

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 7693 - L2 Version 2  
Chandra X-Ray Center

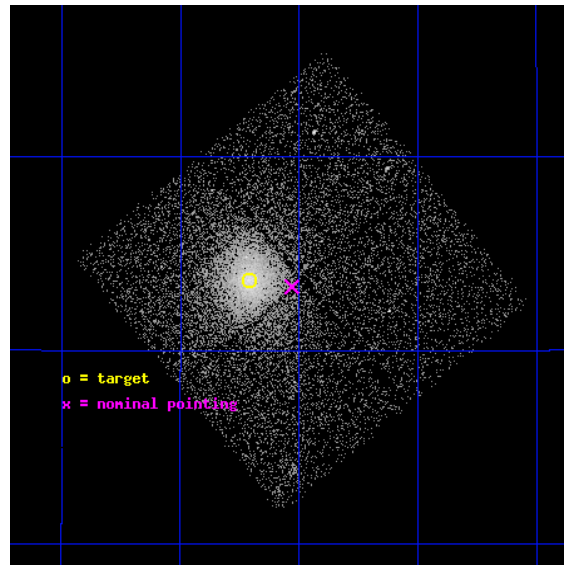
L2 Processing Date : Apr 28 2012

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# 1 Front

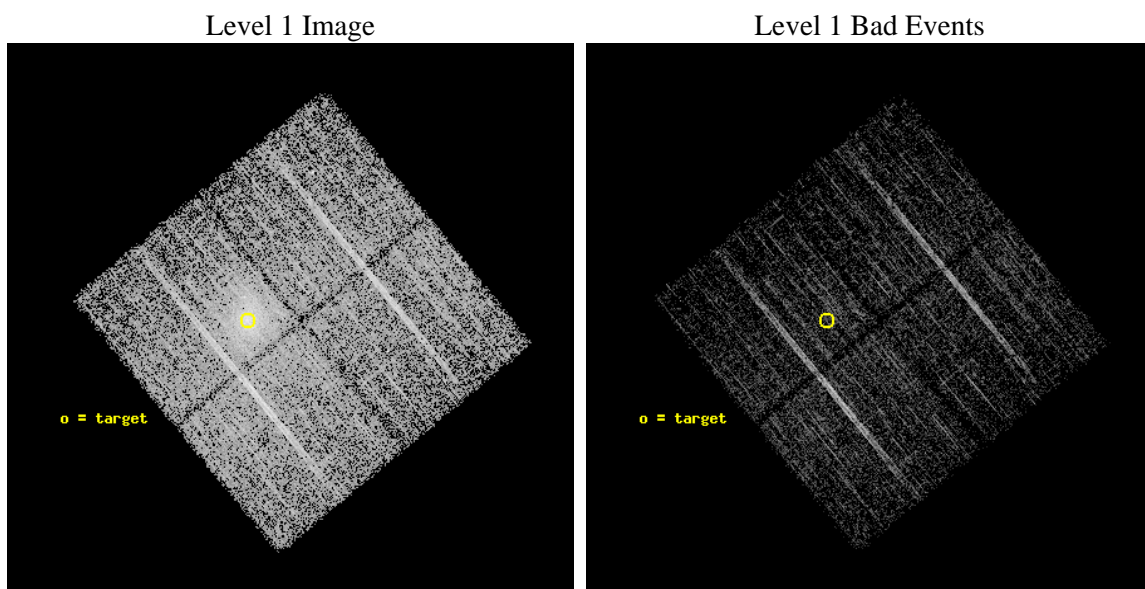
seq_num	701361	Sequence number
obs_id	7693	Observation id
title	Snapshot Survey for X-ray Outbursts in Rich Clusters of Galaxies	P
observer	Professor Gordon Garmire	Principal investigator
object	ABELL2244	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	255.6775	Observer's specified target RA [deg]
dec_targ	34.060389	Observer's specified target Dec [deg]
ra_nom	255.63280695724	Nominal RA [deg]
dec_nom	34.054976690055	Nominal Dec [deg]
roll_nom	230.58880211945	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5167.7000397444	Sum of GTIs [s]
livetime	5100.1802343197	Livetime [s]
ontime0	5167.7000397444	Sum of GTIs [s]
ontime1	5167.7000397444	Sum of GTIs [s]
ontime2	5167.7000397444	Sum of GTIs [s]
ontime3	5167.7000397444	Sum of GTIs [s]
l2events	23701	Number of level 2 events



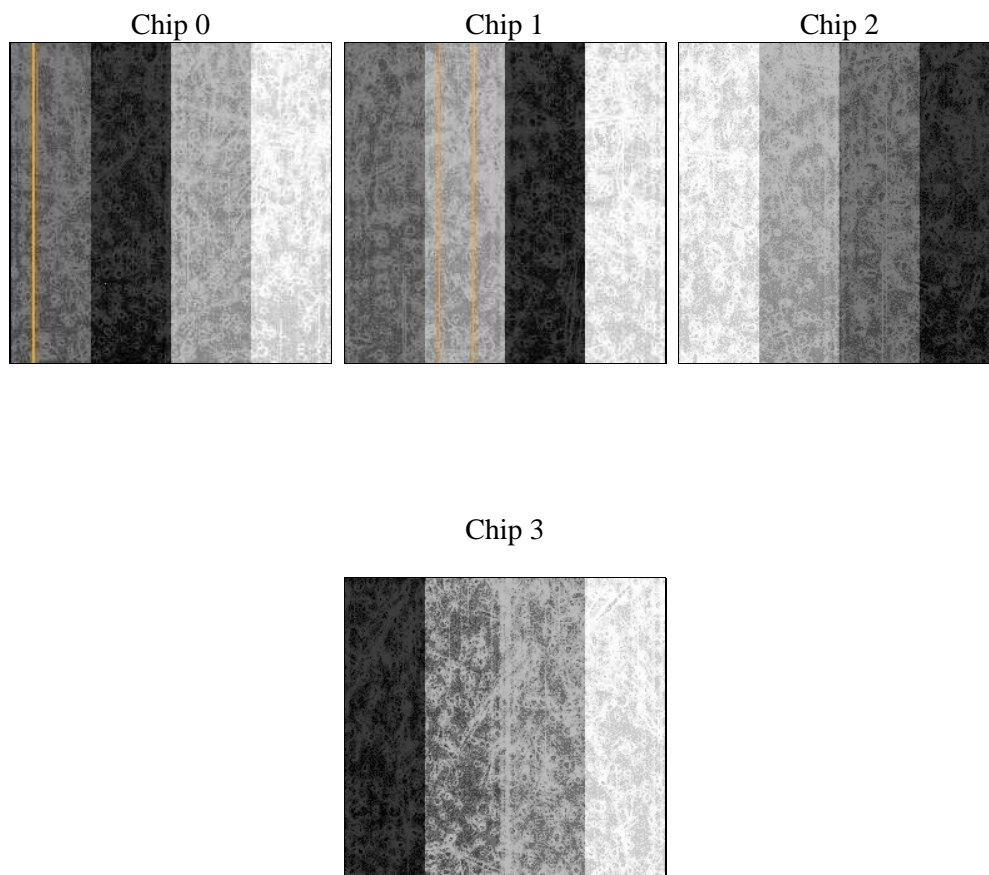
## 2 OBI

### 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	8.4.4	Processing system revision	ontime	5167.7000397444	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	5167.7000397444	Sum of GTIs [s]
date	2012-04-28T14:28:41	Date and time of file creation	ontime1	5167.7000397444	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	5167.7000397444	Sum of GTIs [s]
			ontime3	5167.7000397444	Sum of GTIs [s]
			l1events	156235	Number of level 1 events

### 2.1.4 Events

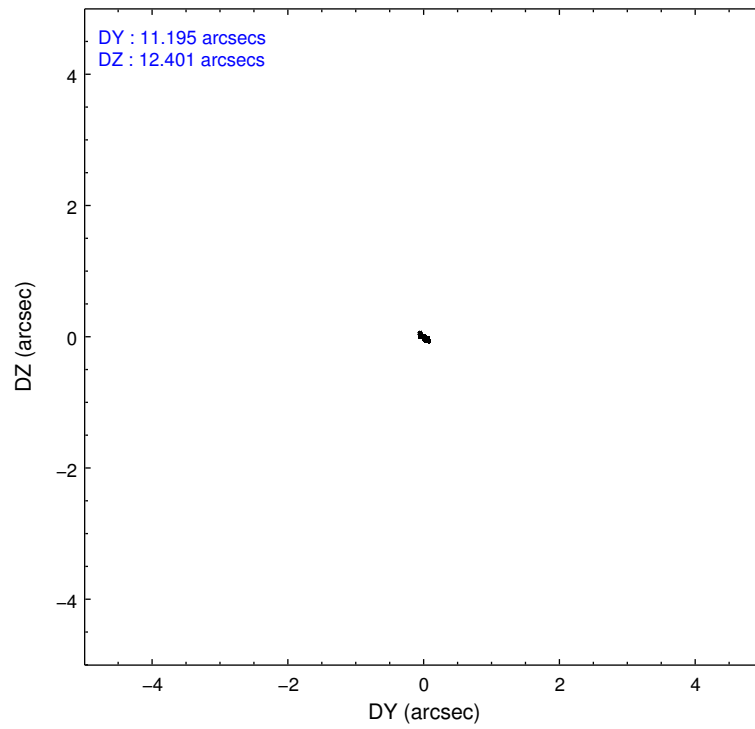
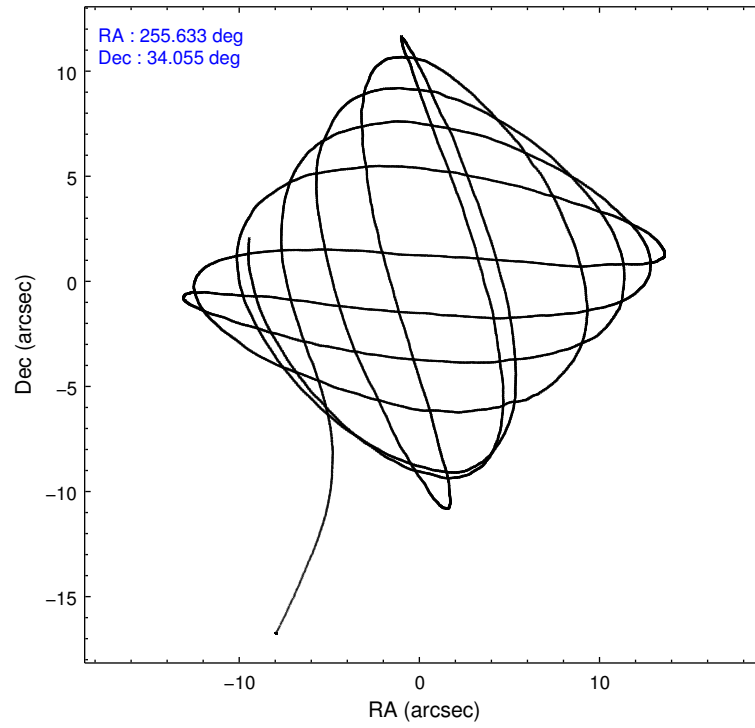
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	34654	33755	41710	46116
rejected events	31276	29446	36855	31941
rejected %	90%	87%	88%	69%

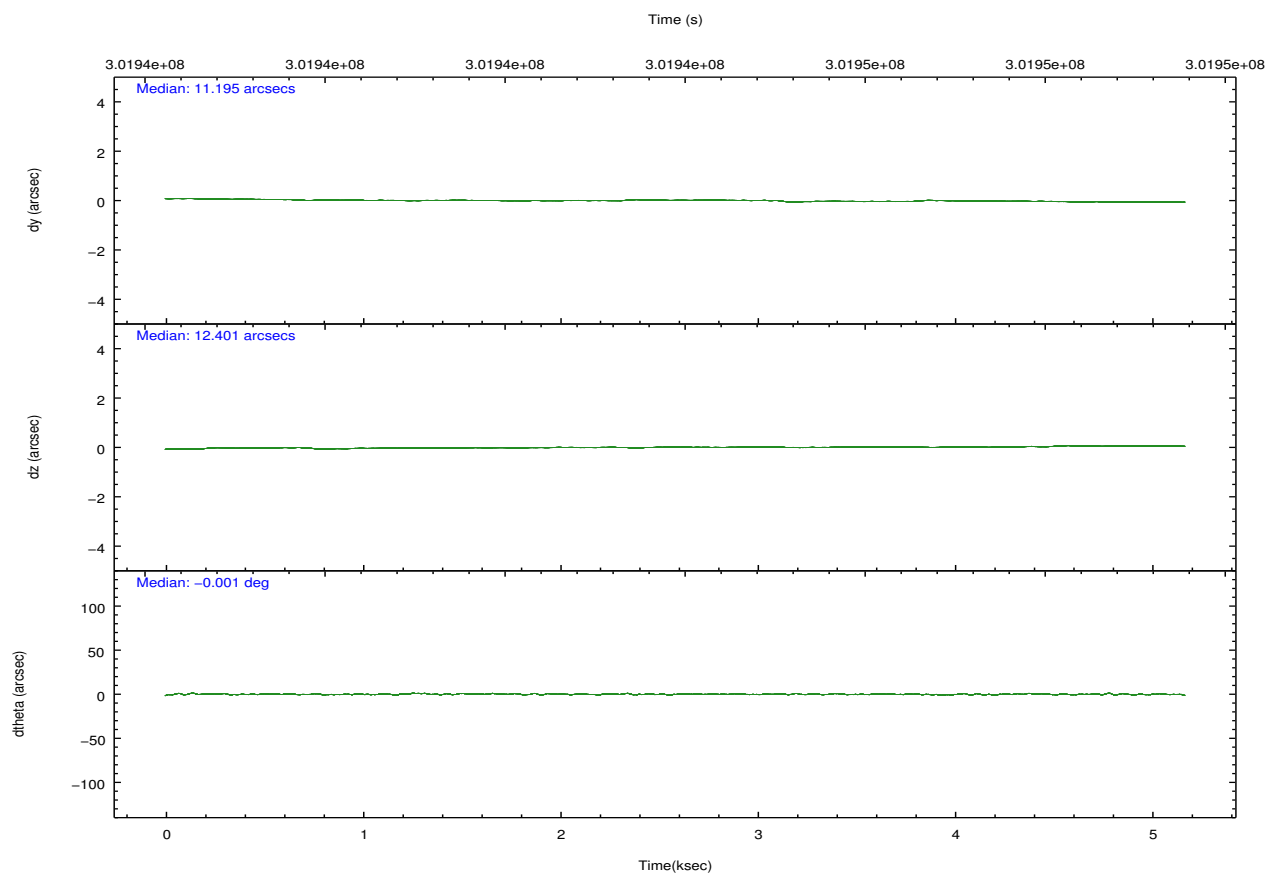
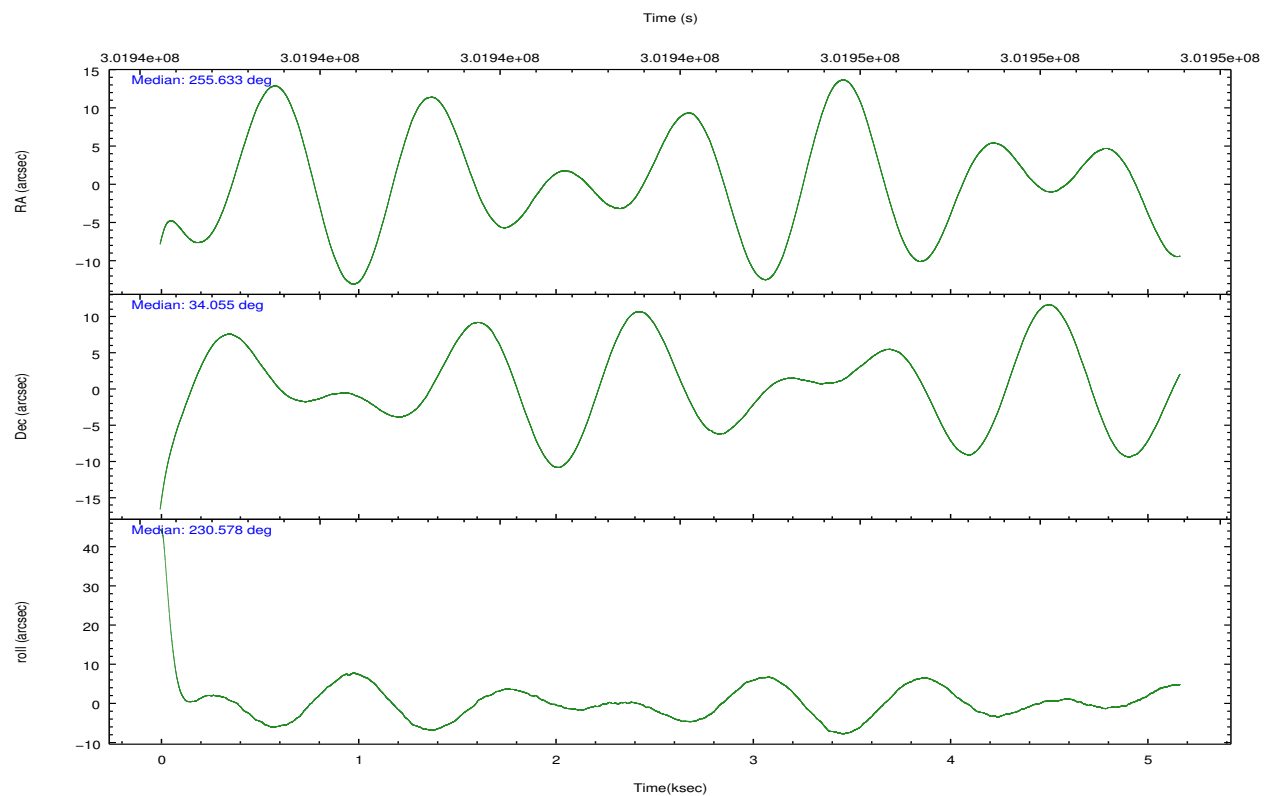
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1559	2247	2824	10748
	4%	6%	6%	23%
grade 1 events	23	14	31	74
	0%	0%	0%	0%
grade 2 events	746	806	909	1678
	2%	2%	2%	3%
grade 3 events	384	442	356	674
	1%	1%	0%	1%
grade 4 events	335	404	410	644
	0%	1%	0%	1%
grade 5 events	559	652	584	795
	1%	1%	1%	1%
grade 6 events	444	538	458	762
	1%	1%	1%	1%
grade 7 events	30604	28652	36138	30741
	88%	84%	86%	66%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	255.638163	255.6328069572391	Subarray requested	NONE	NONE
[deg] Pointing Dec	34.082192	34.05497669005473	Alternating exposures requested	N	N
[deg] Pointing Roll	230.376992	230.5888021194455	[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)	301942531.184000	301941546.48531			
Observation start date	2007-07-27T16:54:26	2007-07-27T16:39:06			
[s] Observation end time (MET)	301947531.184000	301948816.29816			
Observation end date	2007-07-27T18:17:46	2007-07-27T18:40:16			
Read mode	TIMED	TIMED			

## 2.3 Aspect



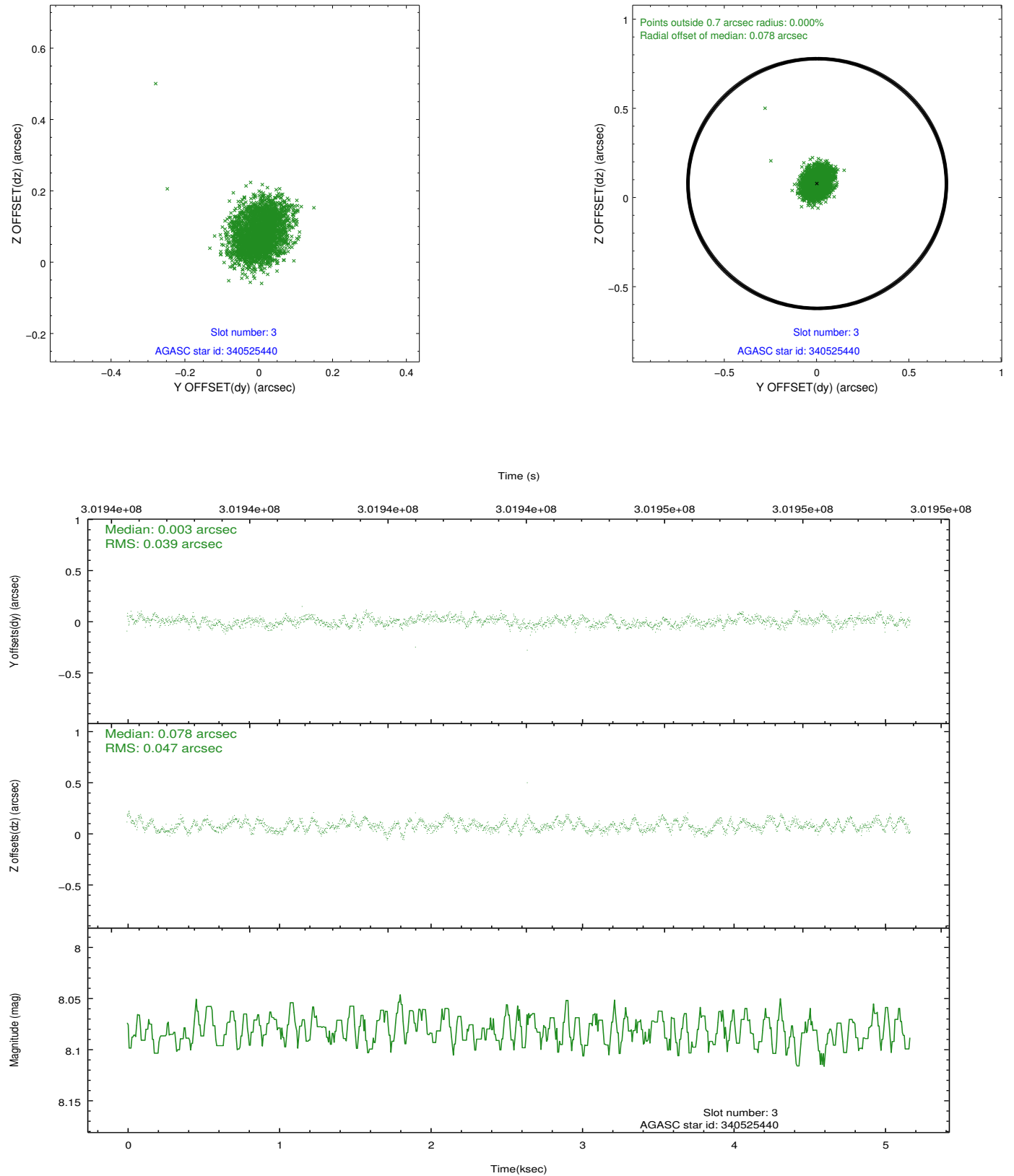


### Slot Statistics

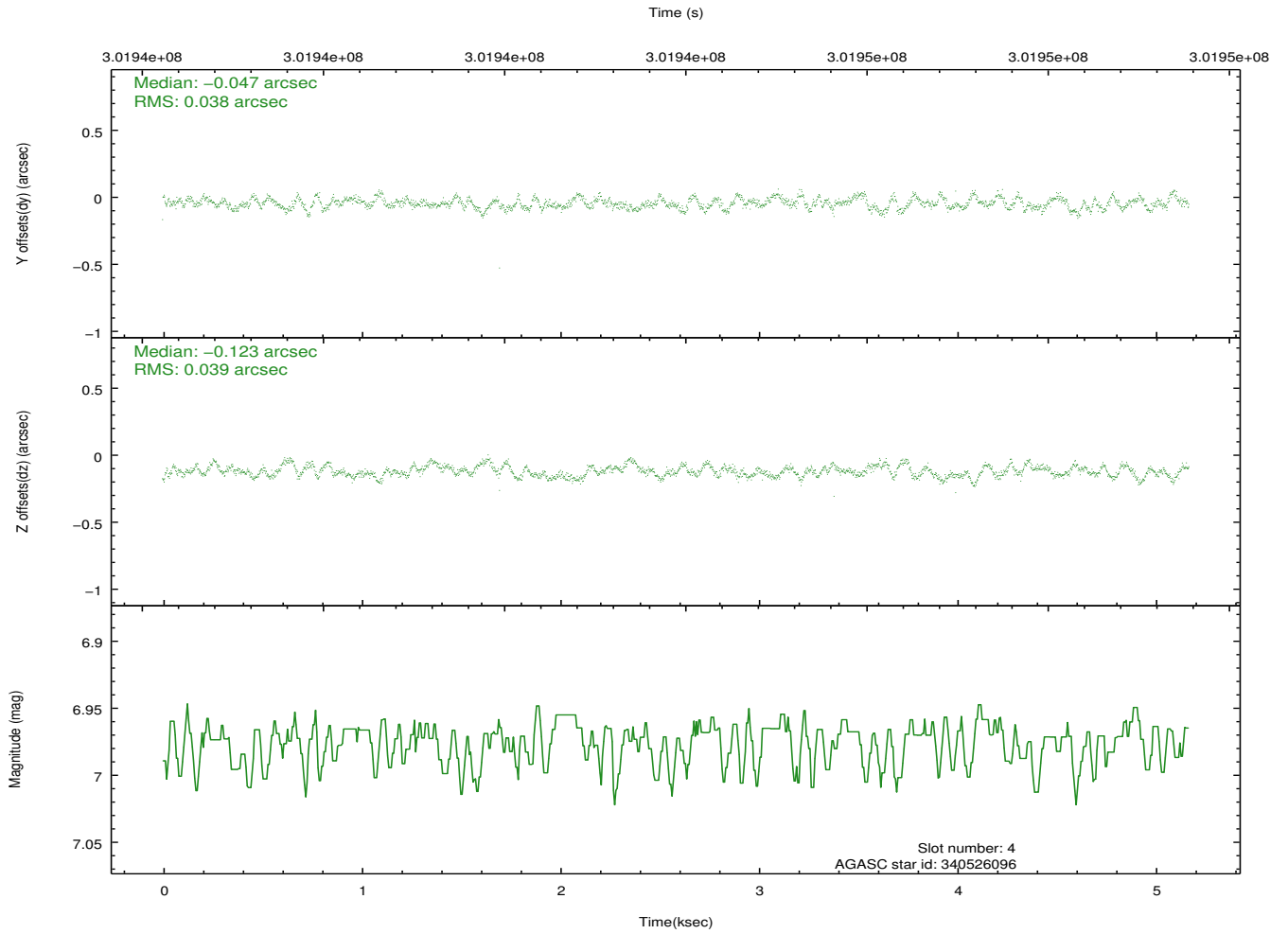
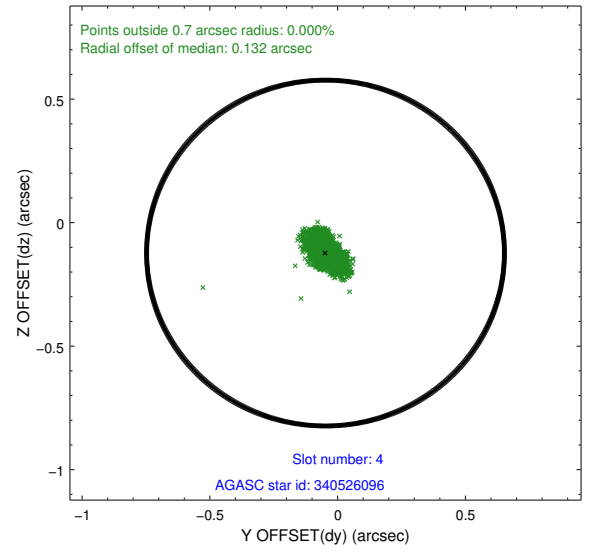
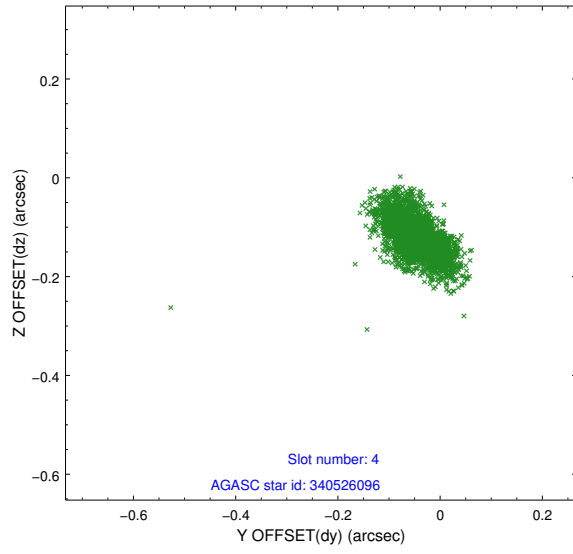
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1261	0.071	-0.037	0.007	0.011	0.000000	0.000000	928.43	-835.98
1	FID	ACIS-I-5	7.24	1261	-0.222	0.070	0.007	0.010	0.000000	0.000000	-1819.29	1061.06
2	FID	ACIS-I-6	7.24	1261	0.060	0.037	0.007	0.012	0.000000	0.000000	392.73	1706.83
3	GUIDE	340525440	8.08	2523	0.003	0.078	0.067	0.103	255.771513	34.540229	-1522.32	-746.97
4	GUIDE	340526096	6.97	2523	-0.047	-0.123	0.057	0.096	255.041829	34.338386	415.85	-1956.82
5	GUIDE	340526144	8.86	2520	0.022	0.153	0.069	0.113	255.370898	34.034692	639.71	-505.87
6	GUIDE	340528160	8.40	2521	0.001	-0.072	0.055	0.089	256.487691	34.097893	-1666.82	1907.77
7	GUIDE	340528288	8.79	2519	0.023	-0.039	0.078	0.129	255.032753	34.370234	344.38	-2049.59

## 2.4 Star Slots

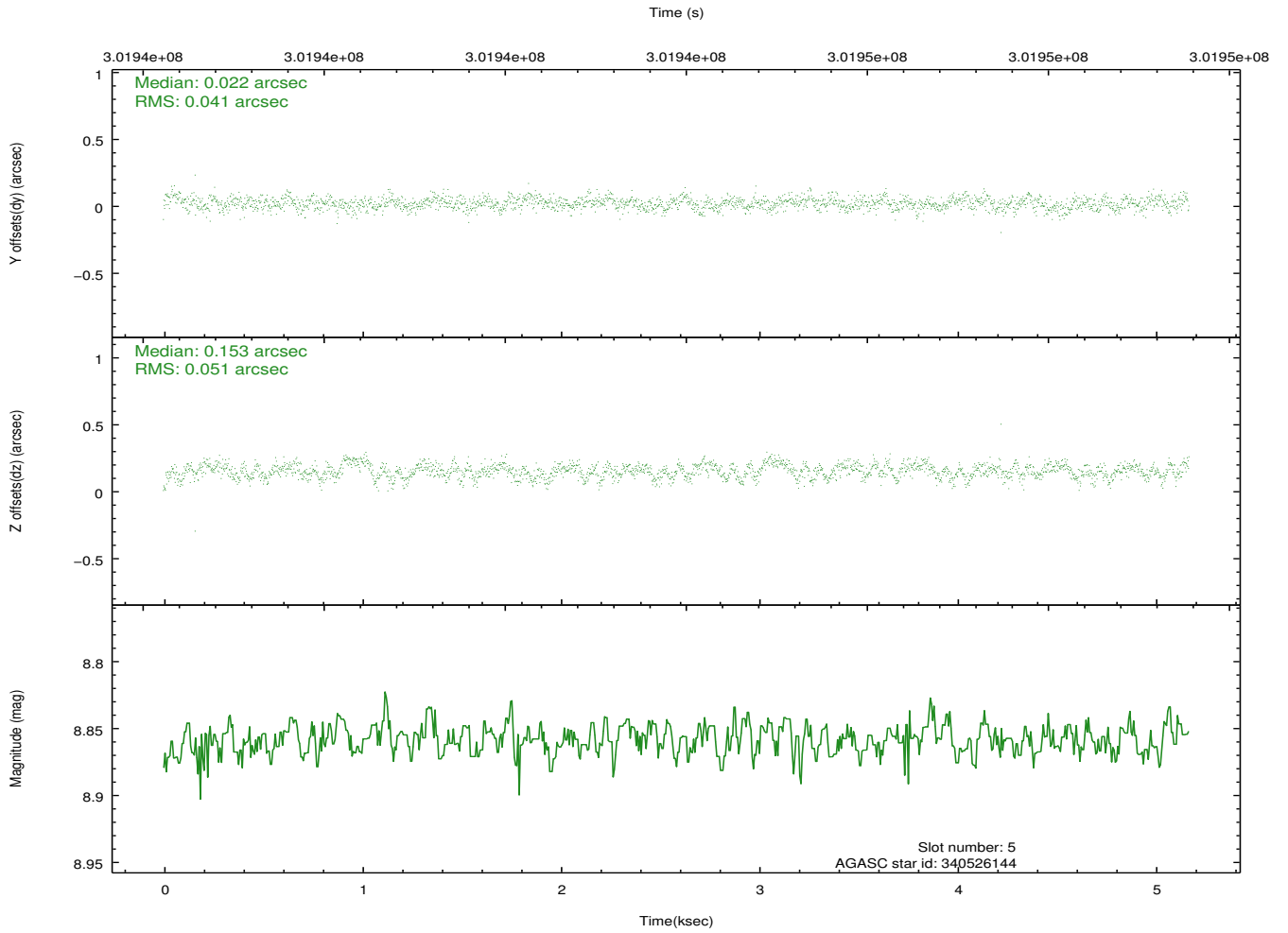
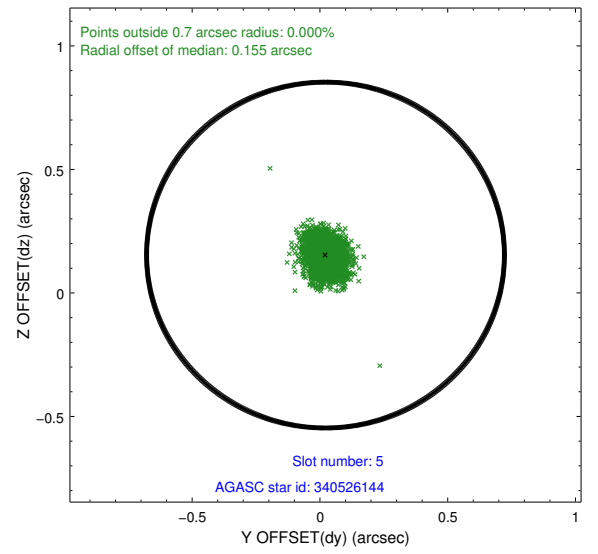
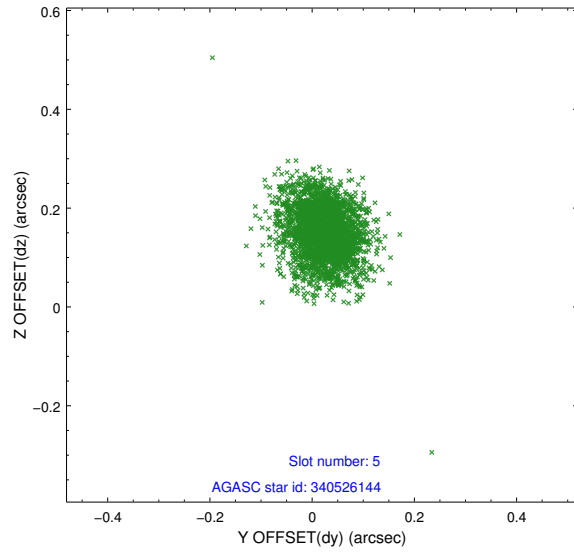
### 2.4.1 Slot 3



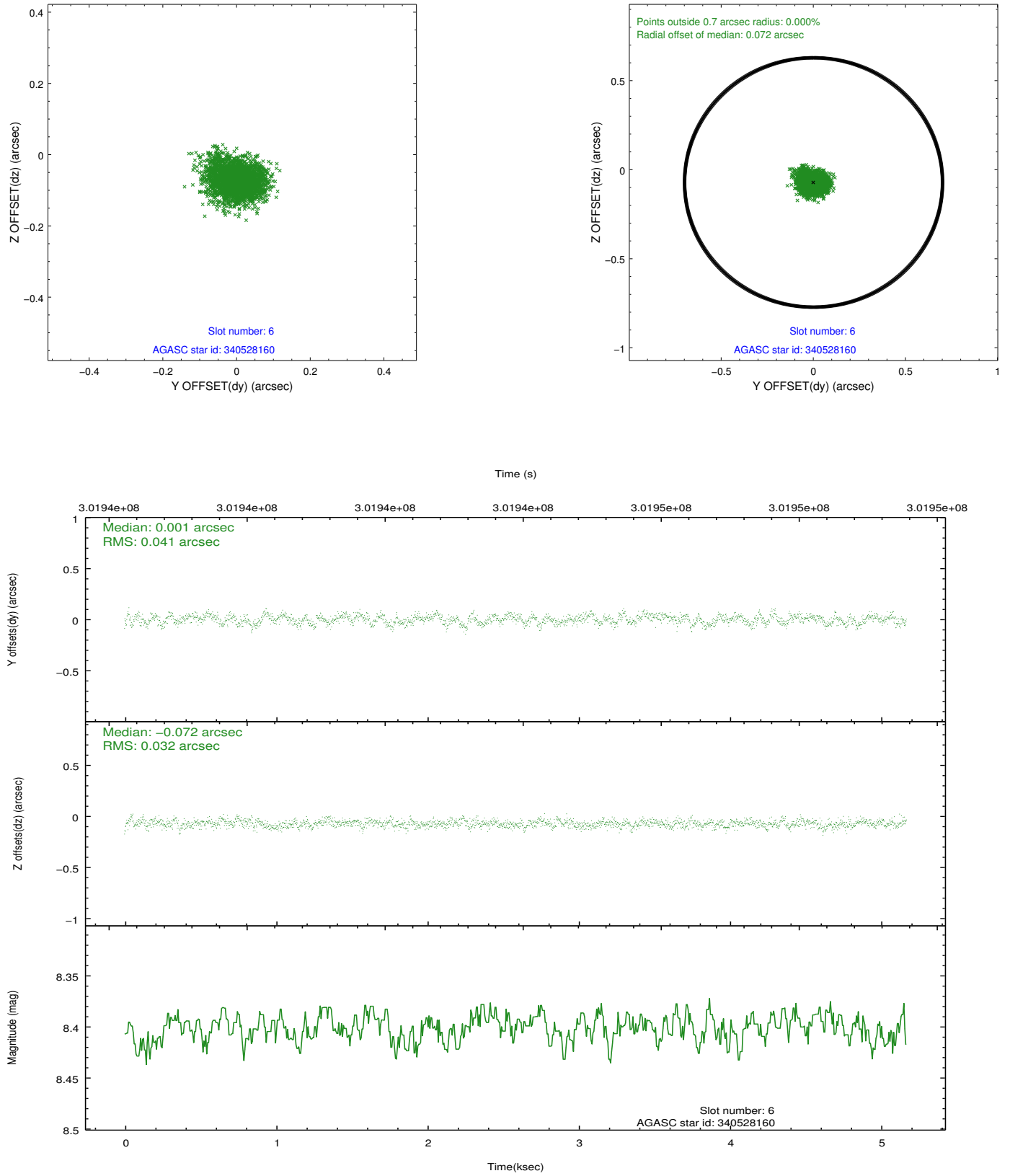
## 2.4.2 Slot 4



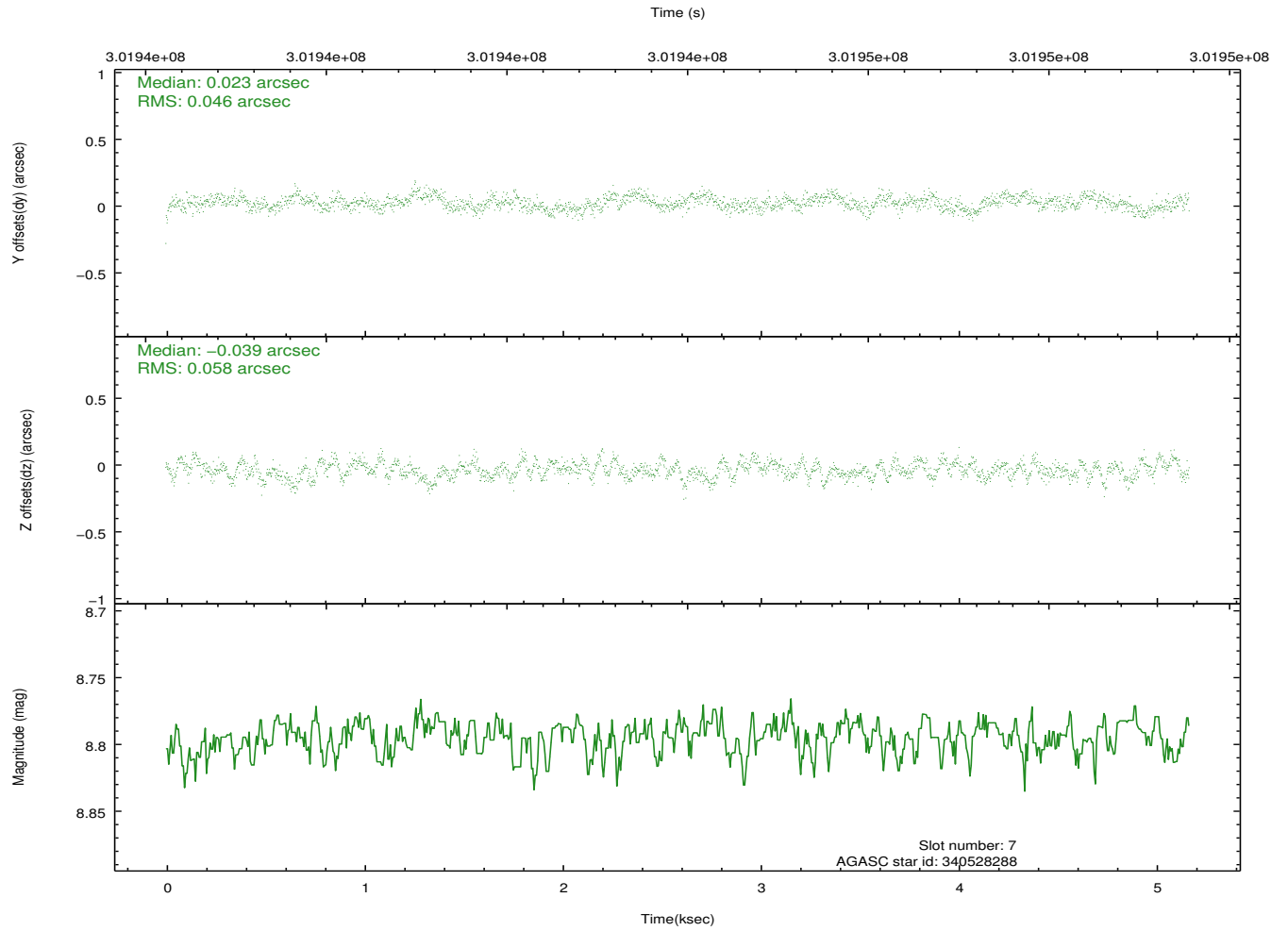
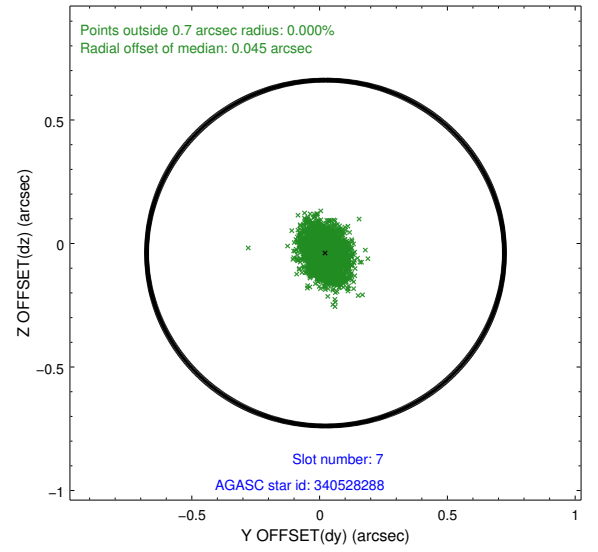
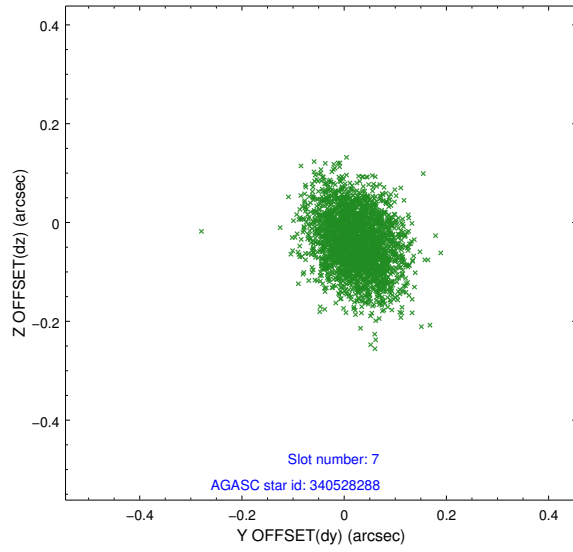
### 2.4.3 Slot 5



## 2.4.4 Slot 6

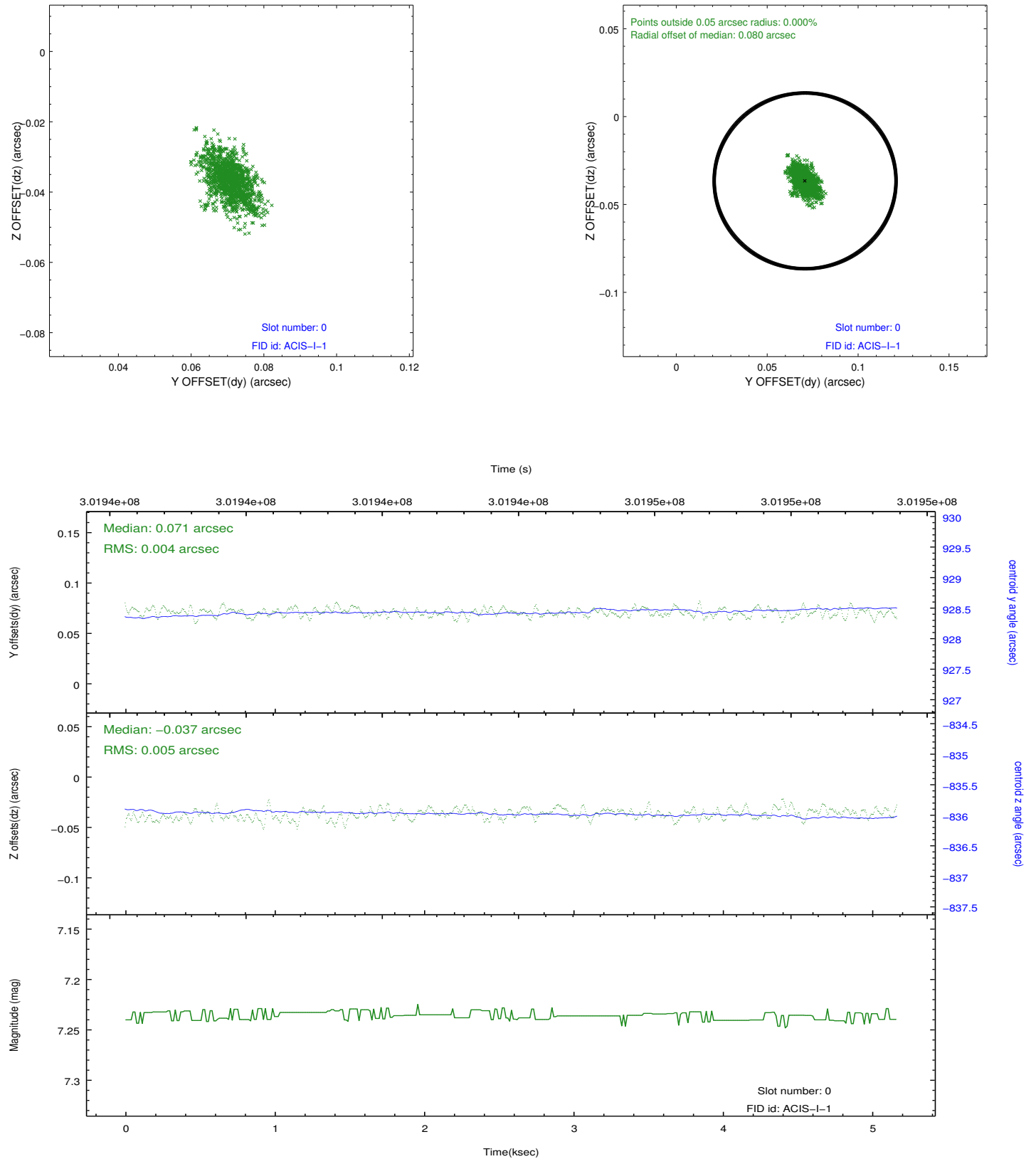


## 2.4.5 Slot 7

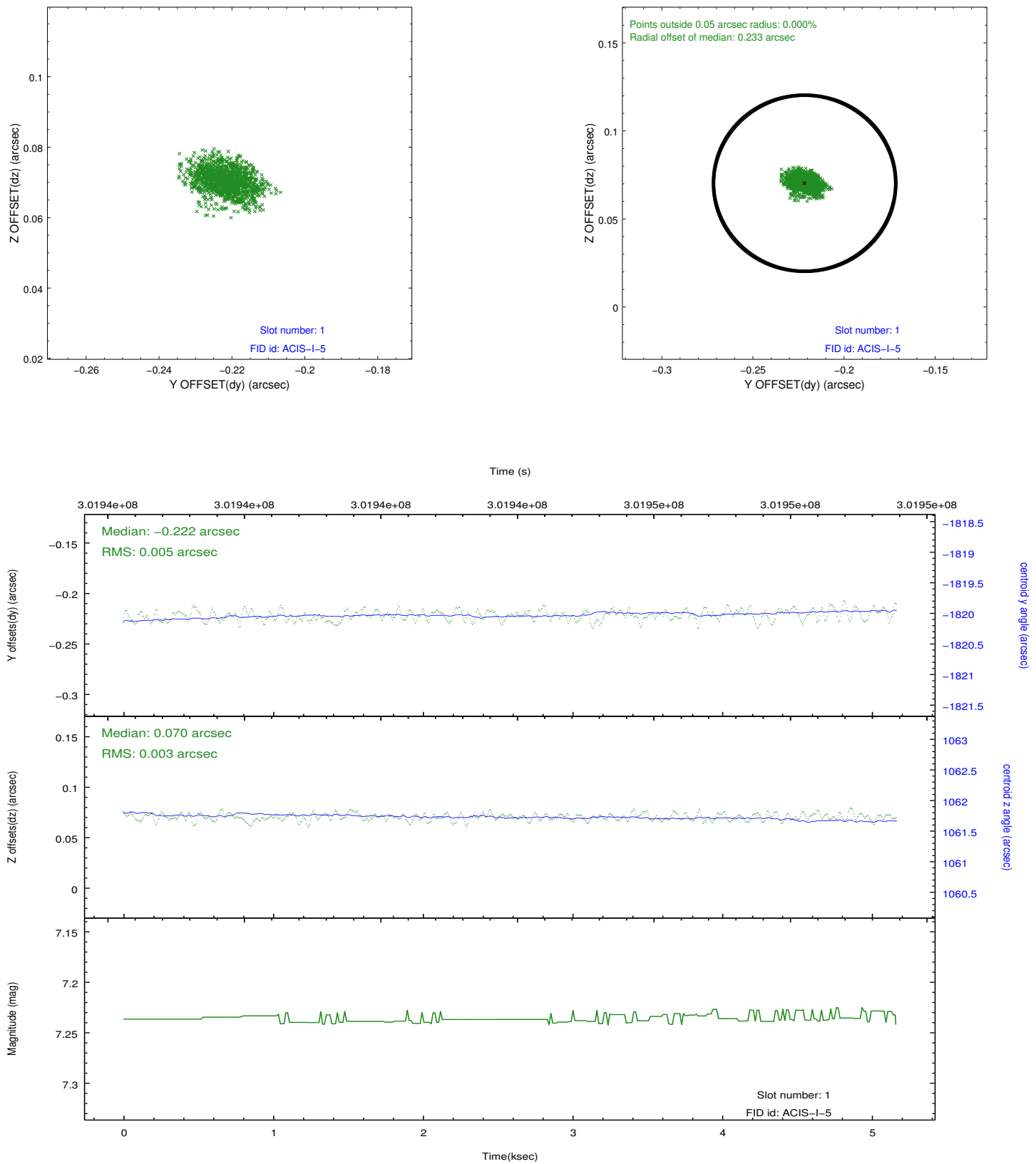


## 2.5 FID Slots

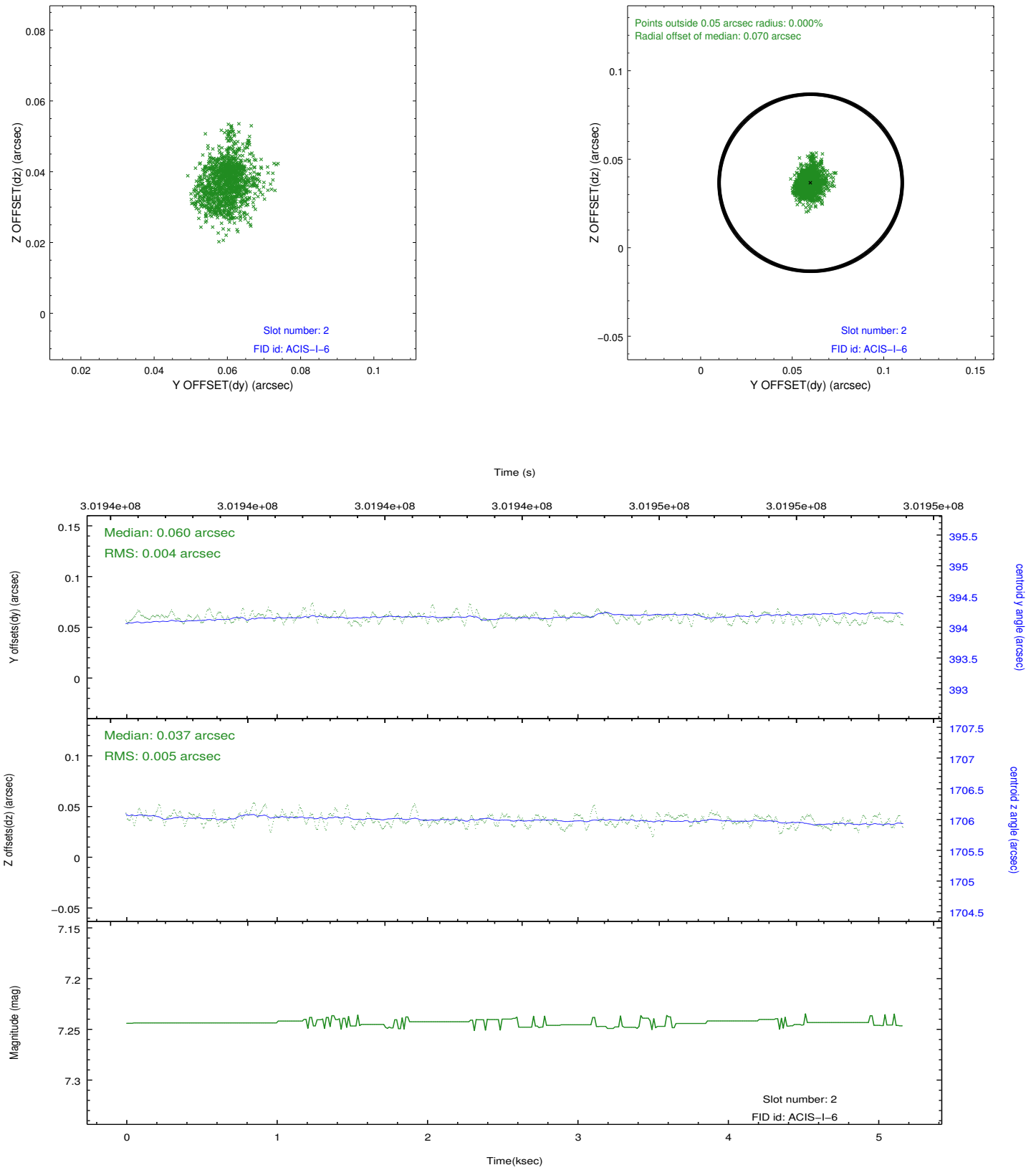
### 2.5.1 Slot 0



## 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)	2012.05.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.16770003

### A.2 Comments