

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.2

Observation 4605 - L2 Version 3  
Chandra X-Ray Center

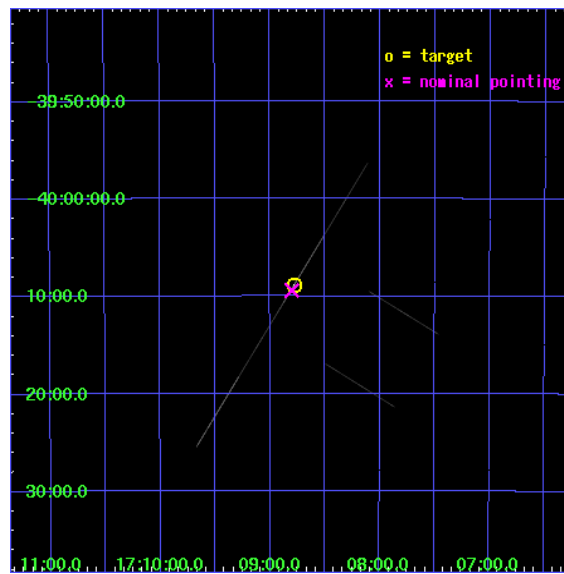
L2 Processing Date : Apr 11 2008

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# 1 Front

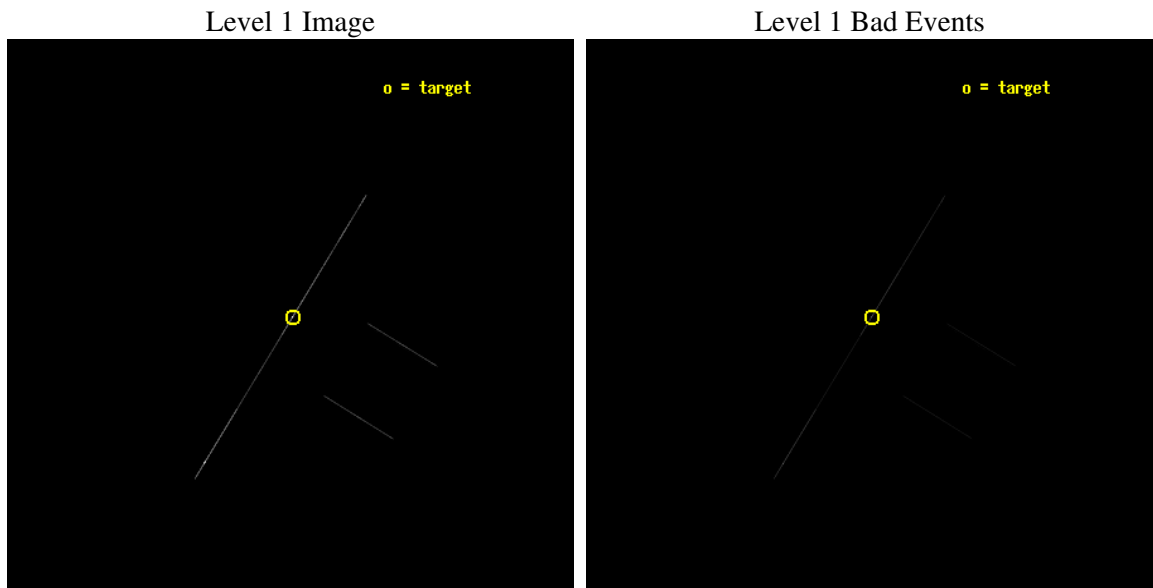
seq_num	500430
obs_id	4605
title	Alt: Chandra Observations of the Anomalous X-ray Pulsar RX J1708-4009
observer	Professor Gordon Garmire
object	RX J1708-4009
ra_targ	257.195417
dec_targ	-40.147917
ra_nom	257.20000198199
dec_nom	-40.156912542835
roll_nom	301.44658161753
revision	3
ontime	29179.25
livetime	29065.268554688
ontime2	29177.791394353
ontime3	29179.25
ontime5	29179.25
ontime6	29179.25
ontime7	29179.25
ontime8	29179.25
l2events	385202



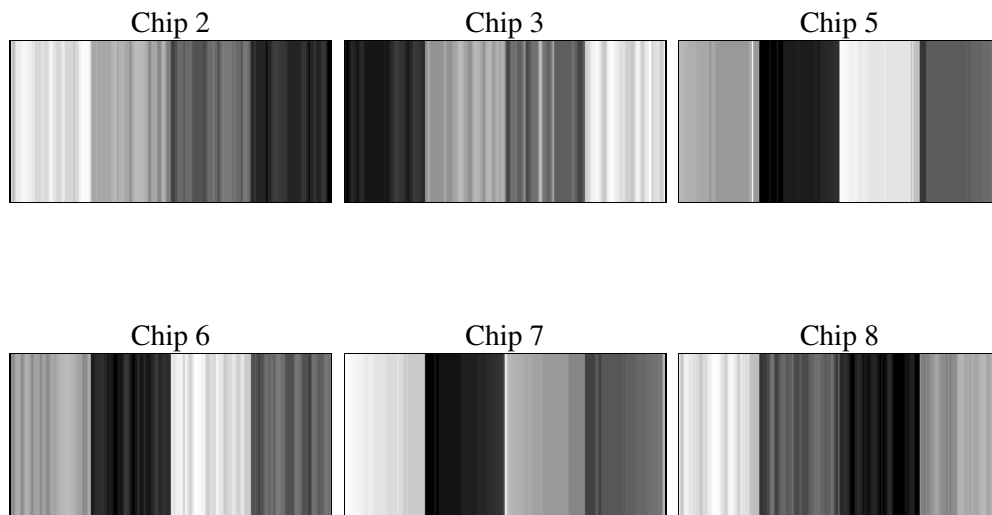
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.11.6
caldbver	3.4.4
date	2008-04-11T20:33:56
revision	3

sched_exp_time	29028.000000
ontime	29179.25
ontime2	29177.791394353
ontime3	29179.25
ontime5	29179.25
ontime6	29179.25
ontime7	29179.25
ontime8	29179.25
l1events	578205

### 2.1.4 Events

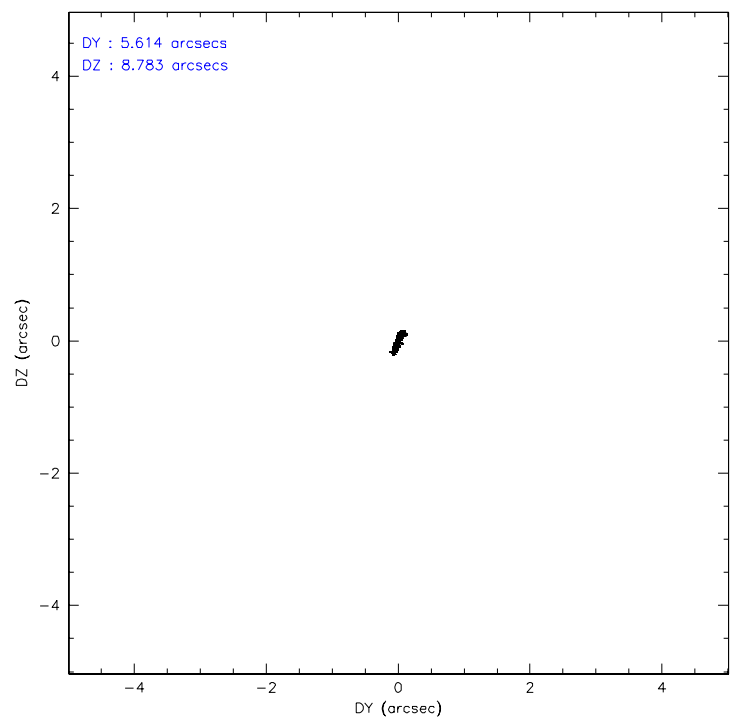
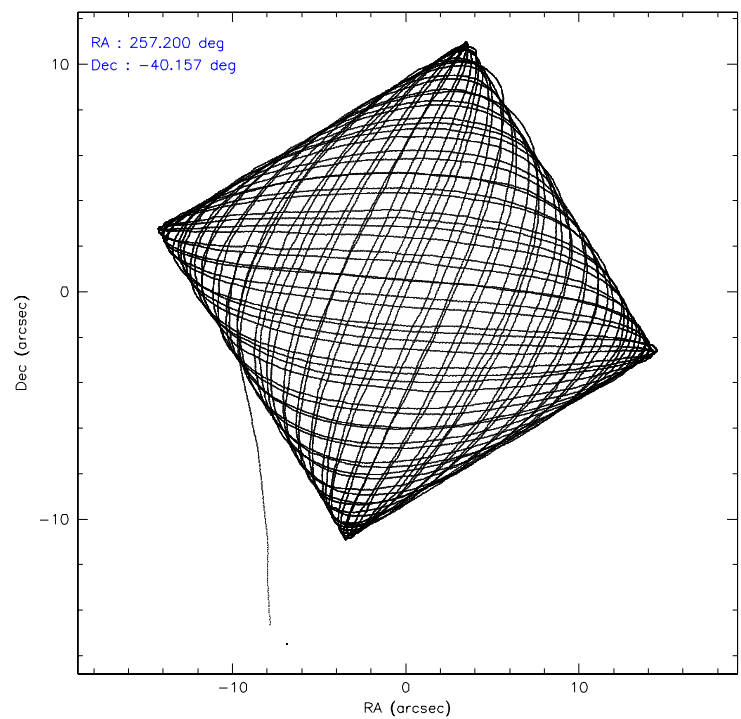
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	29256	30934	180619	34205	228642	74549
rejected events	5203	5879	18218	6104	19204	10579
rejected %	17%	19%	10%	17%	8%	14%

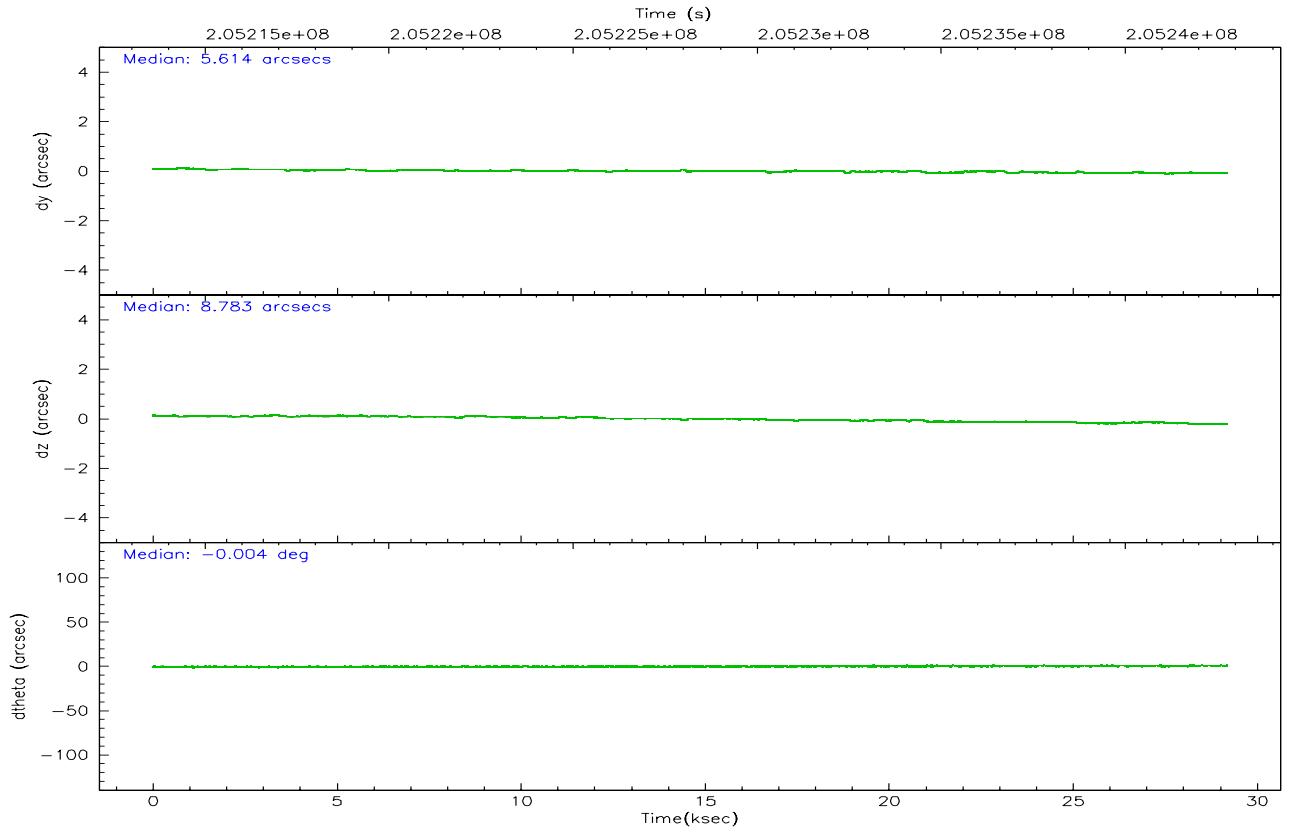
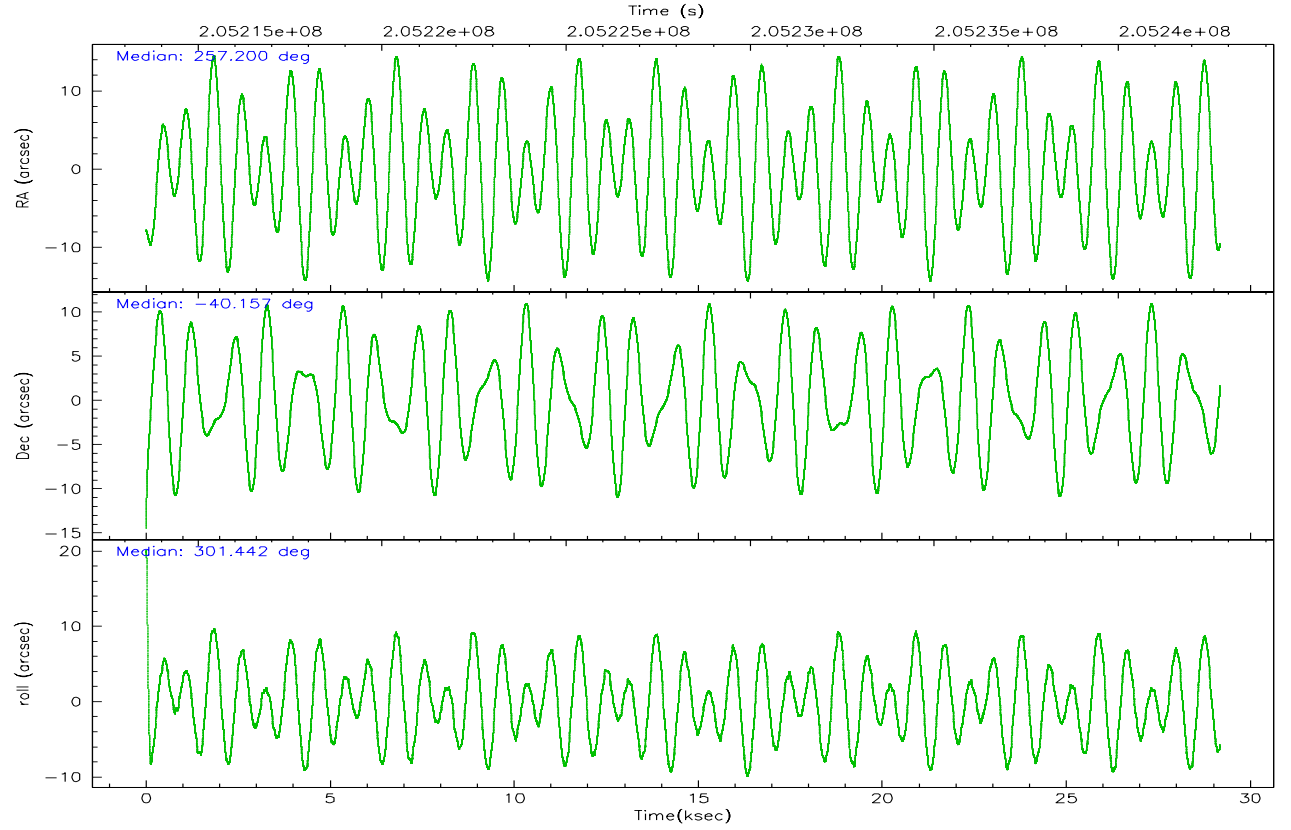
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	3481	3513	63562	3535	45023	13232
	11%	11%	35%	10%	19%	17%
grade 1 events	115	106	329	141	518	279
	0%	0%	0%	0%	0%	0%
grade 2 events	8717	8542	43582	11198	57373	18571
	29%	27%	24%	32%	25%	24%
grade 3 events	4460	5058	4103	4673	23072	9083
	15%	16%	2%	13%	10%	12%
grade 4 events	4416	4378	3990	4531	22349	8815
	15%	14%	2%	13%	9%	11%
grade 5 events	4305	5037	13092	5145	15504	8058
	14%	16%	7%	15%	6%	10%
grade 6 events	3762	4300	51961	4982	64803	16511
	12%	13%	28%	14%	28%	22%
grade 7 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	257.168501	257.2000019819862	Alternating exposures requested	N	N
Pointing Dec	-40.144224	-40.15691254283529	Primary exposure time	0.000000	0
Pointing Roll	301.269635	301.4465816175308			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	205213739.184000	205212637.94717			
Observation start date	2004-07-03T03:47:55	2004-07-03T03:30:37			
Observation end time	205242767.184000	205243306.97353			
Observation end date	2004-07-03T11:51:43	2004-07-03T12:01:46			
Read mode	CONTINUOUS	CONTINUOUS			

## 2.3 Aspect



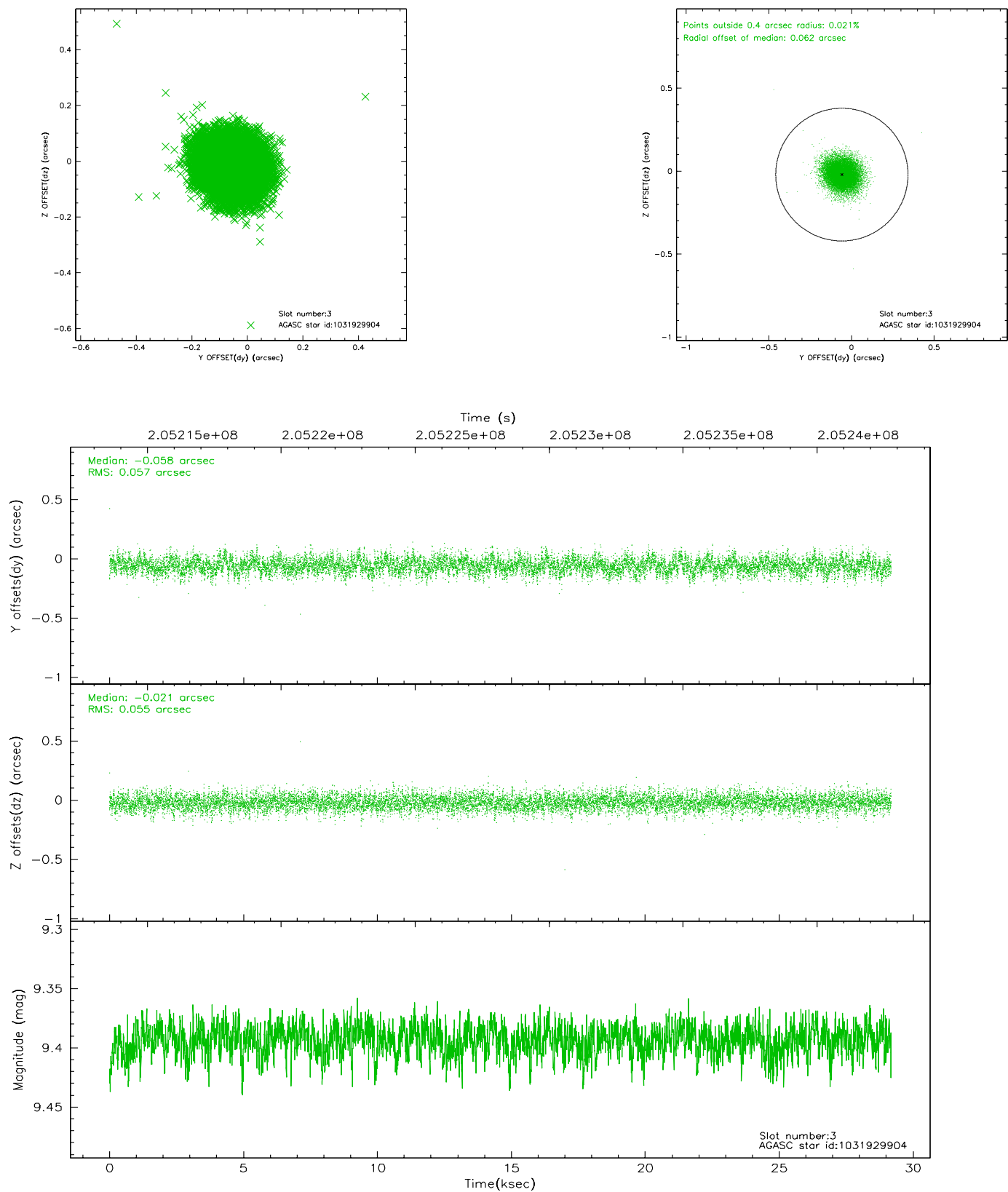


### Slot Statistics

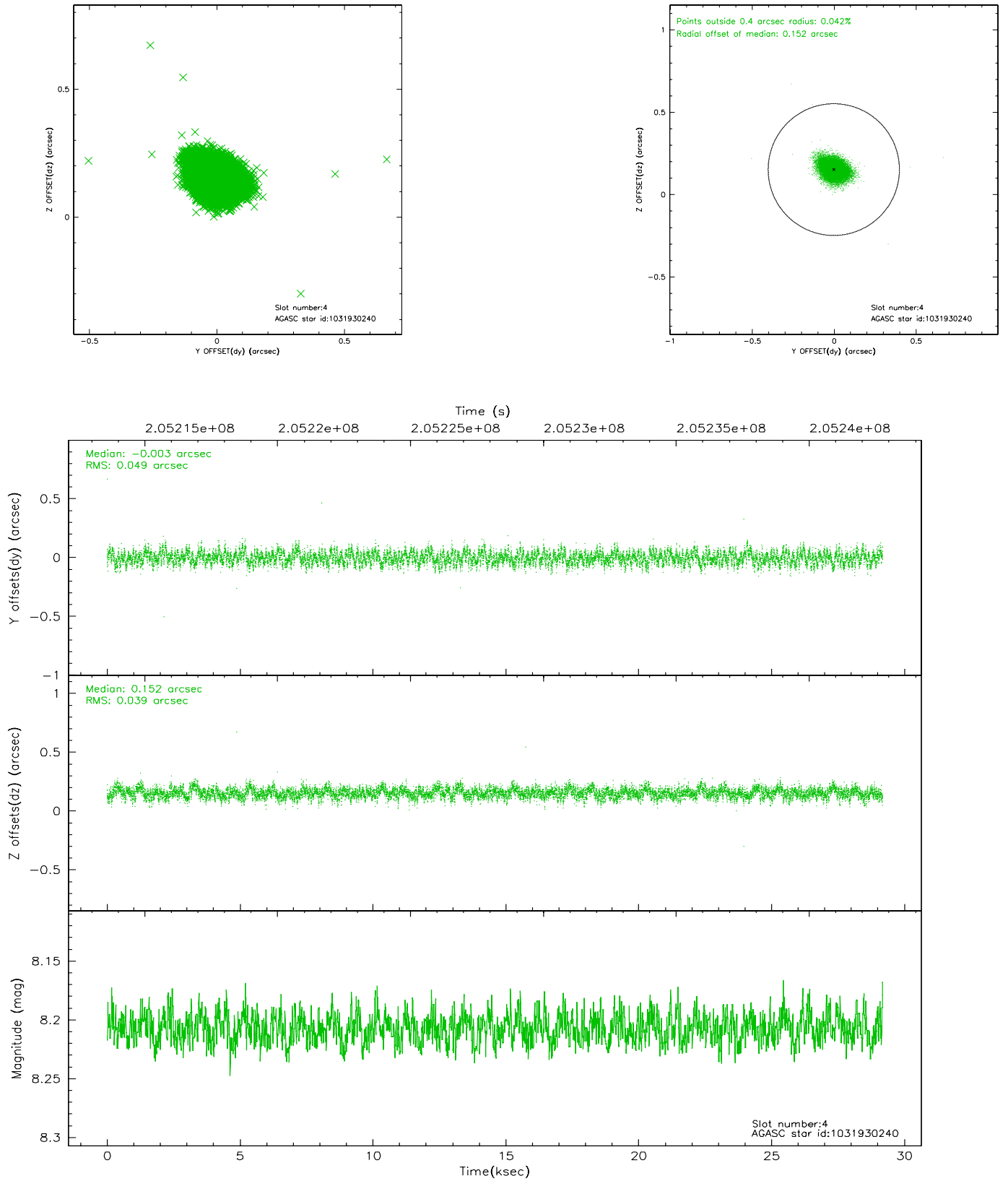
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	7118	-0.039	-0.025	0.007	0.011	0.000000	0.000000	-758.38	-1730.00
1	FID	ACIS-S-4	7.21	7118	0.055	0.025	0.005	0.009	0.000000	0.000000	2154.97	178.43
2	FID	ACIS-S-5	7.23	7118	-0.048	0.008	0.007	0.011	0.000000	0.000000	-1811.11	172.20
3	GUIDE	1031929904	9.39	14222	-0.058	-0.021	0.084	0.137	256.776341	-40.685313	1111.86	-1927.15
4	GUIDE	1031930240	8.21	14233	-0.003	0.152	0.066	0.107	257.160708	-40.849868	2160.96	-1336.45
5	GUIDE	1031932008	8.82	14235	0.062	-0.116	0.066	0.104	257.163205	-39.994917	-466.38	266.44
6	GUIDE	1031932624	8.31	14234	0.084	-0.016	0.072	0.118	257.431727	-40.221910	616.02	472.86
7	GUIDE	1031938400	8.57	14234	-0.086	0.006	0.082	0.127	256.247715	-40.044226	-1613.12	-1988.95

## 2.4 Star Slots

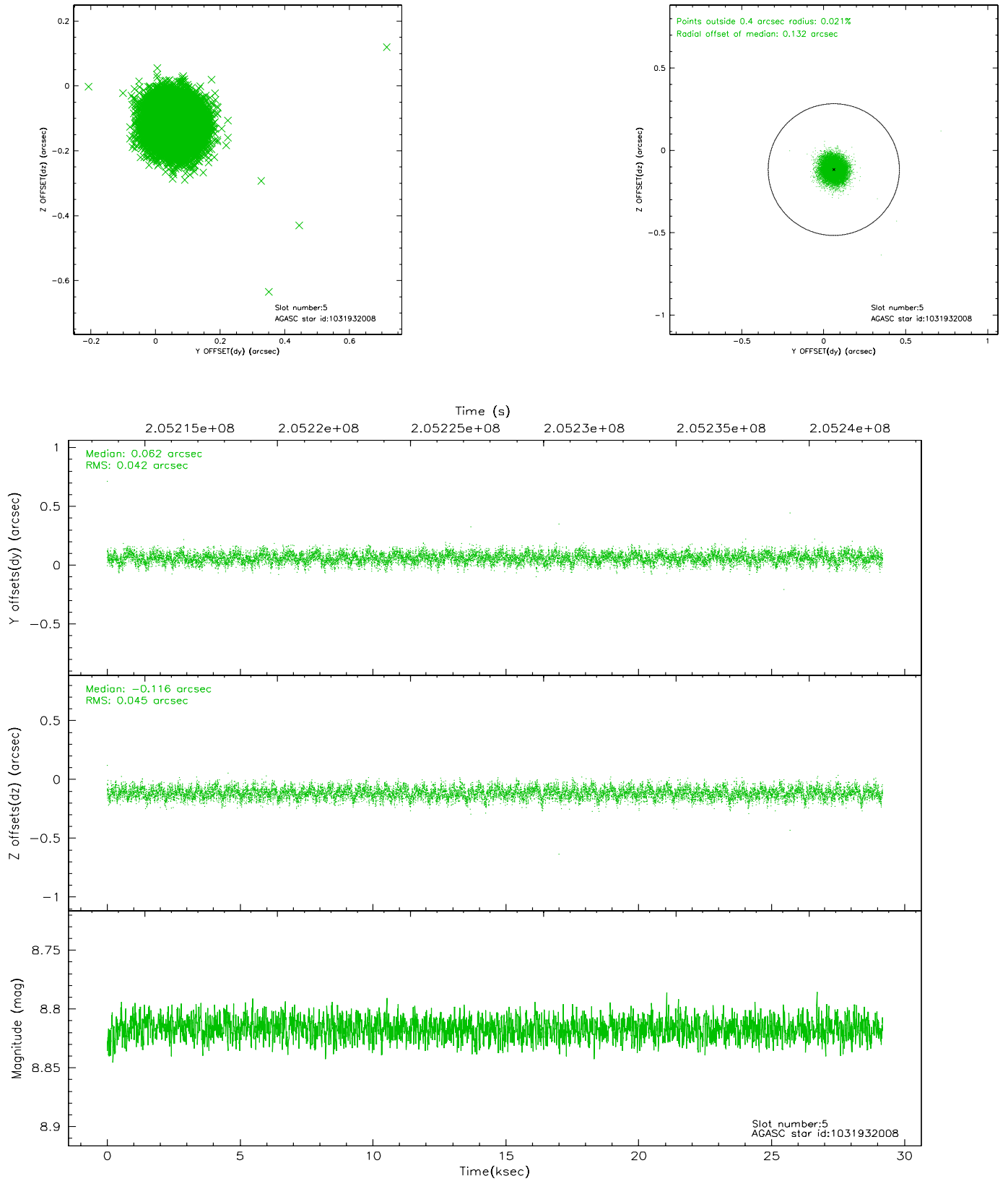
### 2.4.1 Slot 3



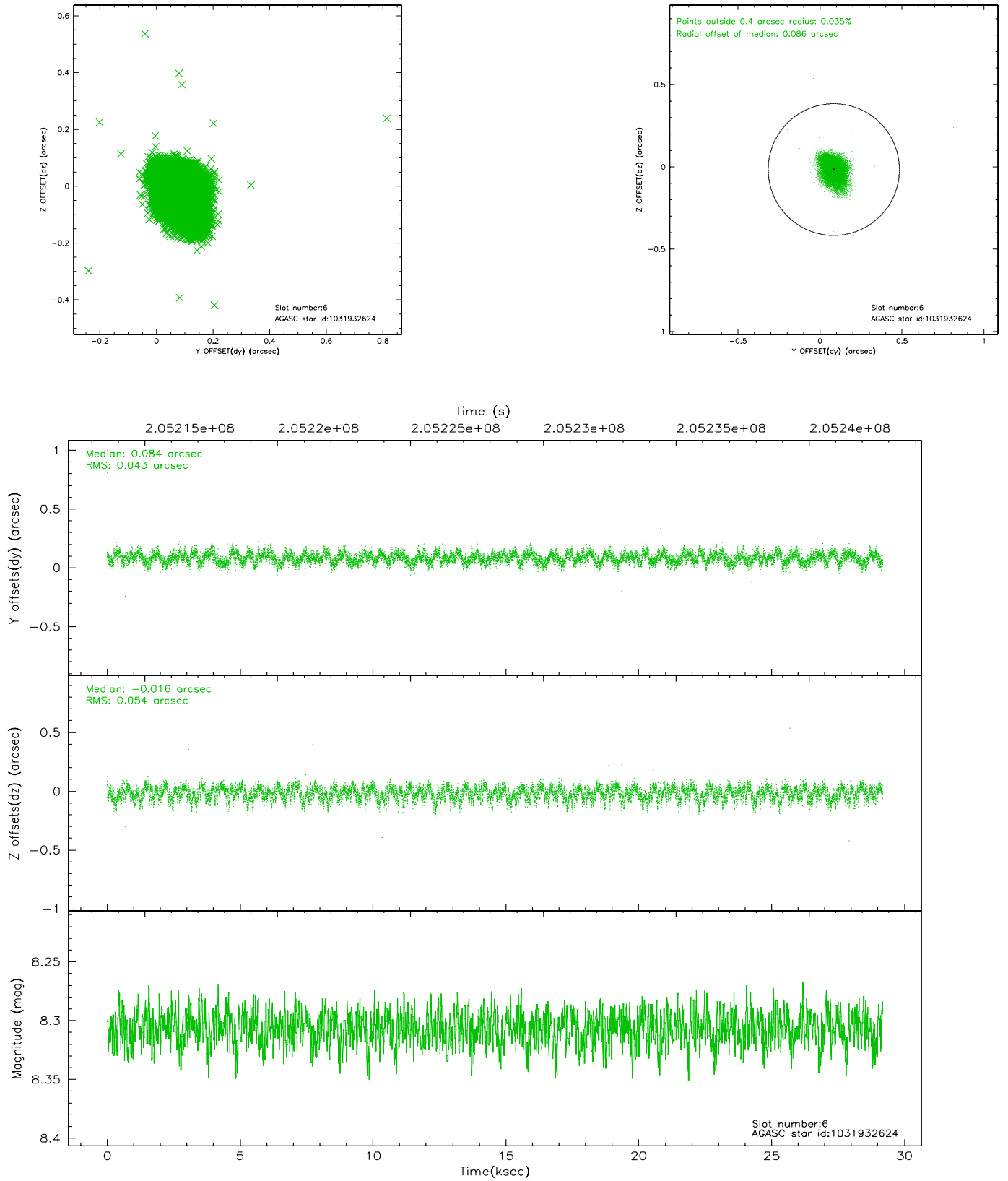
## 2.4.2 Slot 4



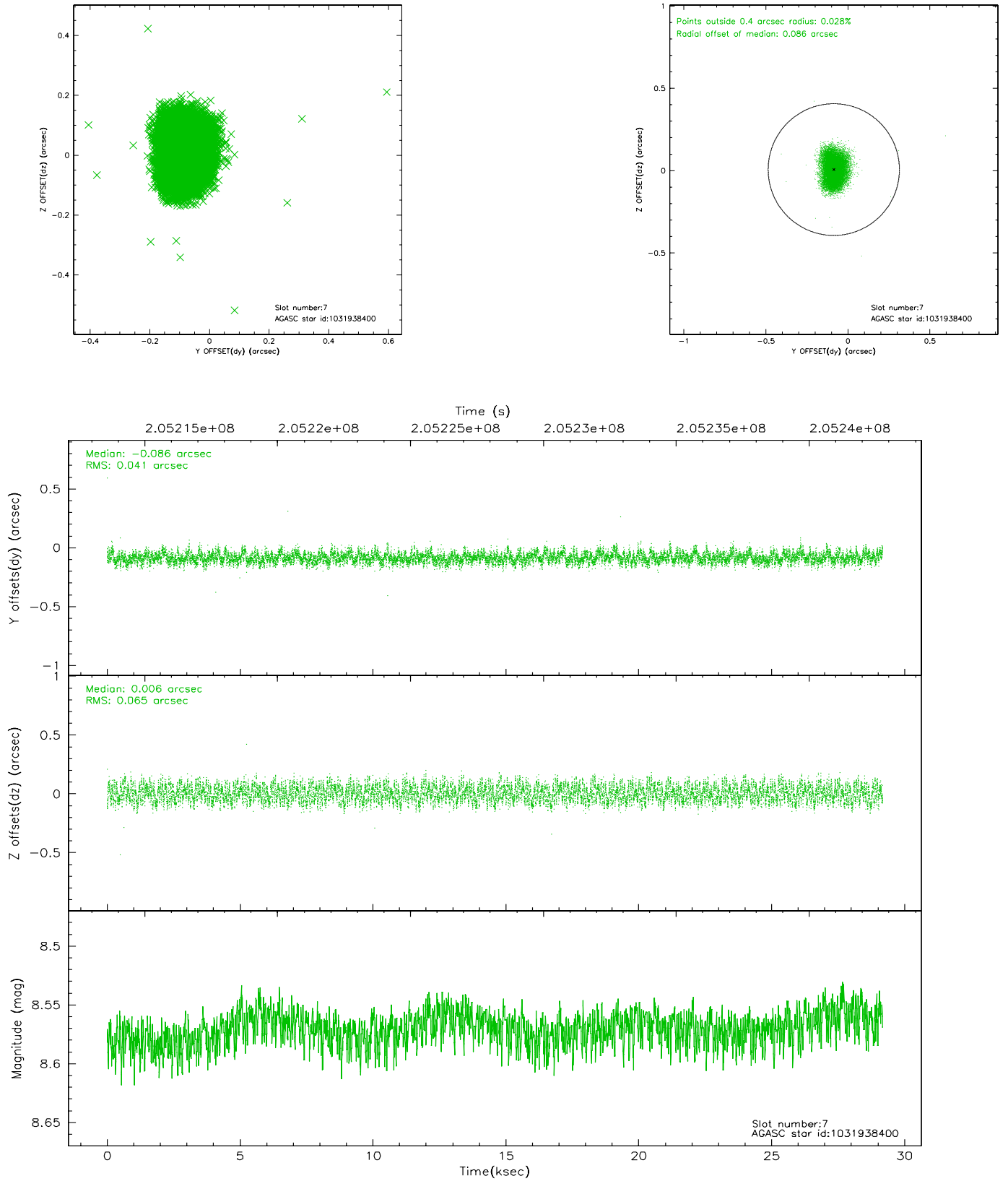
### 2.4.3 Slot 5



## 2.4.4 Slot 6

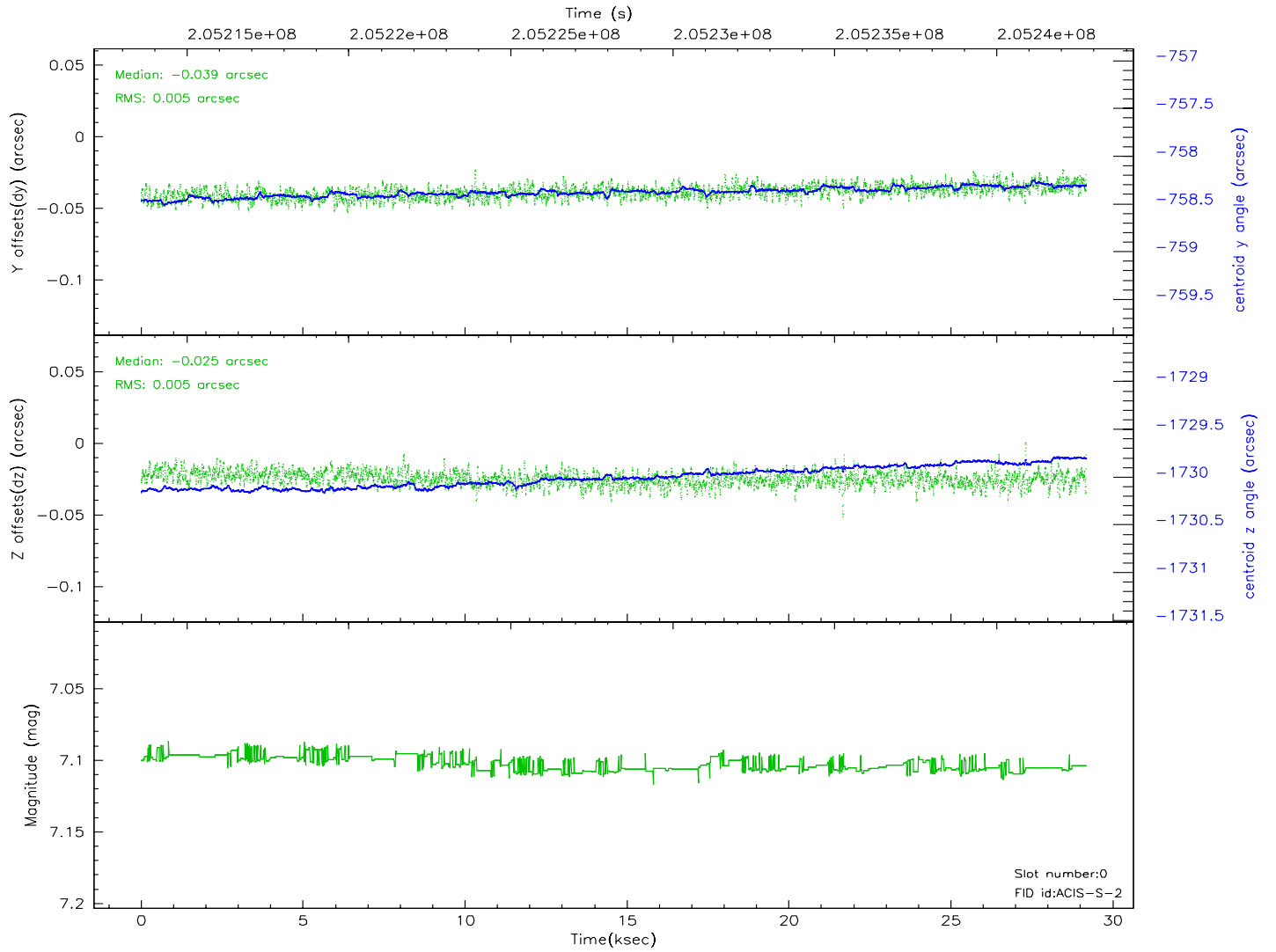
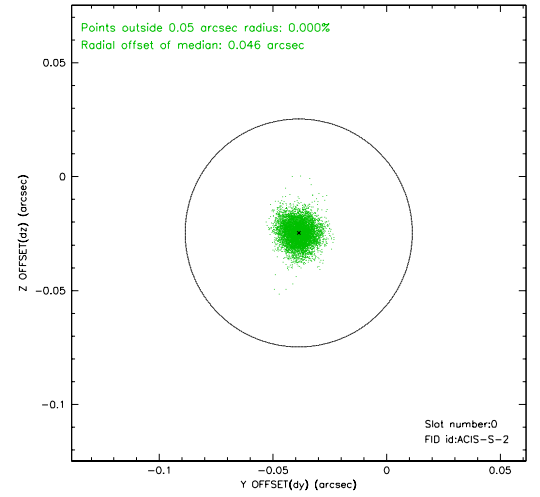
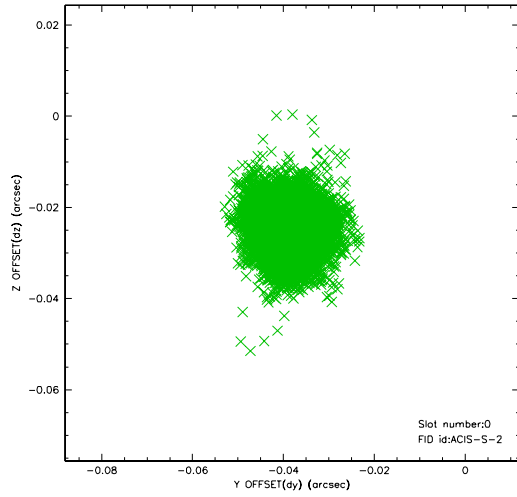


## 2.4.5 Slot 7

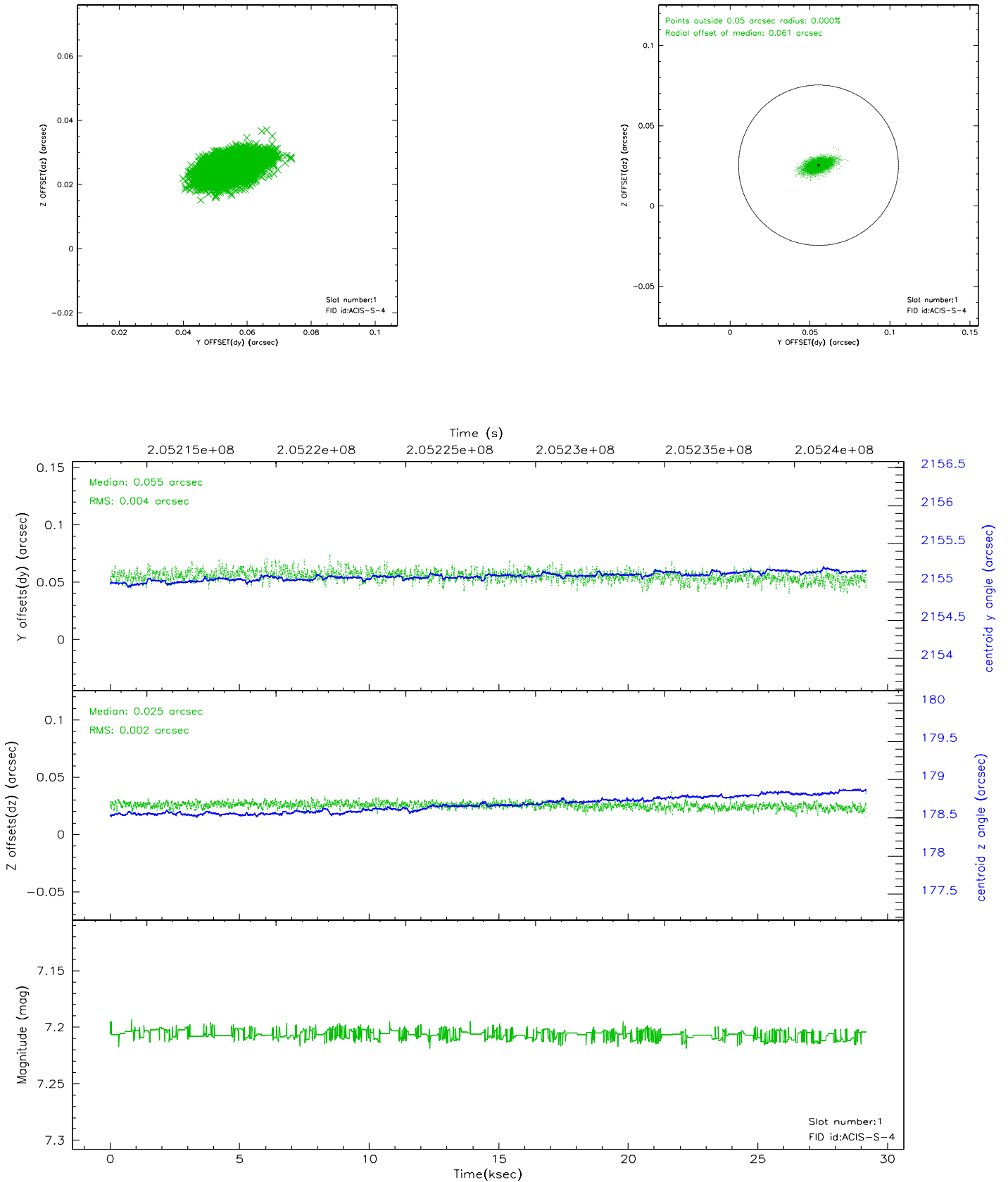


## 2.5 FID Slots

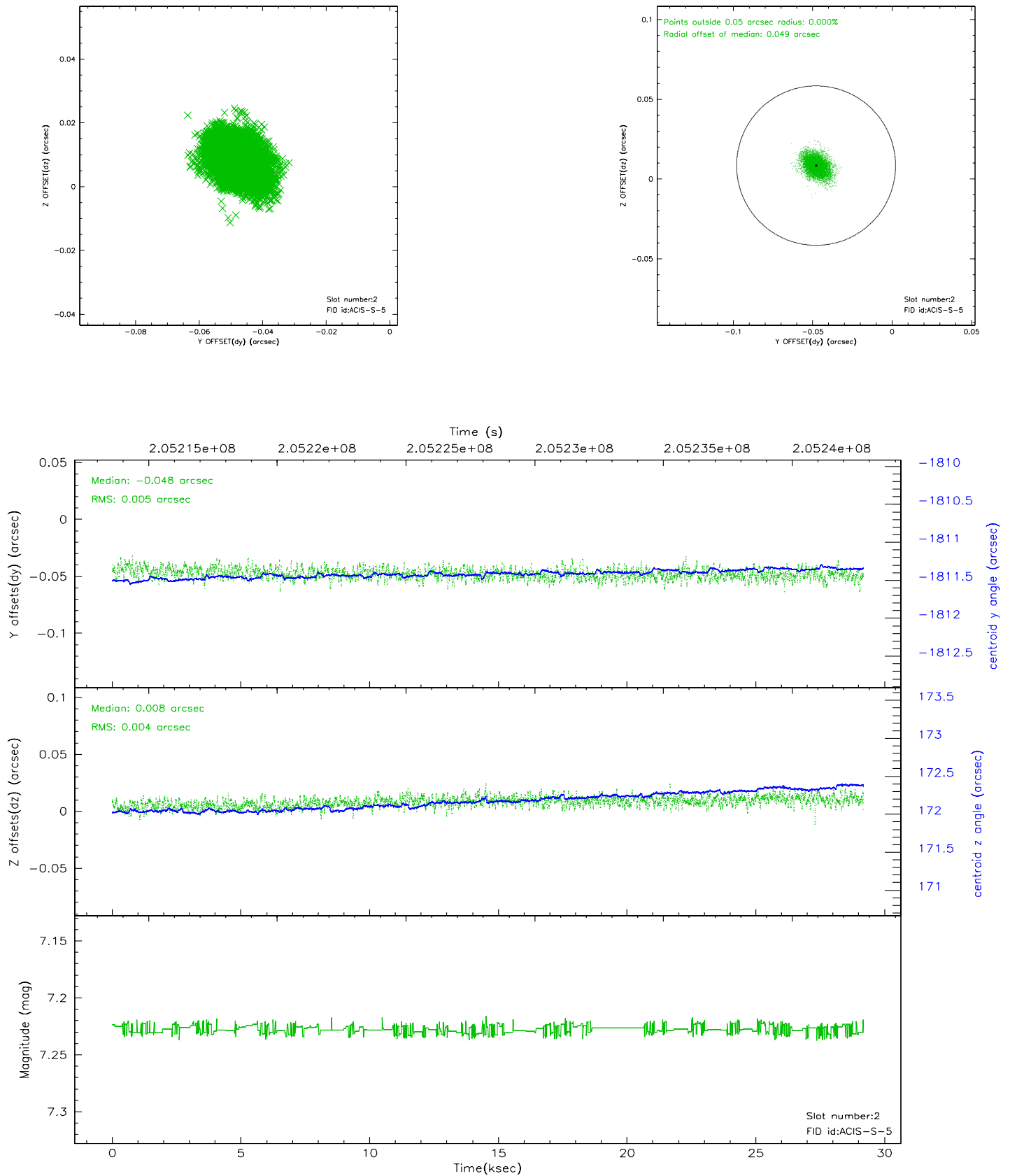
### 2.5.1 Slot 0



## 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)	2008.04.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.183

### A.2 Comments