

# V&V Reference Report

## L2 ASCDS Version : 8.4.3.1

Observation 7002 - L2 Version 2  
Chandra X-Ray Center

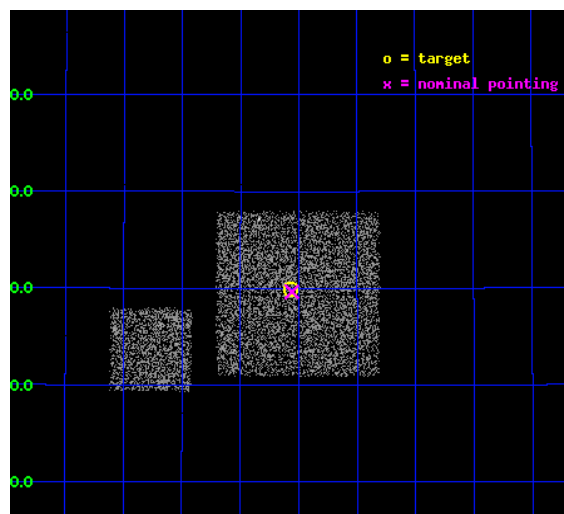
L2 Processing Date : Apr 7 2012

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# 1 Front

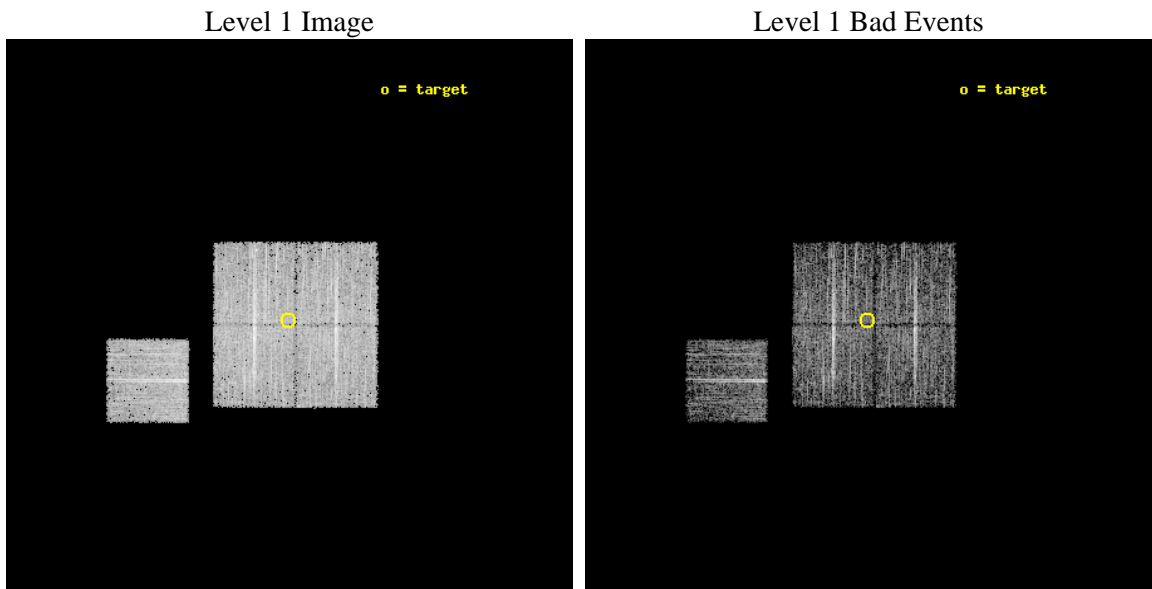
seq_num	900418	Sequence number
obs_id	7002	Observation id
title	Chandra Large Scale Survey of the NOAO Bootes Deep Field (A)	Propo
observer	Dr Stephen Murray	Principal investigator
object	Bootes2 24	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.51685	Observer's specified target RA [deg]
dec_targ	35.498263	Observer's specified target Dec [deg]
ra_nom	216.51472113729	Nominal RA [deg]
dec_nom	35.493988767217	Nominal Dec [deg]
roll_nom	270.20995189794	Nominal Roll [deg]
revision	2	Processing version of data
ontime	4473.1637411714	Sum of GTIs [s]
livetime	4414.7185637977	Livetime [s]
ontime0	4473.0406112075	Sum of GTIs [s]
ontime1	4476.2226215005	Sum of GTIs [s]
ontime2	4473.1226712465	Sum of GTIs [s]
ontime3	4473.1637411714	Sum of GTIs [s]
ontime6	4472.9995712042	Sum of GTIs [s]
l2events	12598	Number of level 2 events



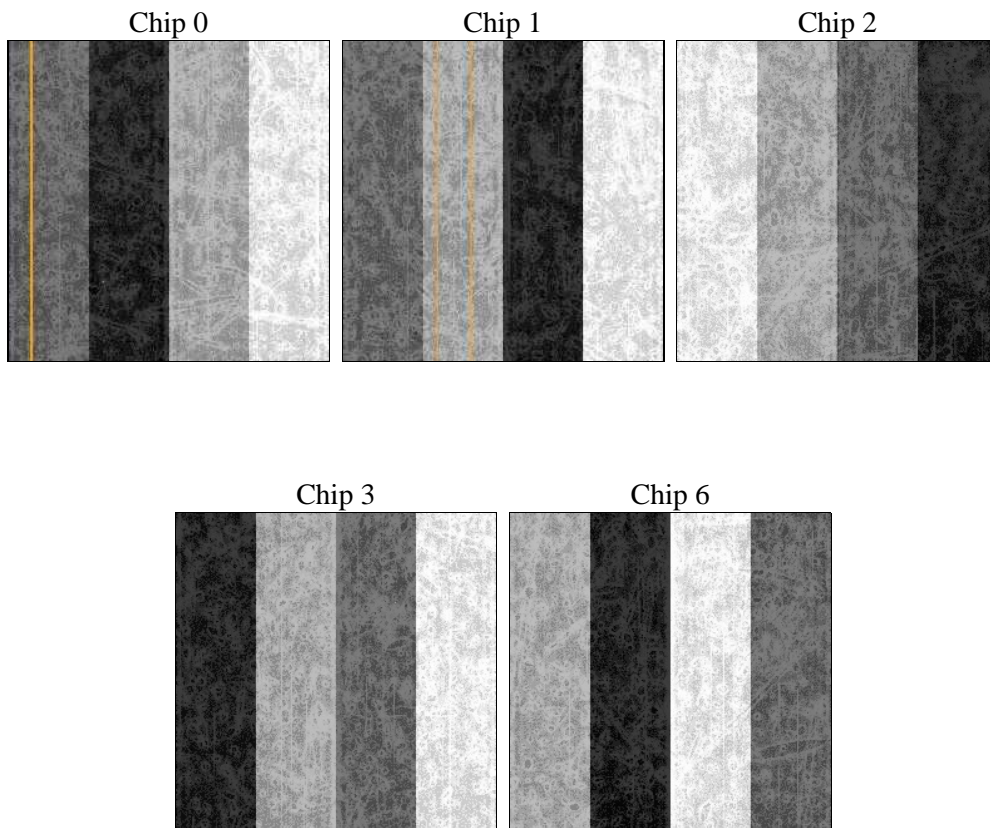
## 2 OBI

### 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	4473.1637411714	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	4473.0406112075	Sum of GTIs [s]
date	2012-04-07T09:06:12	Date and time of file creation	ontime1	4476.2226215005	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4473.1226712465	Sum of GTIs [s]
			ontime3	4473.1637411714	Sum of GTIs [s]
			ontime6	4472.9995712042	Sum of GTIs [s]
			l1events	164024	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	31912	31317	34695	33586	32514
rejected events	28816	28117	31594	30586	29450
rejected %	90%	89%	91%	91%	90%

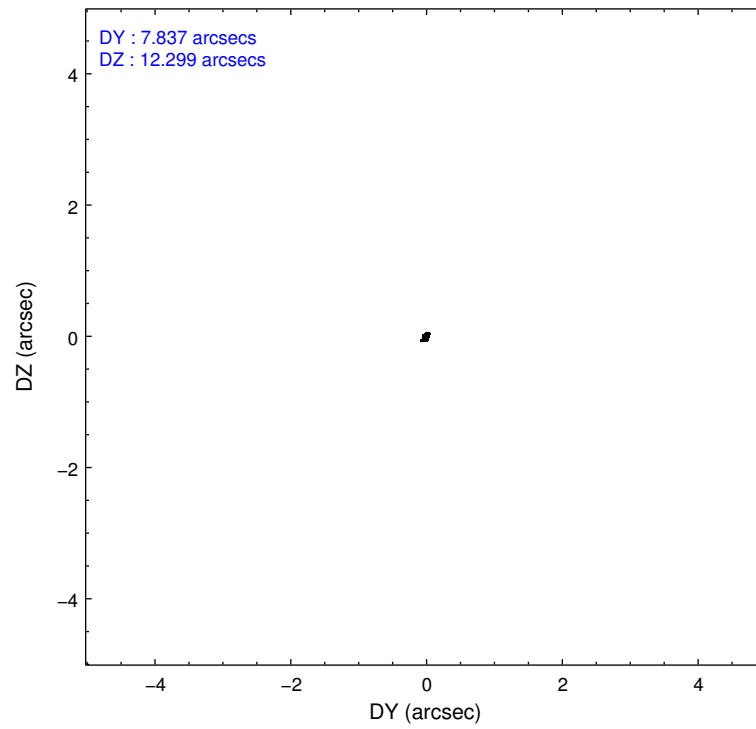
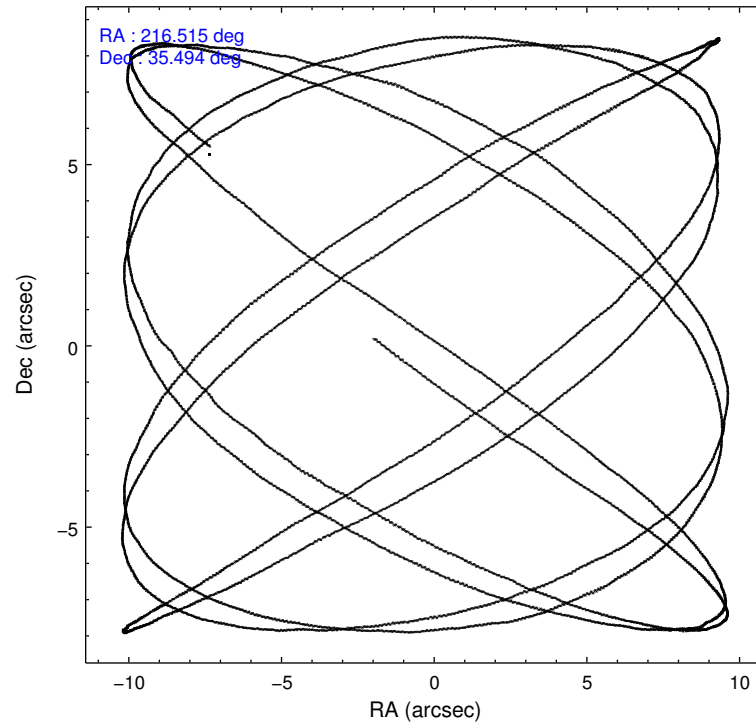
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1086	1101	1171	1144	1105
	3%	3%	3%	3%	3%
grade 1 events	20	14	11	25	12
	0%	0%	0%	0%	0%
grade 2 events	721	724	692	627	658
	2%	2%	1%	1%	2%
grade 3 events	376	371	320	319	375
	1%	1%	0%	0%	1%
grade 4 events	360	388	350	348	344
	1%	1%	1%	1%	1%
grade 5 events	916	1030	857	1140	1085
	2%	3%	2%	3%	3%
grade 6 events	559	625	576	568	592
	1%	1%	1%	1%	1%
grade 7 events	27874	27064	30718	29415	28343
	87%	86%	88%	87%	87%

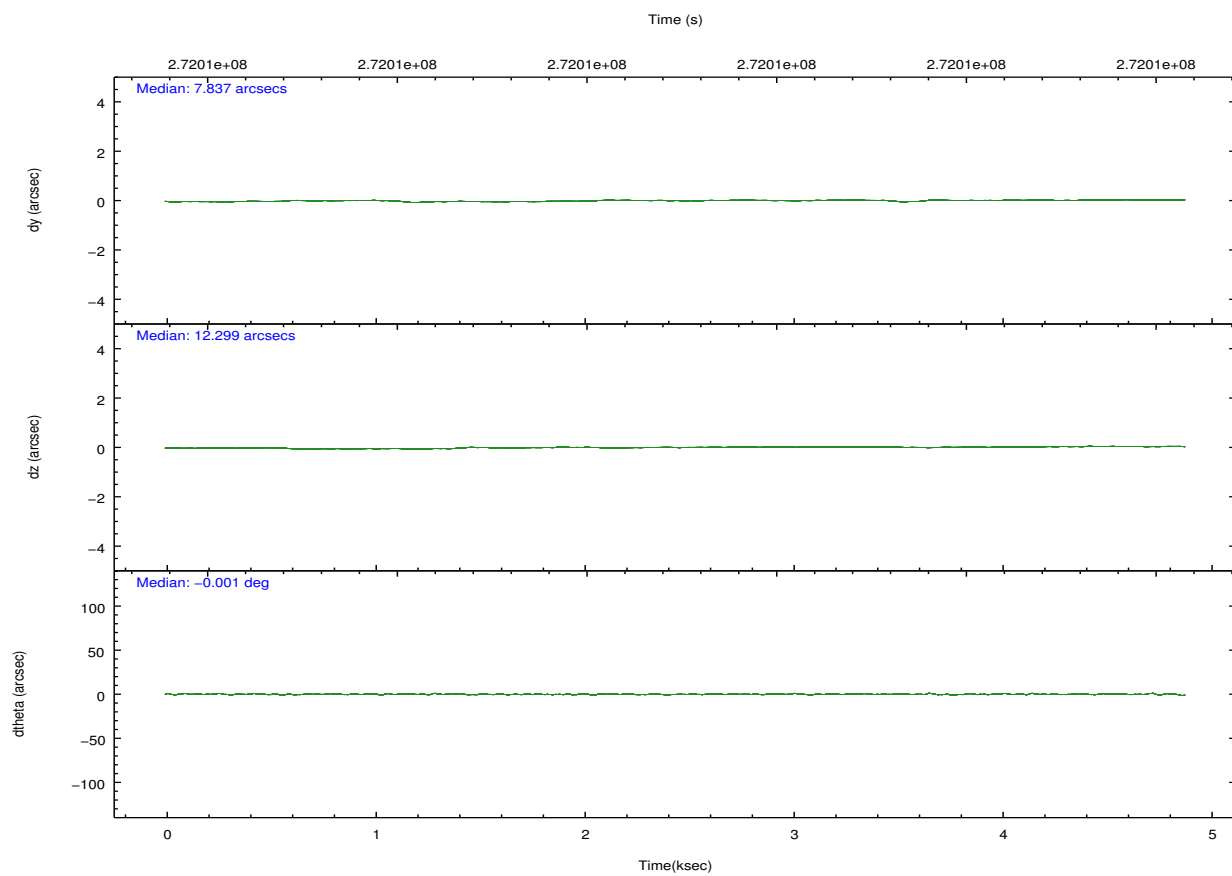
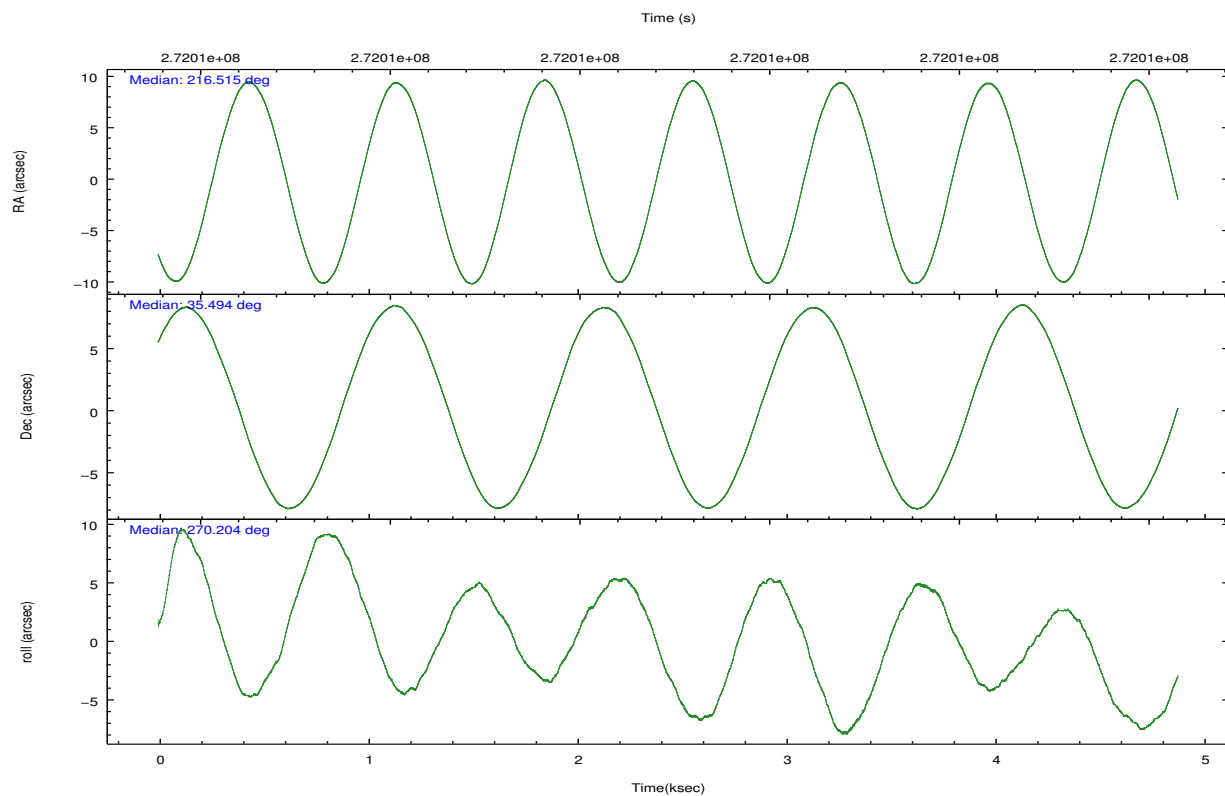


## 2.2 Compared Parameters

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	216.497652	216.5147211372942	Subarray requested	NONE	NONE
[deg] Pointing Dec	35.517623	35.49398876721693	Alternating exposures requested	N	N
[deg] Pointing Roll	270.011178	270.2099518979392	[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)	272008203.184000	272007827.38974			
Observation start date	2006-08-15T05:48:58	2006-08-15T05:43:47			
[s] Observation end time (MET)	272012903.184000	272013097.42749			
Observation end date	2006-08-15T07:07:18	2006-08-15T07:11:37			
Read mode	TIMED	TIMED			

## 2.3 Aspect



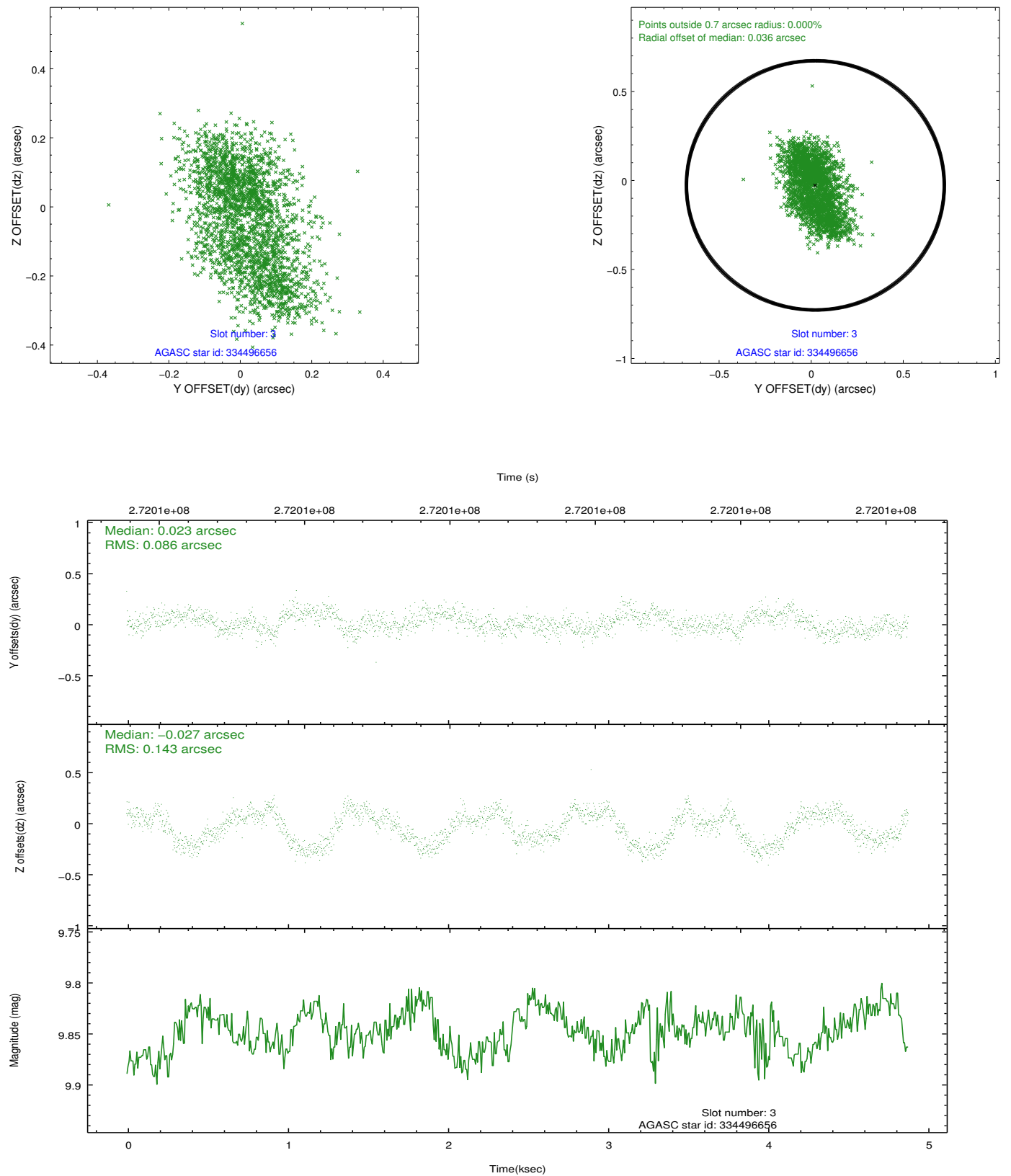


### Slot Statistics

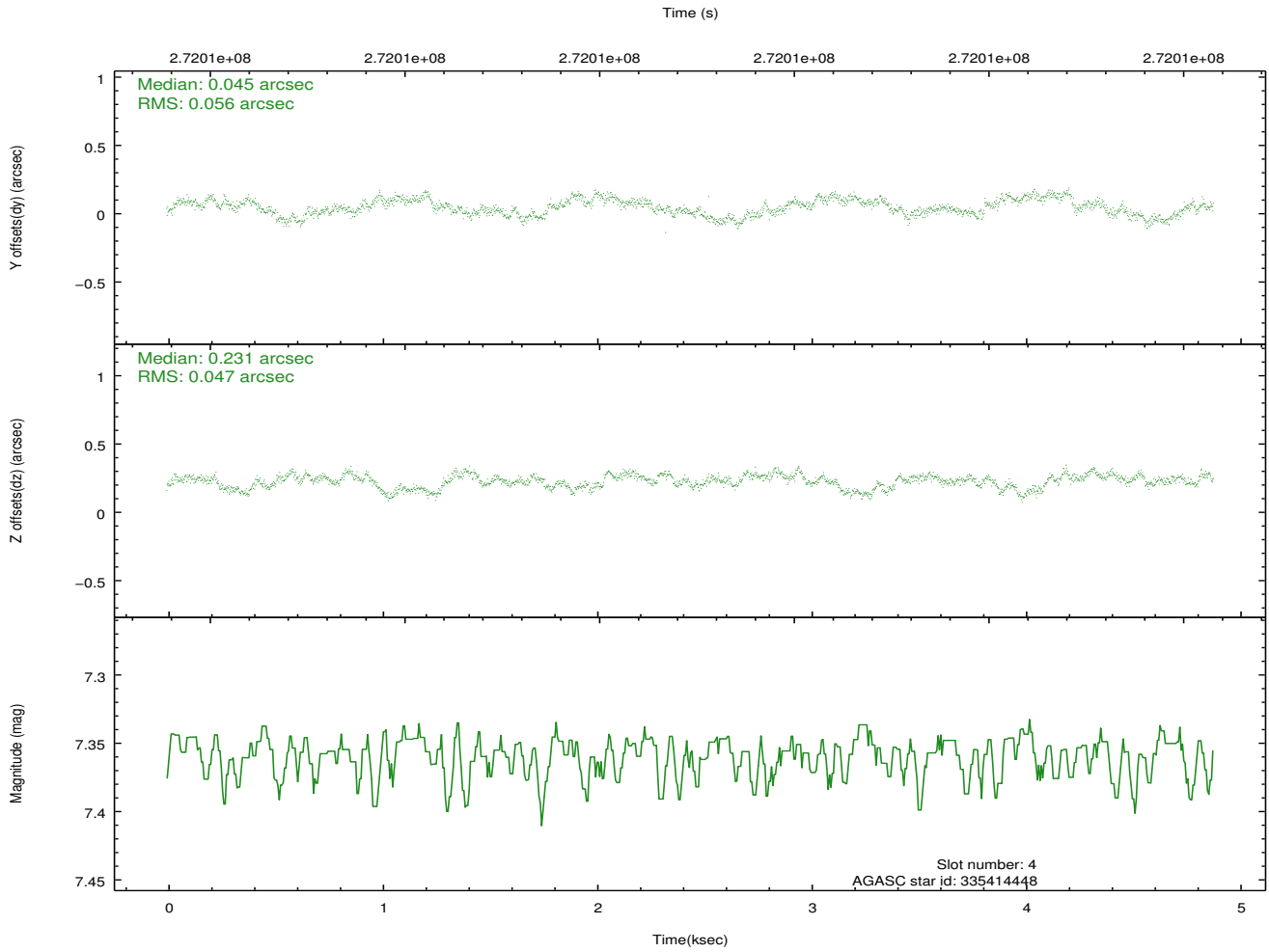
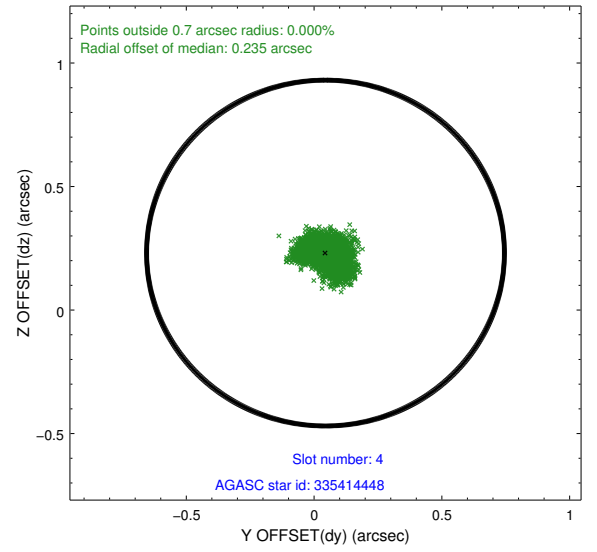
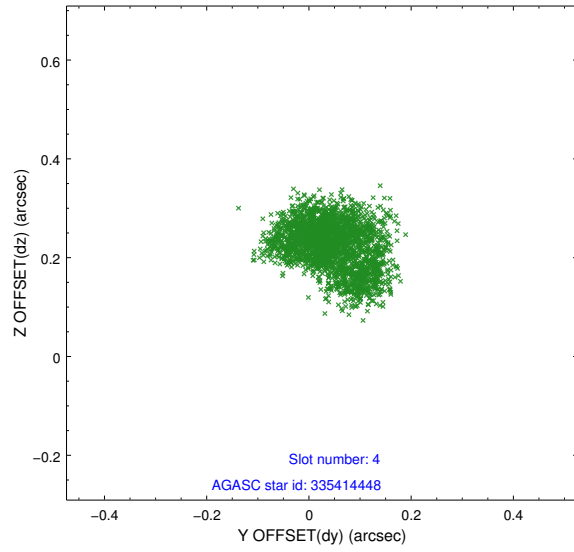
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1191	0.055	-0.038	0.006	0.012	0.000000	0.000000	931.87	-835.87
1	FID	ACIS-I-5	7.23	1189	-0.181	0.064	0.006	0.011	0.000000	0.000000	-1815.75	1061.12
2	FID	ACIS-I-6	7.24	1189	0.034	0.044	0.007	0.012	0.000000	0.000000	396.07	1707.00
3	GUIDE	334496656	9.85	2377	0.023	-0.027	0.180	0.283	215.929218	35.031287	1746.13	-1675.83
4	GUIDE	335414448	7.36	2379	0.045	0.231	0.082	0.123	216.992261	35.577204	-216.39	1448.24
5	GUIDE	335417648	10.43	2358	-0.076	-0.059	0.281	0.423	216.000046	36.018960	-1808.50	-1448.11
6	GUIDE	335419120	9.64	2378	-0.012	-0.132	0.144	0.211	216.521861	35.833546	-1137.85	70.08
7	GUIDE	335419408	9.42	2380	0.022	0.012	0.111	0.182	217.210194	35.075700	1583.40	2099.30

## 2.4 Star Slots

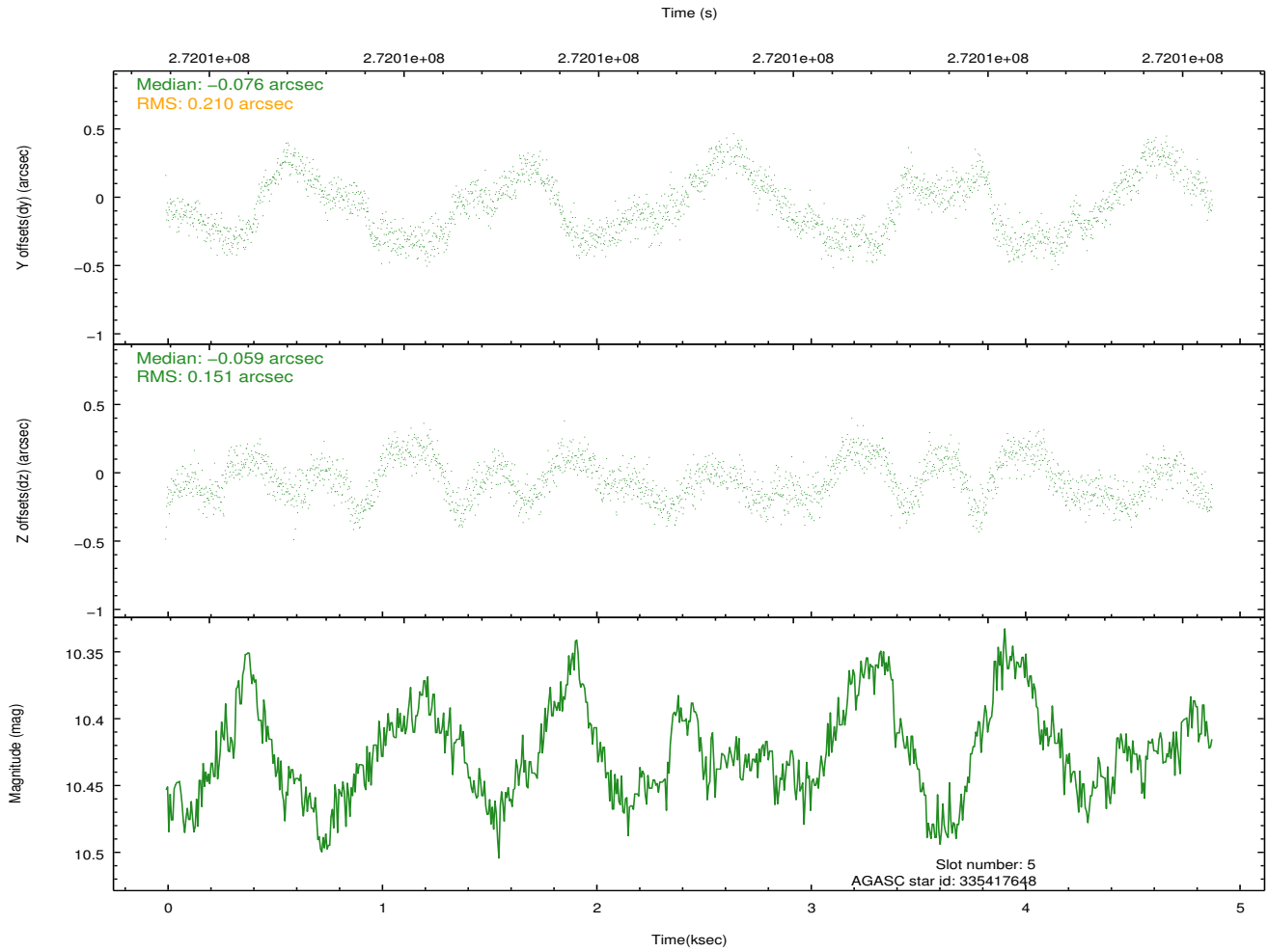
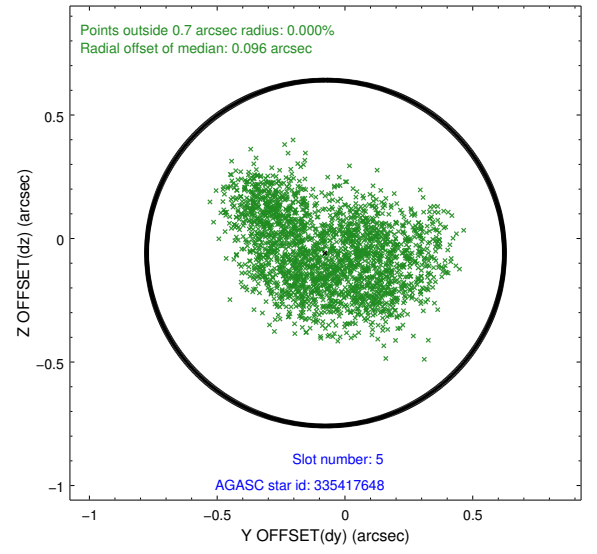
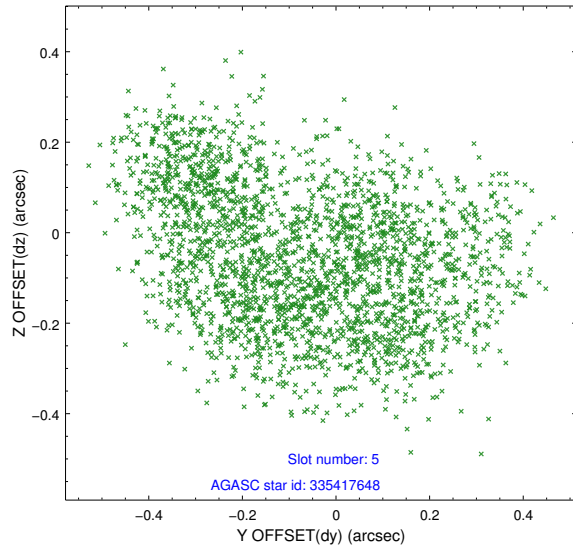
### 2.4.1 Slot 3



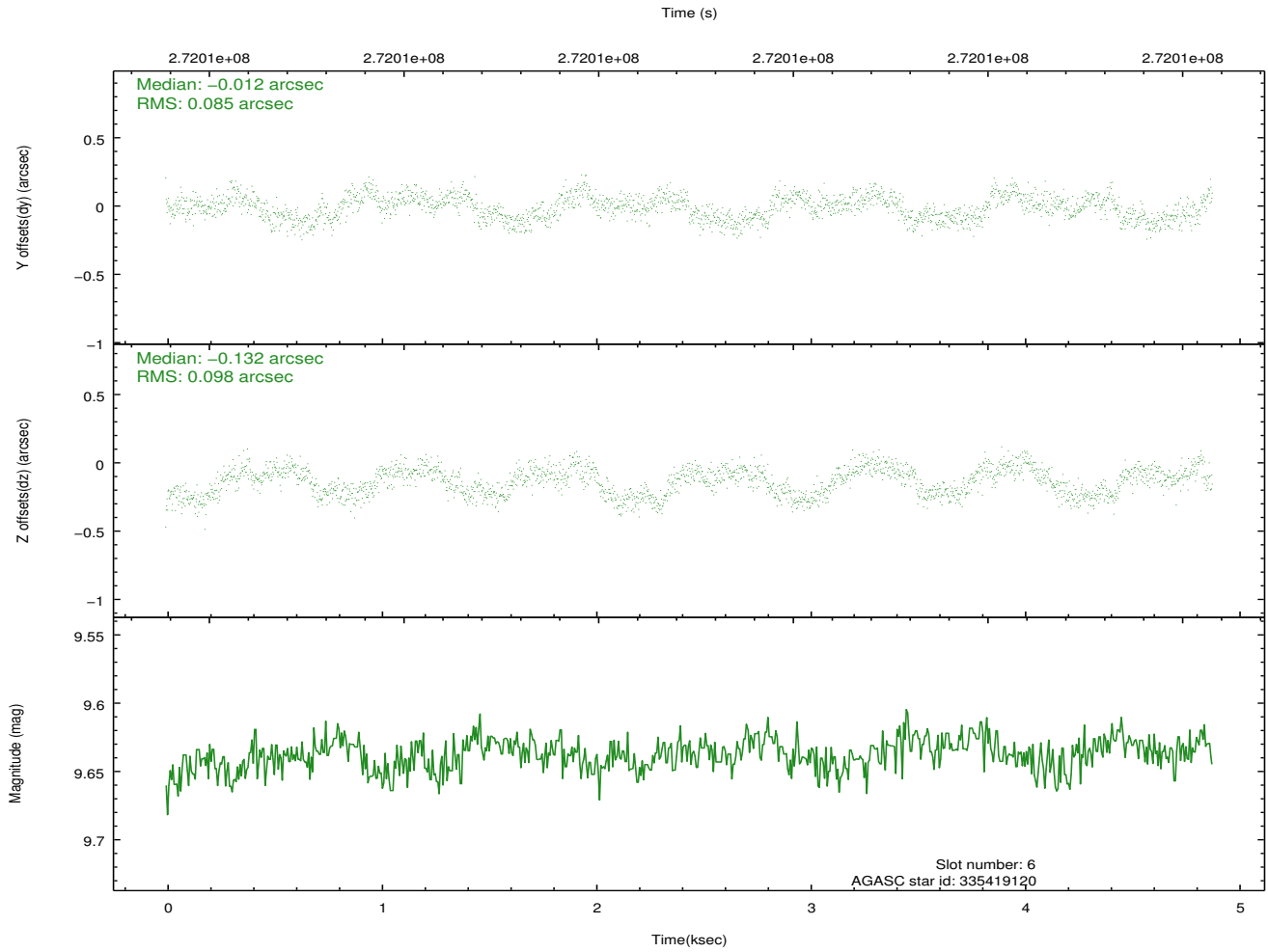
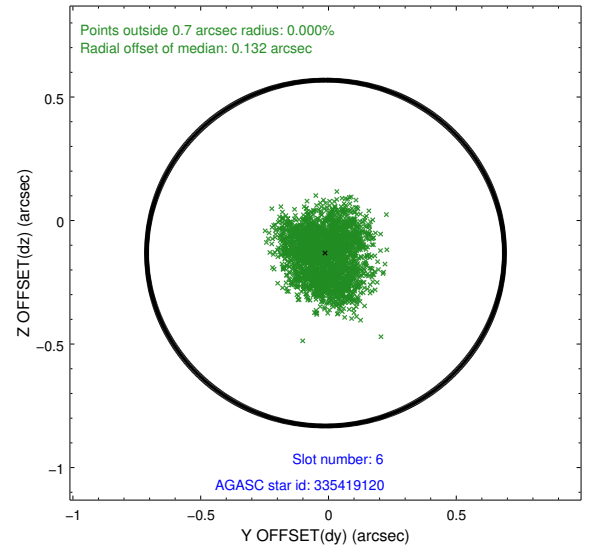
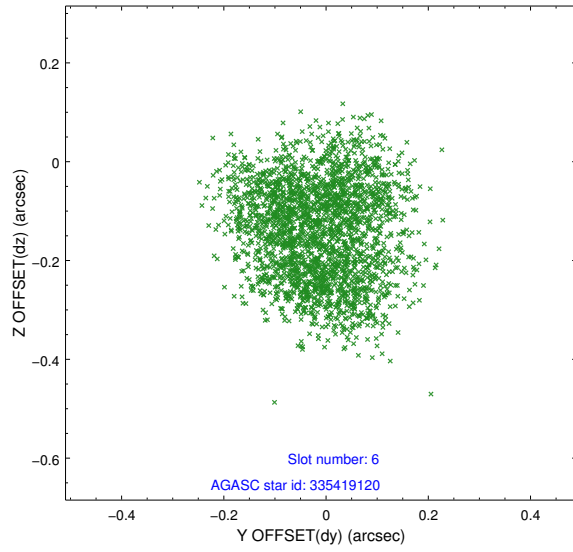
## 2.4.2 Slot 4



### 2.4.3 Slot 5

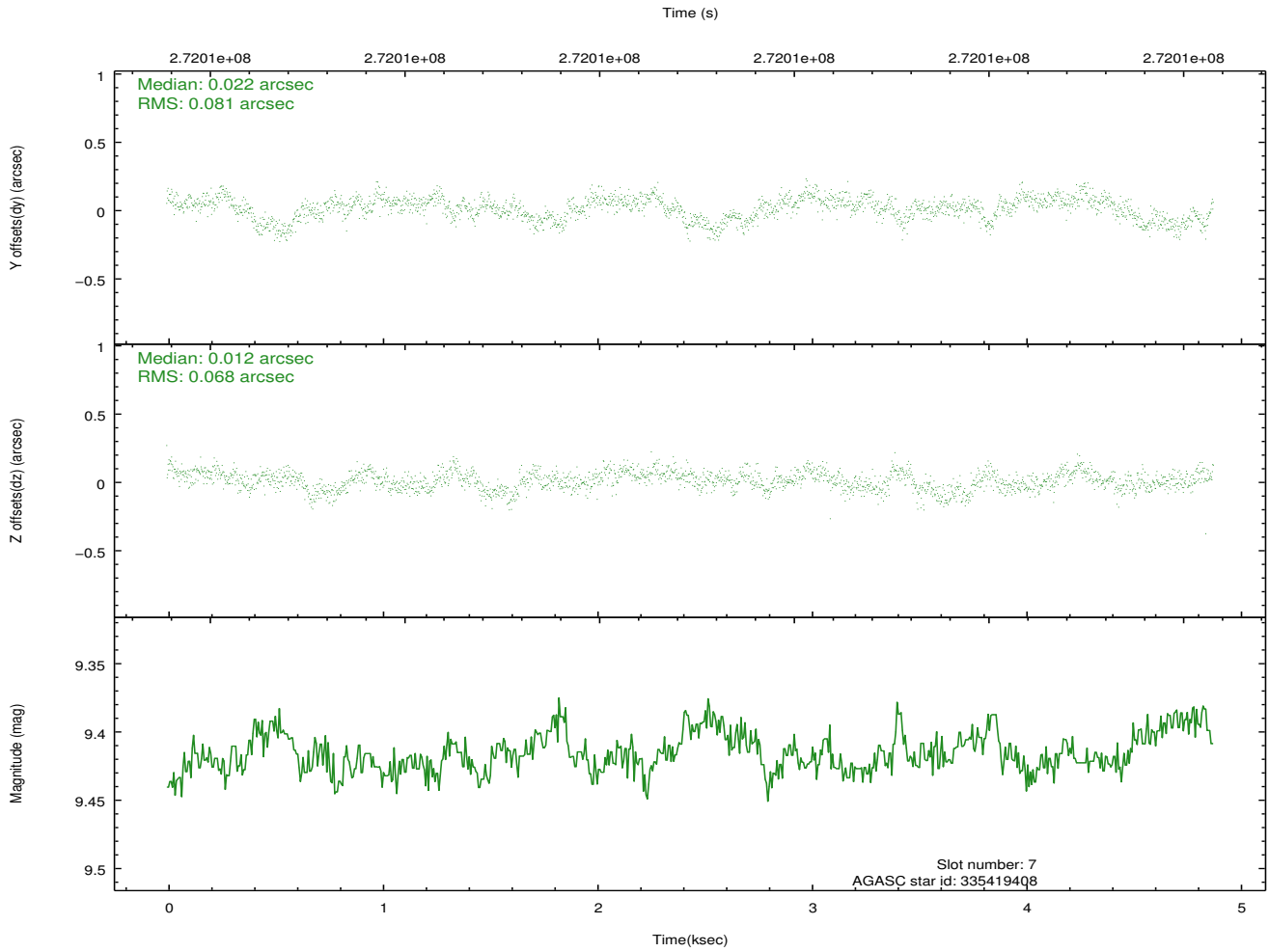
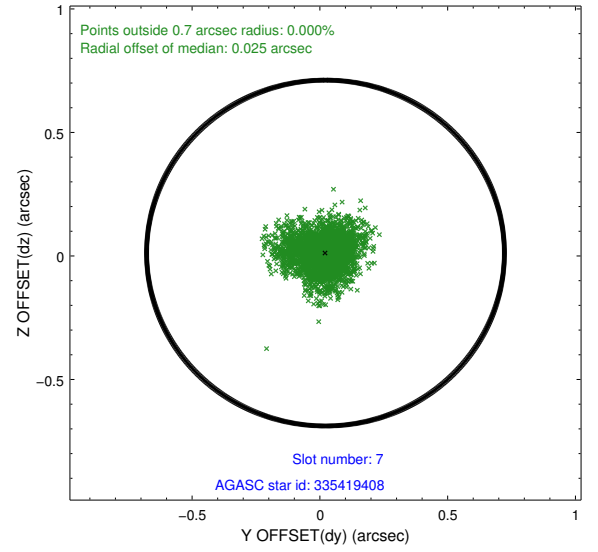
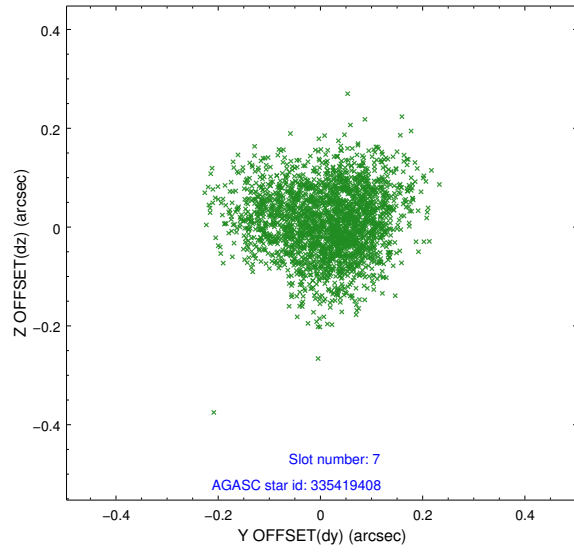


## 2.4.4 Slot 6



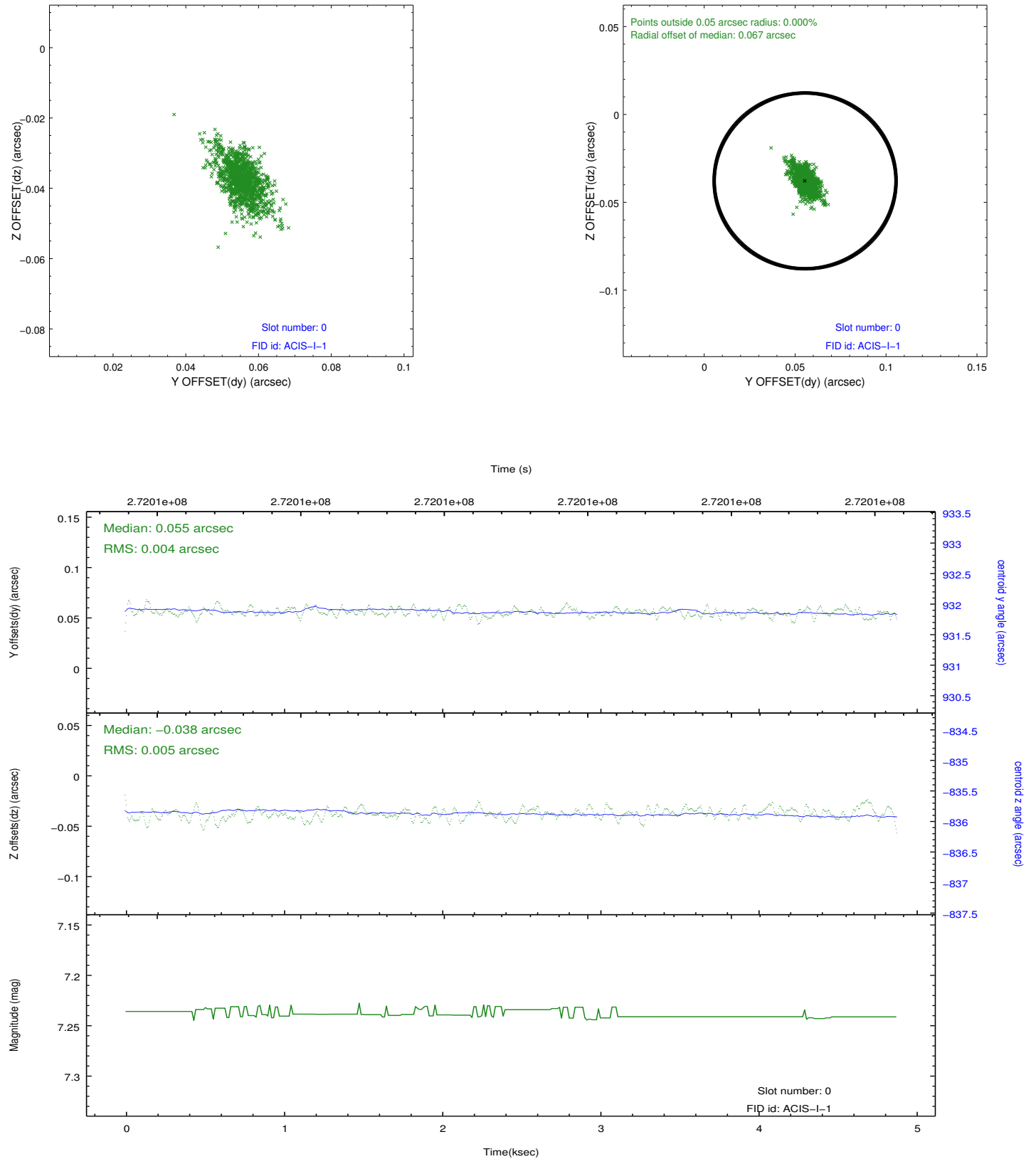


## 2.4.5 Slot 7

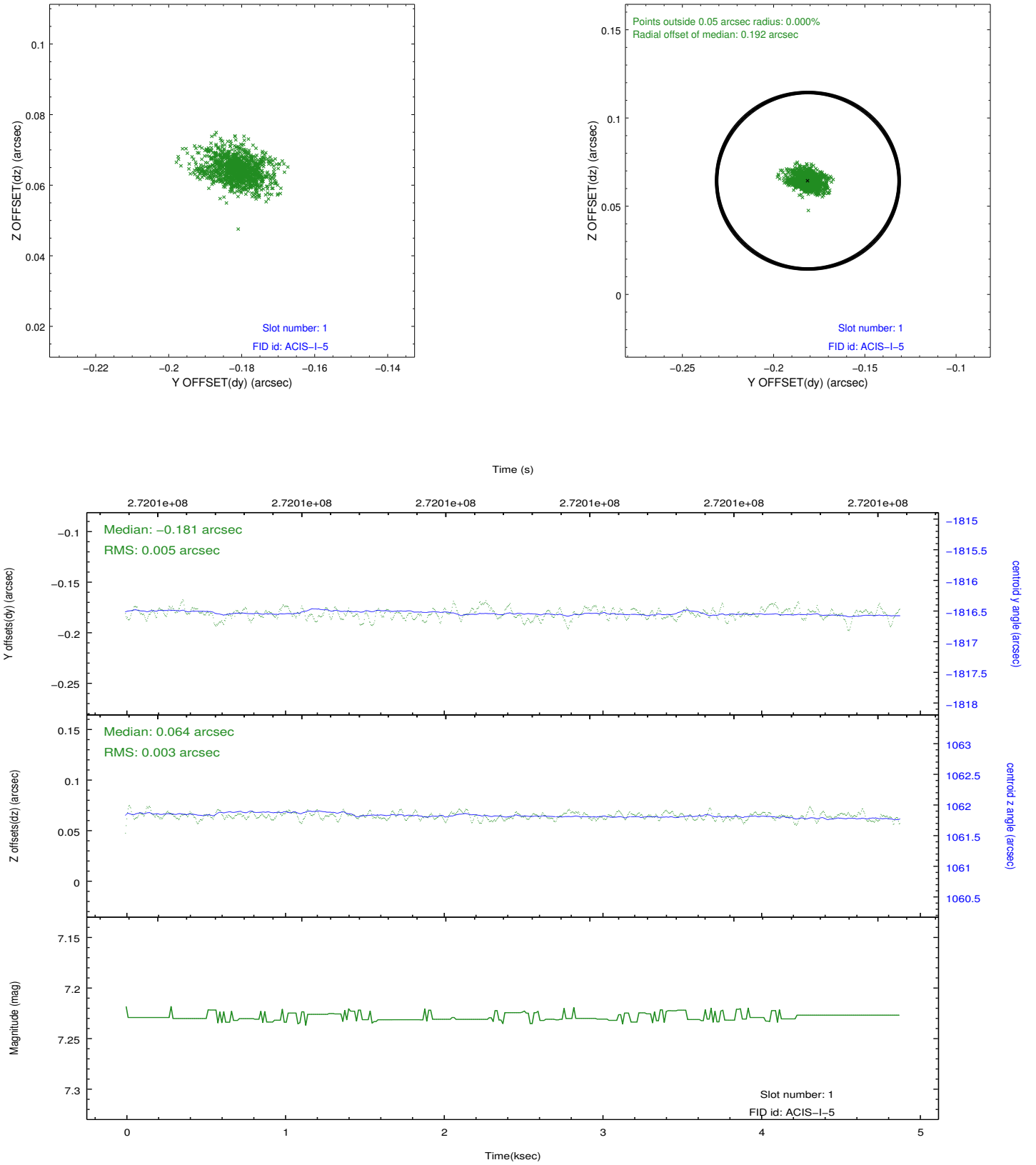


## 2.5 FID Slots

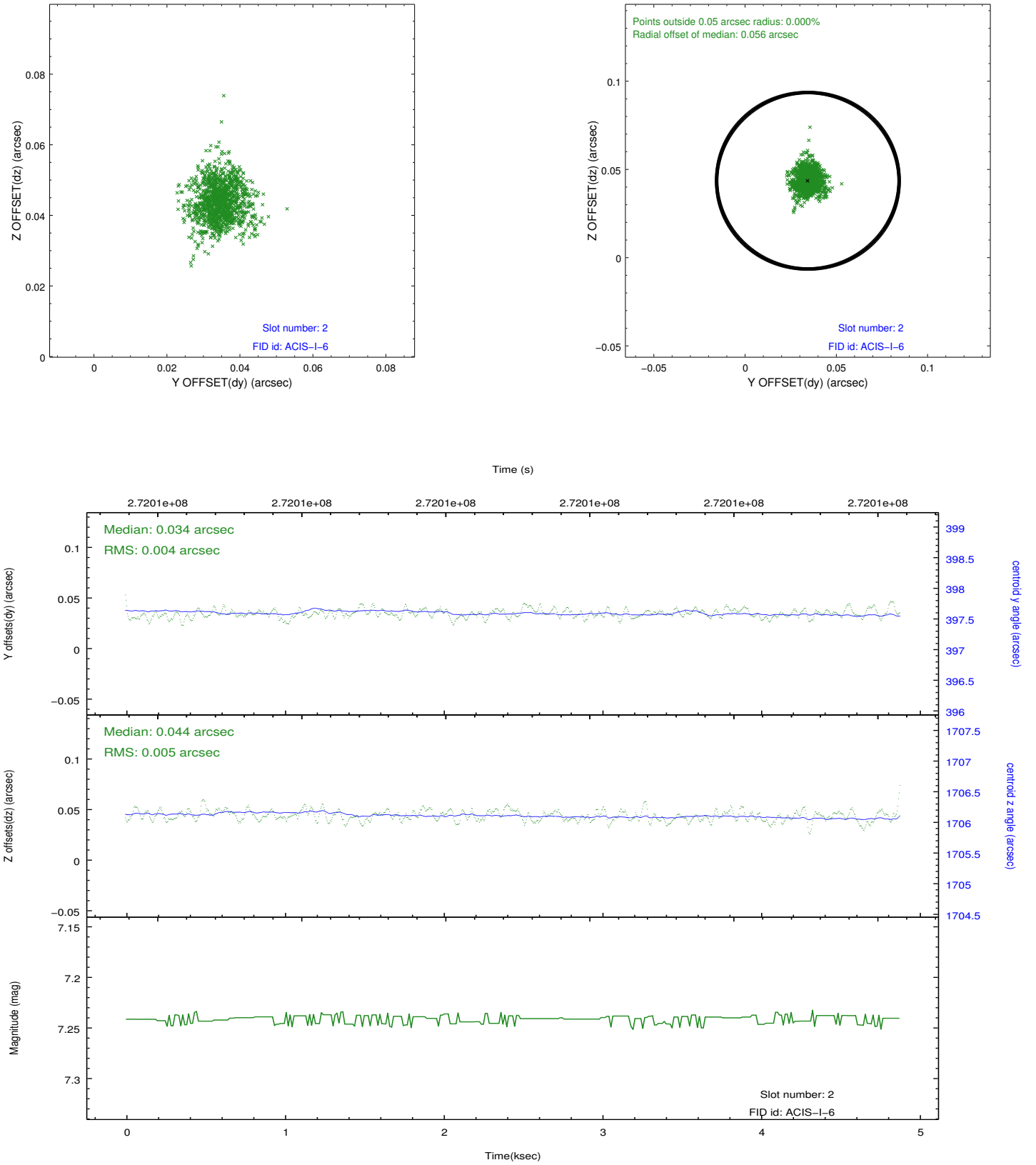
### 2.5.1 Slot 0



## 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)	2012.04.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.47325907

### A.2 Comments