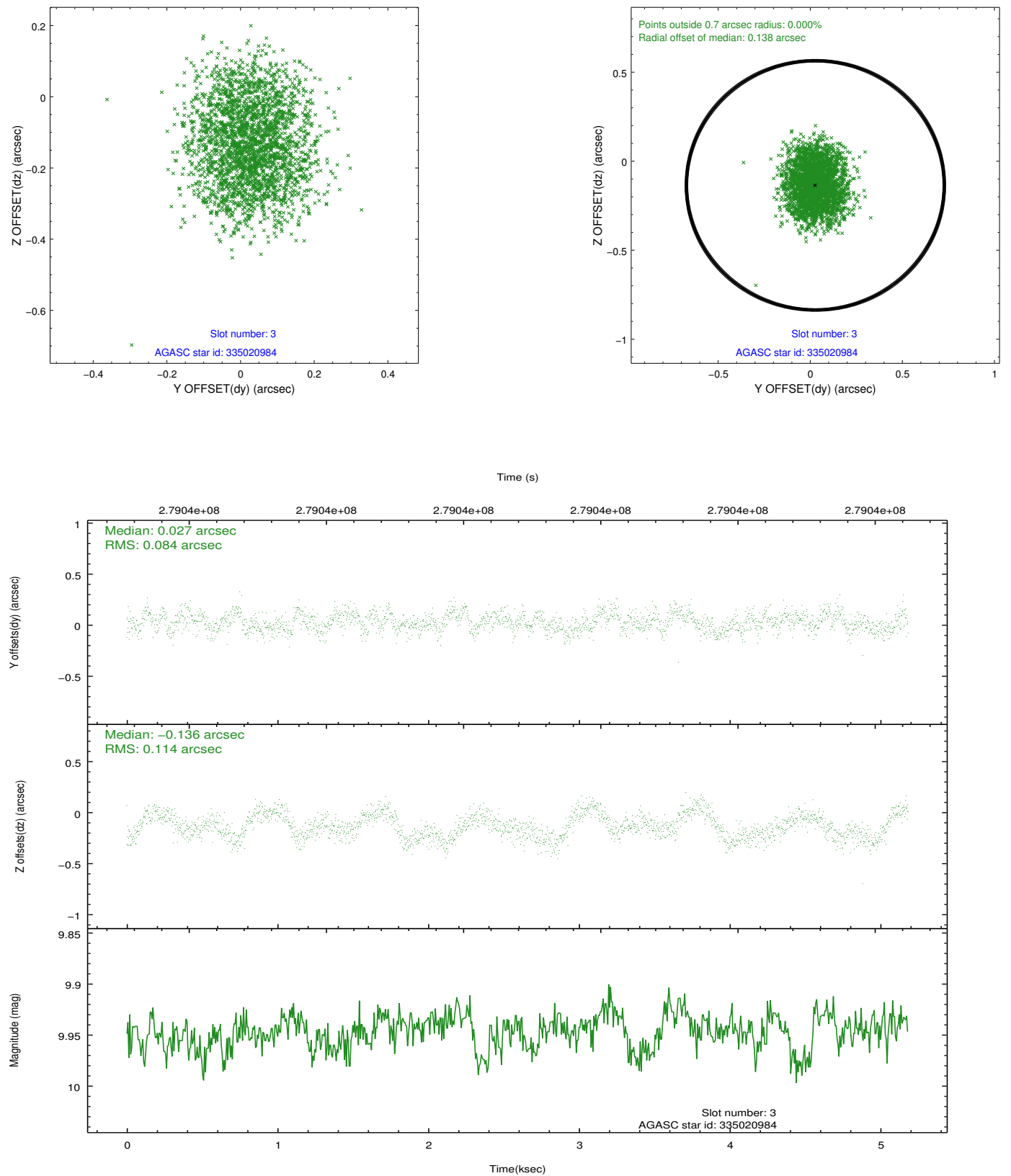


### Slot Statistics

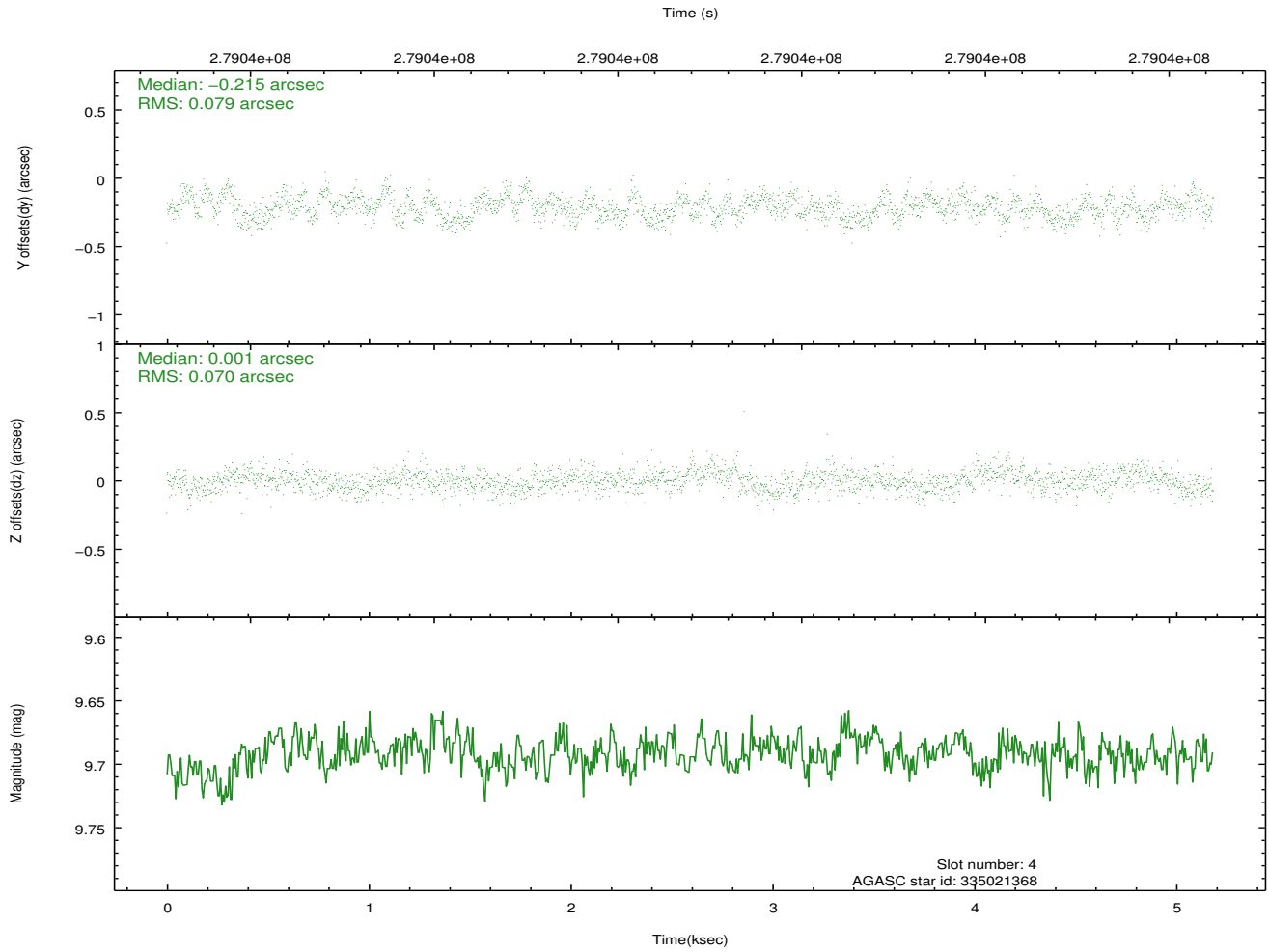
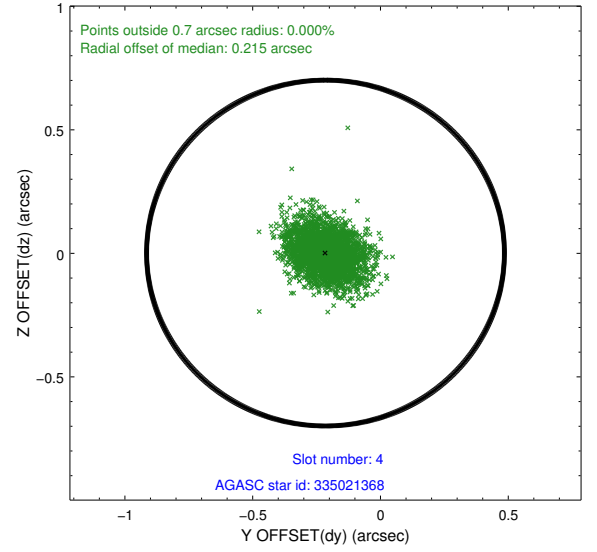
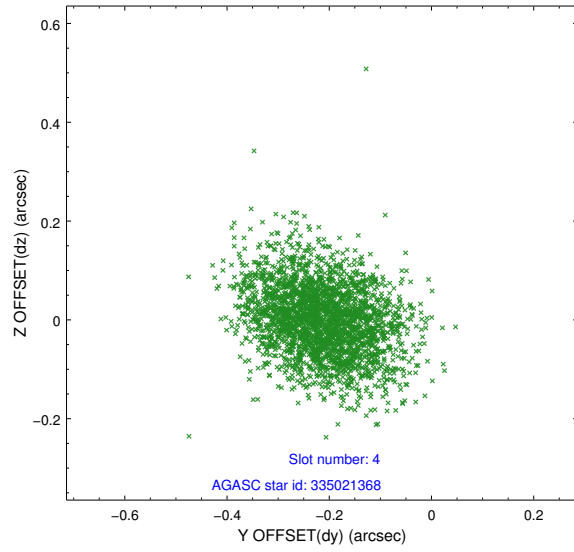
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1265	0.040	0.003	0.006	0.010	0.000000	0.000000	930.93	-836.74
1	FID	ACIS-I-5	7.23	1264	-0.197	0.051	0.006	0.011	0.000000	0.000000	-1816.76	1060.21
2	FID	ACIS-I-6	7.24	1265	0.067	0.016	0.006	0.011	0.000000	0.000000	395.24	1706.00
3	GUIDE	335020984	9.95	2521	0.027	-0.136	0.155	0.238	218.841668	33.815112	1875.97	1272.76
4	GUIDE	335021368	9.69	2524	-0.215	0.001	0.111	0.181	217.529643	33.934817	-2044.35	1705.26
5	GUIDE	335025848	9.71	2520	0.023	0.065	0.115	0.192	217.530531	33.778292	-2046.81	1142.00
6	GUIDE	335027640	9.11	2530	0.123	-0.013	0.086	0.139	218.092211	33.193770	-368.82	-969.45
7	GUIDE	335029384	8.49	2529	0.038	0.074	0.069	0.113	217.848061	33.088477	-1105.00	-1347.65

## 2.4 Star Slots

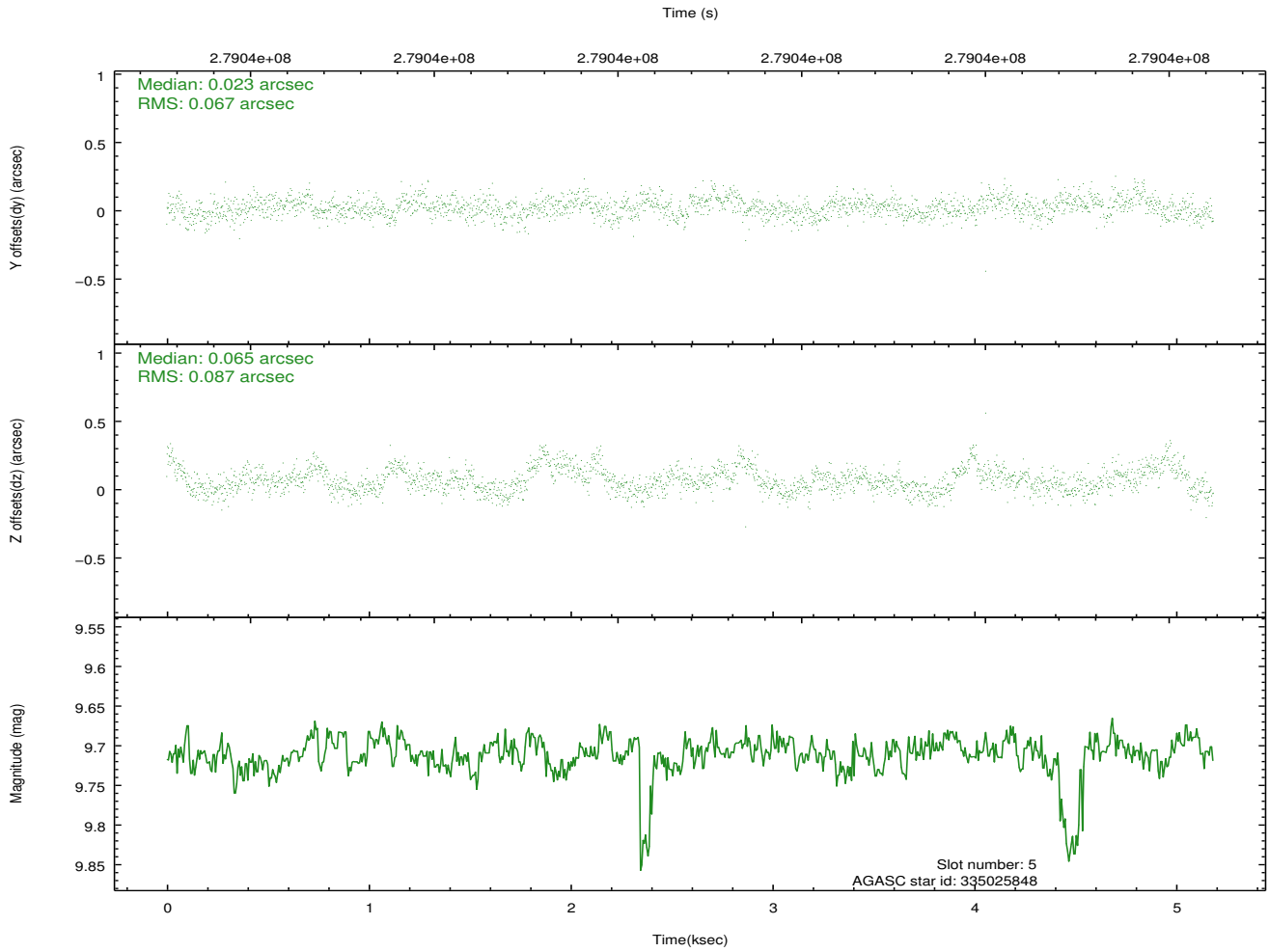
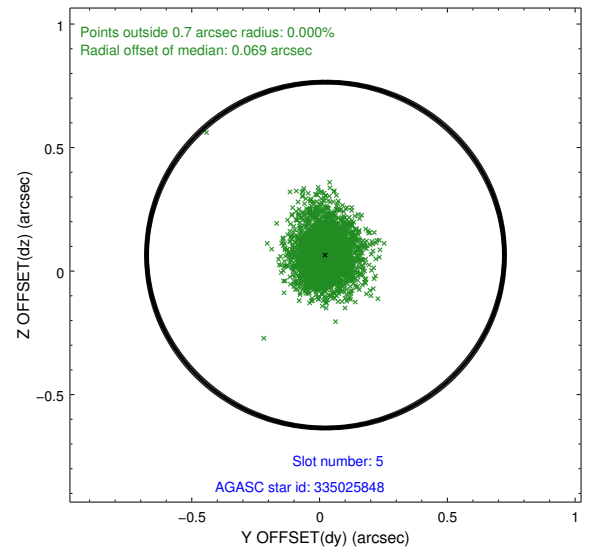
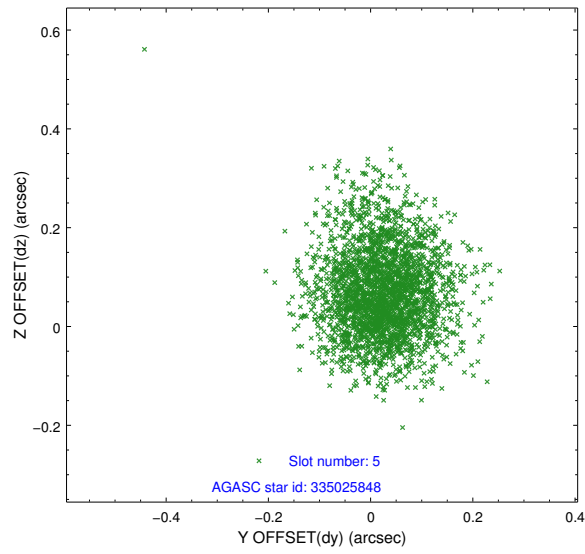
### 2.4.1 Slot 3



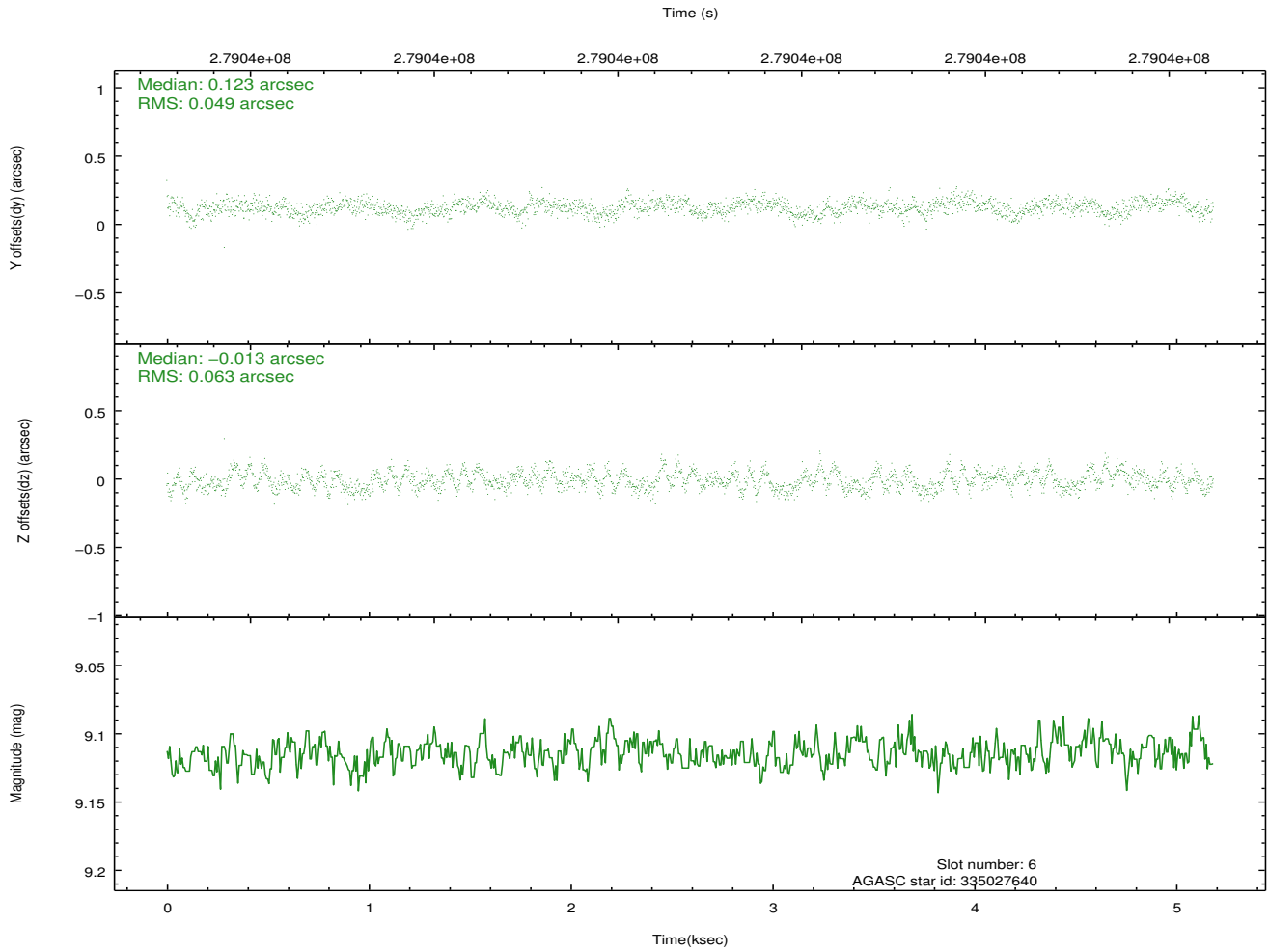
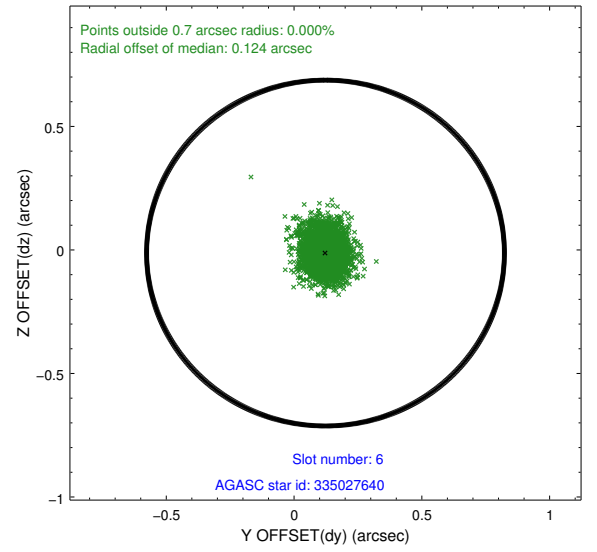
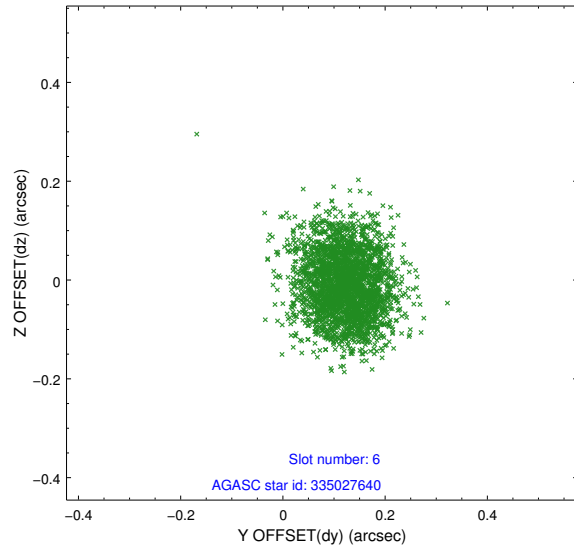
## 2.4.2 Slot 4



### 2.4.3 Slot 5

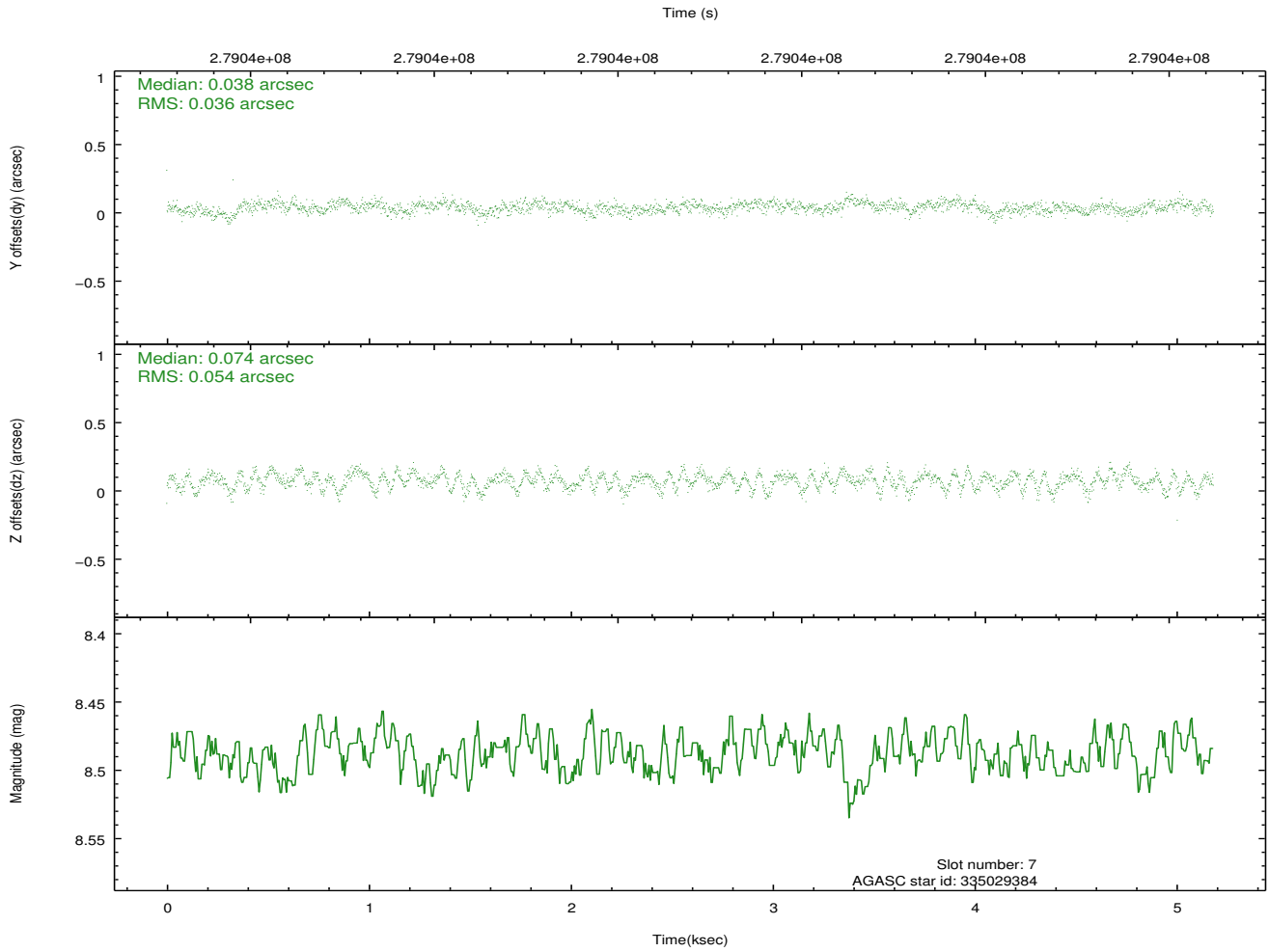
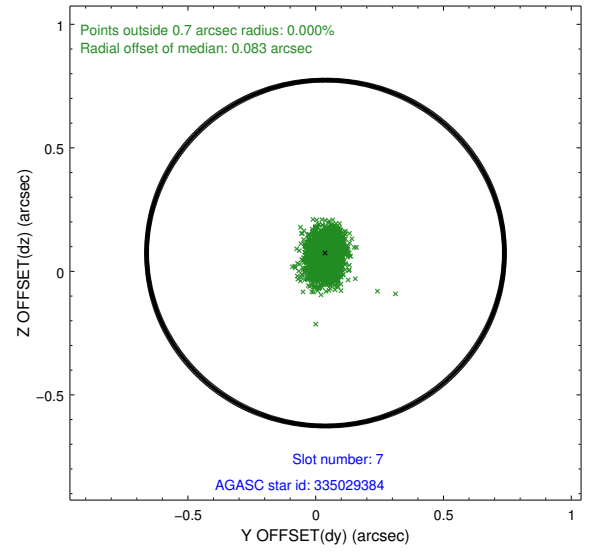
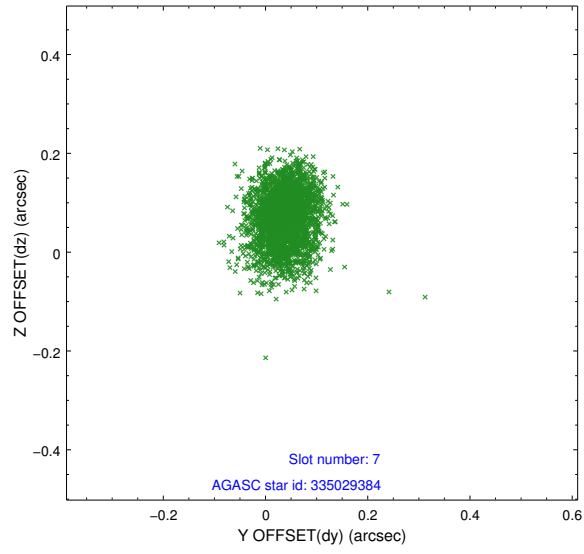


## 2.4.4 Slot 6



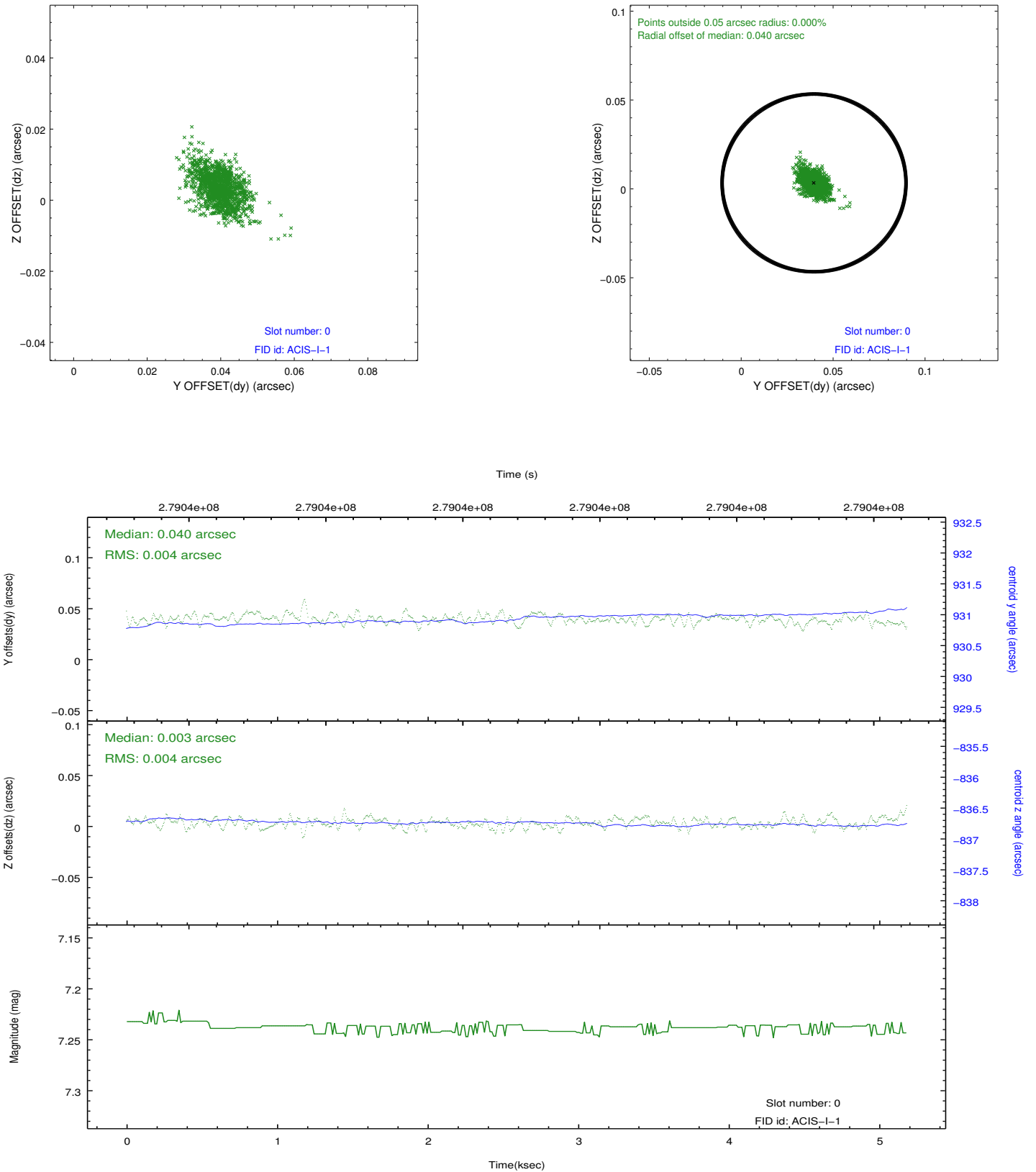


## 2.4.5 Slot 7

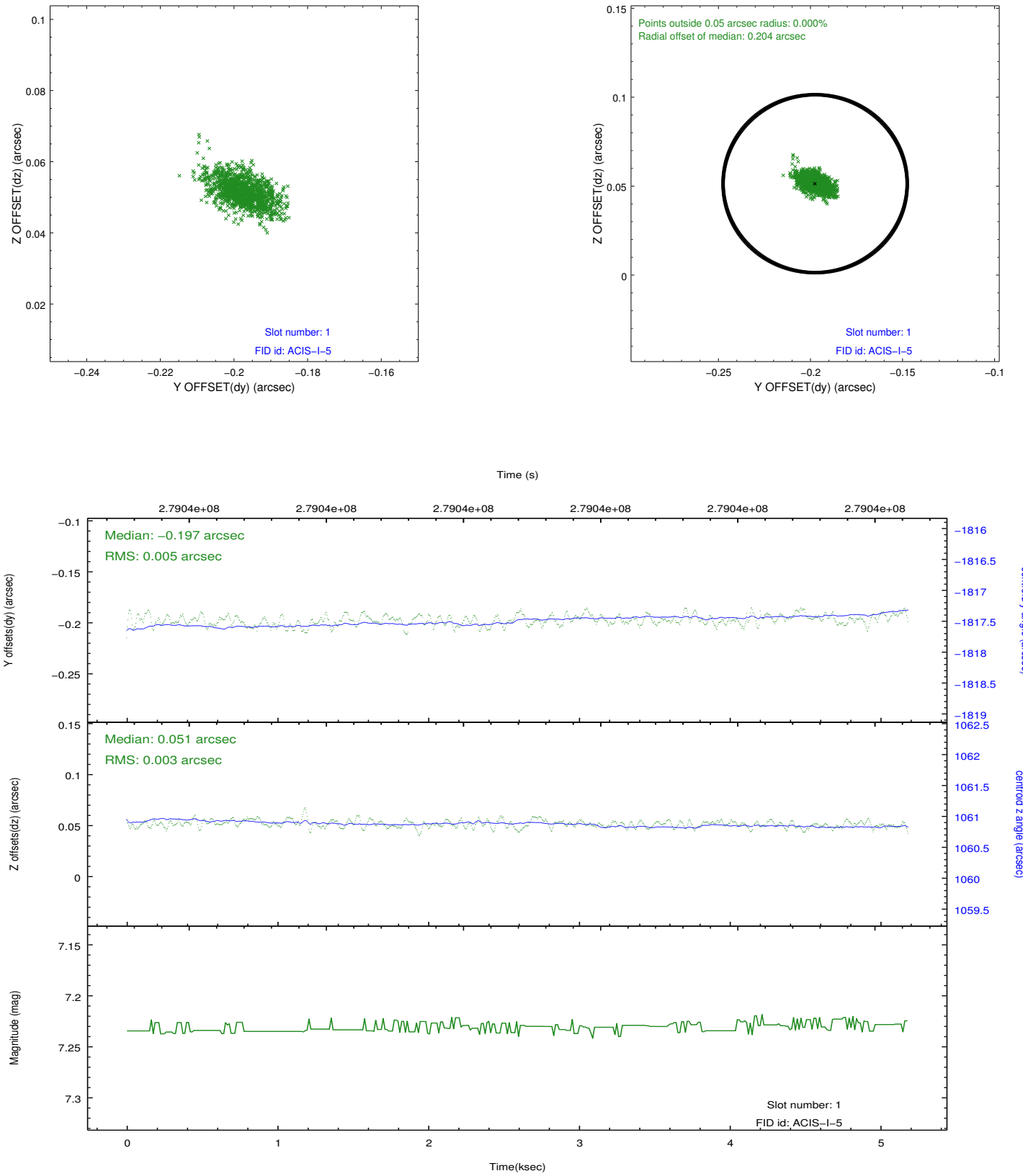


## 2.5 FID Slots

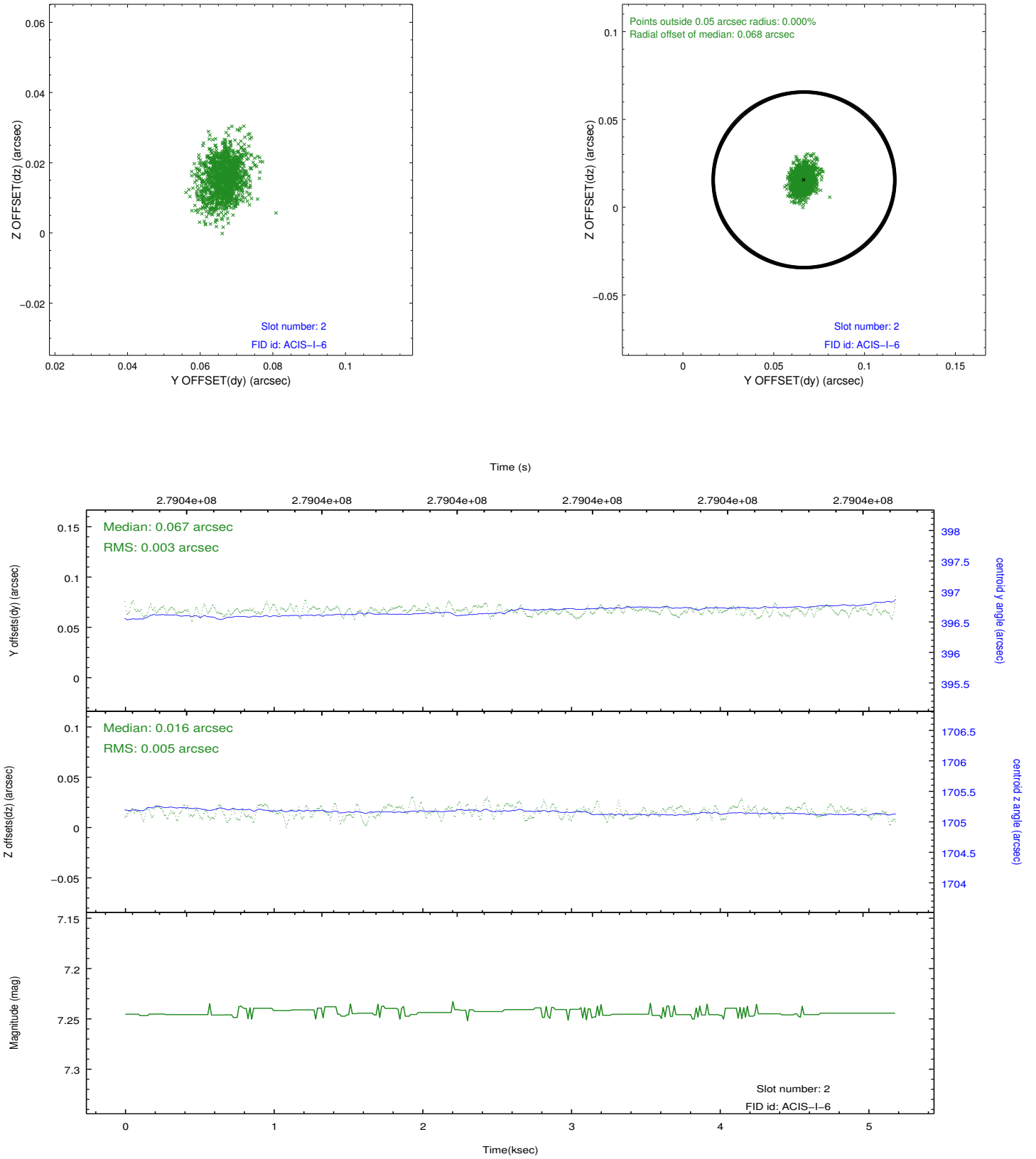
### 2.5.1 Slot 0



## 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)	2012.04.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.77710003

### A.2 Comments