

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3155 - L2 Version 3  
Chandra X-Ray Center

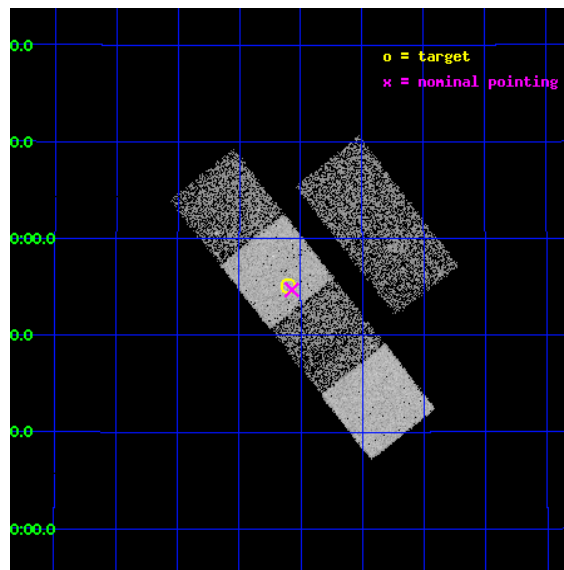
L2 Processing Date : Oct 3 2012

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# 1 Front

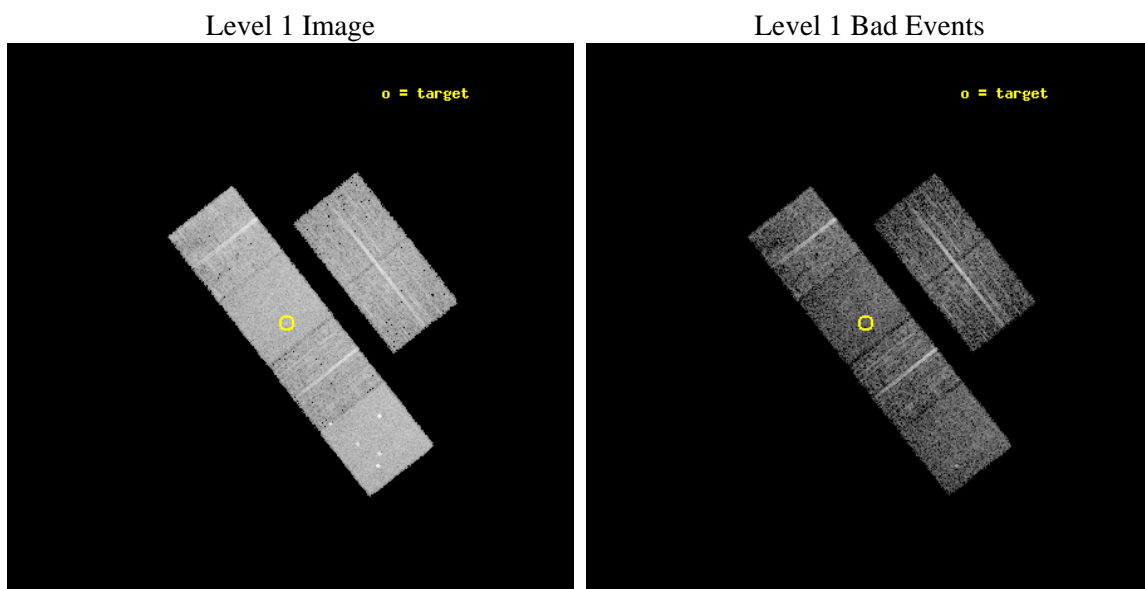
seq_num	700594	Sequence number
obs_id	3155	Observation id
title	A CHANDRA SURVEY OF THE MOST LUMINOUS QUASARS AT $Z > 4$	Proposal ti
observer	Professor Gordon Garmire	Principal investigator
object	PSS0926+3055	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	141.65125	Observer's specified target RA [deg]
dec_targ	30.918333	Observer's specified target Dec [deg]
ra_nom	141.64292681328	Nominal RA [deg]
dec_nom	30.911934741096	Nominal Dec [deg]
roll_nom	231.80308082756	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5356.800004974	Sum of GTIs [s]
livetime	5288.9689778333	Livetime [s]
ontime2	5356.800004974	Sum of GTIs [s]
ontime3	5356.800004974	Sum of GTIs [s]
ontime5	5356.800004974	Sum of GTIs [s]
ontime6	5356.800004974	Sum of GTIs [s]
ontime7	5356.800004974	Sum of GTIs [s]
ontime8	5356.800004974	Sum of GTIs [s]
l2events	56265	Number of level 2 events



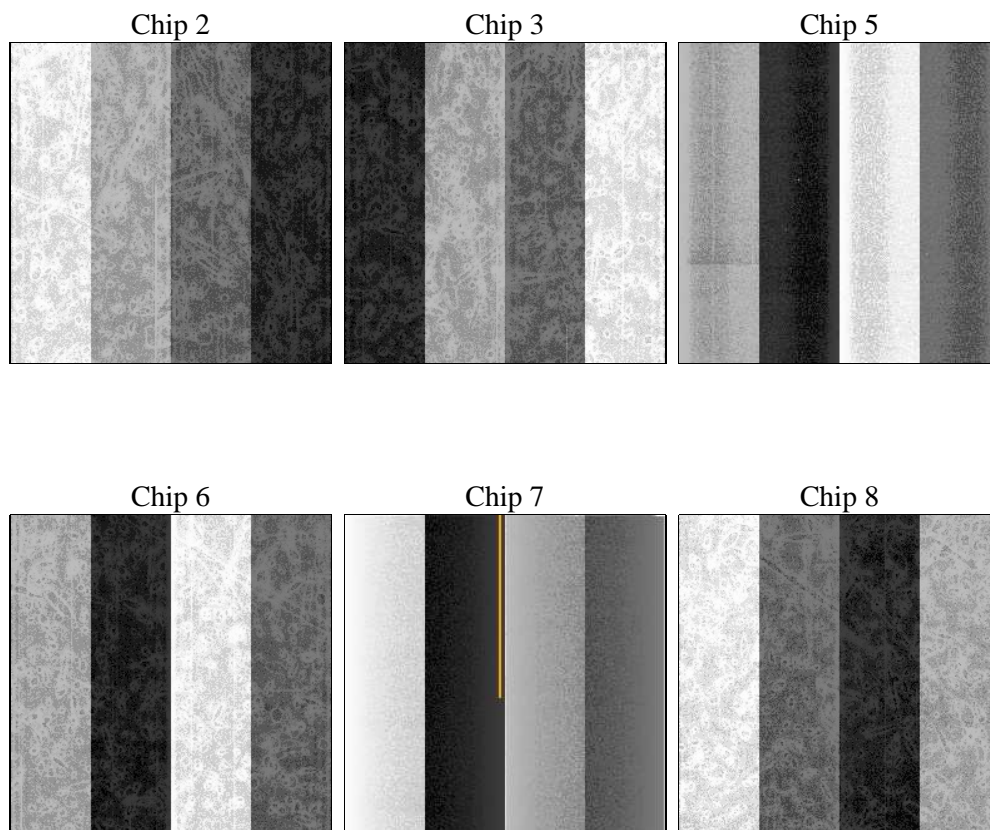
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5356.800004974	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	5356.800004974	Sum of GTIs [s]
date	2012-10-03T19:49:36	Date and time of file creation	ontime3	5356.800004974	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5356.800004974	Sum of GTIs [s]
			ontime6	5356.800004974	Sum of GTIs [s]
			ontime7	5356.800004974	Sum of GTIs [s]
			ontime8	5356.800004974	Sum of GTIs [s]
			l1events	252330	Number of level 1 events

### 2.1.4 Events

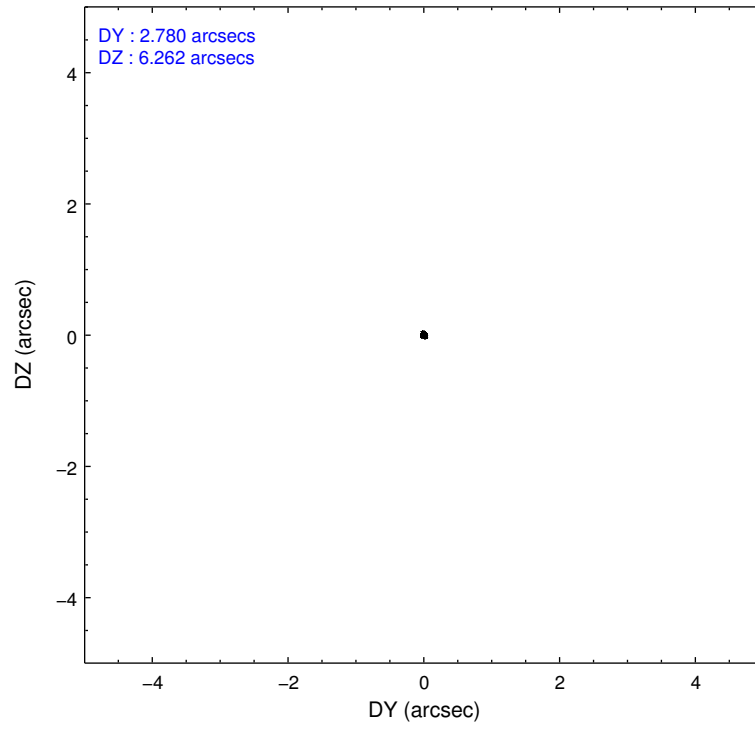
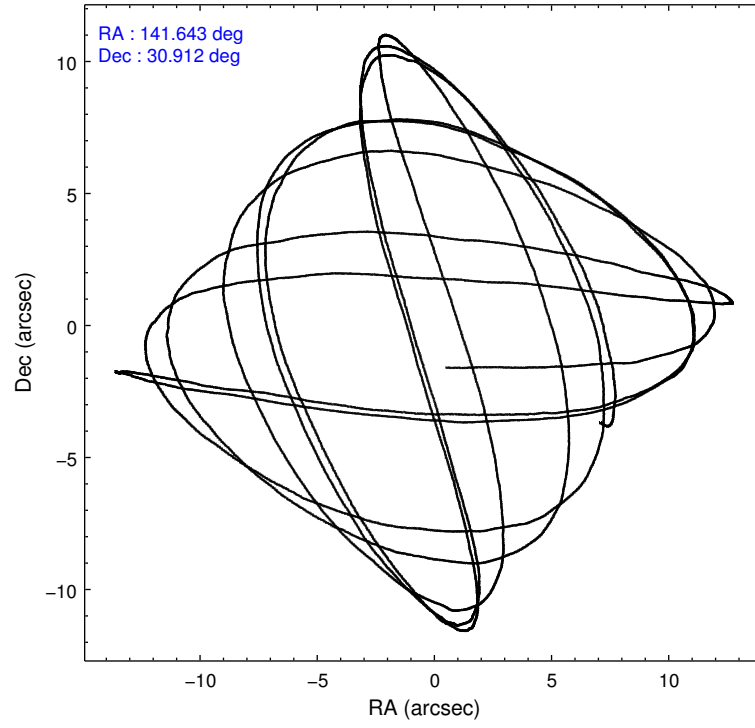
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	36283	33613	52703	36908	46800	46023	grade 0 events	1884	1728	3384	1738	1869	3162
rejected events	31987	29532	27826	32525	27336	36431		5%	5%	6%	4%	3%	6%
rejected %	88%	87%	52%	88%	58%	79%	grade 1 events	25	12	60	18	58	26
								0%	0%	0%	0%	0%	0%
							grade 2 events	937	820	7285	948	3794	2011
								2%	2%	13%	2%	8%	4%
							grade 3 events	394	368	1033	433	1751	1012
								1%	1%	1%	1%	3%	2%
							grade 4 events	344	381	955	435	1764	975
								0%	1%	1%	1%	3%	2%
							grade 5 events	1301	1357	3861	1499	4534	2015
								3%	4%	7%	4%	9%	4%
							grade 6 events	743	790	12256	833	10315	2439
								2%	2%	23%	2%	22%	5%
							grade 7 events	30655	28157	23869	31004	22715	34383
								84%	83%	45%	84%	48%	74%

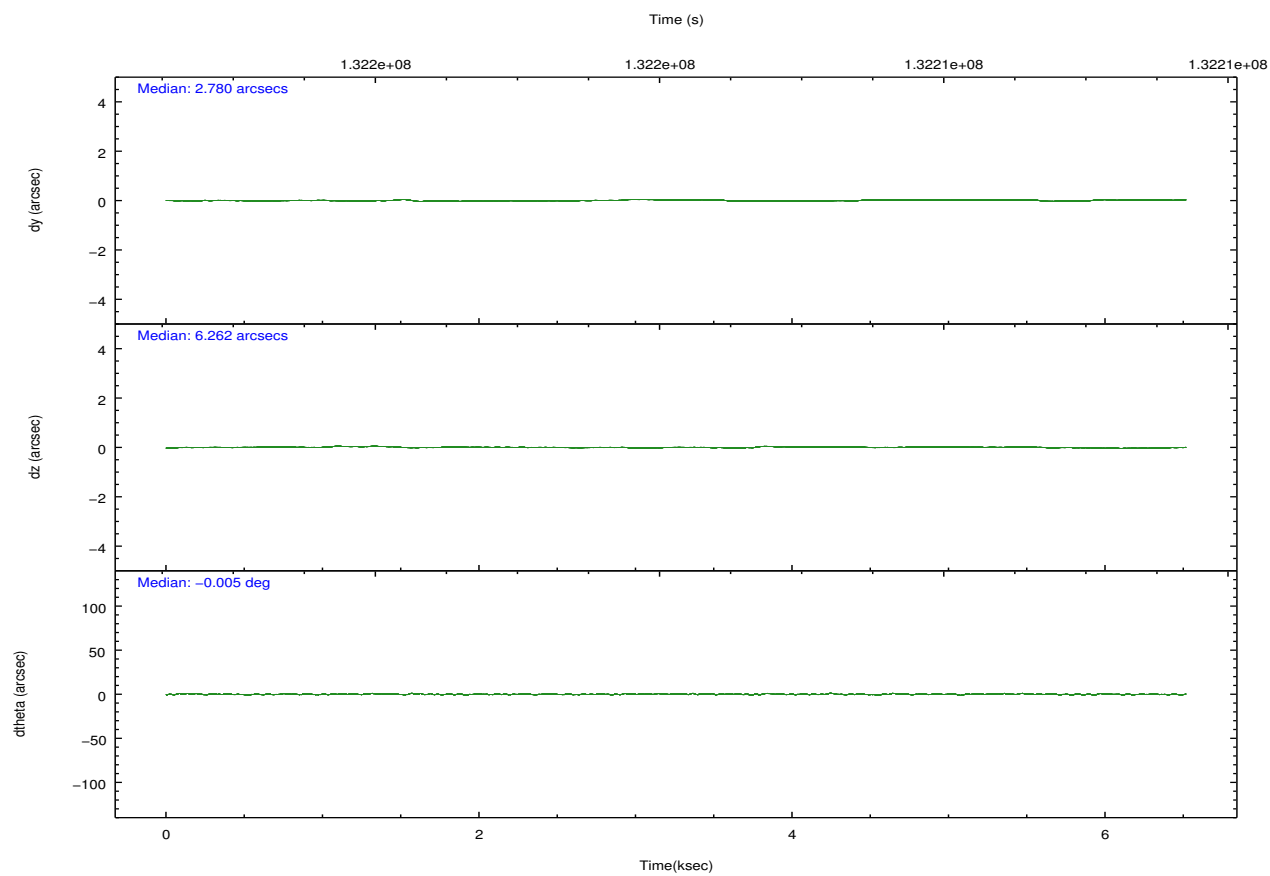
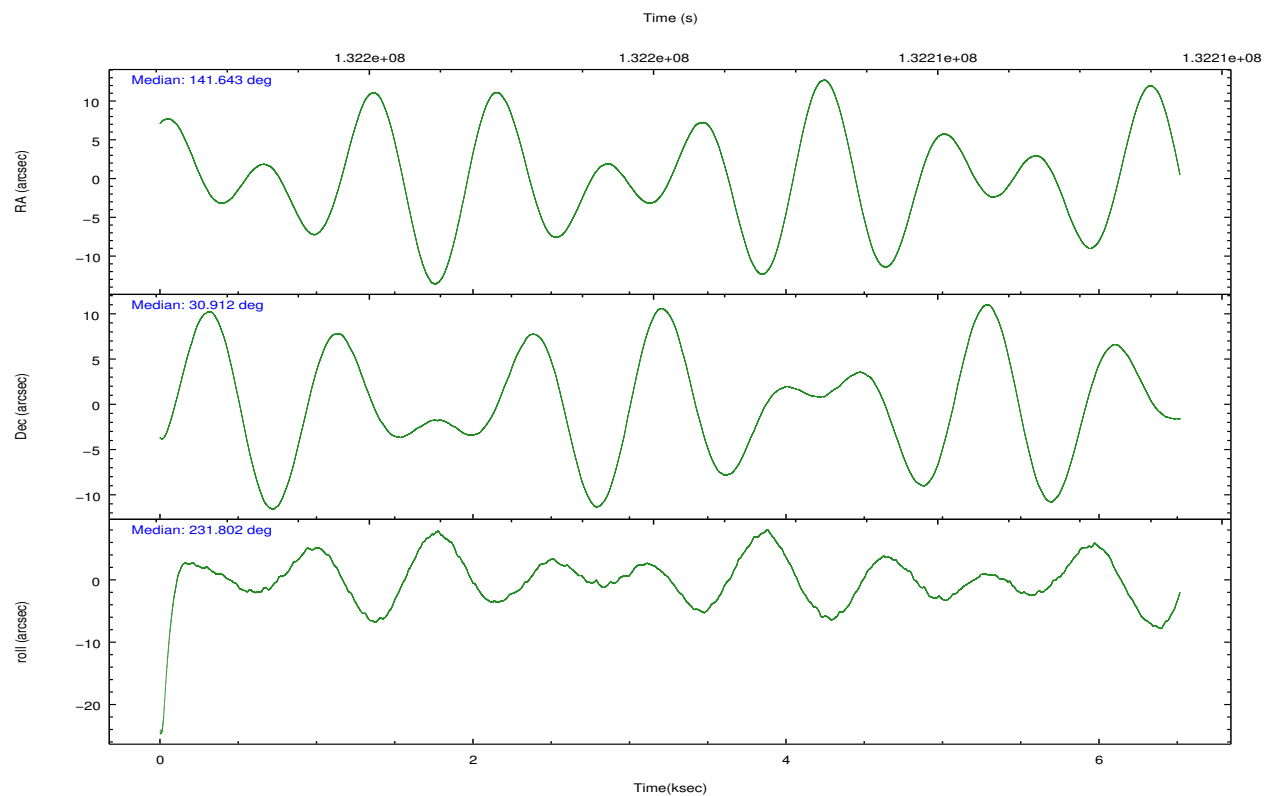


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	141.646938	141.6429268132762	Subarray requested	NONE	NONE
[deg] Pointing Dec	30.938898	30.91193474109626	Alternating exposures requested	N	N
[deg] Pointing Roll	231.644427	231.8030808275608	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	132201974.184000	132200551.84008			
Observation start date	2002-03-11T02:45:10	2002-03-11T02:22:31			
[s] Observation end time (MET)	132207374.184000	132207892.89037			
Observation end date	2002-03-11T04:15:10	2002-03-11T04:24:52			
Read mode	TIMED	TIMED			

## 2.3 Aspect



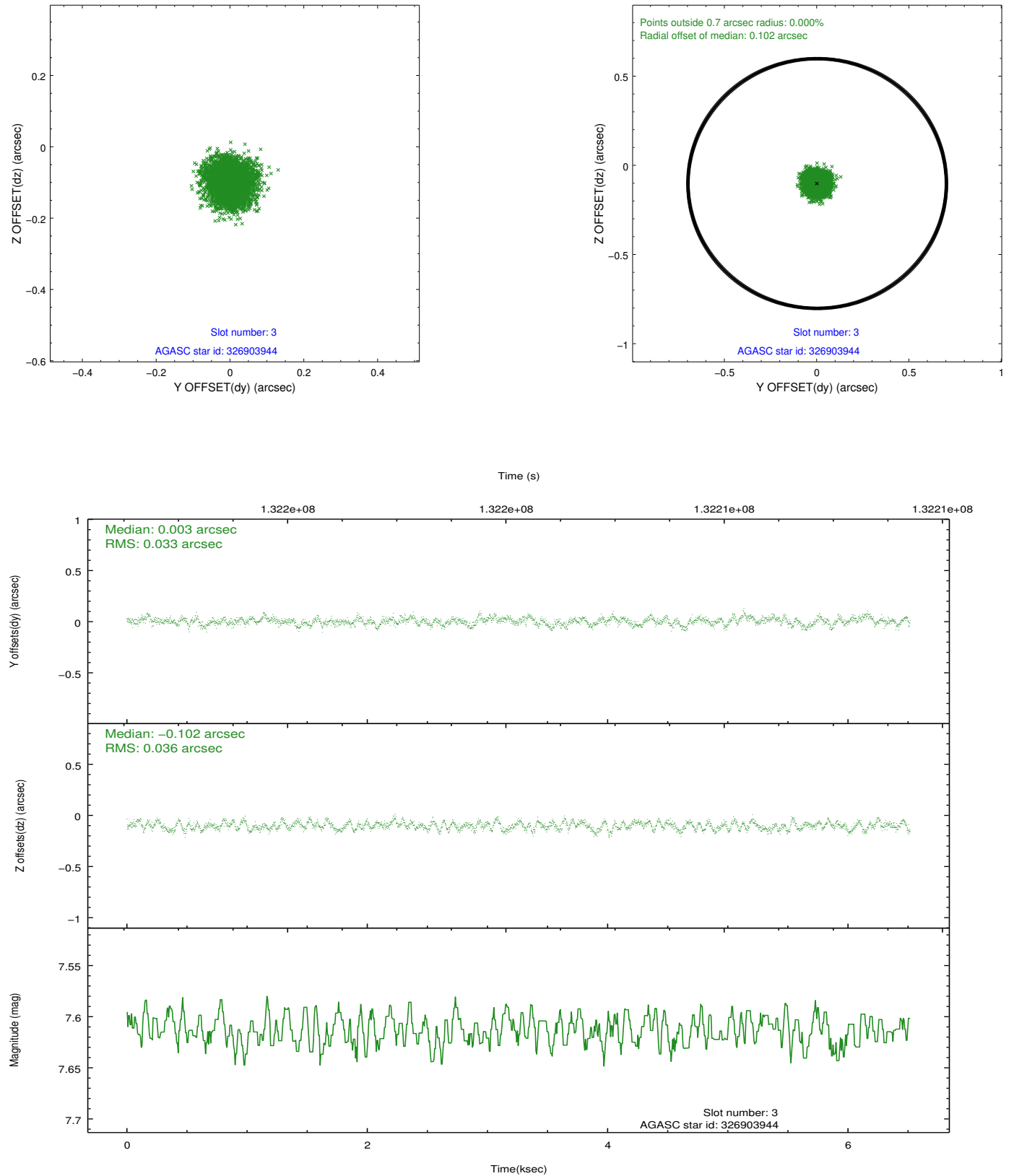


### Slot Statistics

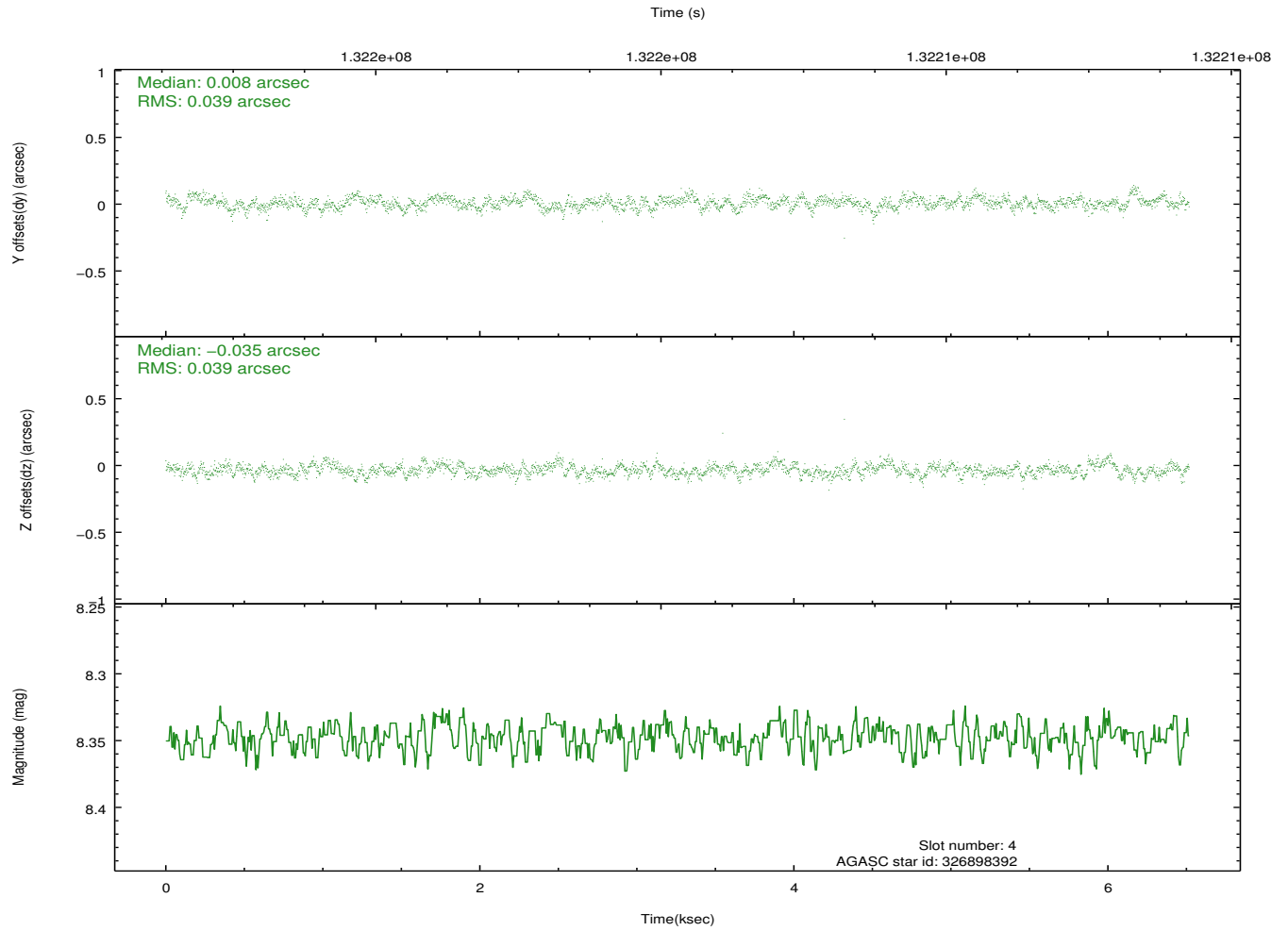
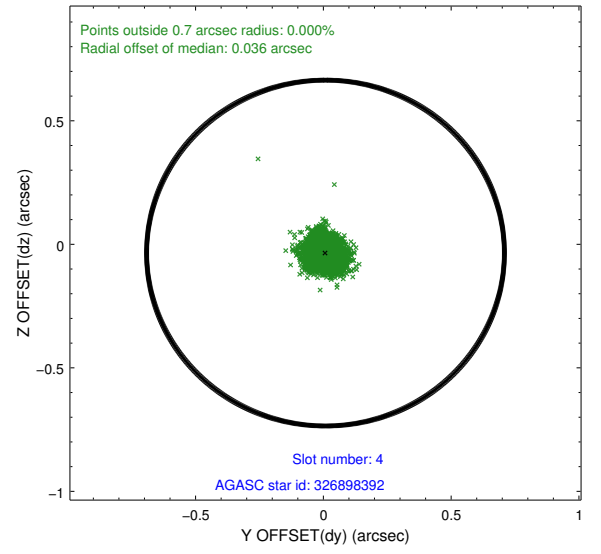
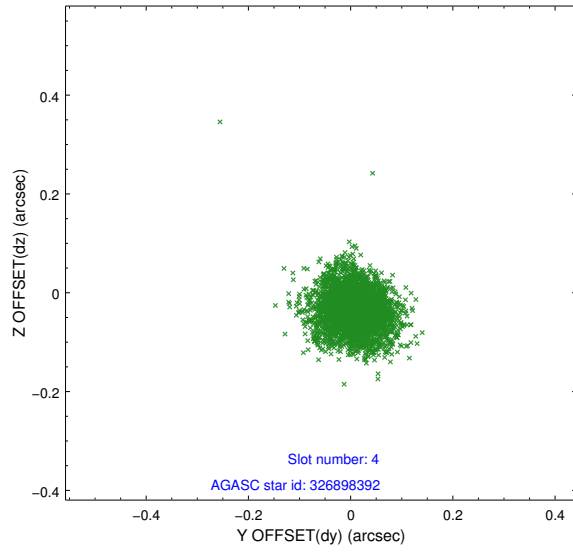
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1589	-0.031	0.013	0.007	0.011	0.000000	0.000000	-755.41	-1727.36
1	FID	ACIS-S-4	7.20	1590	-0.028	0.012	0.006	0.010	0.000000	0.000000	2157.42	180.26
2	FID	ACIS-S-5	7.24	1590	0.028	-0.016	0.007	0.011	0.000000	0.000000	-1807.08	174.84
3	GUIDE	326903944	7.61	3180	0.003	-0.102	0.053	0.082	141.372366	30.493208	1786.87	327.20
4	GUIDE	326898392	8.35	3179	0.008	-0.035	0.058	0.095	141.640946	31.182886	-676.04	-559.57
5	GUIDE	326894960	8.95	3180	0.060	0.124	0.069	0.113	141.736989	30.296358	1640.75	1654.73
6	GUIDE	326901944	9.41	3180	0.026	-0.053	0.089	0.145	141.495586	31.315890	-774.38	-1207.17
7	GUIDE	326897688	9.48	3177	-0.097	0.067	0.109	0.171	142.494853	31.202172	-2370.87	1452.56

## 2.4 Star Slots

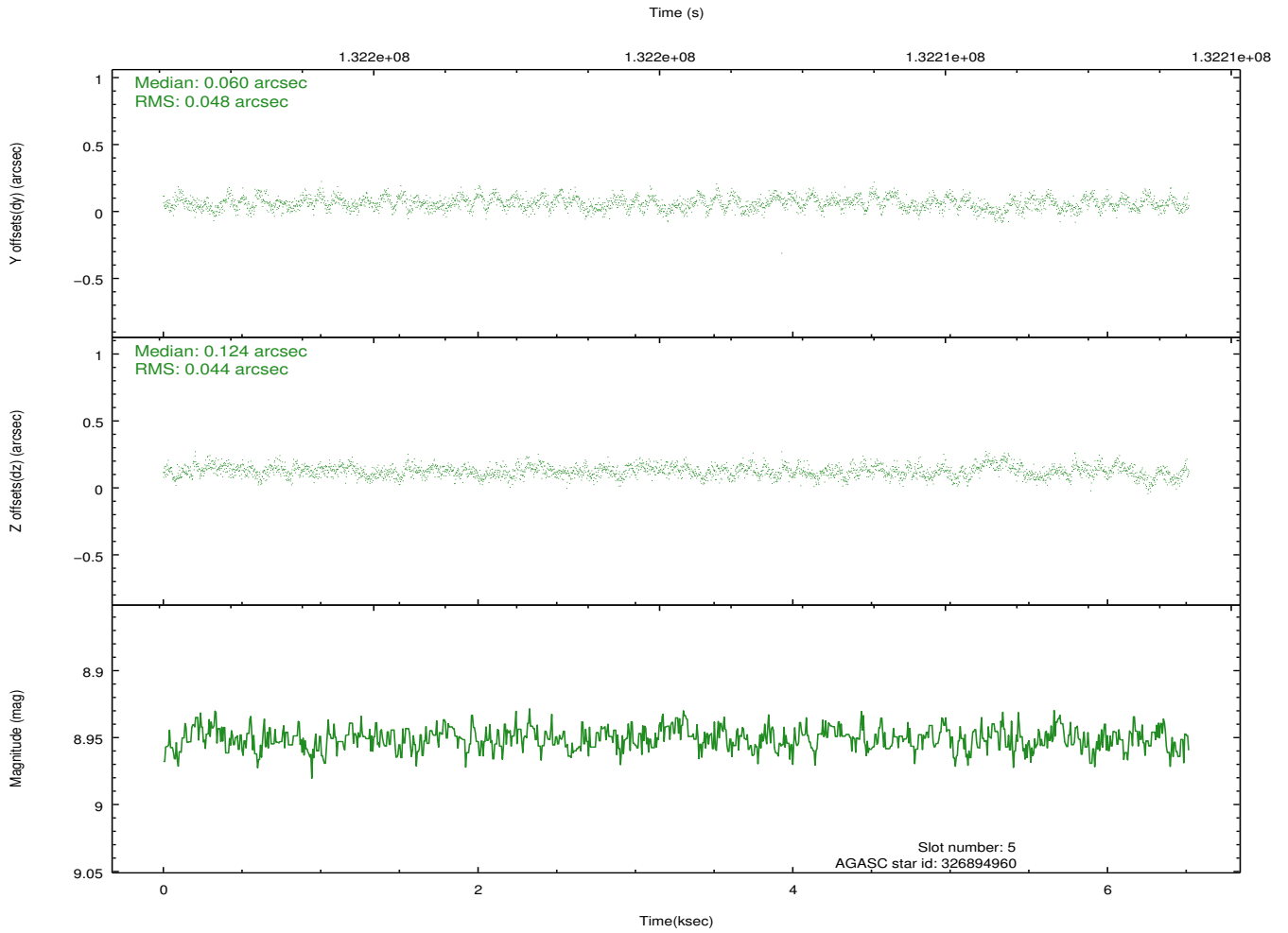
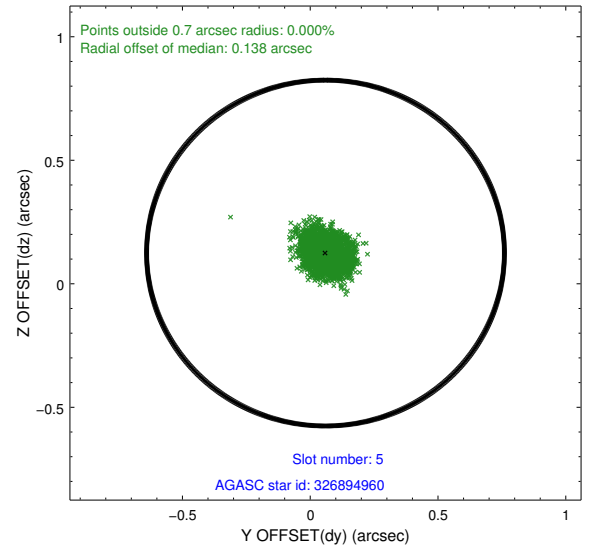
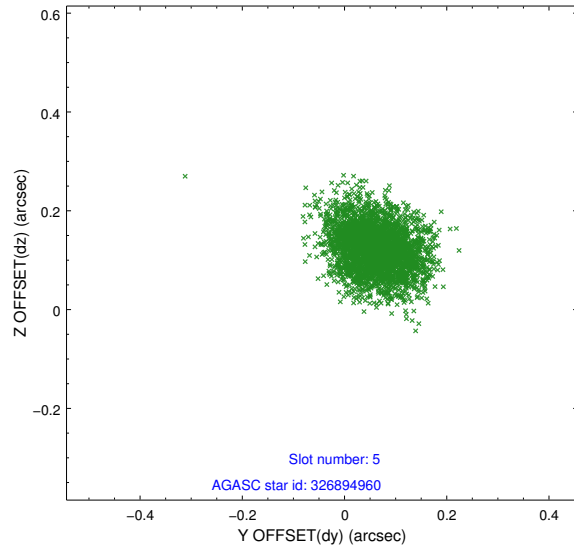
### 2.4.1 Slot 3



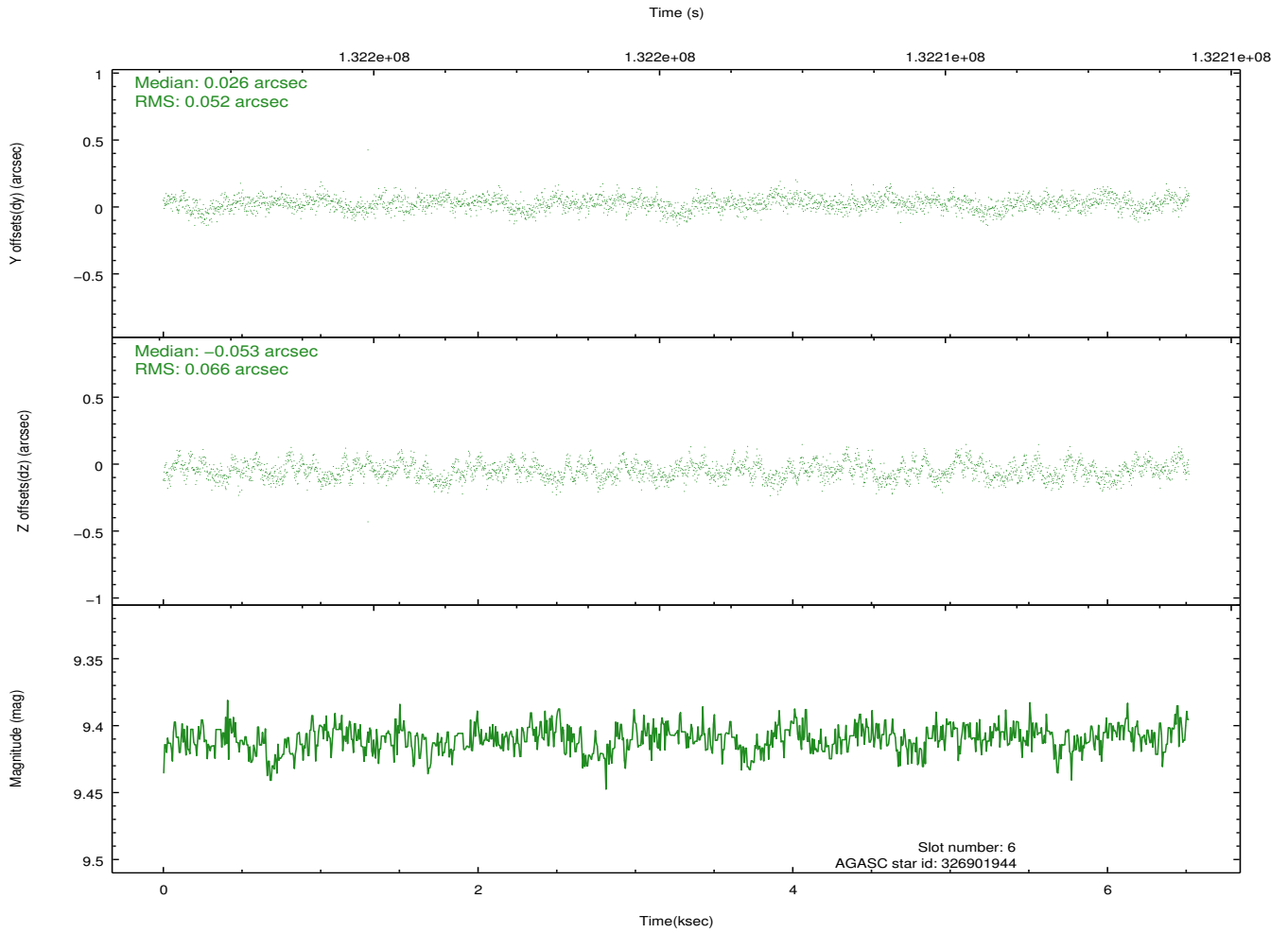
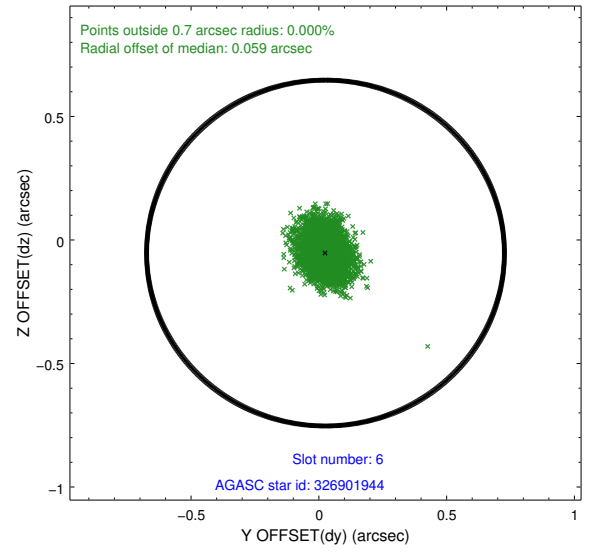
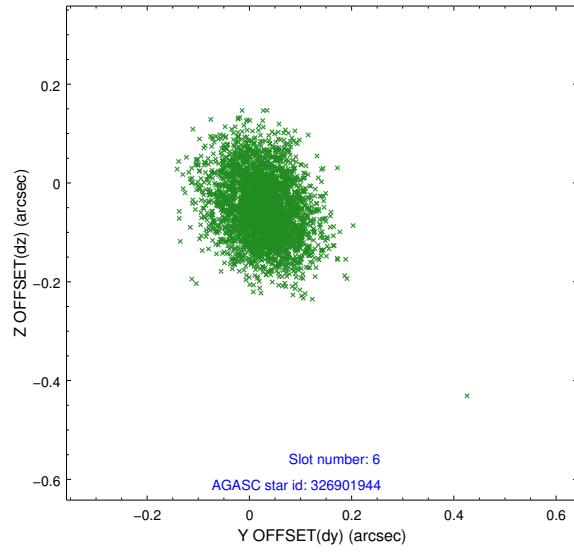
## 2.4.2 Slot 4



### 2.4.3 Slot 5

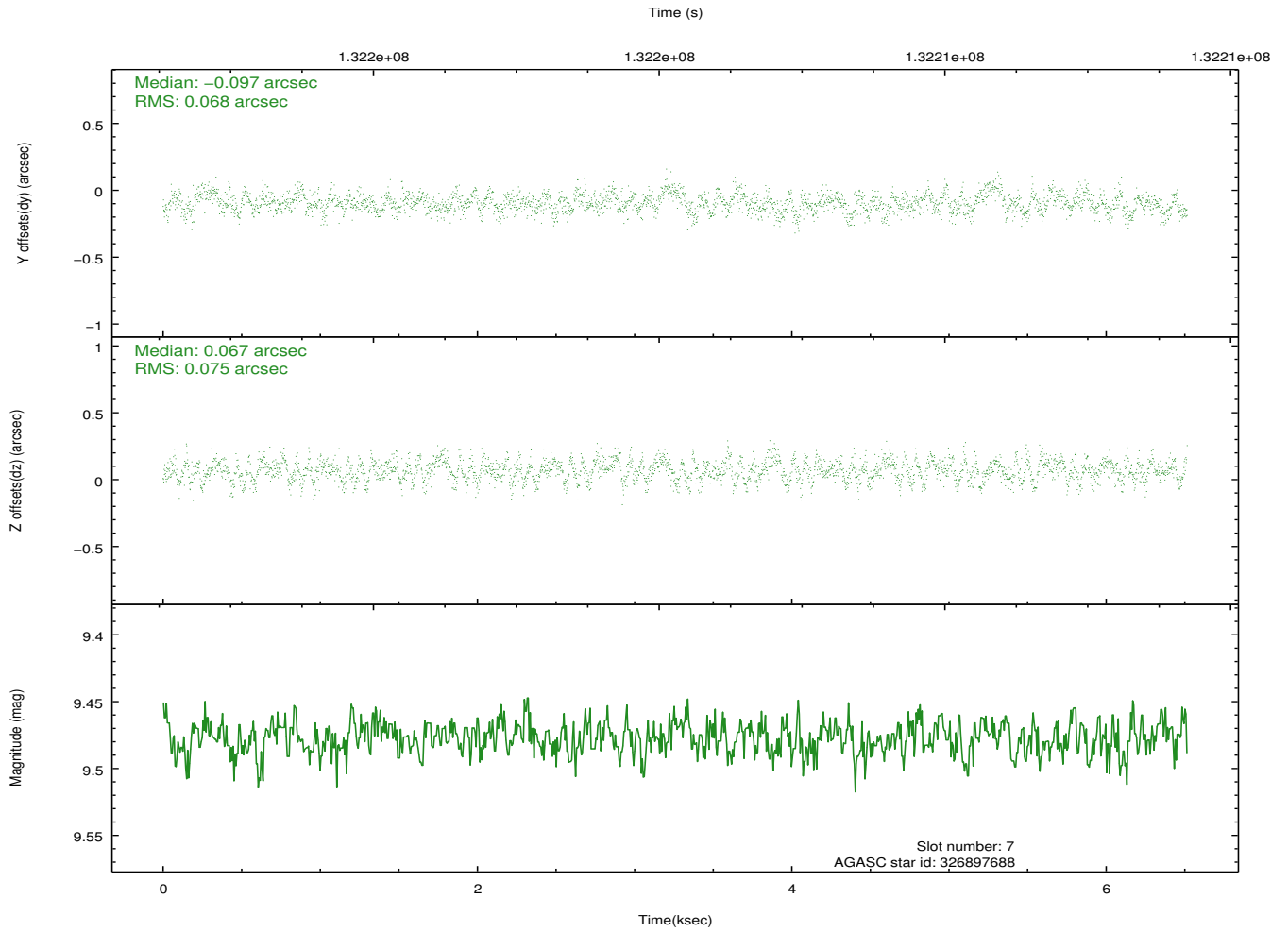
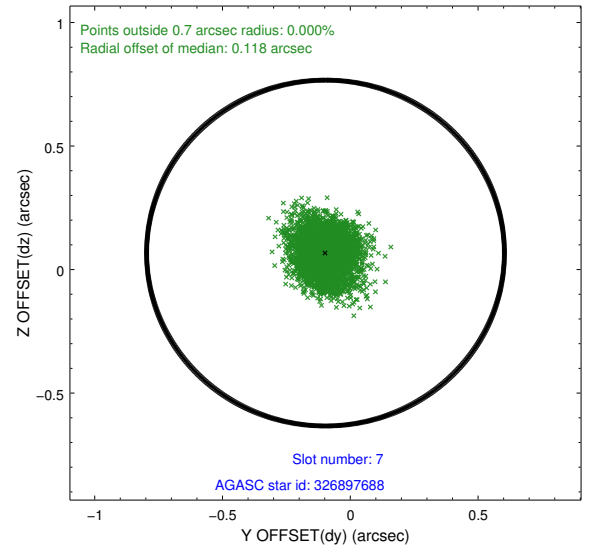
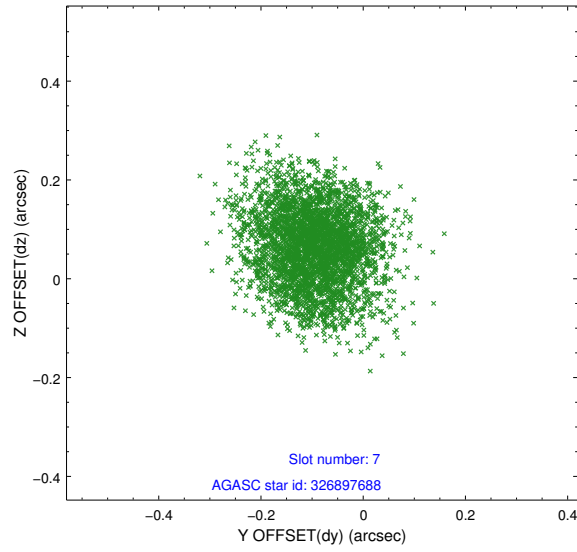


## 2.4.4 Slot 6



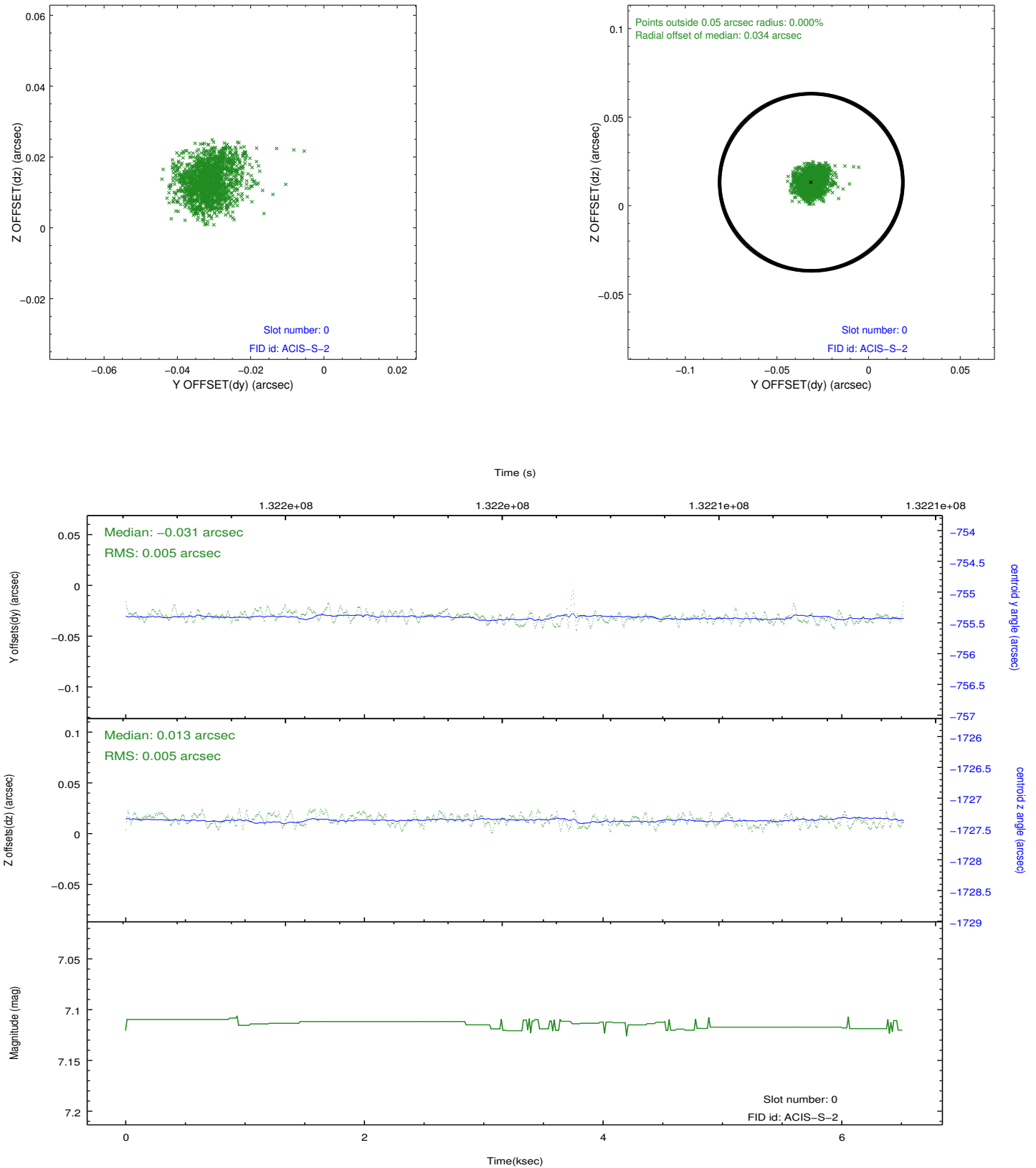


## 2.4.5 Slot 7

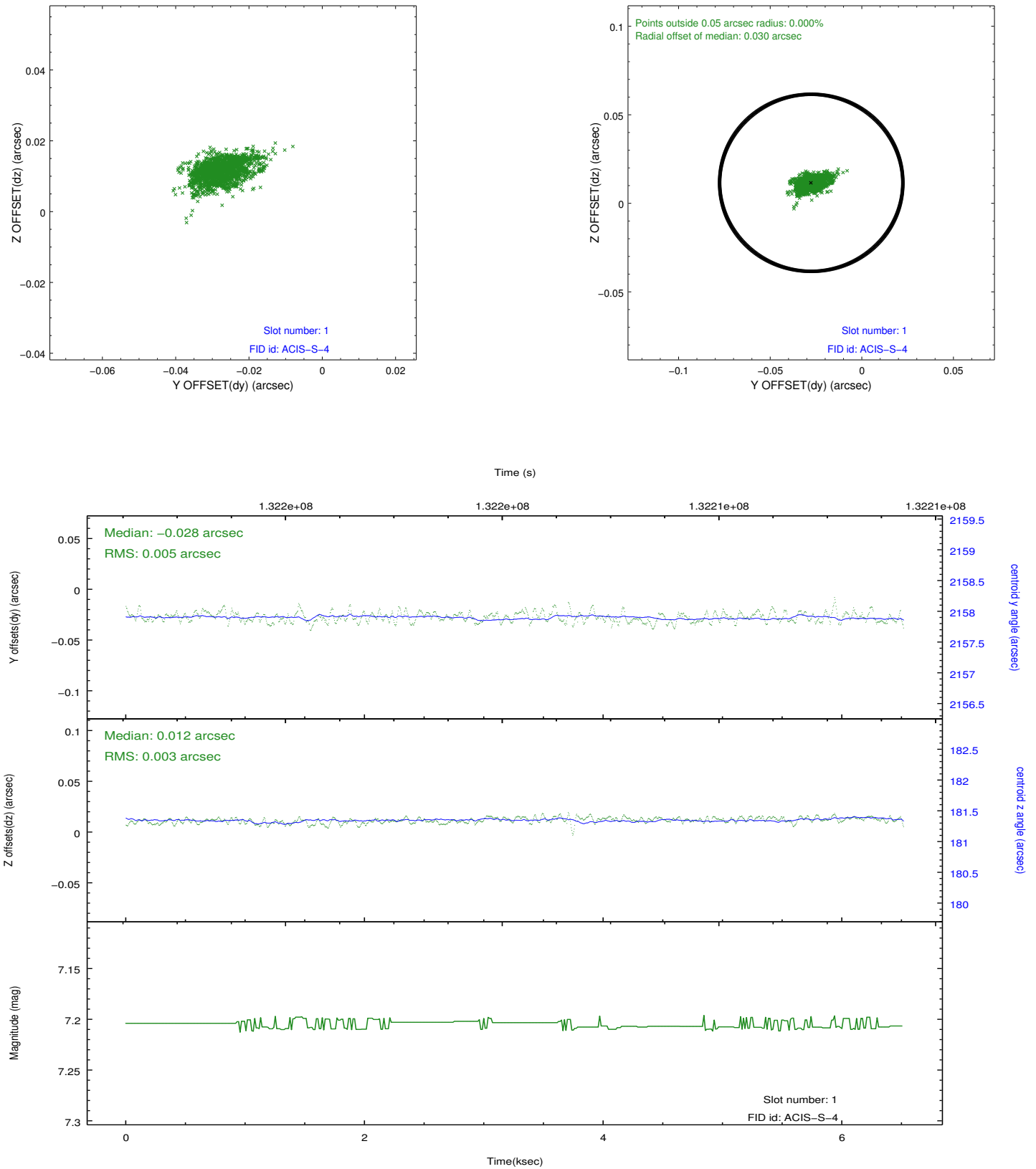


## 2.5 FID Slots

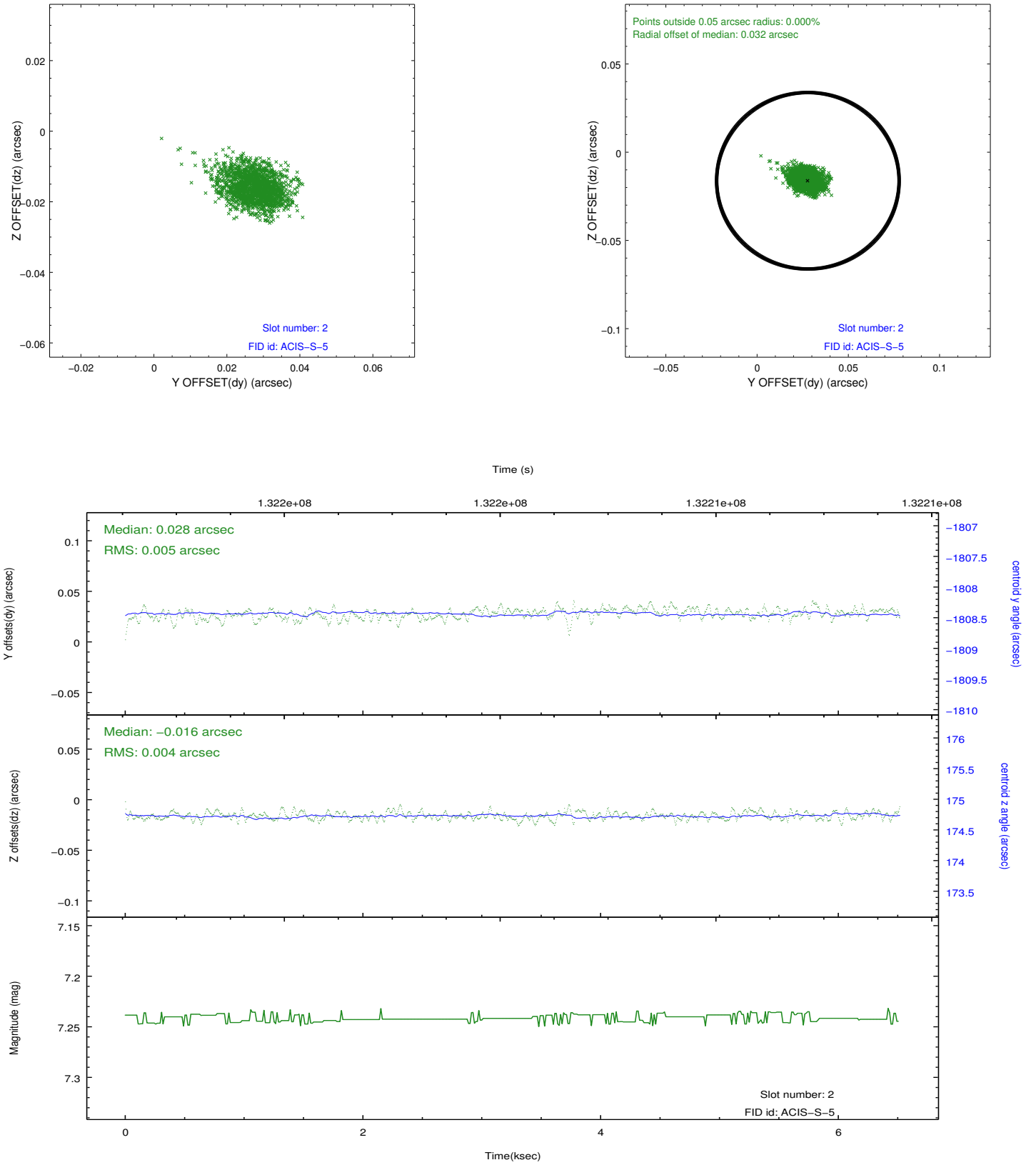
### 2.5.1 Slot 0



## 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)	2012.10.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.36

### A.2 Comments