

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4251 - L2 Version 4  
Chandra X-Ray Center

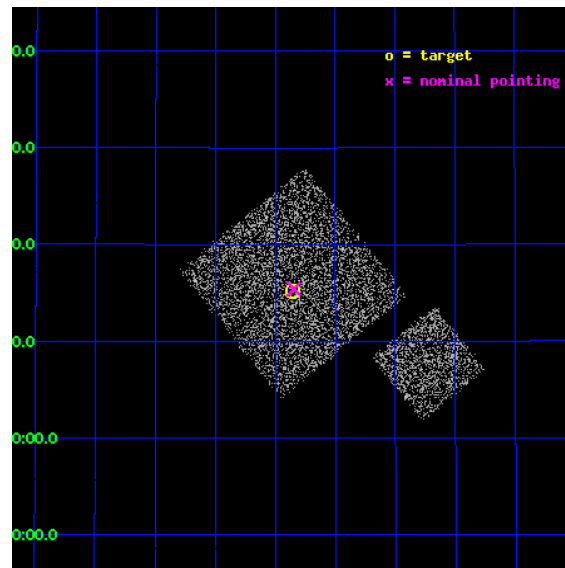
L2 Processing Date : Oct 25 2012

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# 1 Front

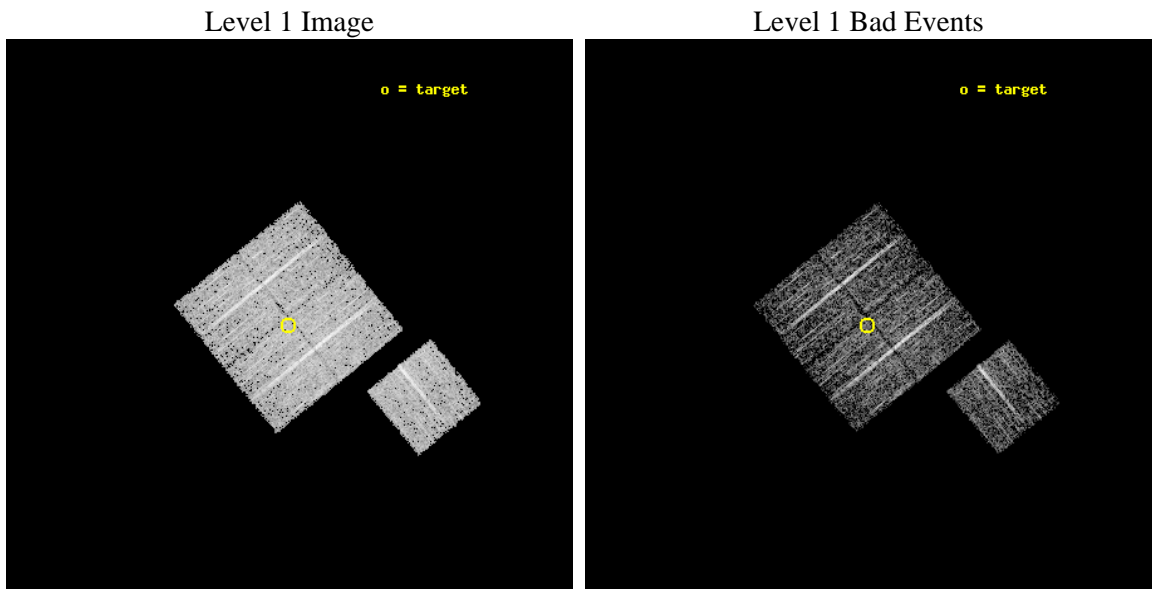
seq_num	900294	Sequence number
obs_id	4251	Observation id
title	A CHANDRA WIDE-FIELD SURVEY TO MAP THE COSMIC WEB AND INVESTIGATE THE EVOLUTION OF NUCLEAR ACCRETION	Proposal title
observer	Dr. Christine Jones	Principal investigator
object	SD40	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	218.463931	Observer's specified target RA [deg]
dec_targ	33.253224	Observer's specified target Dec [deg]
ra_nom	218.46137787584	Nominal RA [deg]
dec_nom	33.257303797132	Nominal Dec [deg]
roll_nom	141.01008910971	Nominal Roll [deg]
revision	4	Processing version of data
ontime	4674.2634729445	Sum of GTIs [s]
livetime	4613.1907795278	Livetime [s]
ontime0	4674.1403728426	Sum of GTIs [s]
ontime1	4671.0404525101	Sum of GTIs [s]
ontime2	4674.2224528491	Sum of GTIs [s]
ontime3	4674.2634729445	Sum of GTIs [s]
ontime6	4674.0993328393	Sum of GTIs [s]
l2events	9325	Number of level 2 events



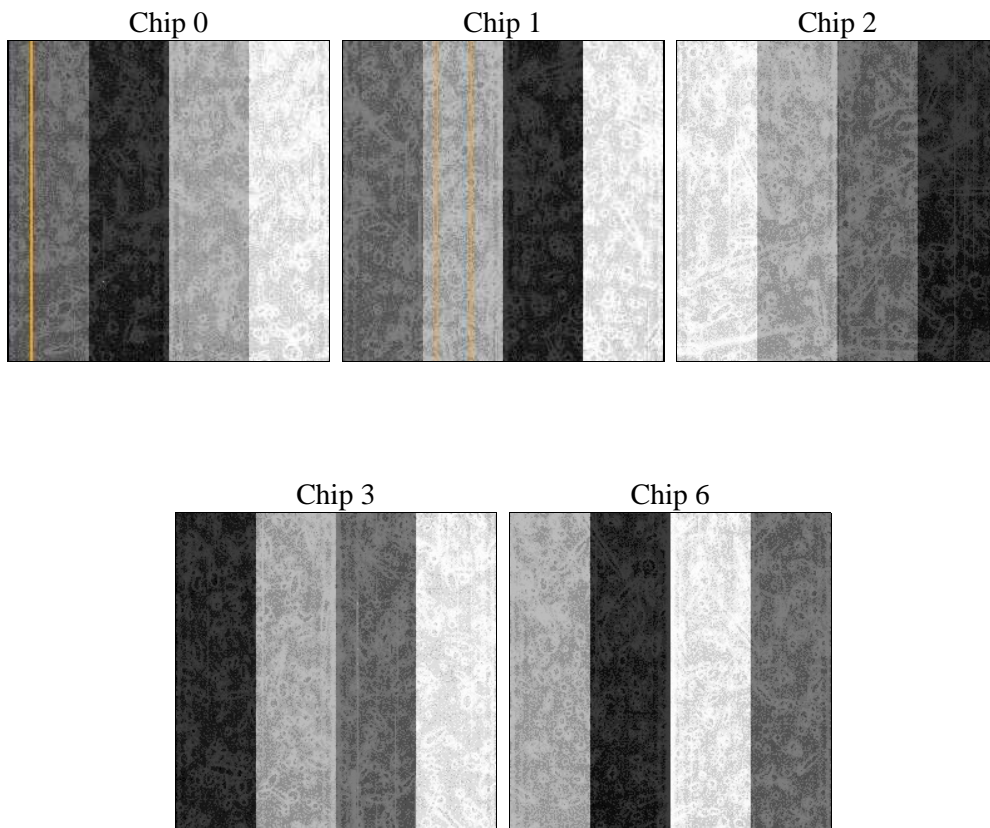
## 2 OBI

### 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	4674.2634729445	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	4674.1403728426	Sum of GTIs [s]
date	2012-10-25T23:38:29	Date and time of file creation	ontime1	4671.0404525101	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	4674.2224528491	Sum of GTIs [s]
			ontime3	4674.2634729445	Sum of GTIs [s]
			ontime6	4674.0993328393	Sum of GTIs [s]
			l1events	115006	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	21469	22130	25111	23897	22399
rejected events	19138	19788	22822	21802	20022
rejected %	89%	89%	90%	91%	89%

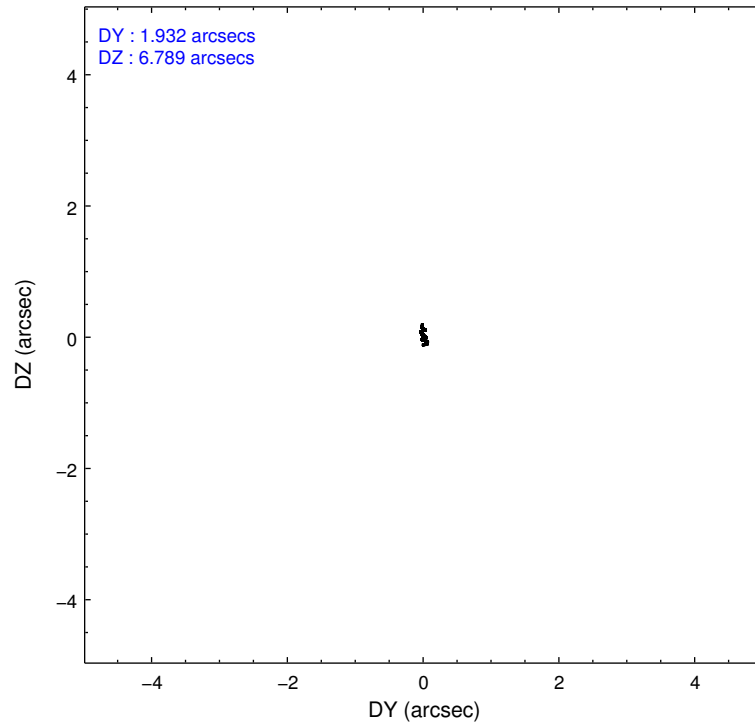
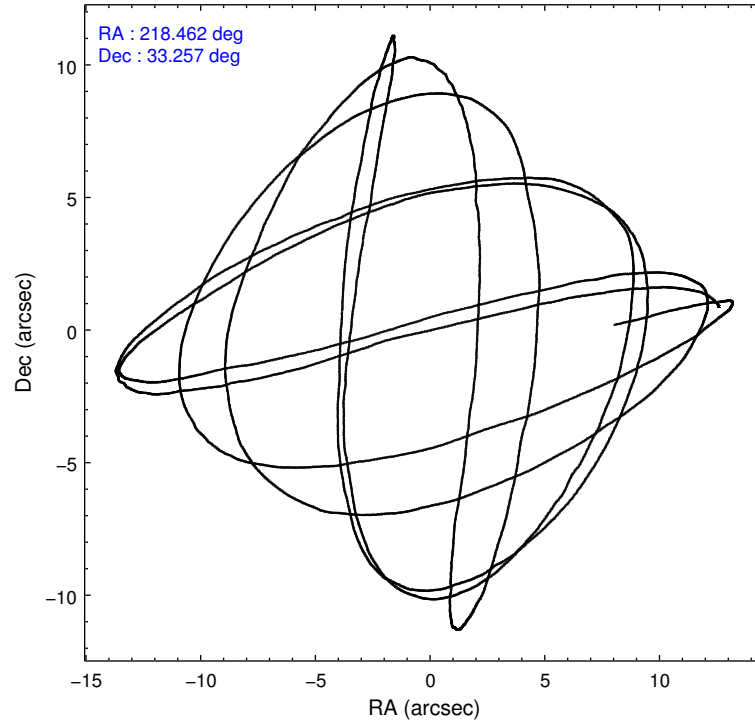
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	857	785	859	771	895
	3%	3%	3%	3%	3%
grade 1 events	16	12	15	20	9
	0%	0%	0%	0%	0%
grade 2 events	534	461	518	423	501
	2%	2%	2%	1%	2%
grade 3 events	280	313	263	264	284
	1%	1%	1%	1%	1%
grade 4 events	243	294	267	252	253
	1%	1%	1%	1%	1%
grade 5 events	726	705	630	752	787
	3%	3%	2%	3%	3%
grade 6 events	418	493	384	387	448
	1%	2%	1%	1%	2%
grade 7 events	18395	19067	22175	21028	19222
	85%	86%	88%	87%	85%

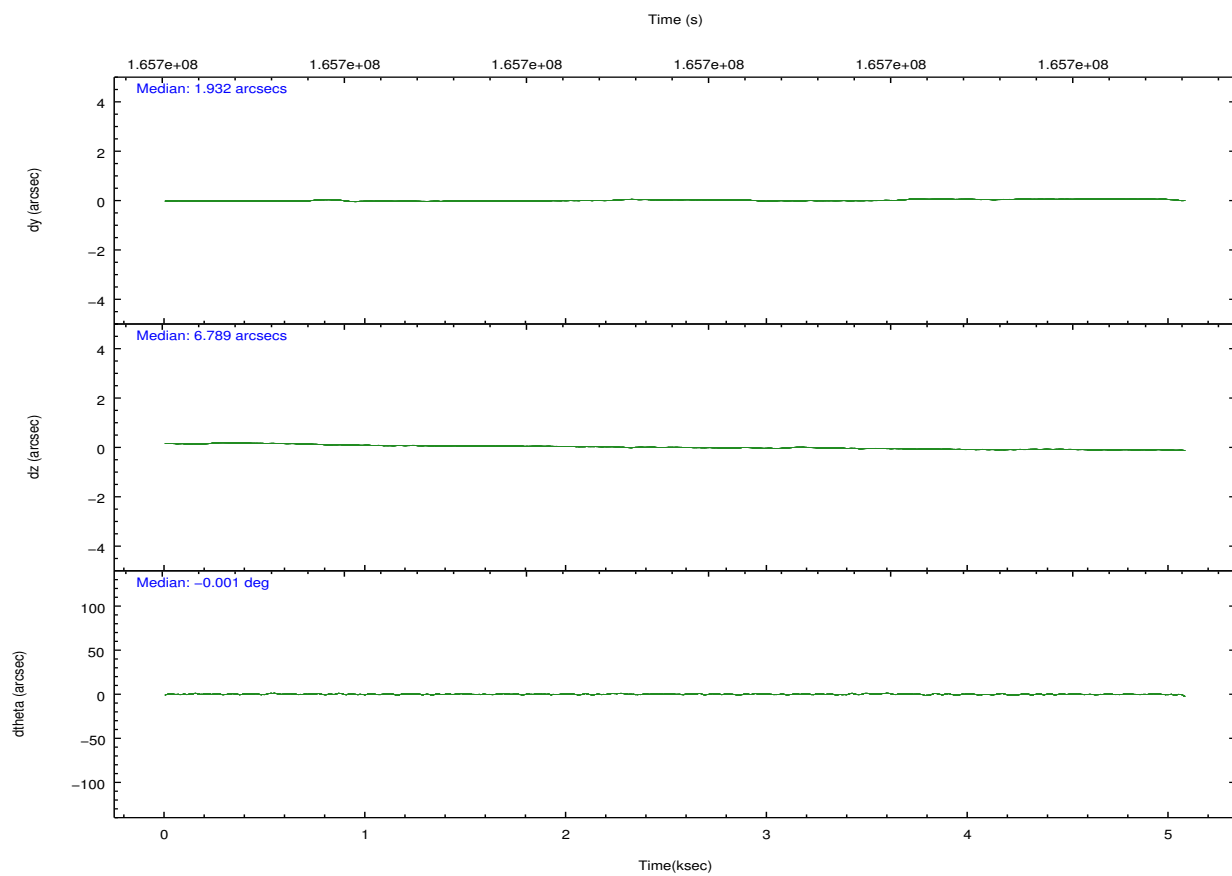
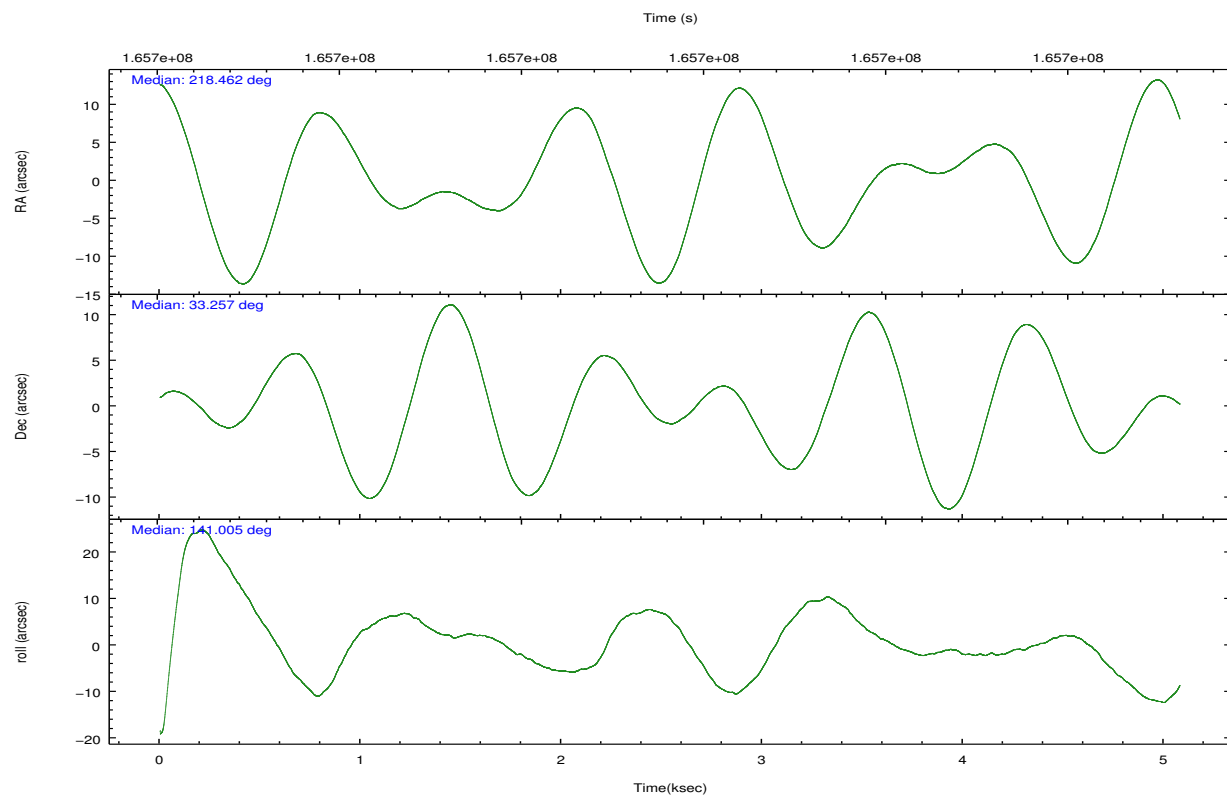


## 2.2 Compared Parameters

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	218.493687	218.4613778758401	Subarray requested	NONE	NONE
[deg] Pointing Dec	33.253143	33.25730379713212	Alternating exposures requested	N	N
[deg] Pointing Roll	140.783684	141.0100891097145	[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)	165700457.184000	165700081.38799			
Observation start date	2003-04-02T19:53:13	2003-04-02T19:48:01			
[s] Observation end time (MET)	165705357.184000	165705491.33822			
Observation end date	2003-04-02T21:14:53	2003-04-02T21:18:11			
Read mode	TIMED	TIMED			

## 2.3 Aspect



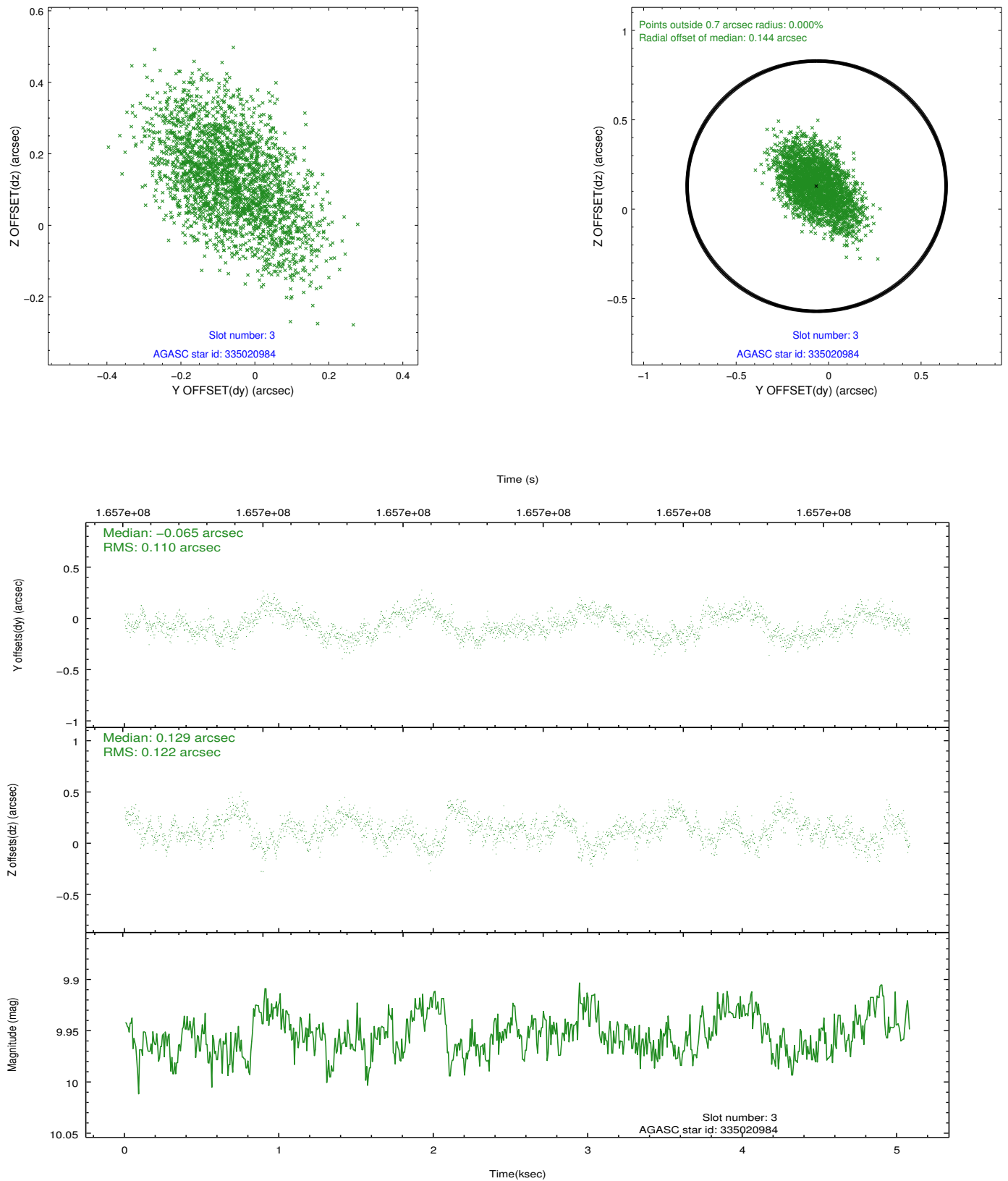


### Slot Statistics

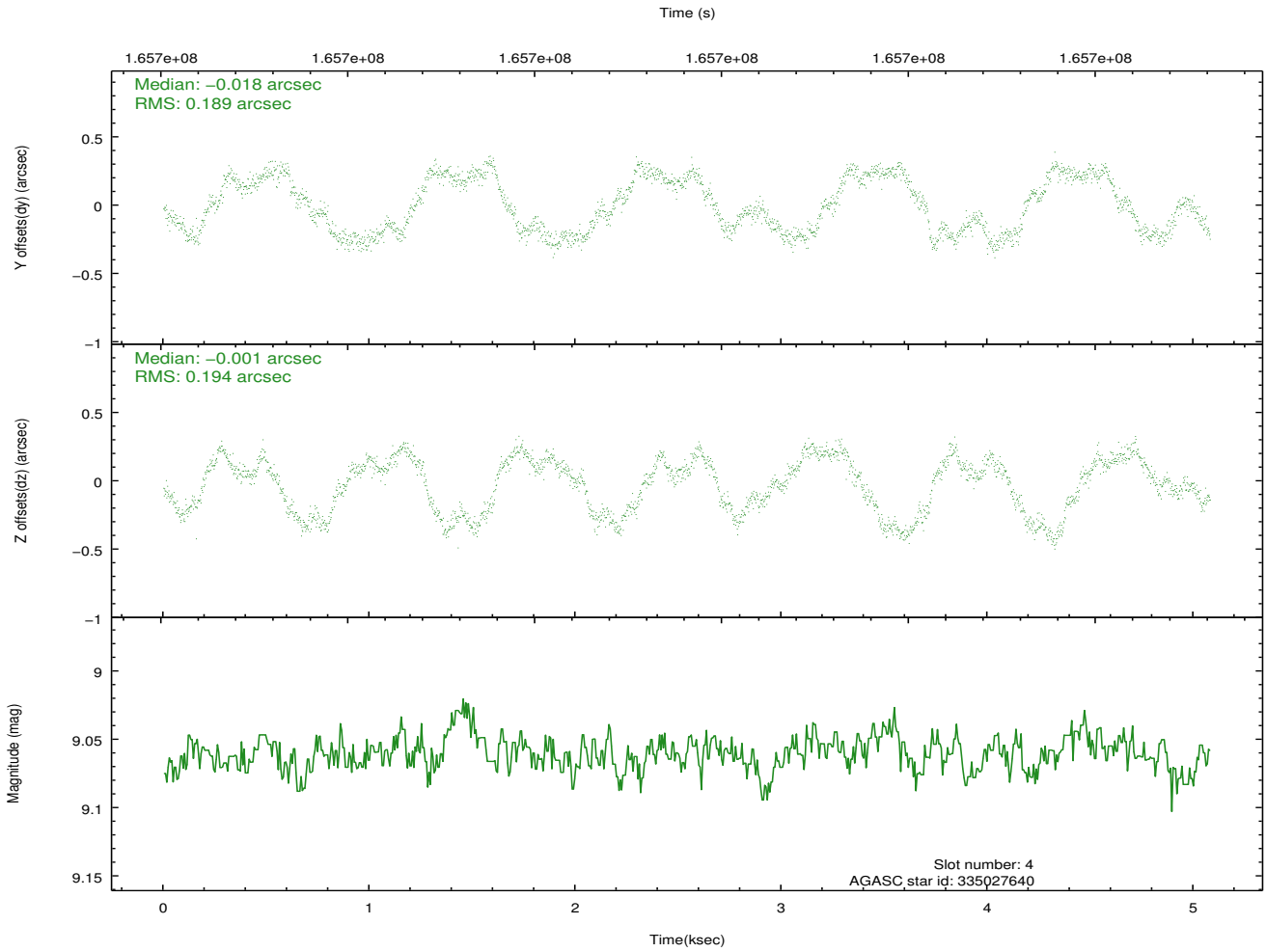
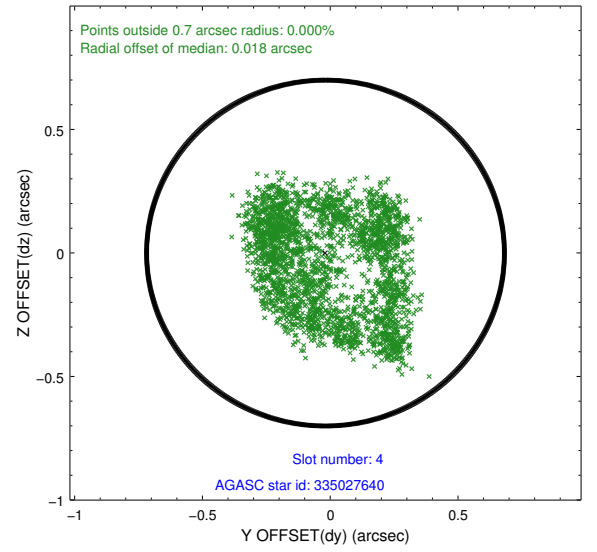
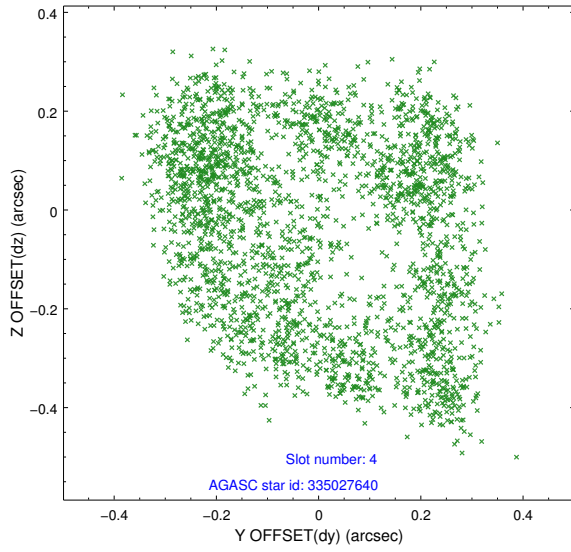
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1237	0.003	0.011	0.006	0.011	0.000000	0.000000	937.86	-830.20
1	FID	ACIS-I-5	7.24	1238	-0.065	0.049	0.006	0.010	0.000000	0.000000	-1809.60	1066.80
2	FID	ACIS-I-6	7.26	1239	-0.029	0.010	0.007	0.012	0.000000	0.000000	402.14	1712.57
3	GUIDE	335020984	9.95	2466	-0.065	0.129	0.174	0.287	218.841668	33.815112	474.90	-2226.55
4	GUIDE	335027640	9.06	2478	-0.018	-0.001	0.292	0.422	218.092211	33.193770	803.97	927.88
5	GUIDE	335028616	9.98	2412	0.085	-0.123	0.143	0.228	218.529874	33.175085	-261.68	149.25
6	GUIDE	335029384	8.49	2478	-0.101	-0.069	0.090	0.142	217.848061	33.088477	1137.72	1686.21
7	GUIDE	335154960	9.56	2478	0.097	0.097	0.121	0.193	219.209961	33.303073	-1550.81	-1506.82

## 2.4 Star Slots

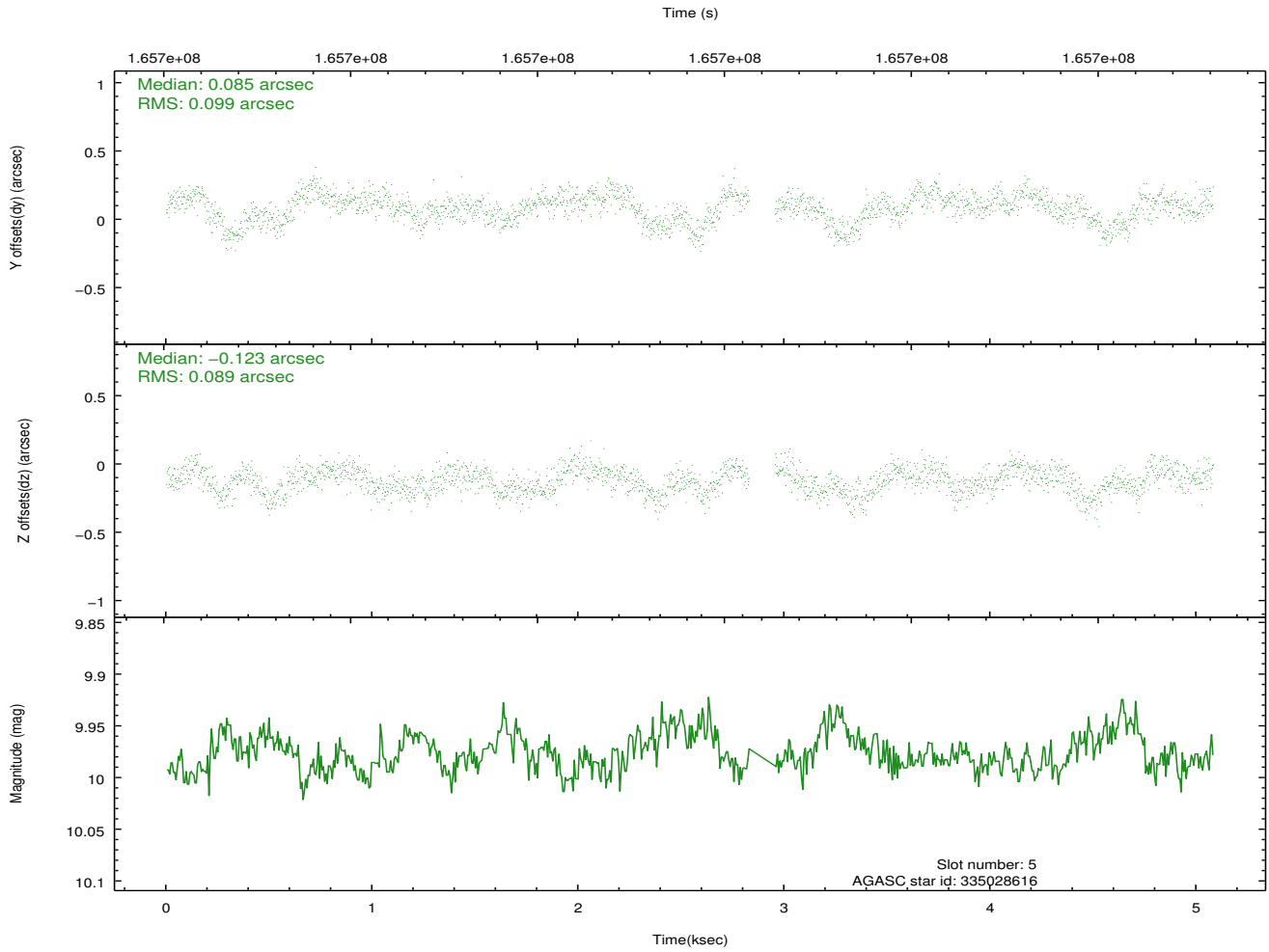
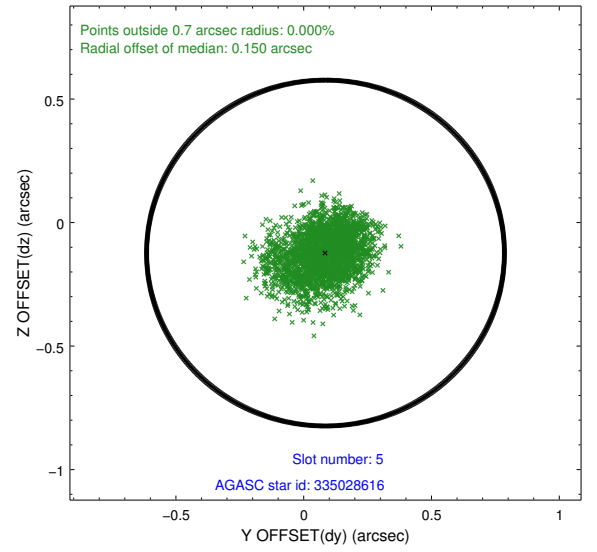
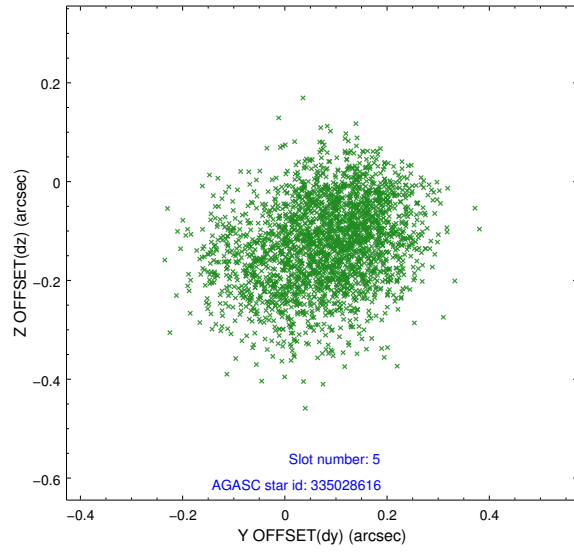
### 2.4.1 Slot 3



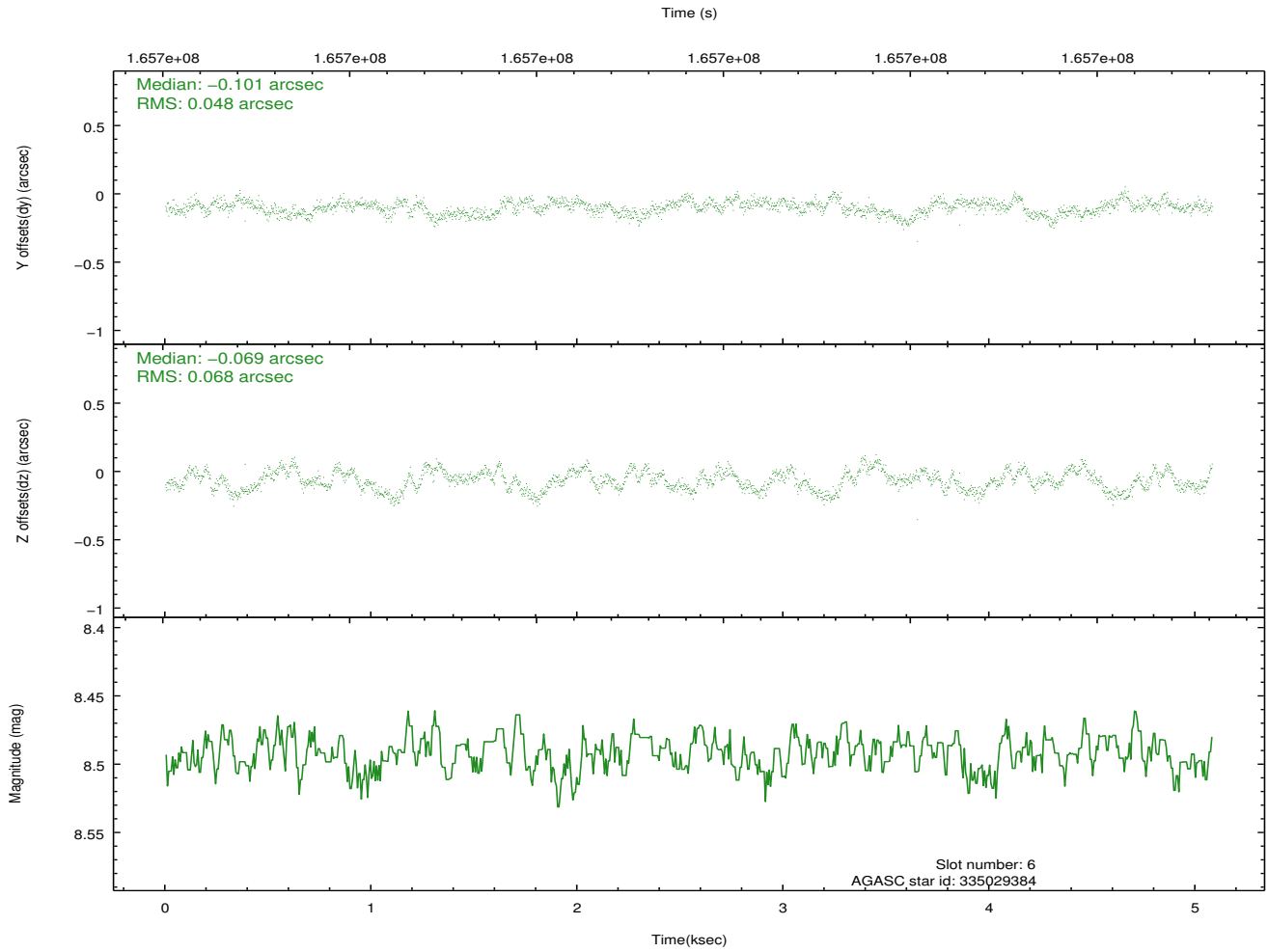
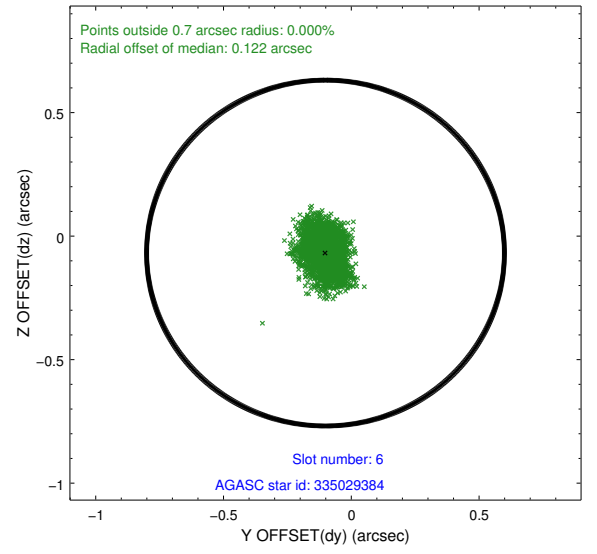
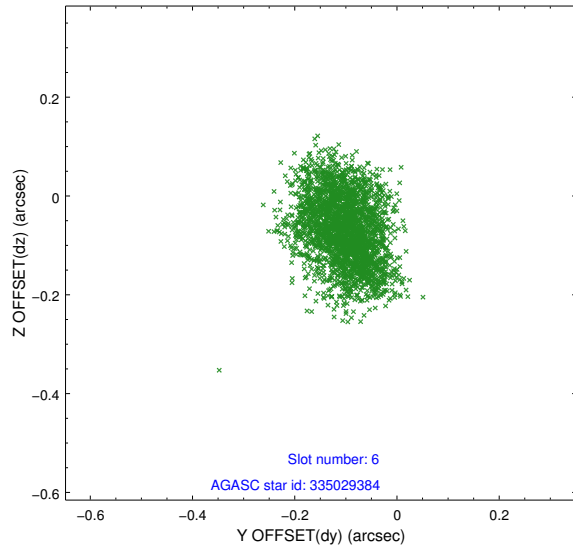
## 2.4.2 Slot 4



### 2.4.3 Slot 5

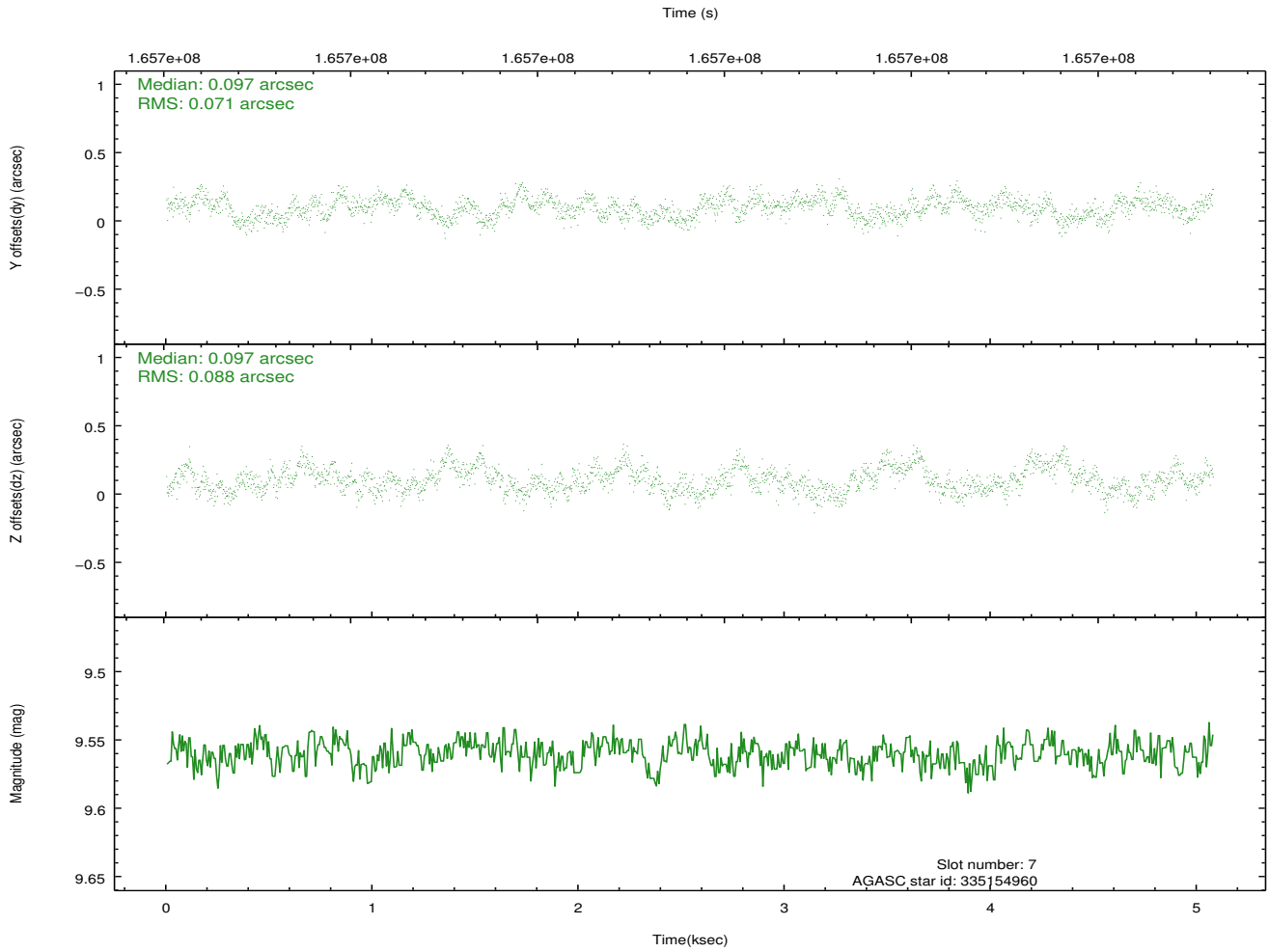
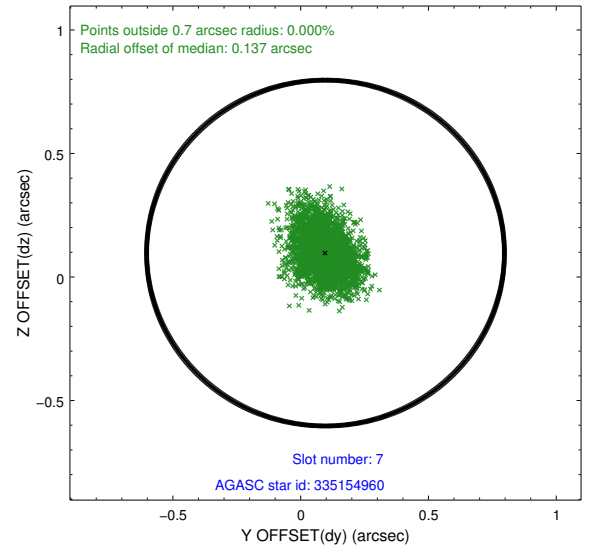
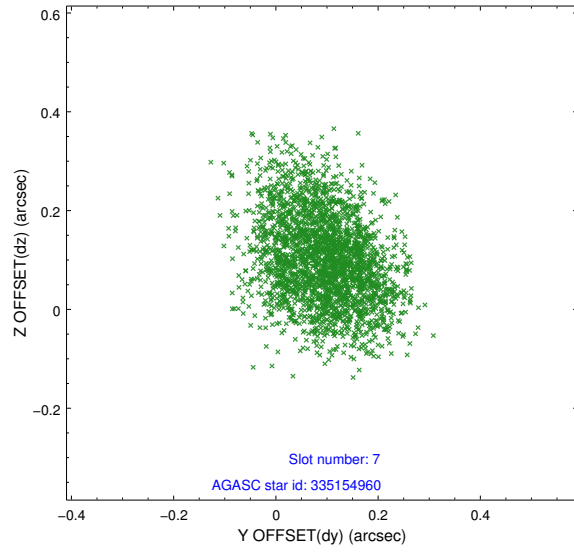


## 2.4.4 Slot 6



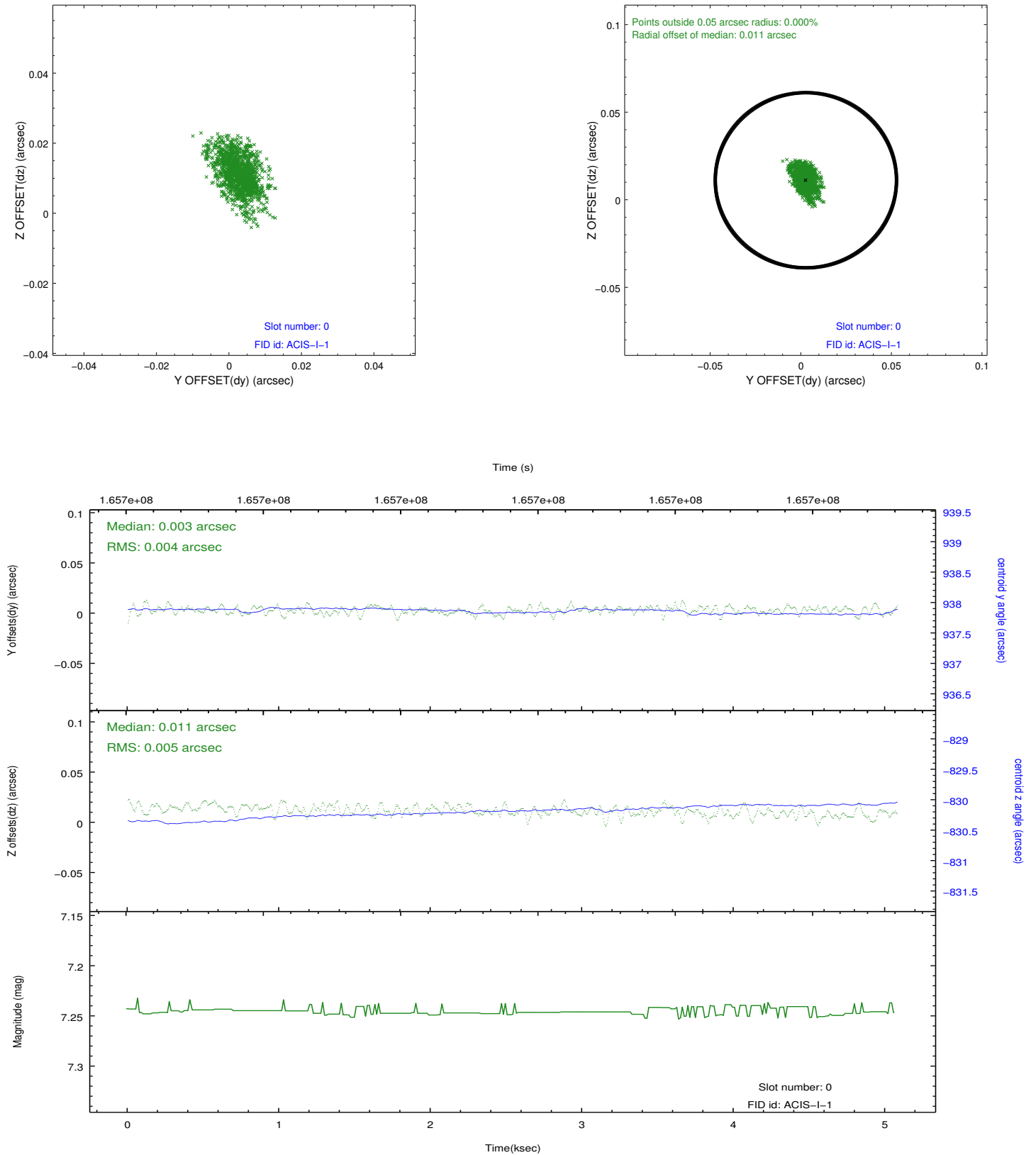


## 2.4.5 Slot 7

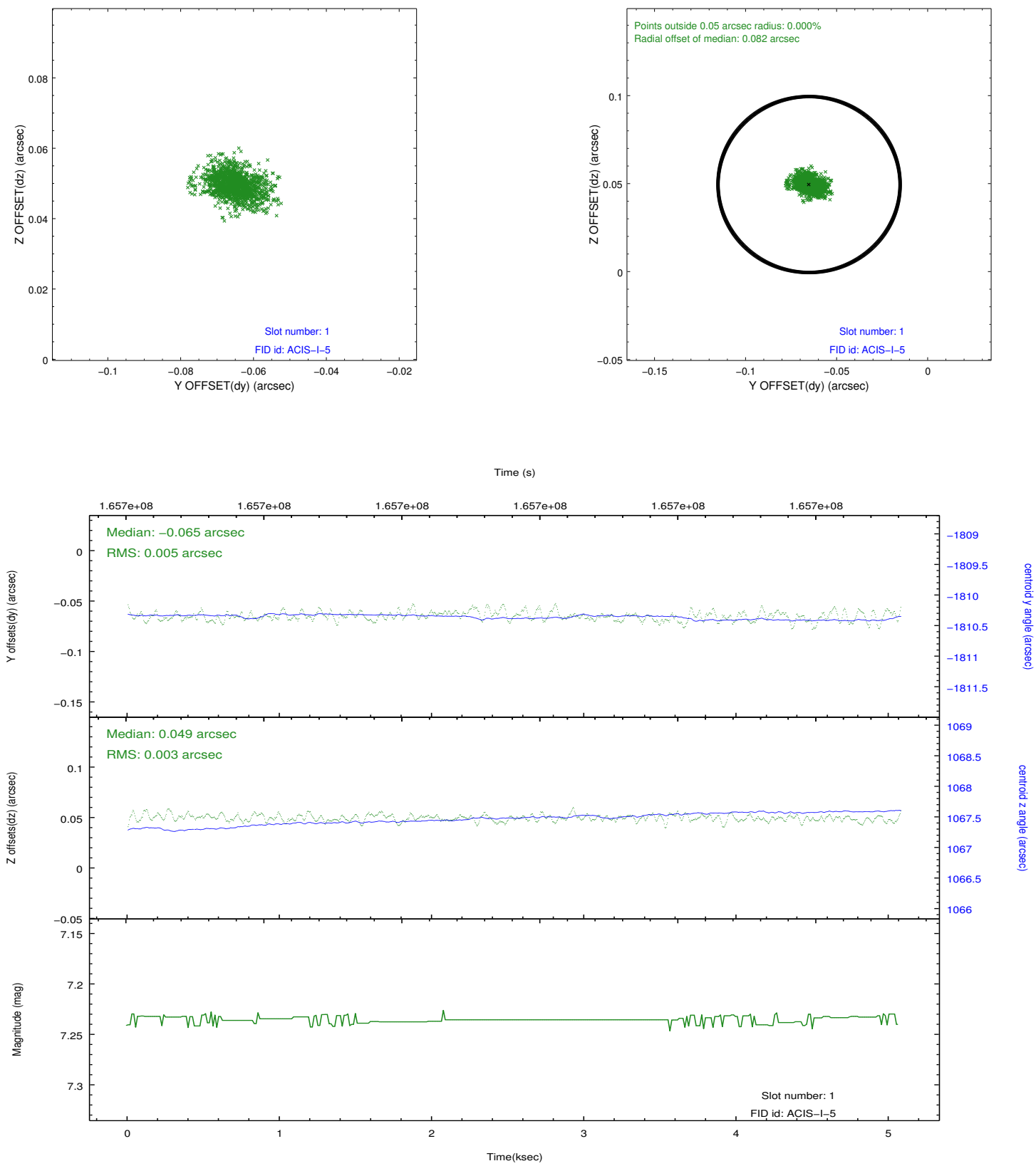


## 2.5 FID Slots

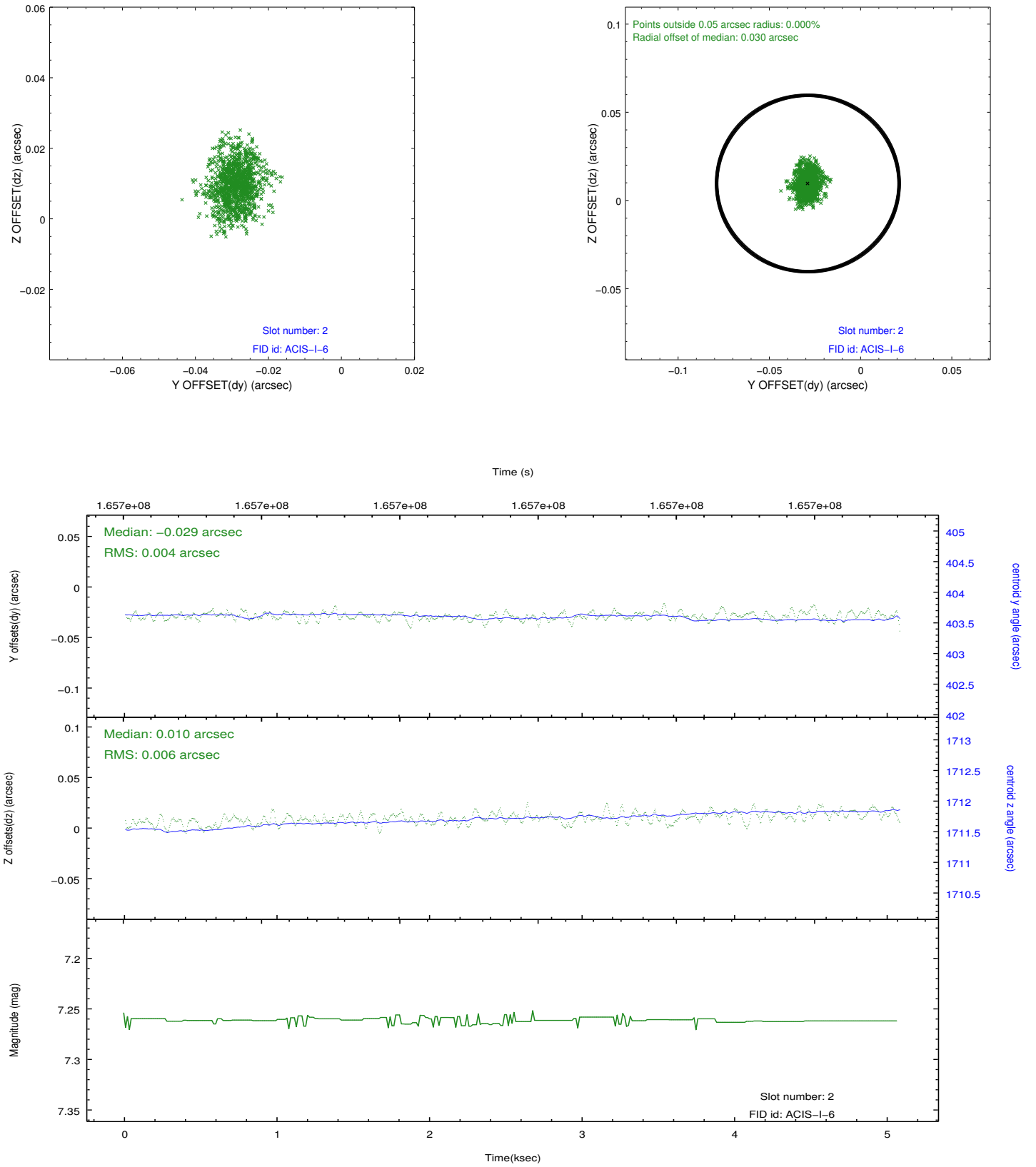
### 2.5.1 Slot 0



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	4.675

### A.2 Comments