

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3656 - L2 Version 3  
Chandra X-Ray Center

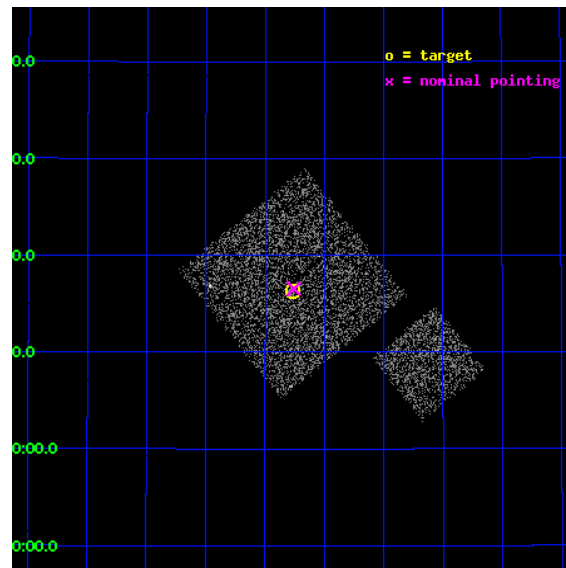
L2 Processing Date : Oct 25 2012

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# 1 Front

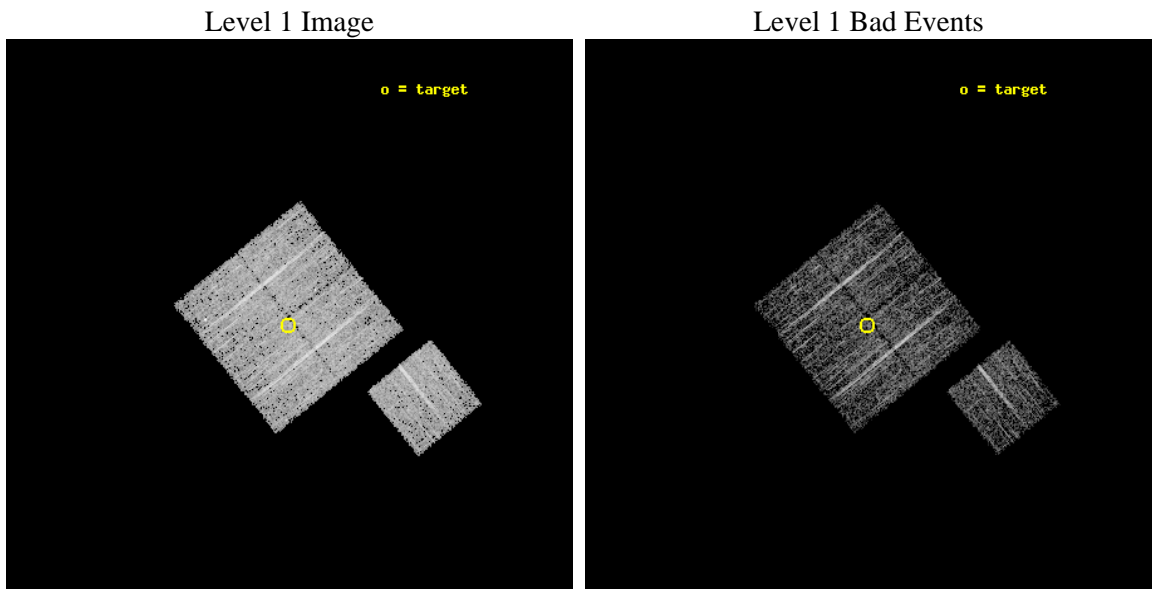
seq_num	900256	Sequence number
obs_id	3656	Observation id
title	CHANDRA LARGE SCALE SURVEY OF THE NOAO BOOTES DEEP FIELD	Proposal
observer	Dr. Stephen Murray	Principal investigator
object	NOAO FIELD F22	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.816997	Observer's specified target RA [deg]
dec_targ	34.271694	Observer's specified target Dec [deg]
ra_nom	217.81429051836	Nominal RA [deg]
dec_nom	34.275746038102	Nominal Dec [deg]
roll_nom	141.01021858025	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4674.5424746275	Sum of GTIs [s]
livetime	4613.4661358484	Livetime [s]
ontime0	4674.4193546176	Sum of GTIs [s]
ontime1	4674.4603946209	Sum of GTIs [s]
ontime2	4674.5014346242	Sum of GTIs [s]
ontime3	4674.5424746275	Sum of GTIs [s]
ontime6	4674.3783146143	Sum of GTIs [s]
l2events	9554	Number of level 2 events



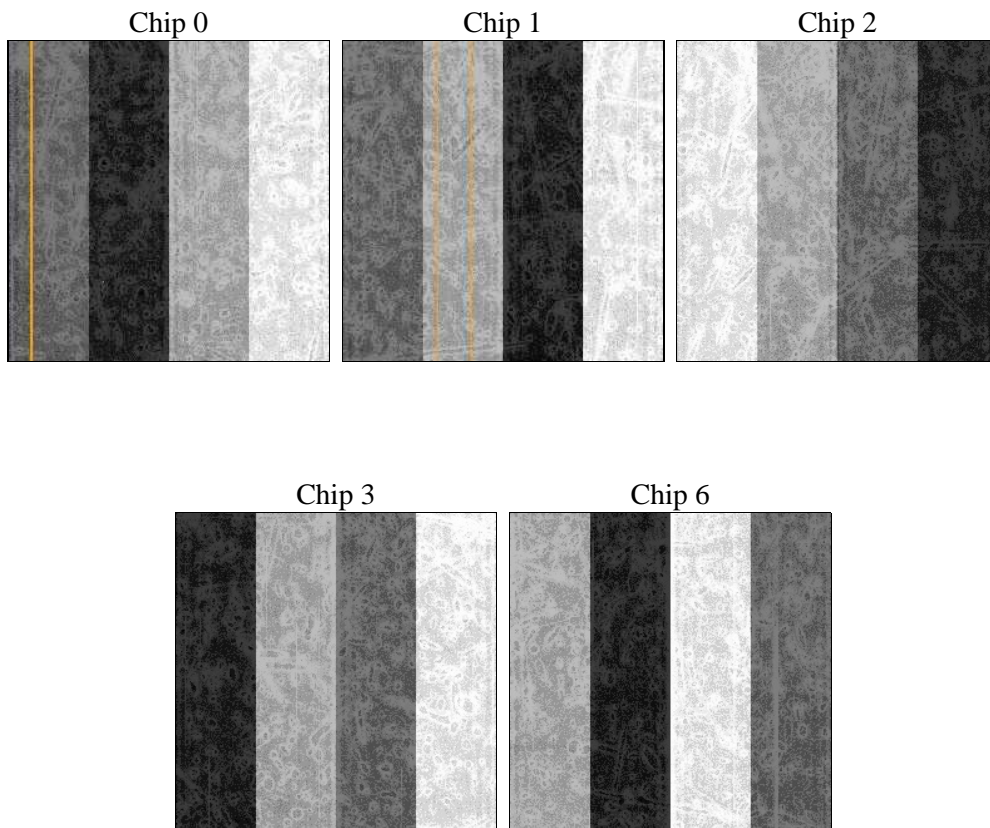
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	4900.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4674.5424746275	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	4674.4193546176	Sum of GTIs [s]
date	2012-10-25T15:29:00	Date and time of file creation	ontime1	4674.4603946209	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4674.5014346242	Sum of GTIs [s]
			ontime3	4674.5424746275	Sum of GTIs [s]
			ontime6	4674.3783146143	Sum of GTIs [s]
			l1events	114545	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	22451	22621	23626	23944	21903
rejected events	20134	20026	21427	21730	19622
rejected %	89%	88%	90%	90%	89%

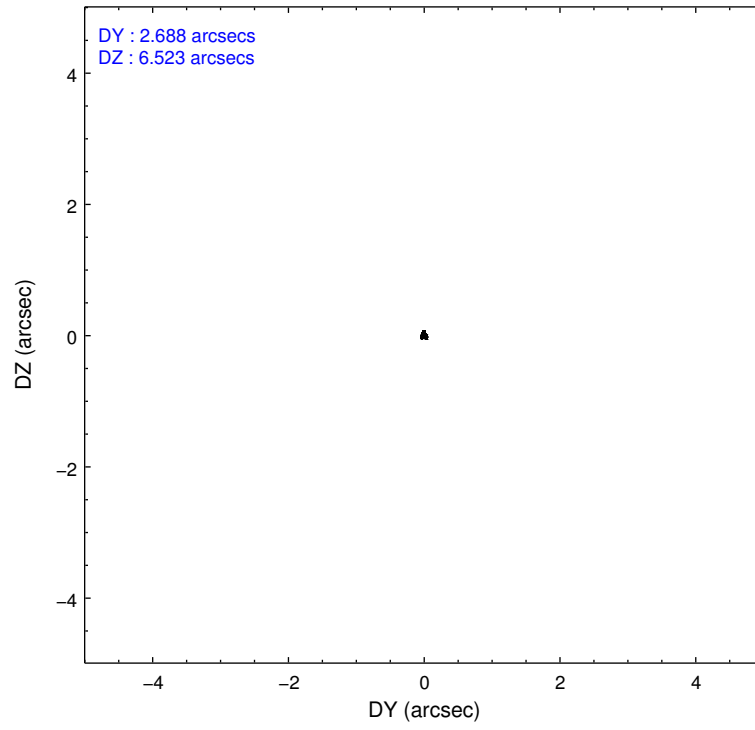
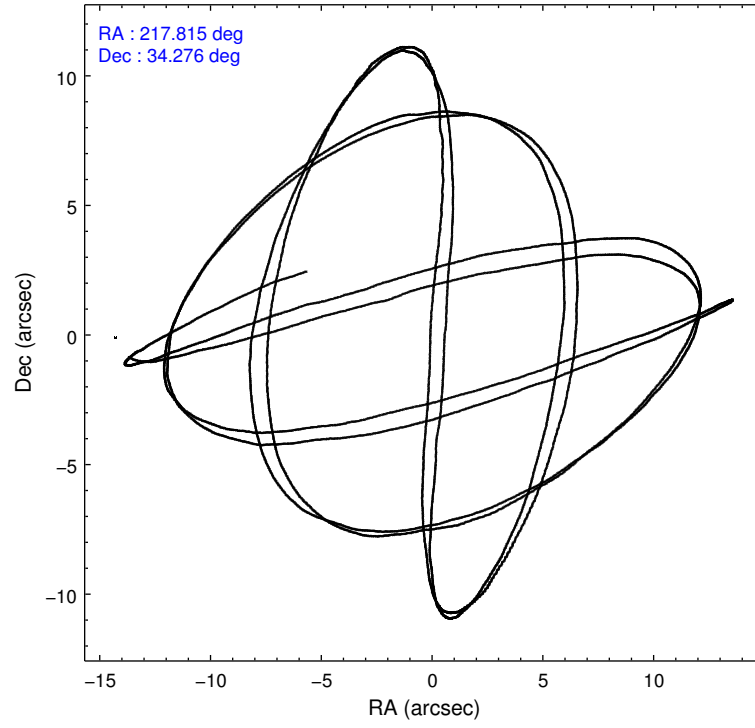
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	895	1013	788	883	849
	3%	4%	3%	3%	3%
grade 1 events	14	13	8	17	10
	0%	0%	0%	0%	0%
grade 2 events	550	535	561	448	460
	2%	2%	2%	1%	2%
grade 3 events	247	310	259	247	280
	1%	1%	1%	1%	1%
grade 4 events	238	301	248	239	266
	1%	1%	1%	0%	1%
grade 5 events	638	739	673	730	708
	2%	3%	2%	3%	3%
grade 6 events	388	447	345	399	427
	1%	1%	1%	1%	1%
grade 7 events	19481	19263	20744	20981	18903
	86%	85%	87%	87%	86%

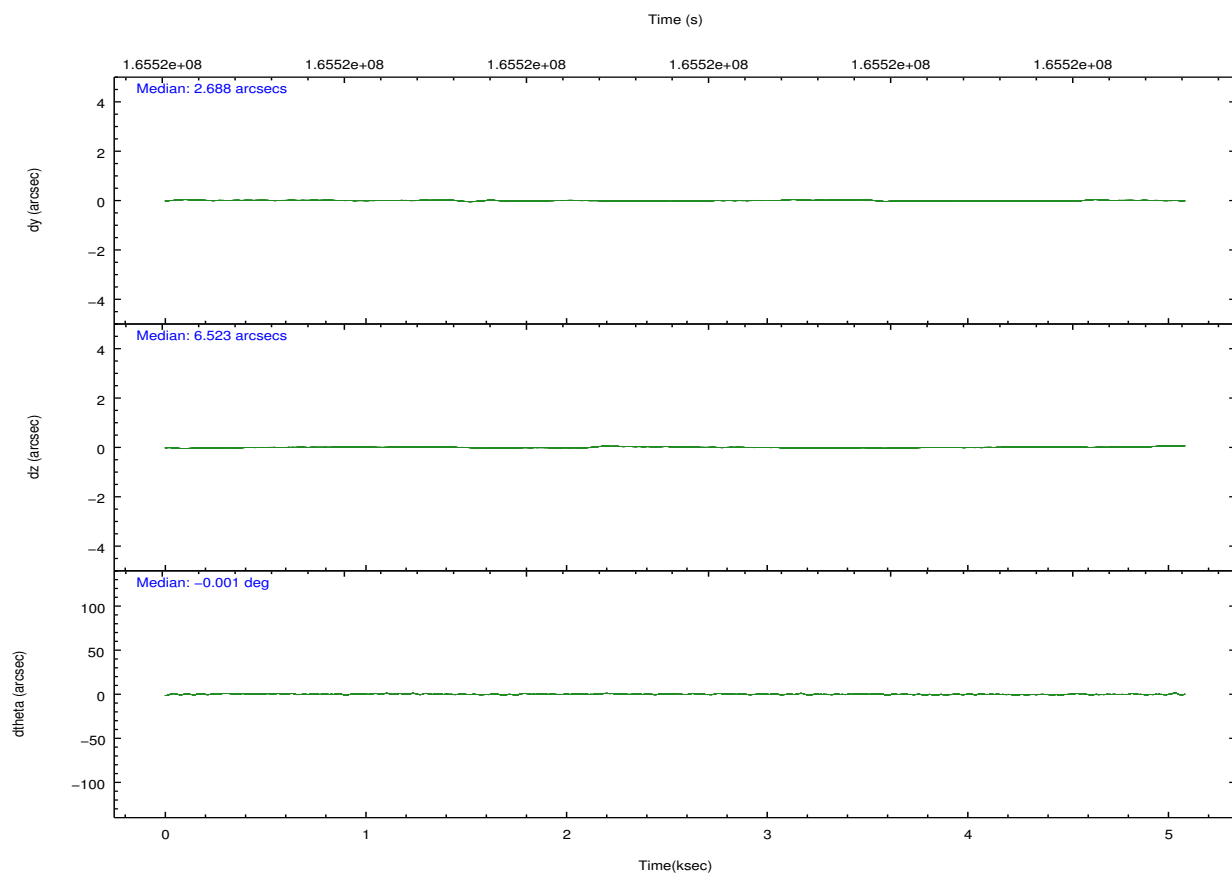
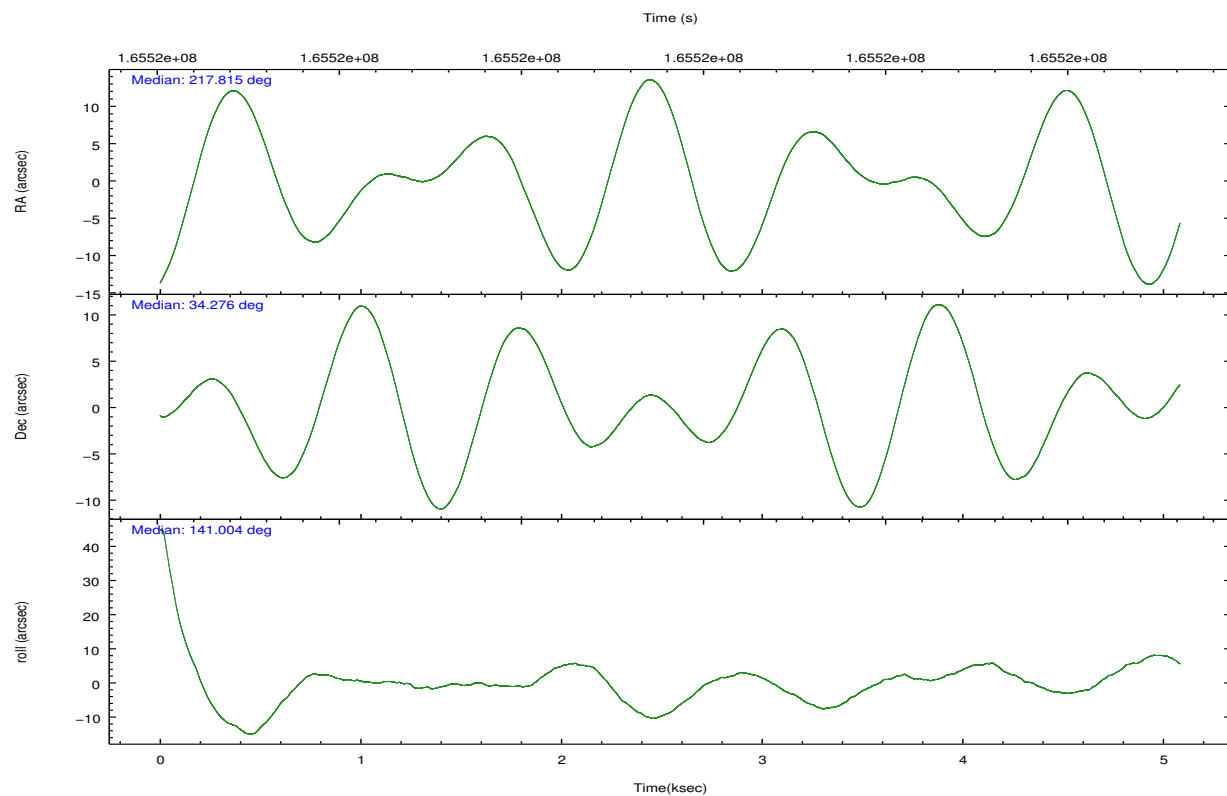


## 2.2 Compared Parameters

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	217.847108	217.8142905183629	Subarray requested	NONE	NONE
[deg] Pointing Dec	34.271615	34.27574603810195	Alternating exposures requested	N	N
[deg] Pointing Roll	140.783045	141.0102185802534	[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)	165520454.184000	165520078.0554			
Observation start date	2003-03-31T17:53:10	2003-03-31T17:47:58			
[s] Observation end time (MET)	165525354.184000	165525488.00563			
Observation end date	2003-03-31T19:14:50	2003-03-31T19:18:08			
Read mode	TIMED	TIMED			

## 2.3 Aspect



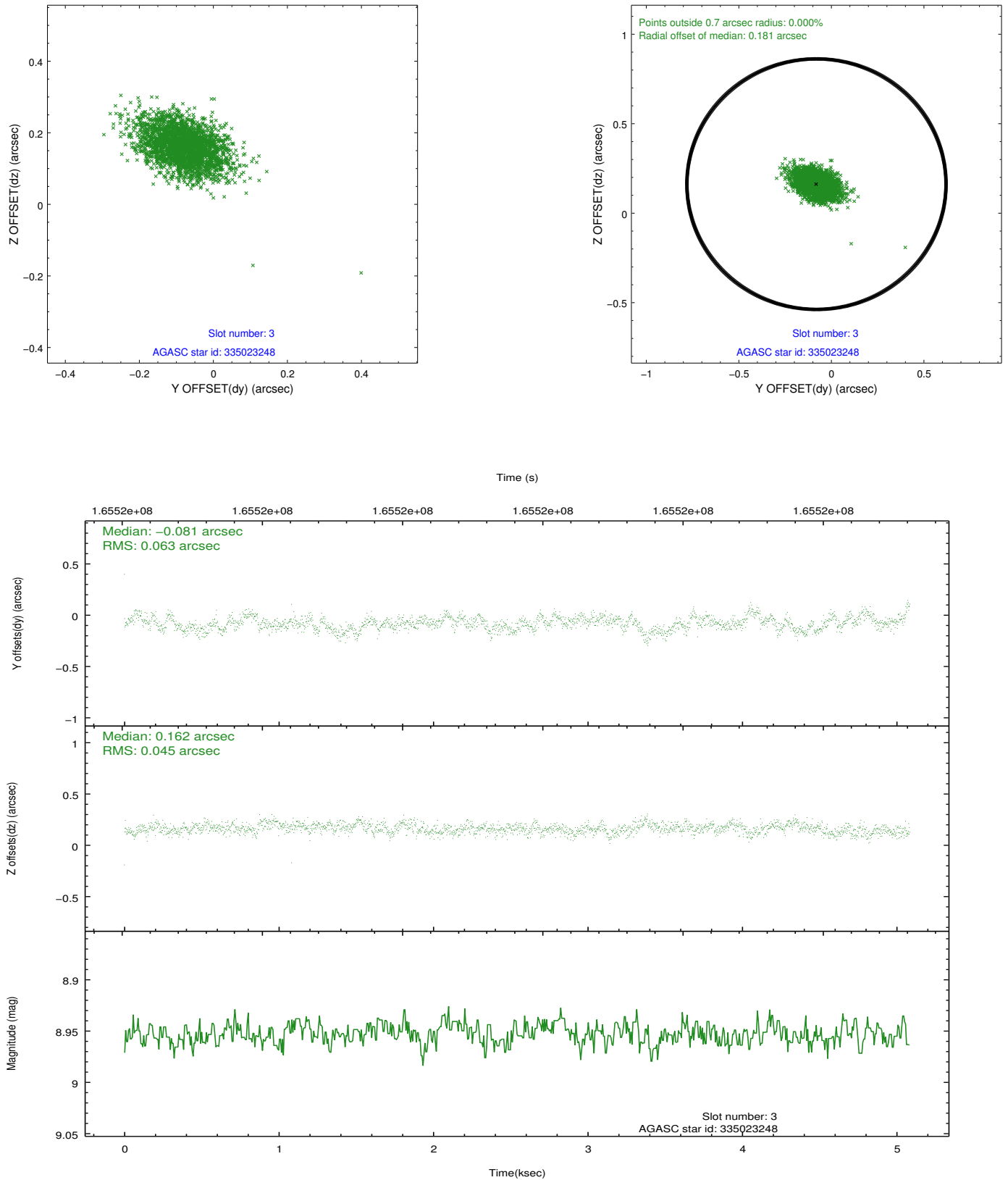


### Slot Statistics

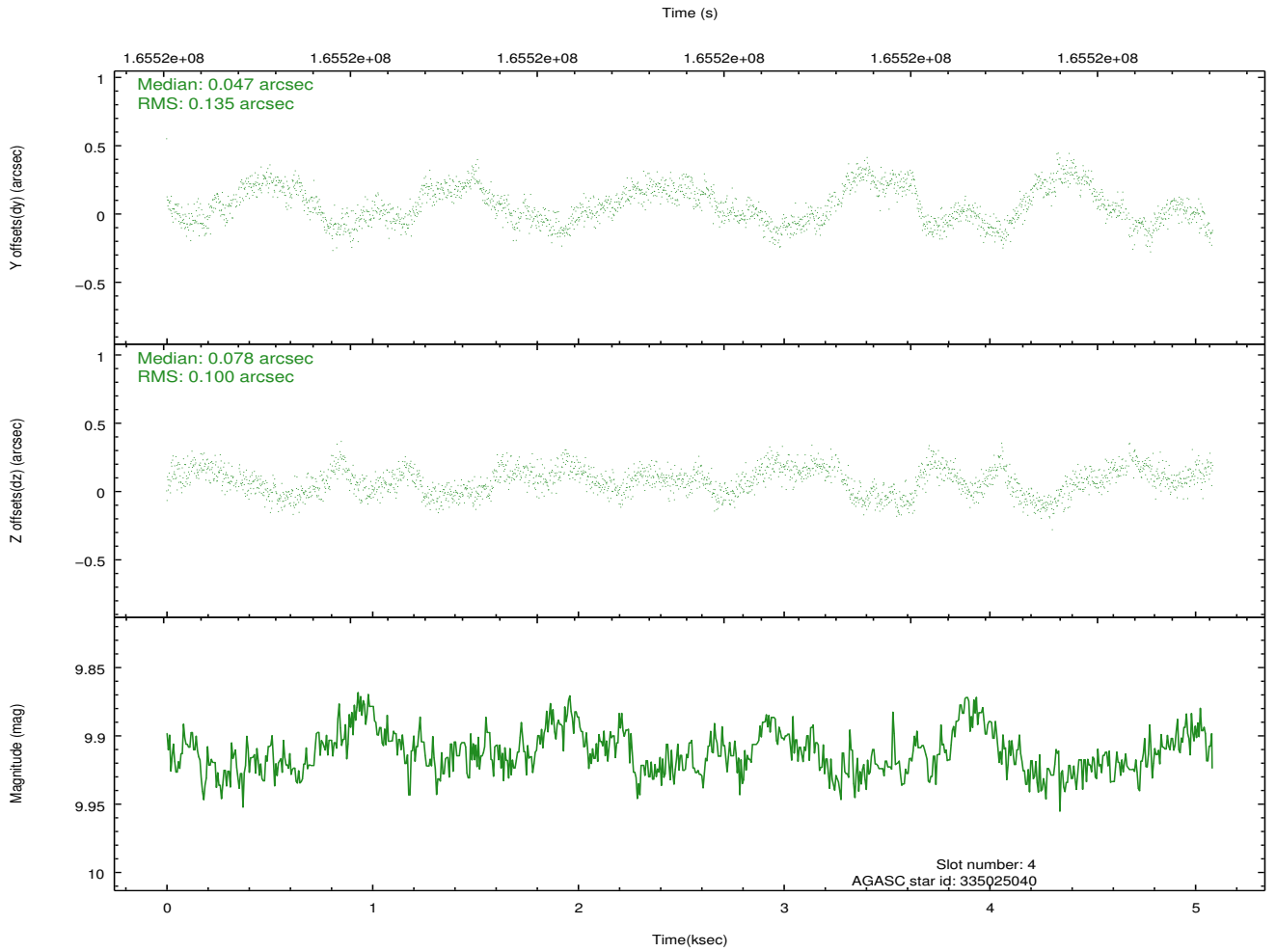
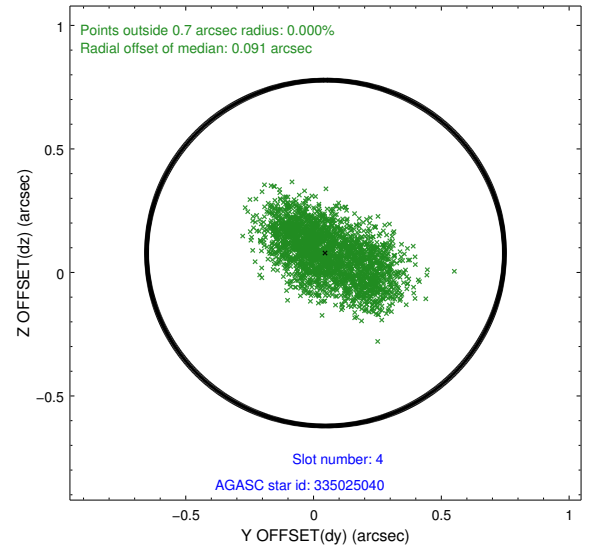
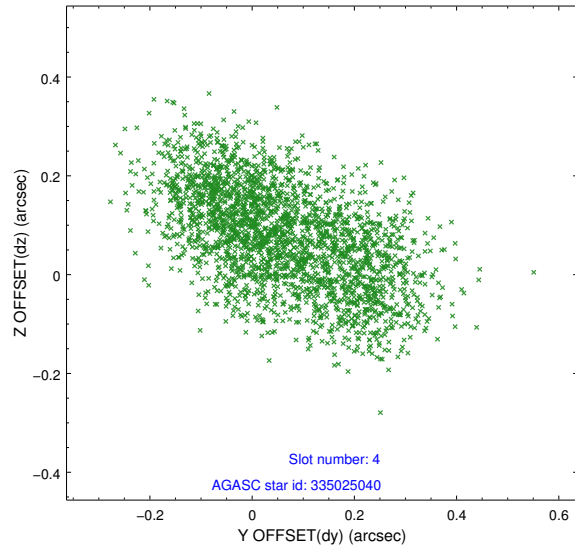
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1240	0.011	-0.007	0.006	0.012	0.000000	0.000000	937.11	-829.93
1	FID	ACIS-I-5	7.24	1241	-0.081	0.051	0.006	0.011	0.000000	0.000000	-1810.39	1067.07
2	FID	ACIS-I-6	7.26	1240	-0.022	0.027	0.007	0.011	0.000000	0.000000	401.37	1712.87
3	GUIDE	335023248	8.95	2481	-0.081	0.162	0.081	0.136	217.634832	34.944512	2017.68	-1481.02
4	GUIDE	335025040	9.91	2452	0.047	0.078	0.182	0.288	218.601670	34.305240	-1655.45	-1519.86
5	GUIDE	335025848	9.72	2478	0.041	-0.211	0.116	0.193	217.530531	33.778292	-388.65	1972.78
6	GUIDE	335028696	9.22	2480	0.037	0.021	0.104	0.169	217.260519	33.844112	388.85	2298.13
7	GUIDE	335028336	9.50	2480	-0.053	-0.047	0.089	0.142	217.189840	34.665629	2408.91	127.65

## 2.4 Star Slots

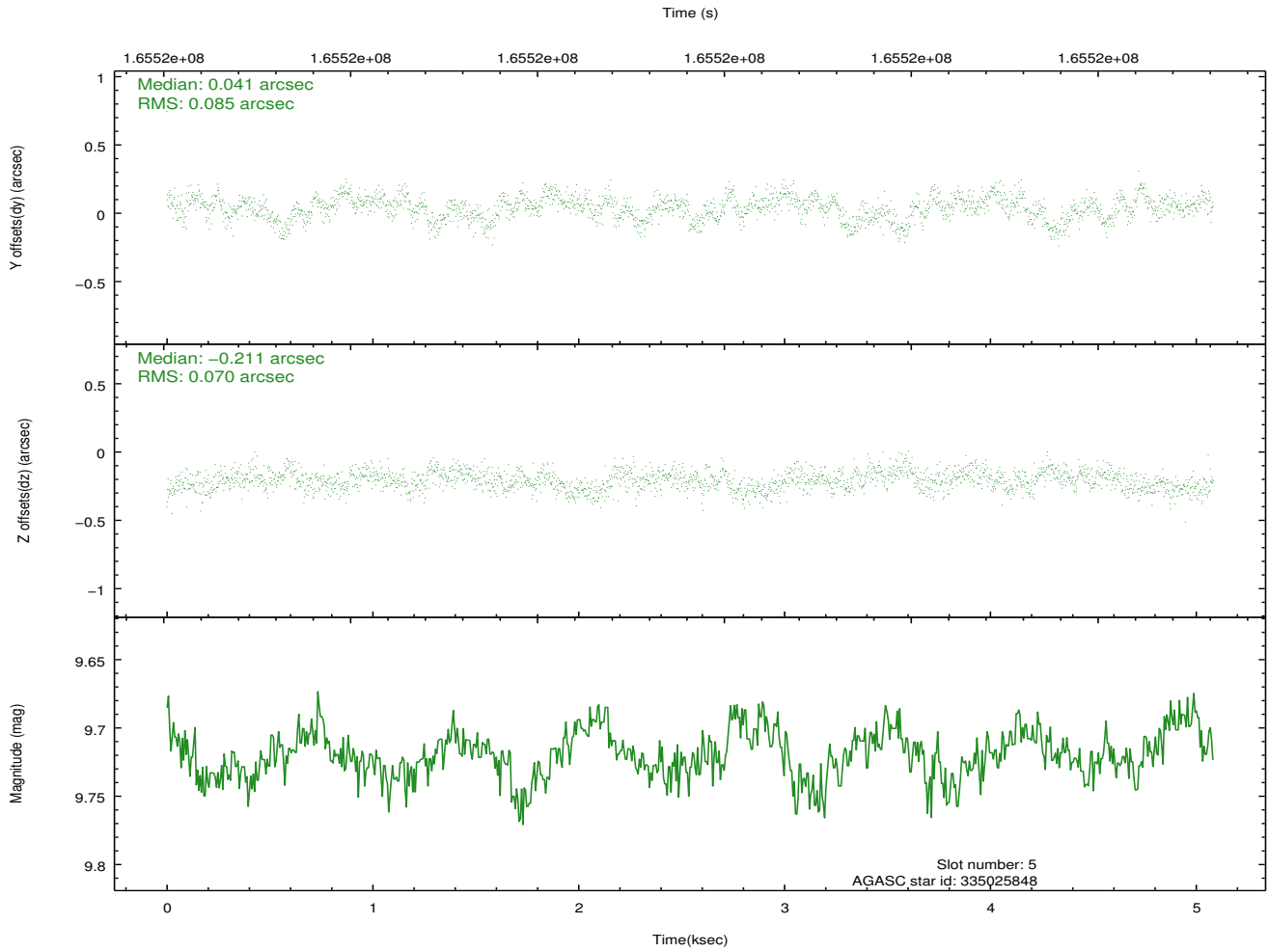
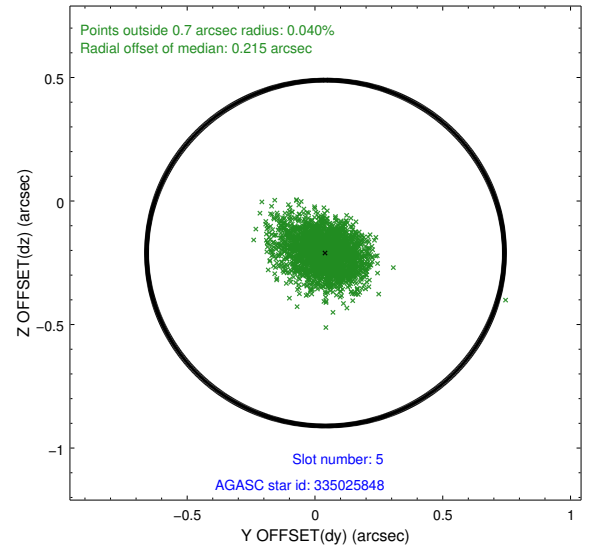
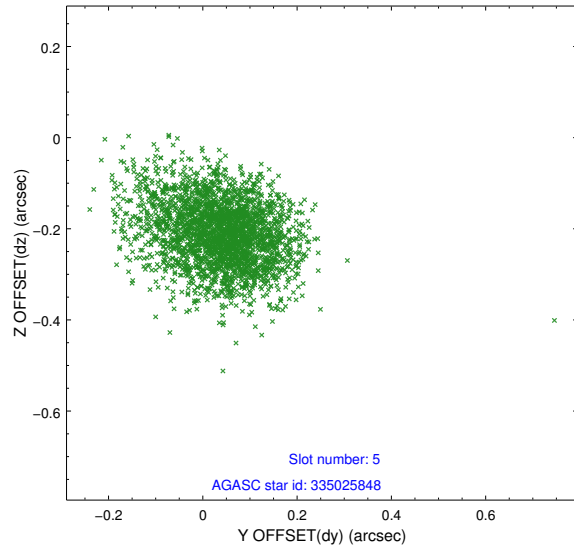
### 2.4.1 Slot 3



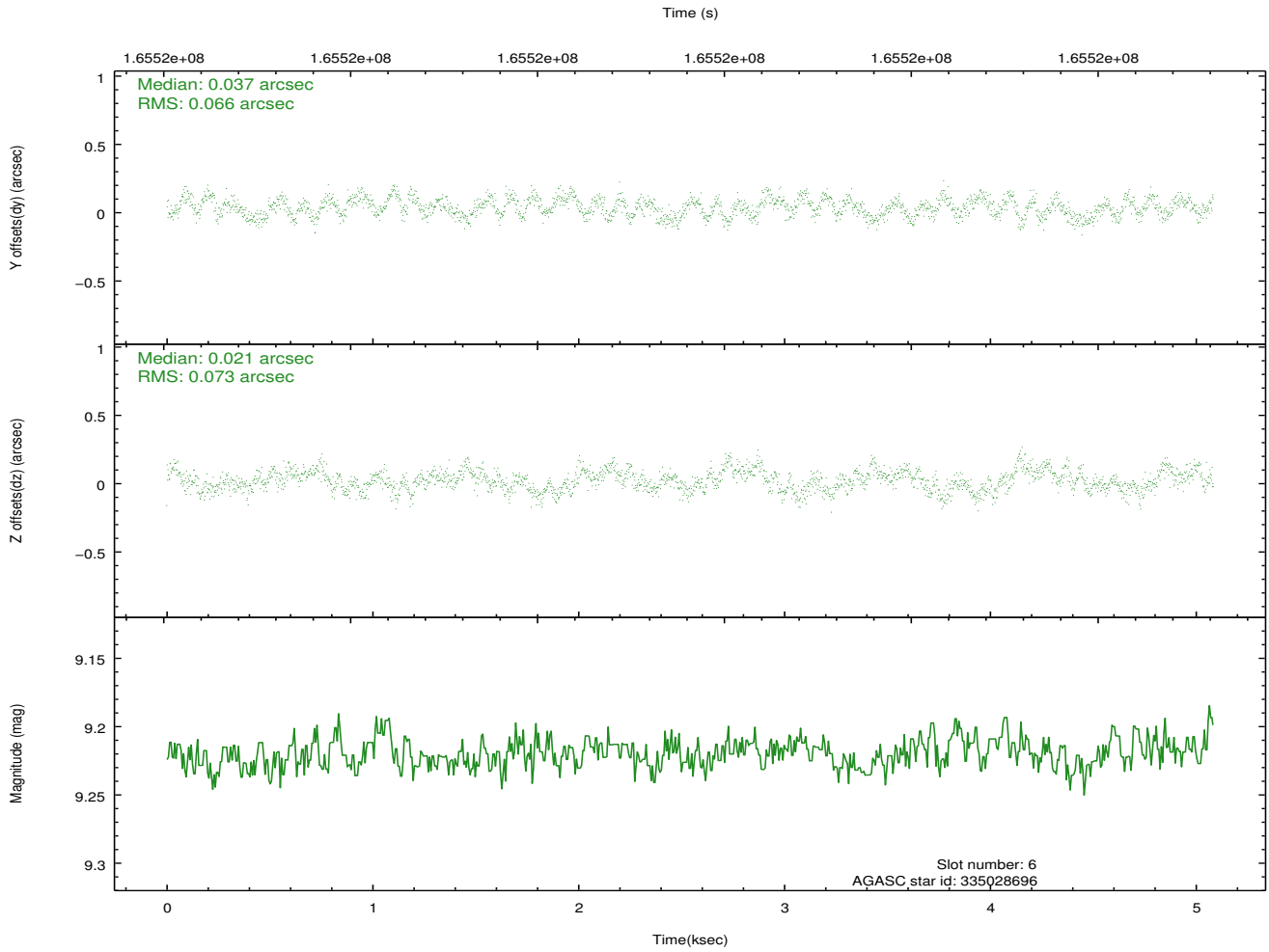
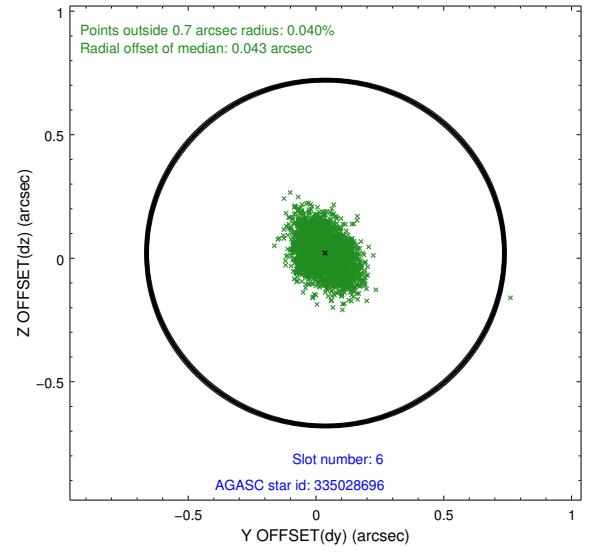
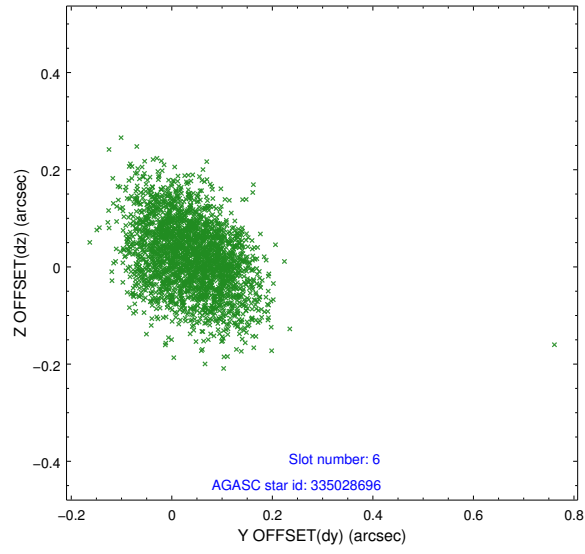
## 2.4.2 Slot 4



### 2.4.3 Slot 5

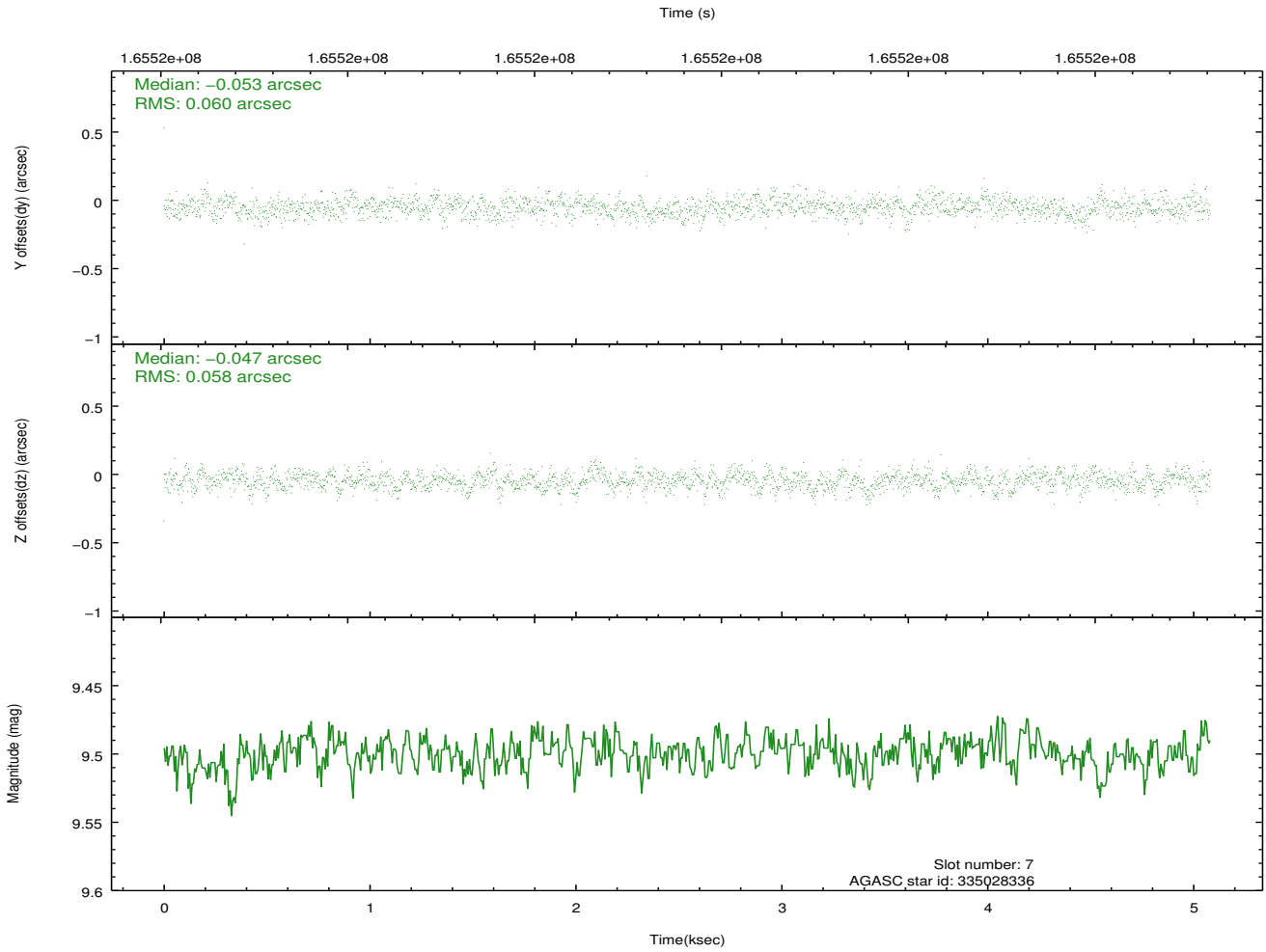
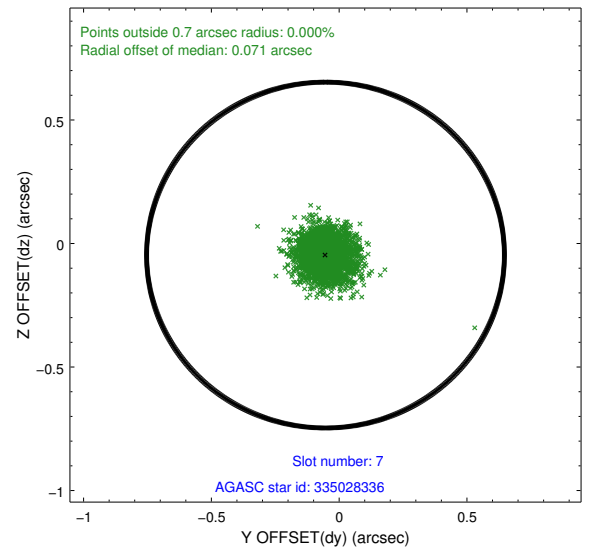
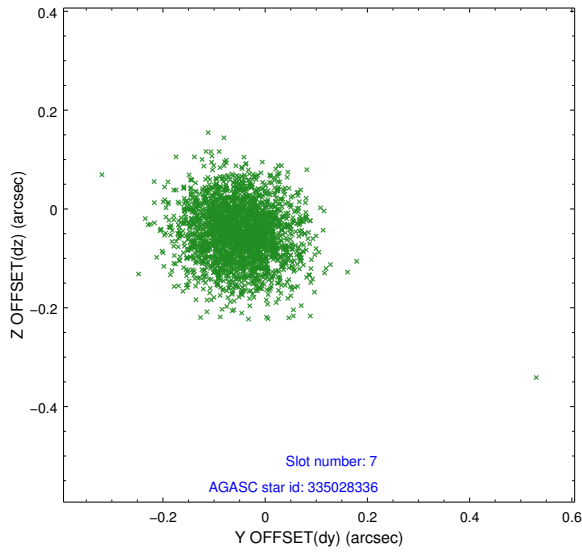


## 2.4.4 Slot 6



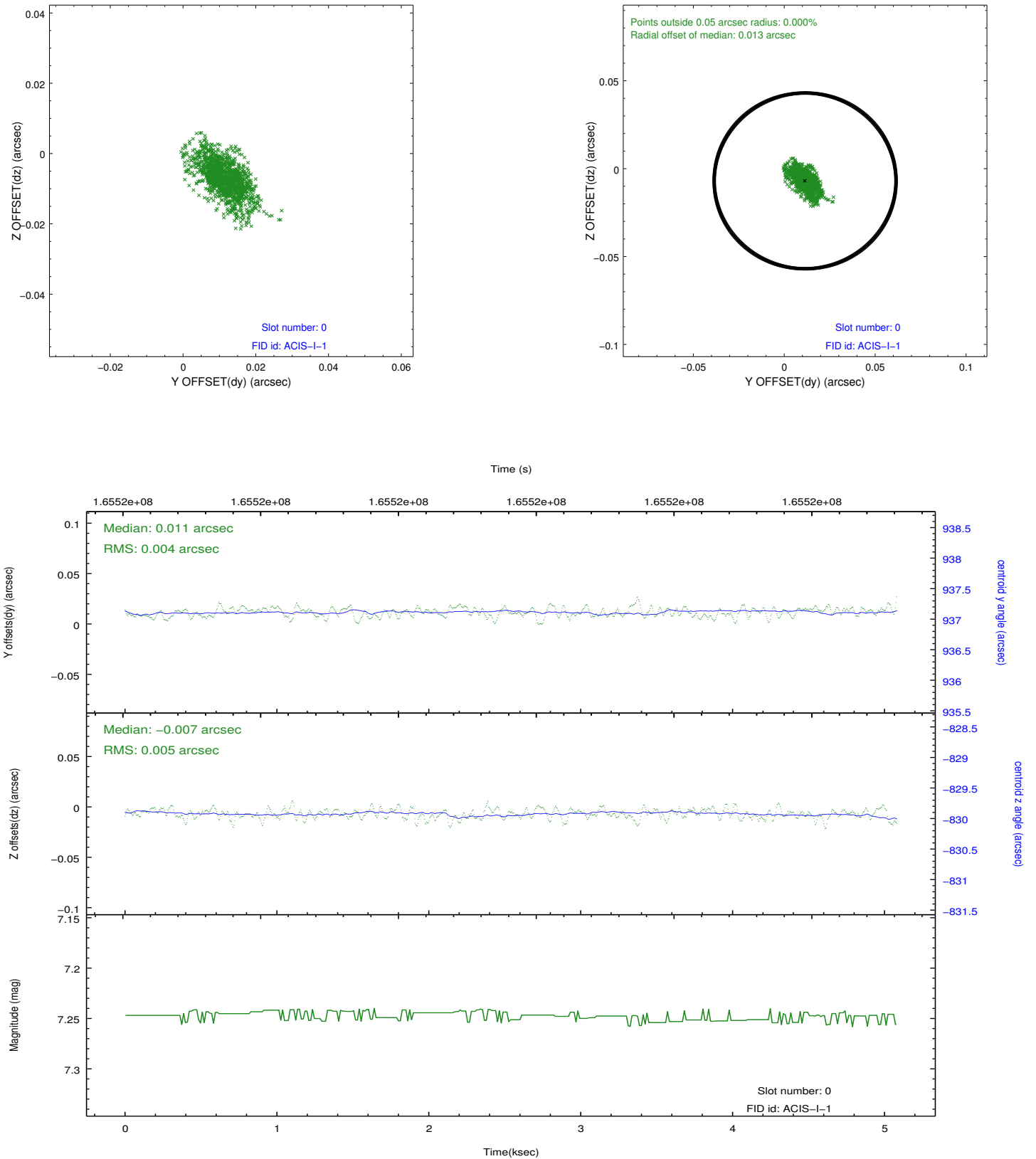


## 2.4.5 Slot 7

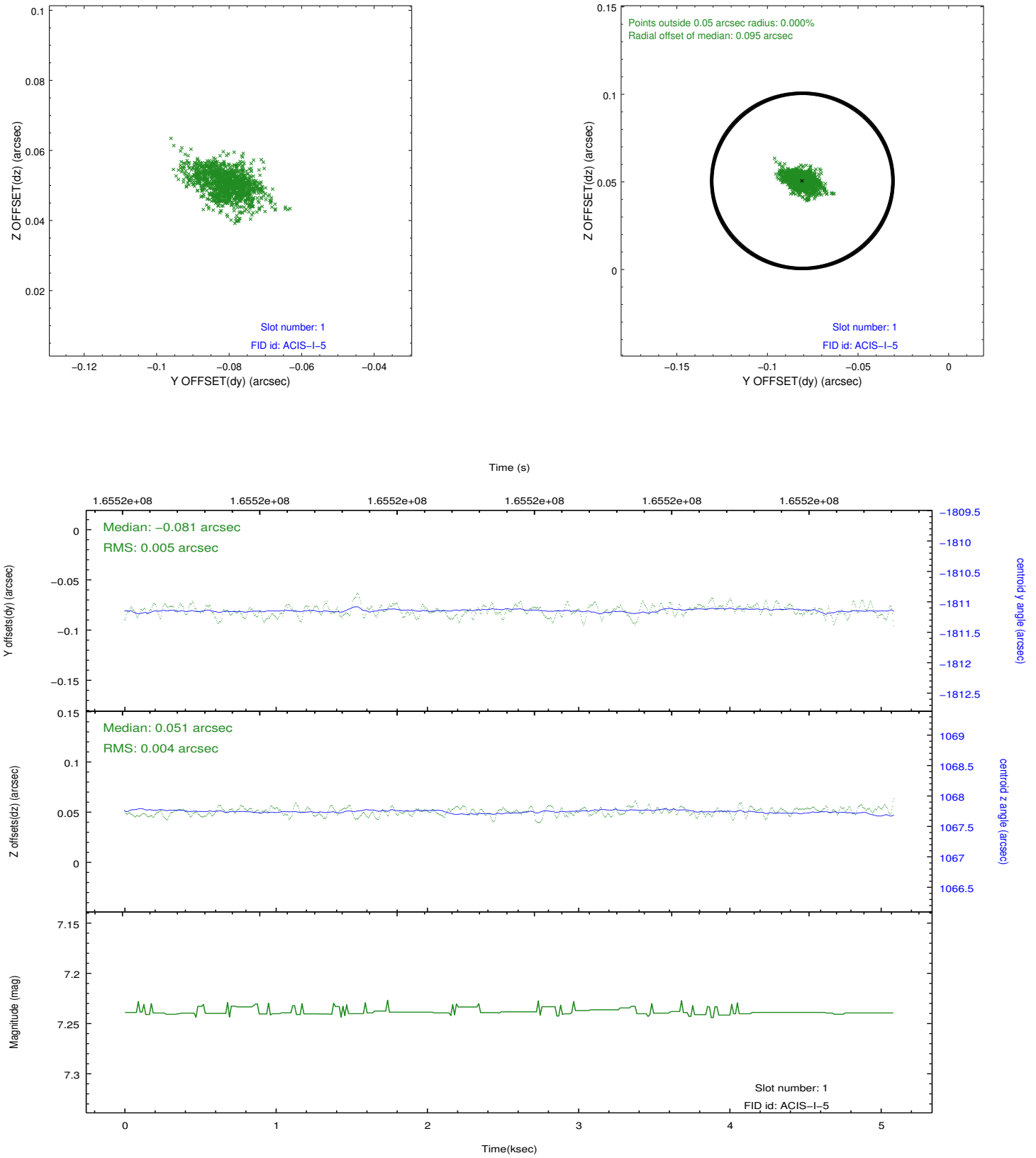


## 2.5 FID Slots

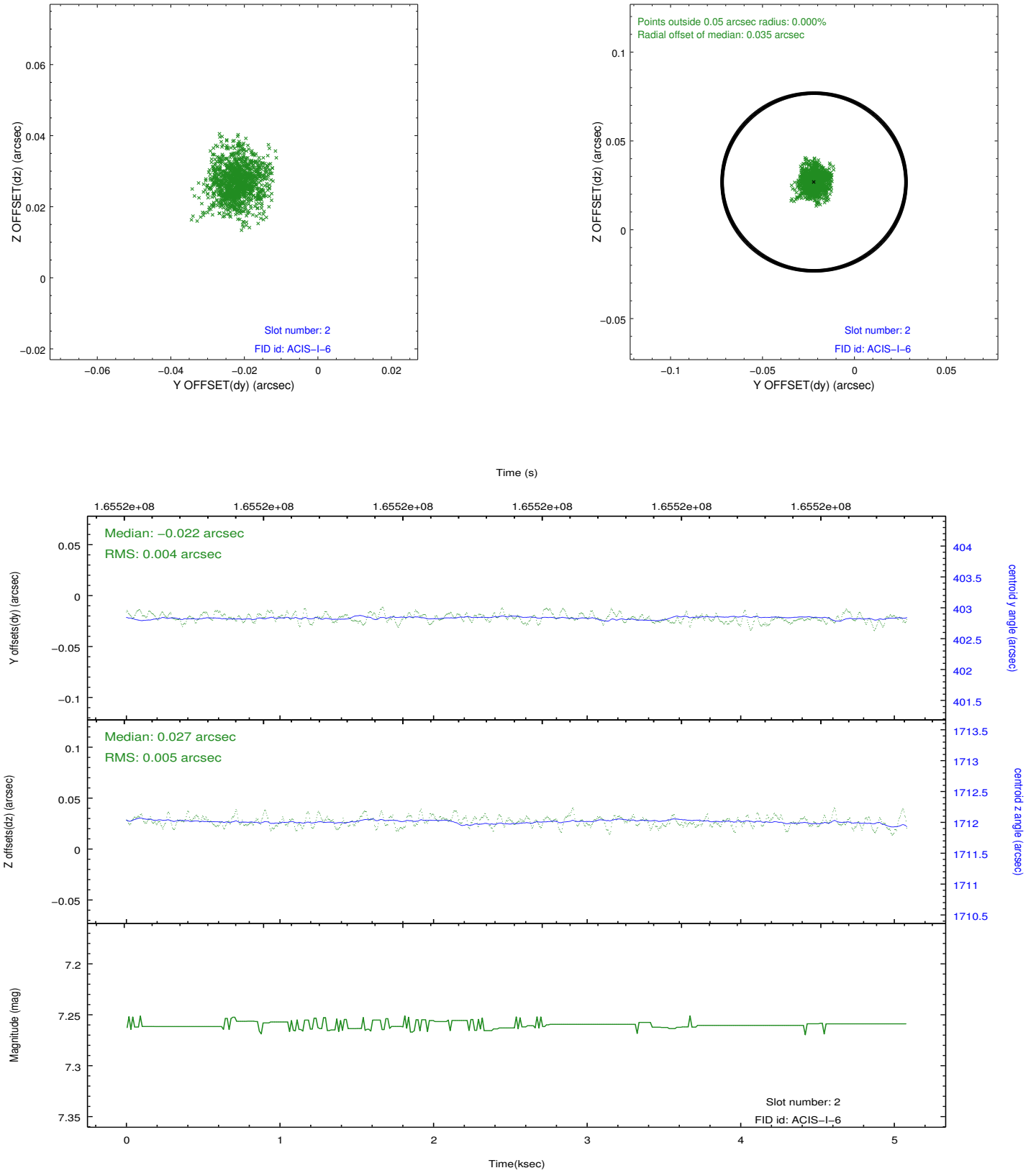
### 2.5.1 Slot 0



## 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)	2012.11.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.675

### A.2 Comments