

# V&V Reference Report

## L2 ASCDS Version : 7.6.10

Observation 530 - L2 Version 001  
Chandra X-Ray Center

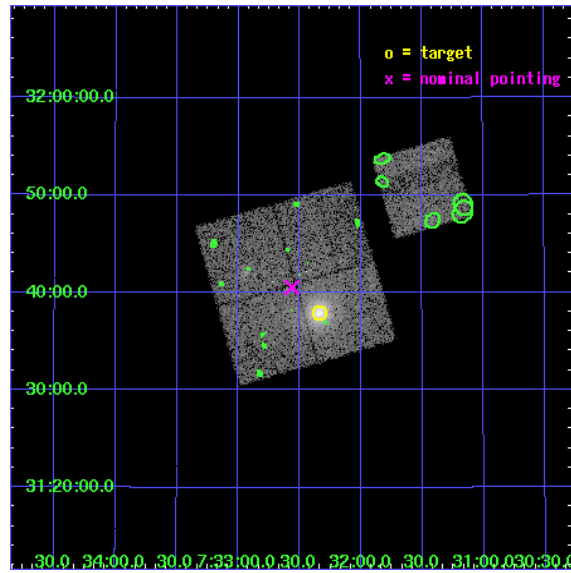
L2 Processing Date : Jun 6 2007

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# 1 Front

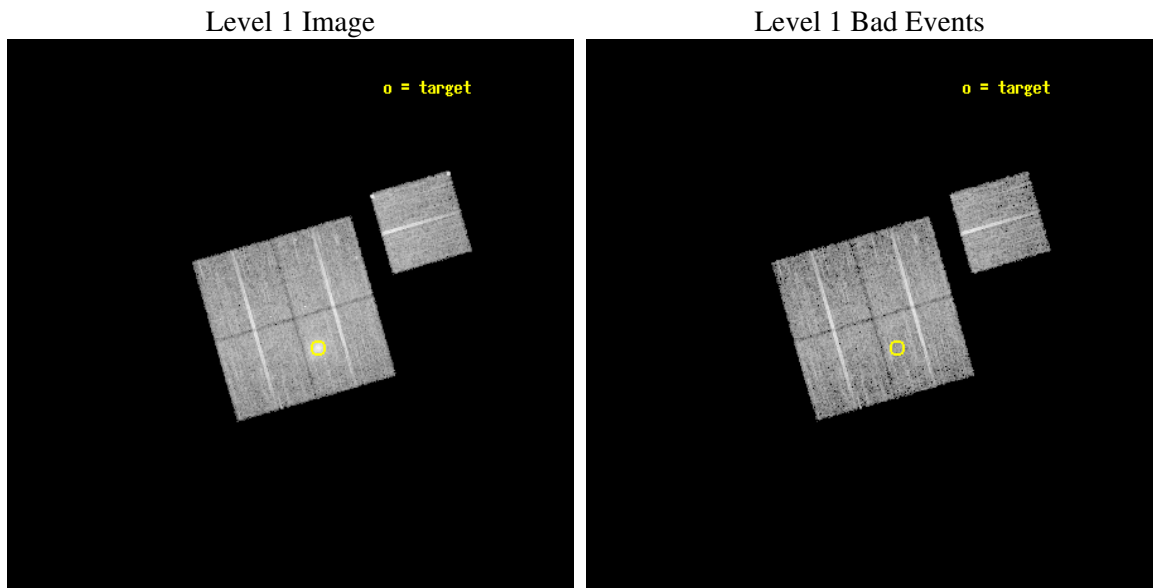
seq_num	800038
obs_id	530
title	DETERMINATION OF H0/Q0
observer	DR. LEON VANSPEYBROECK
object	A586
dtcycle	0
cycle	P
ra_targ	113.083133
dec_targ	31.633403
ra_nom	113.14074755629
dec_nom	31.675857525406
roll_nom	73.93819388835
revision	2
ontime	10172.800009474
livetime	10043.985890429
ontime0	10169.559049249
ontime1	10172.800009474
ontime2	10172.800009474
ontime3	10172.800009474
ontime6	10172.800009474
l2events	52430



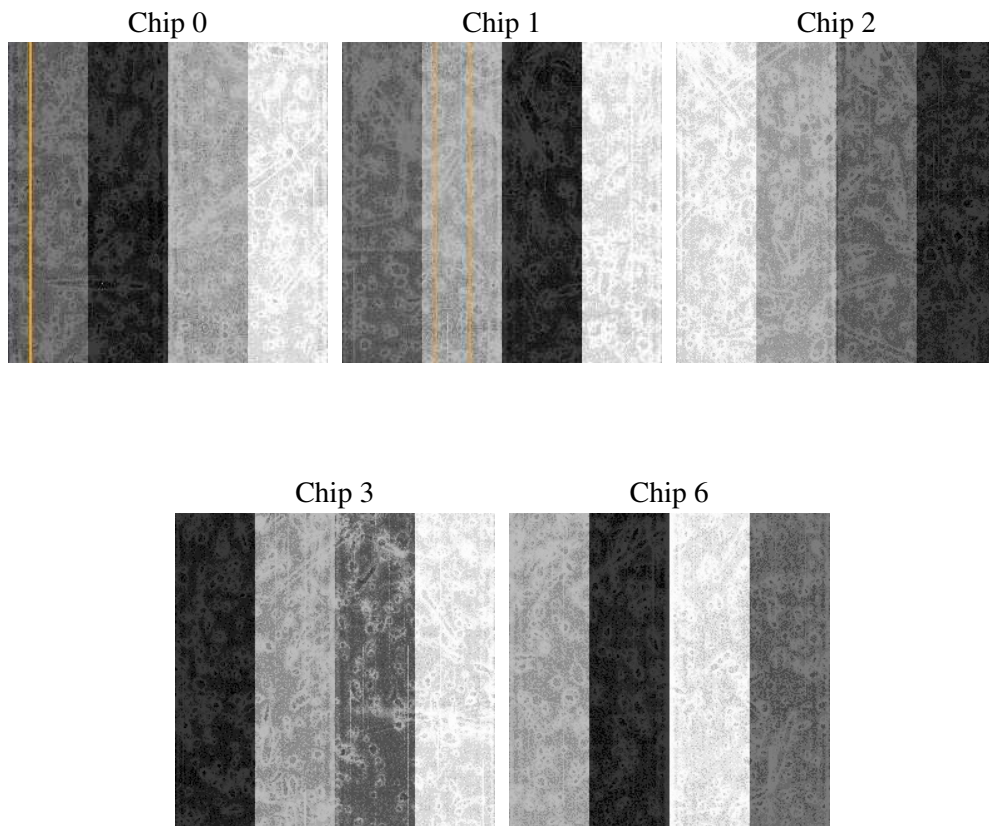
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldbver	3.4.0
date	2007-06-06T18:33:17
revision	2

sched_exp_time	10000.000000
ontime	10172.800009474
ontime0	10169.559049249
ontime1	10172.800009474
ontime2	10172.800009474
ontime3	10172.800009474
ontime6	10172.800009474
llevents	342720

### 2.1.4 Events

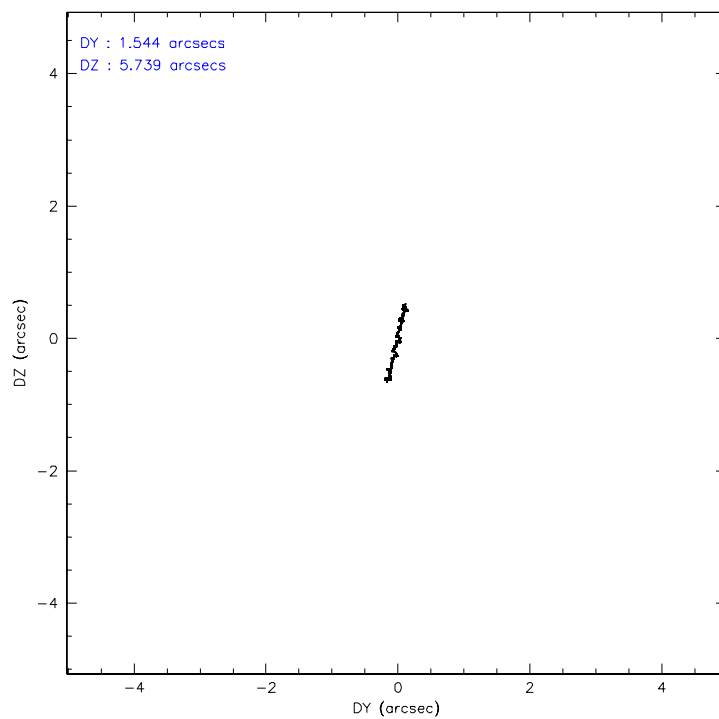
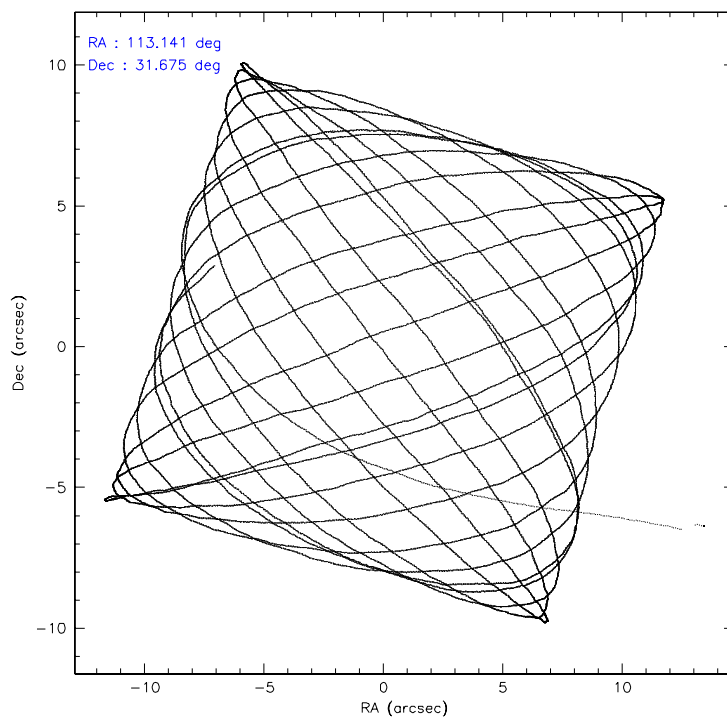
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	62508	65393	68222	77836	68761
rejected events	52314	54570	58394	58741	57897
rejected %	83%	83%	85%	75%	84%

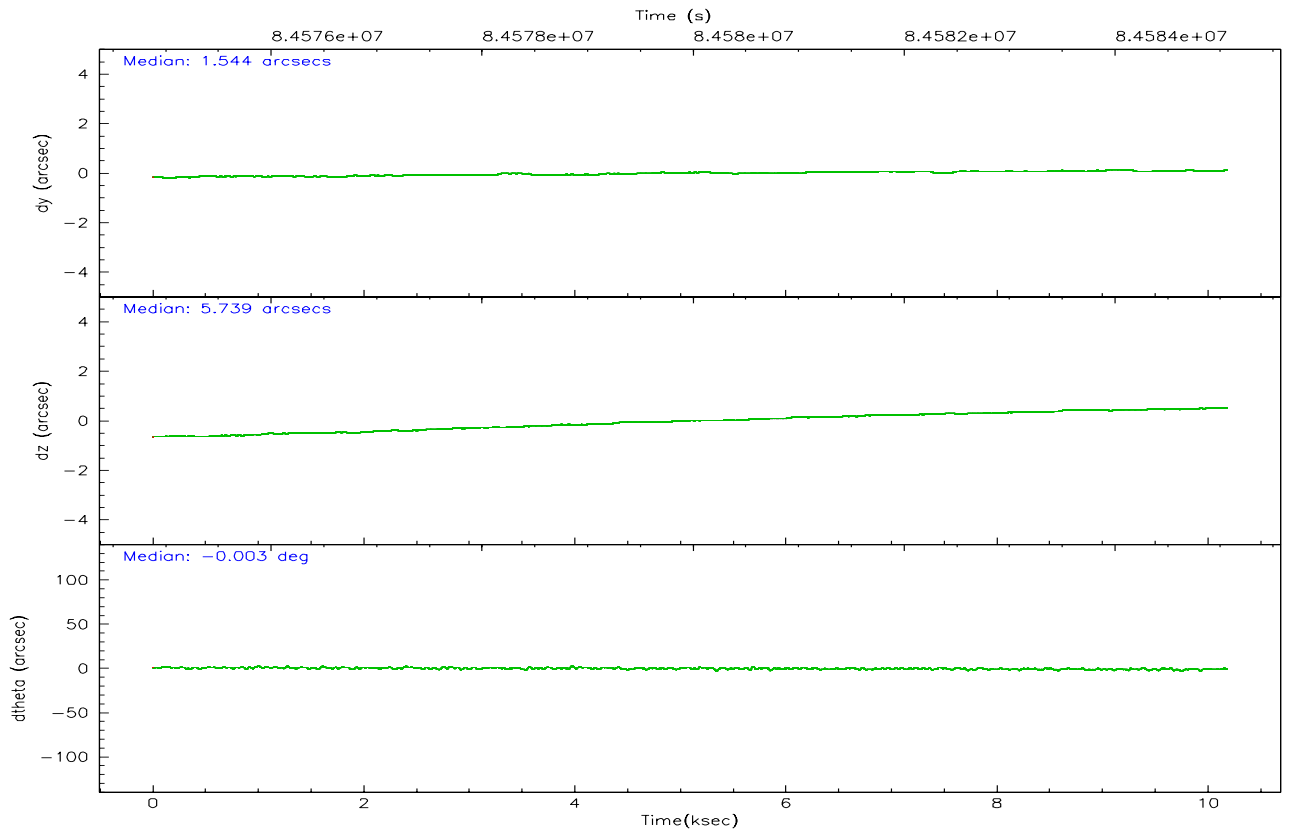
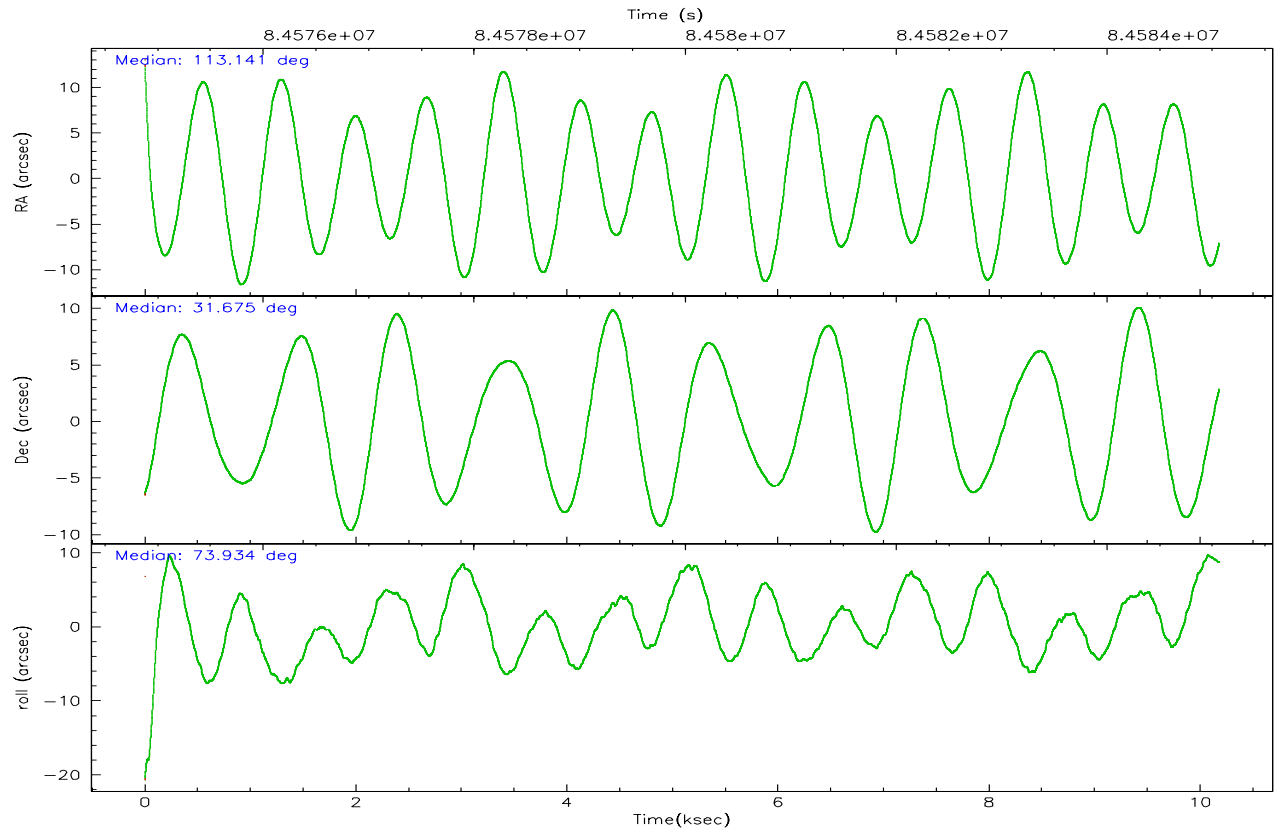
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4851	4956	4613	12124	5557
	7%	7%	6%	15%	8%
grade 1 events	35	36	22	64	55
	0%	0%	0%	0%	0%
grade 2 events	2383	2610	2247	3256	2222
	3%	3%	3%	4%	3%
grade 3 events	778	827	670	1018	719
	1%	1%	0%	1%	1%
grade 4 events	677	817	767	941	761
	1%	1%	1%	1%	1%
grade 5 events	2073	2240	2061	2365	2400
	3%	3%	3%	3%	3%
grade 6 events	1712	1859	1709	2053	1796
	2%	2%	2%	2%	2%
grade 7 events	49999	52048	56133	56015	55251
	79%	79%	82%	71%	80%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
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
Pointing RA	113.148471	113.1407475562879	Subarray requested	NONE	NONE
Pointing Dec	31.649130	31.67585752540592	Alternating exposures requested	N	N
Pointing Roll	73.725470	73.93819388835028	Primary exposure time	3.200000	3.2
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-236.532463	-236.5241547330508			
SIM translation stage offset (mm)	2.94	2.931701730121091			
Observation start time	84575063.184000	84573963.929882			
Observation start date	2000-09-05T21:03:19	2000-09-05T20:46:03			
Observation end time	84585063.184000	84585793.96782599			
Observation end date	2000-09-05T23:49:59	2000-09-06T00:03:13			
Read mode	TIMED	TIMED			

## 2.3 Aspect





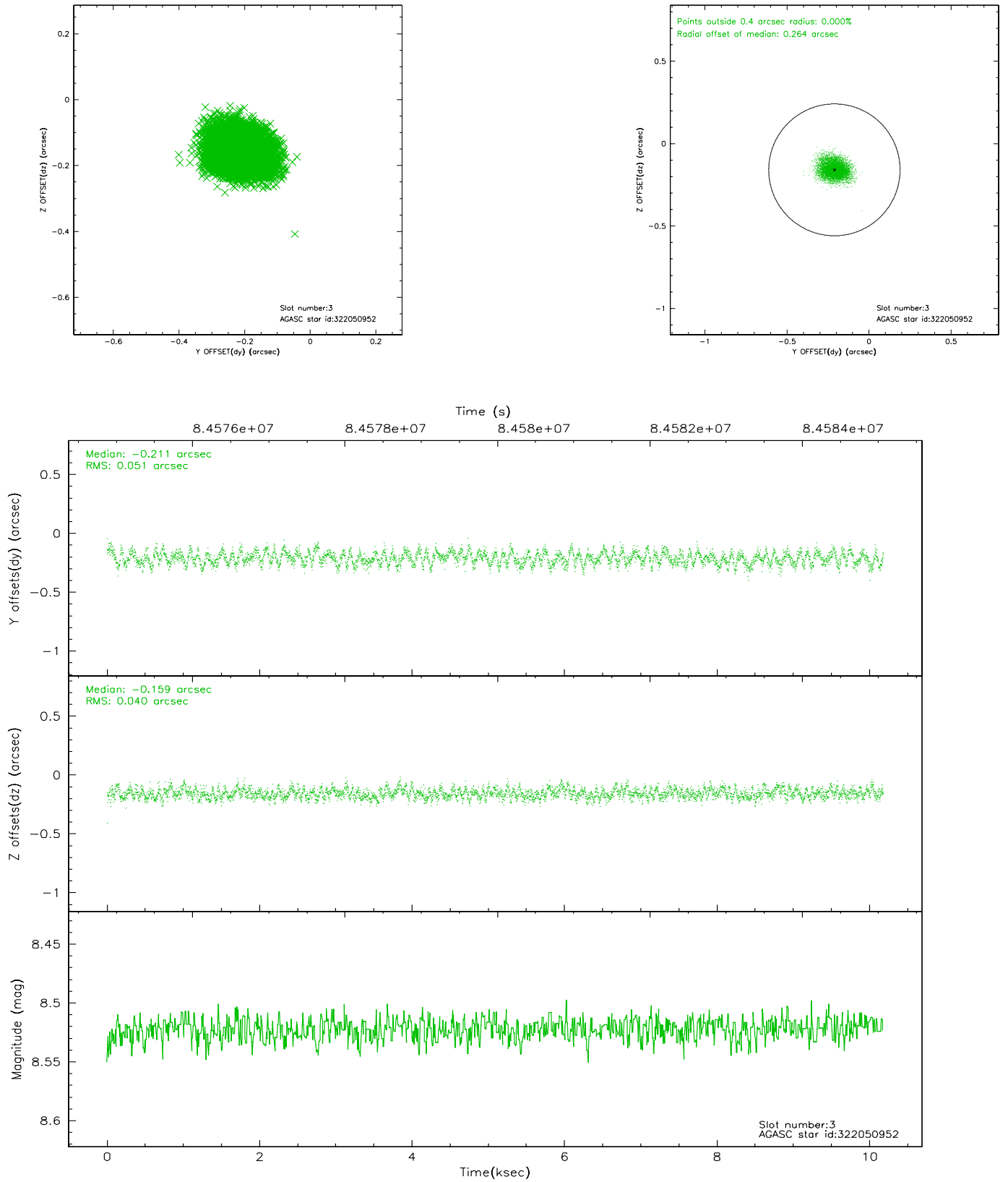
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.14	2484	-0.013	0.018	0.009	0.016	0.000000	0.000000	-755.67	-775.48
1	FID	ACIS-I-4	7.21	2483	-0.052	-0.003	0.008	0.013	0.000000	0.000000	2158.12	1130.48
2	FID	ACIS-I-6	7.26	2483	-0.034	0.049	0.012	0.021	0.000000	0.000000	404.88	1773.66
3	GUIDE	322050952	8.52	4964	-0.211	-0.159	0.070	0.110	112.842649	31.961208	819.30	1211.79
4	GUIDE	321525608	9.34	4965	-0.000	0.023	0.076	0.121	113.158985	31.352321	-1014.83	-330.24
5	GUIDE	321523680	9.39	4966	0.136	-0.104	0.081	0.135	112.624598	31.528905	-860.83	1422.72
6	GUIDE	321520736	9.25	4966	-0.010	0.076	0.069	0.114	113.387072	31.695033	365.70	-654.61
7	GUIDE	321526608	9.41	4964	0.084	0.165	0.087	0.142	113.645995	31.201137	-1113.60	-1921.65

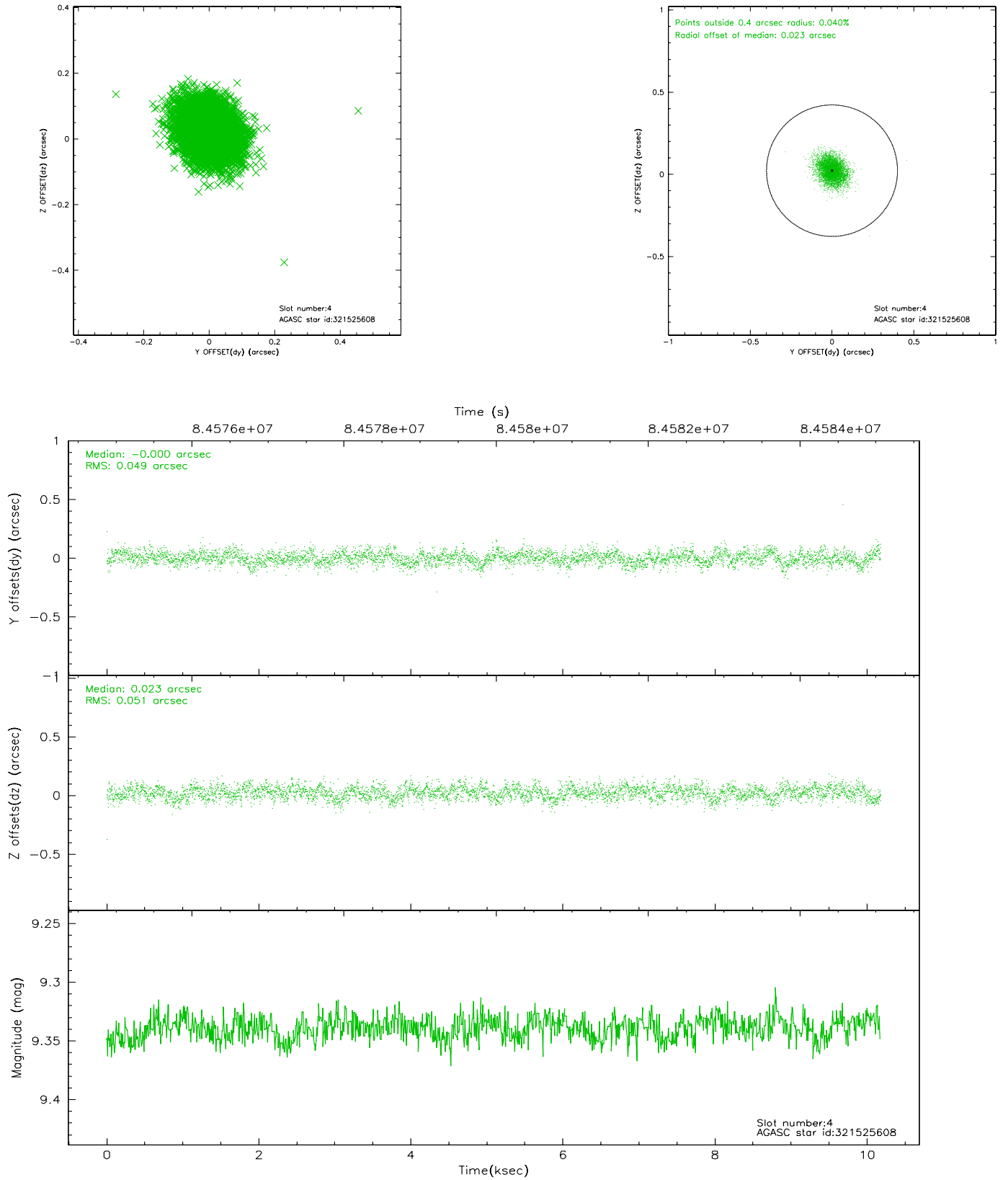


## 2.4 Star Slots

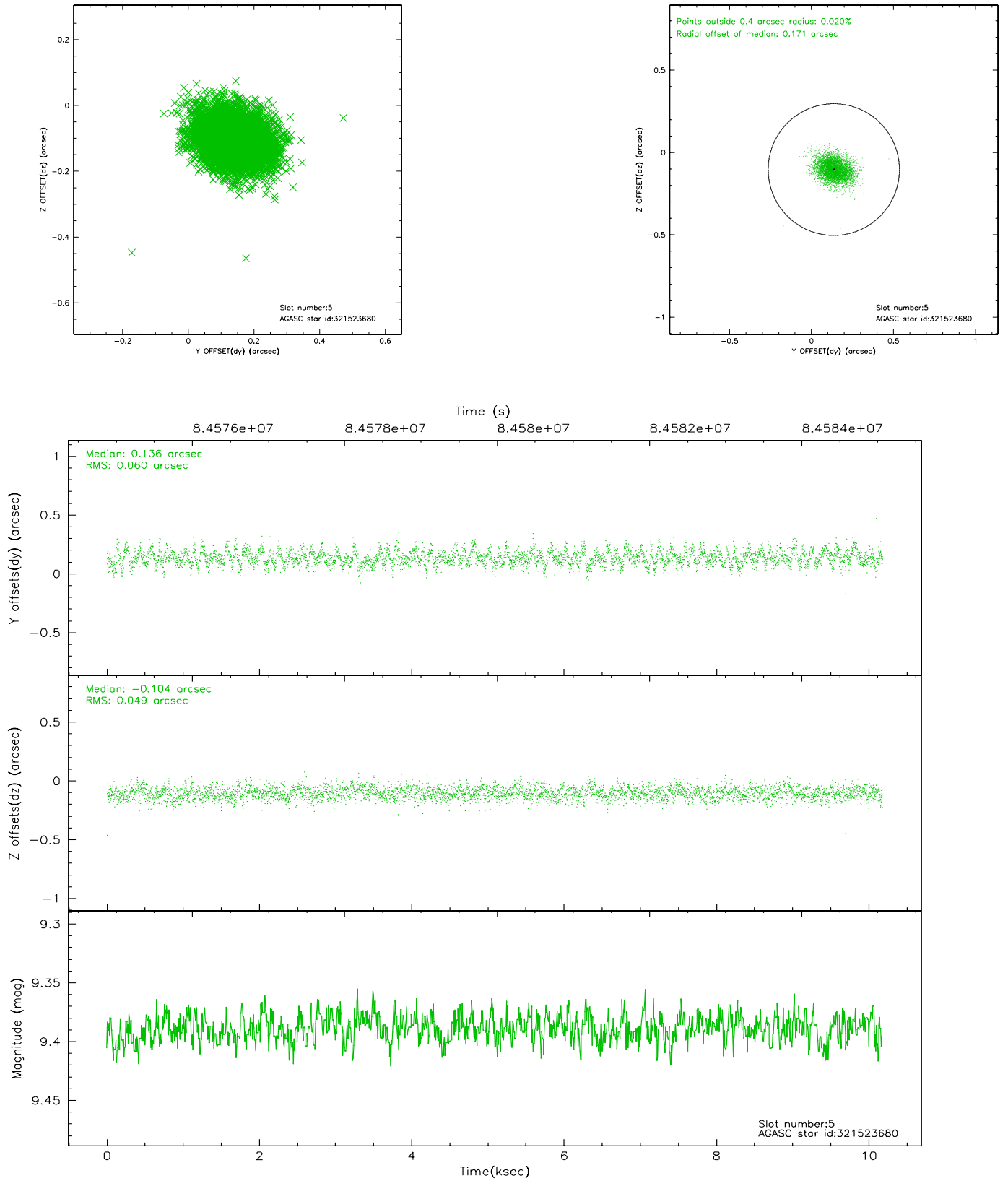
### 2.4.1 Slot 3



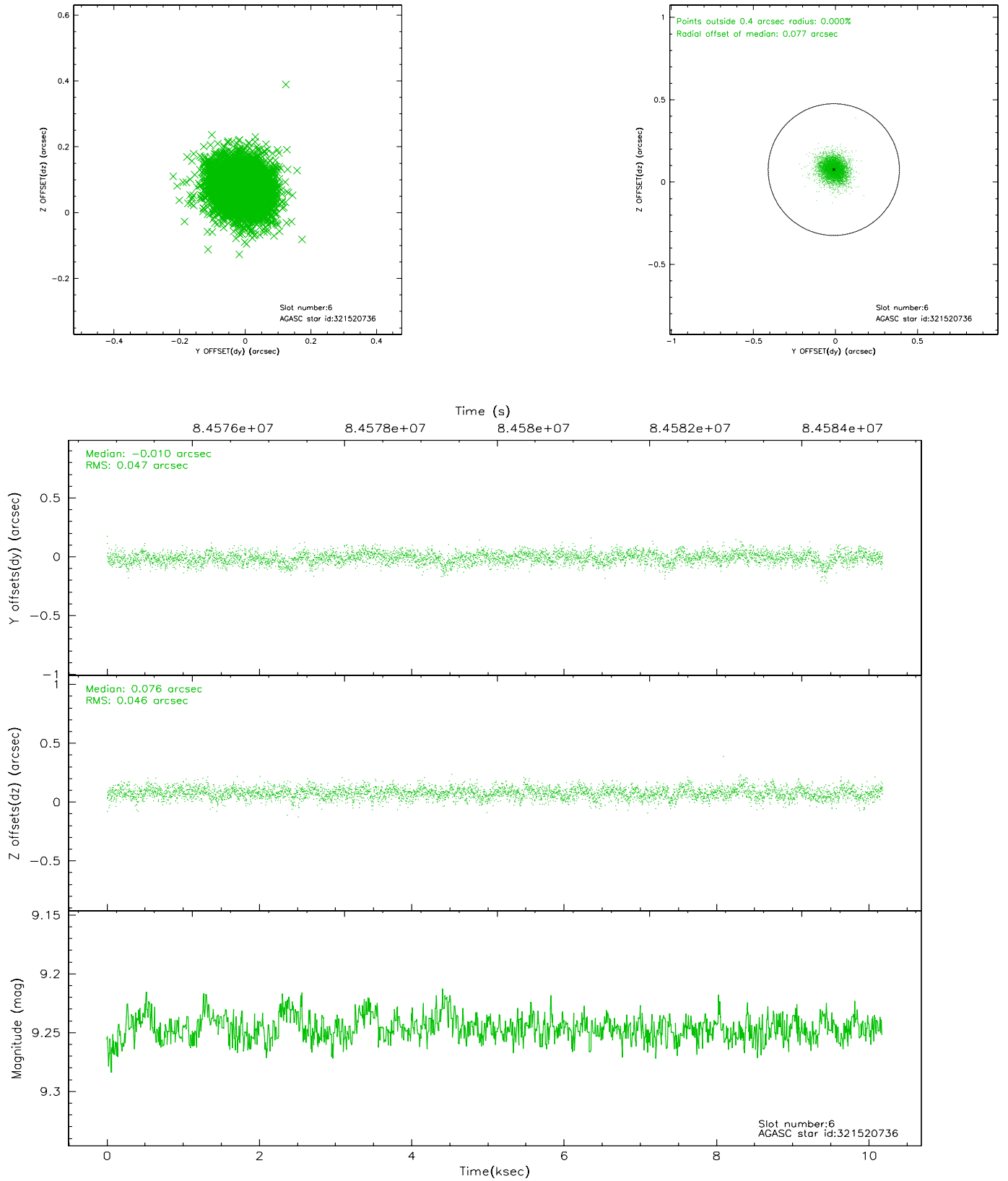
## 2.4.2 Slot 4



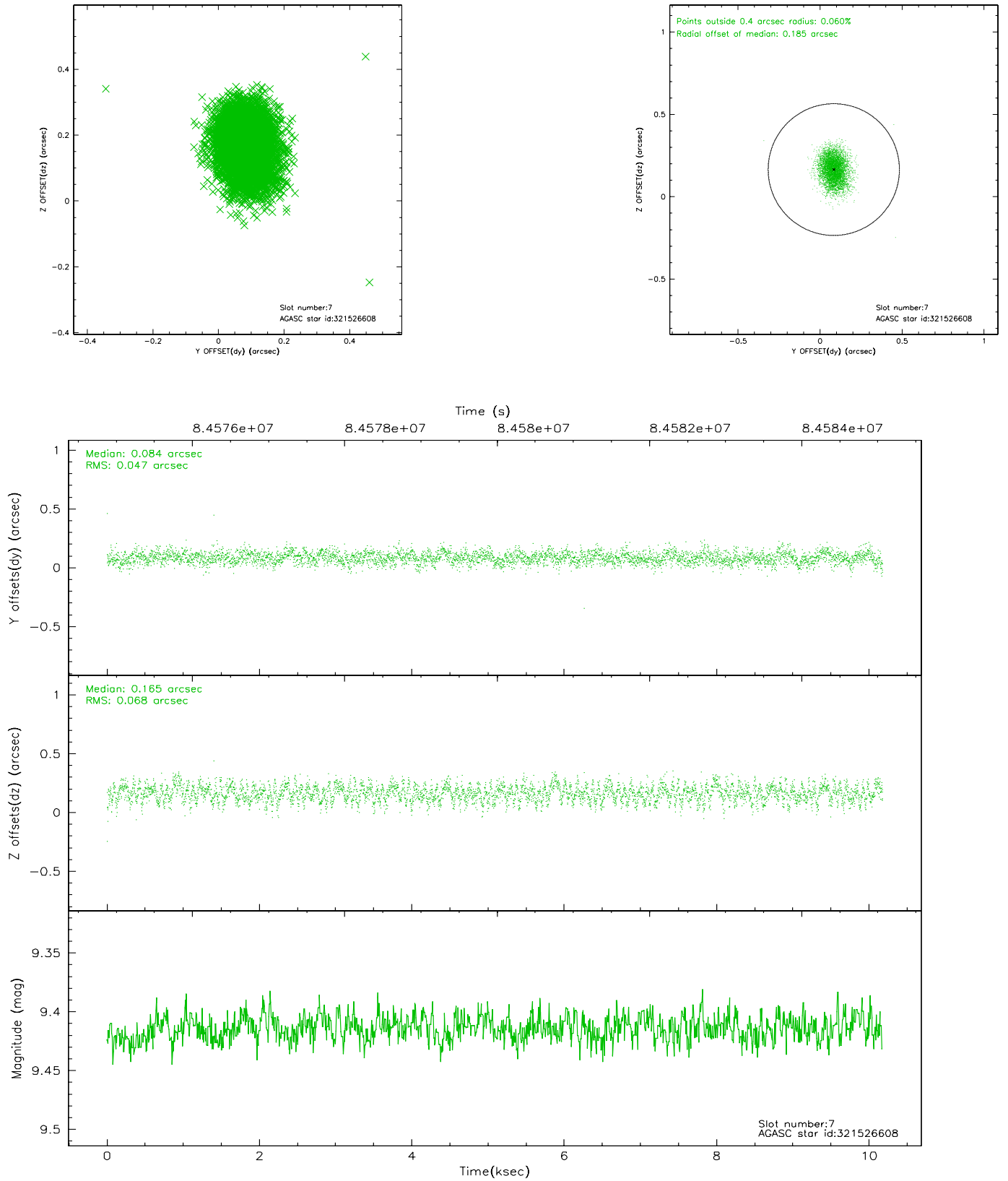
### 2.4.3 Slot 5



## 2.4.4 Slot 6

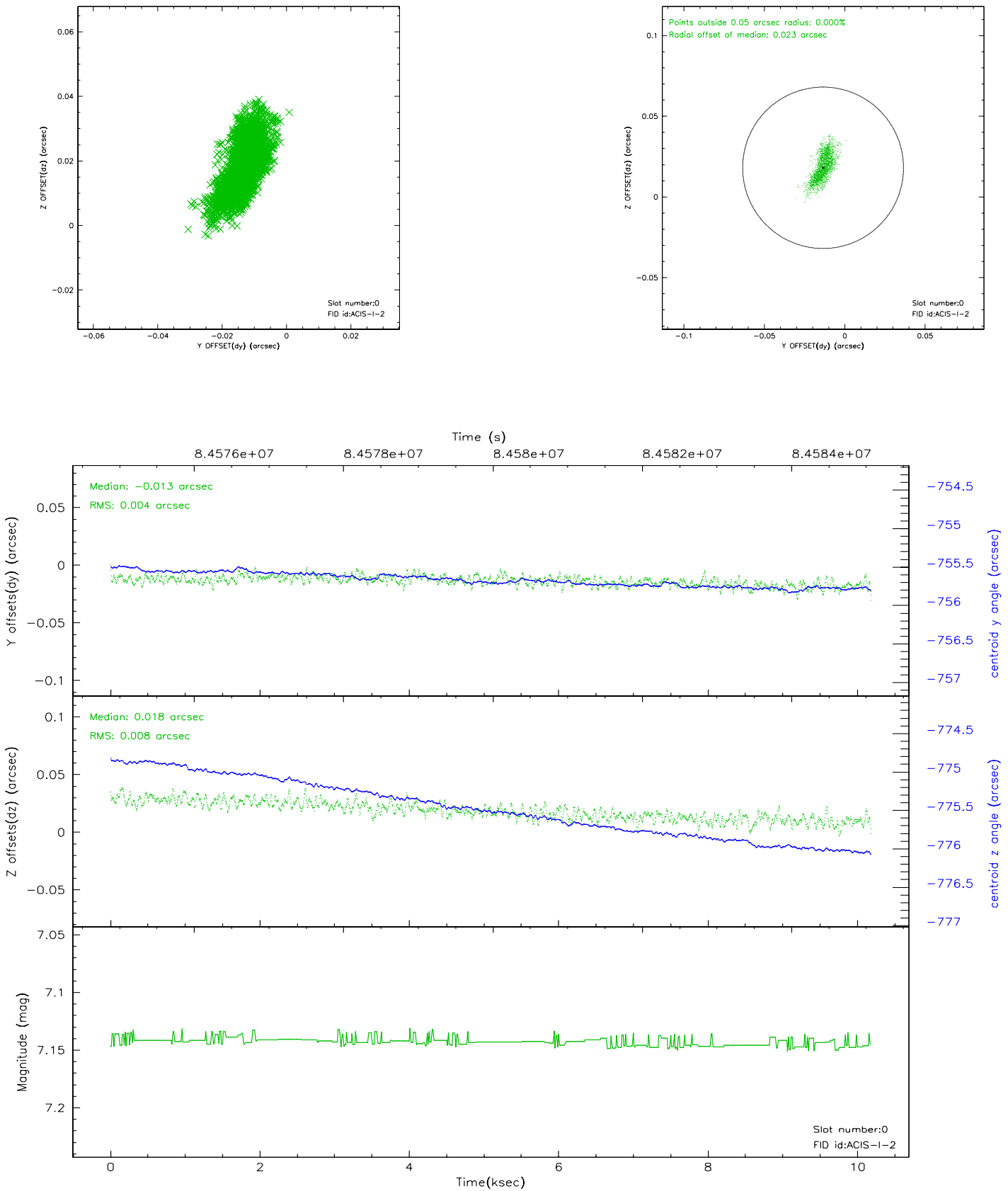


## 2.4.5 Slot 7

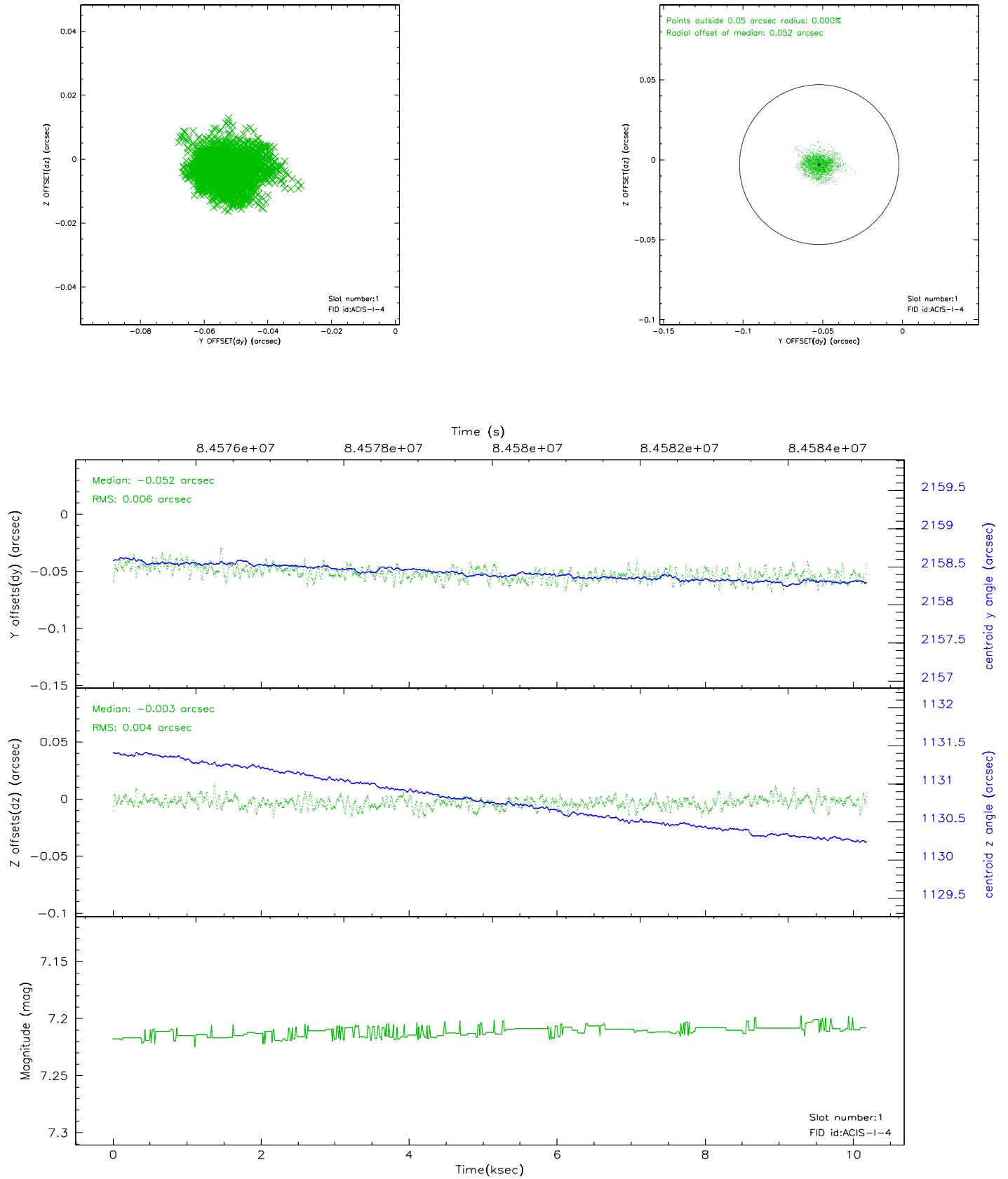


## 2.5 FID Slots

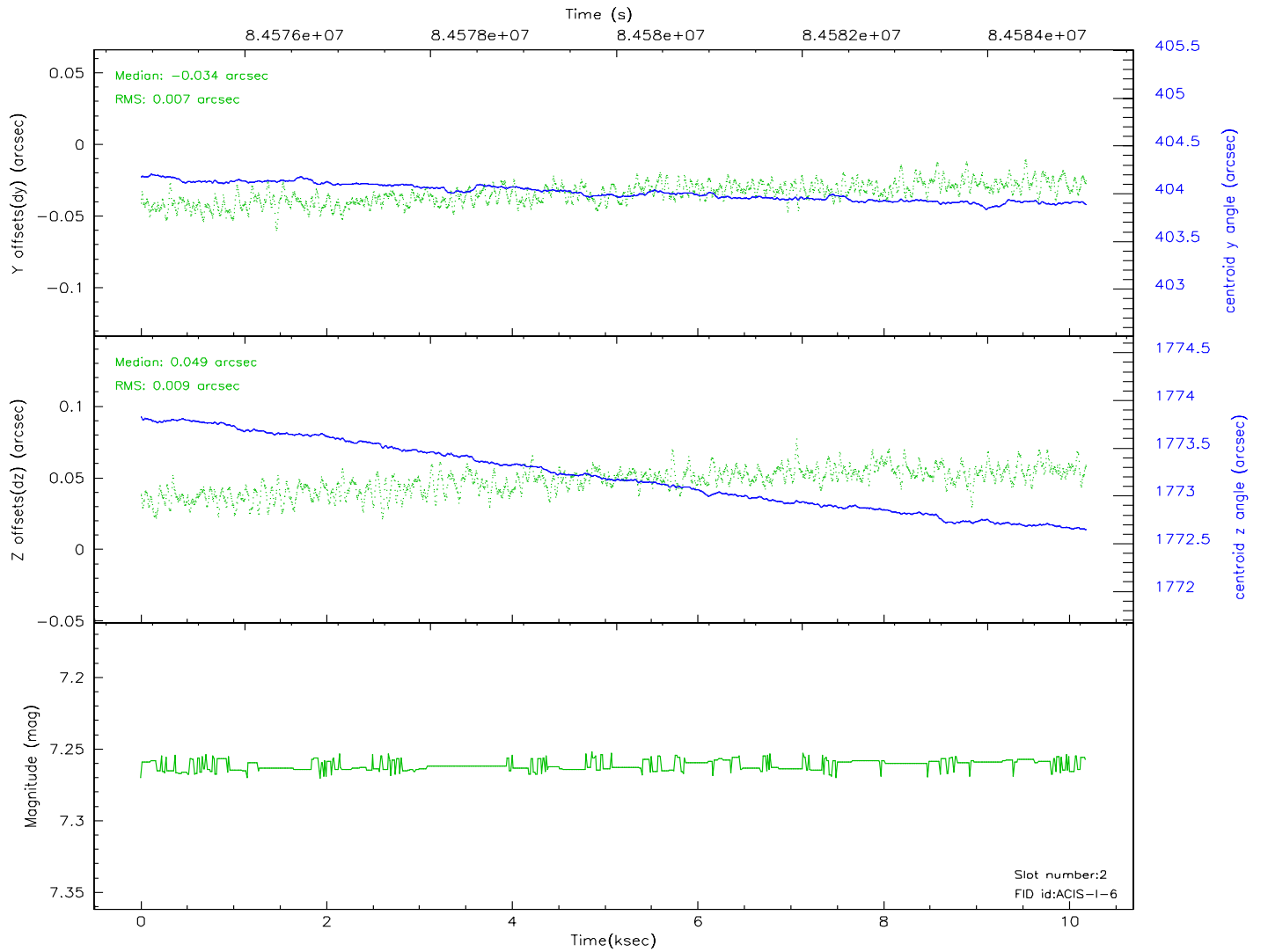
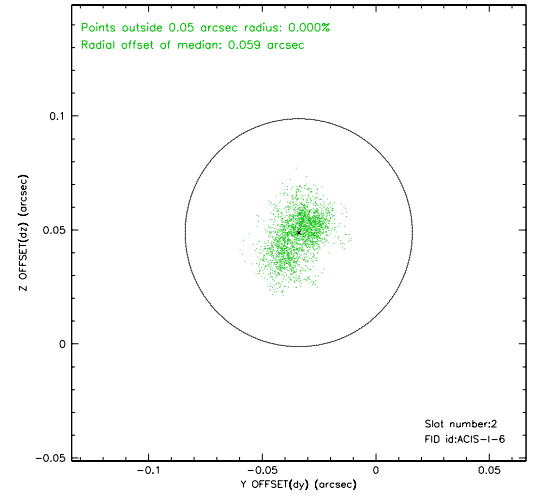
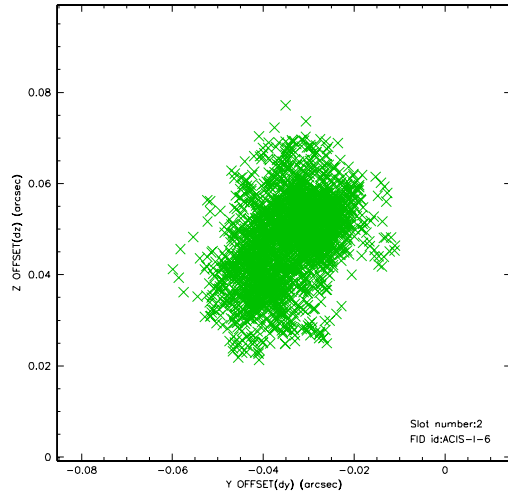
### 2.5.1 Slot 0



## 2.5.2 Slot 1

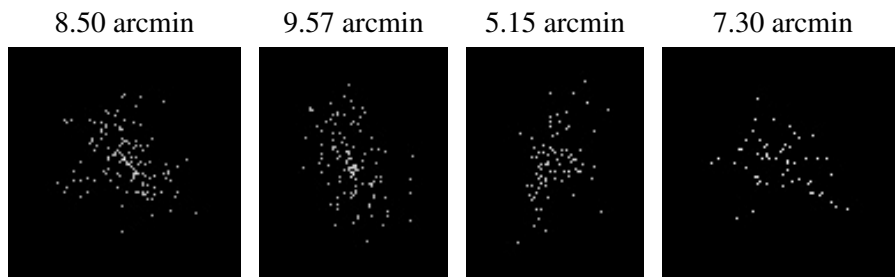


### 2.5.3 Slot 2





### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.06.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.172

## A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the first 4 ksec of this observation. The ACIS spectral response calibration for the front-illuminated chips is less accurate at these warmer temperatures than it is at -119.7 C. The back-illuminatd chips are not affected at the focal plane temperatures recorded for this observation. Users whose science objectives depend on the most accurate spectral response (i.e.: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.