

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 2828 - L2 Version 001  
Chandra X-Ray Center

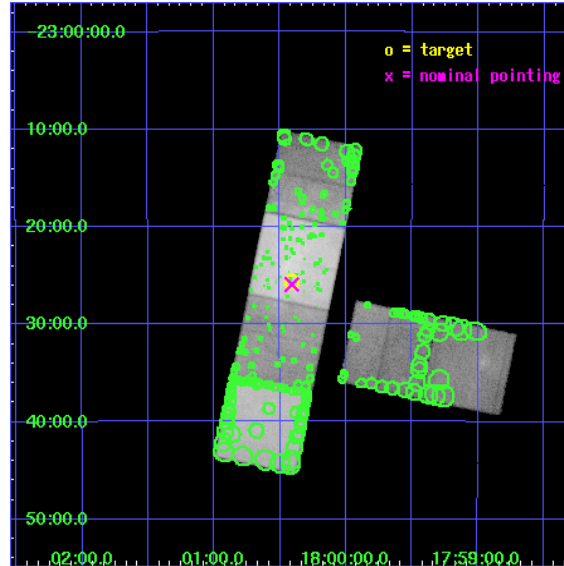
L2 Processing Date : Oct 7 2006

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# 1 Front

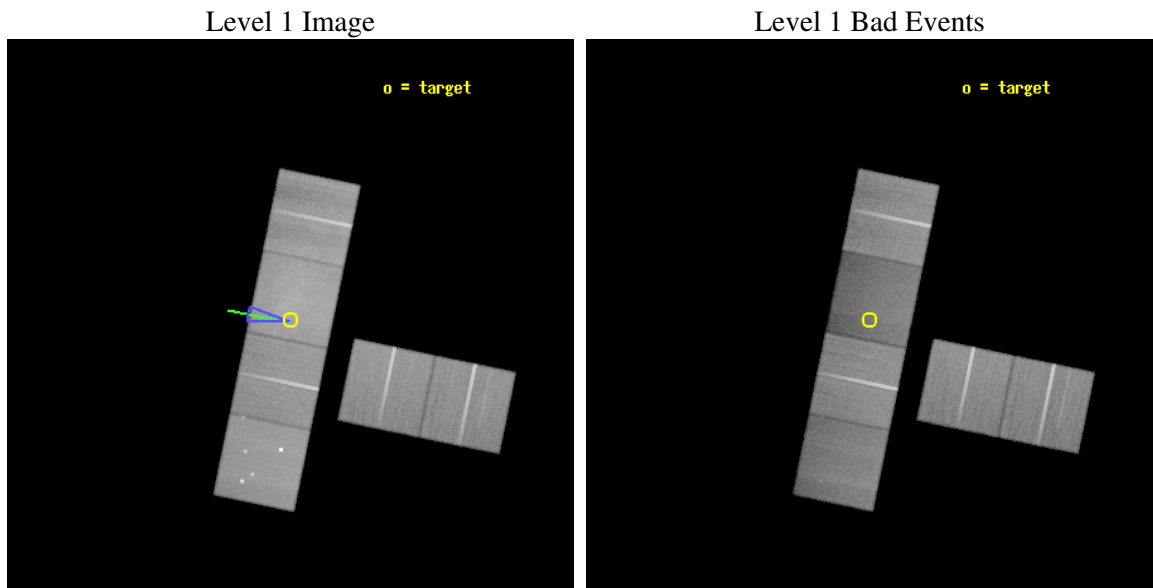
seq_num	500278
obs_id	2828
title	RICH X-RAY STRUCTURES OF MIXED-MORPHOLOGY SNR W28 IN HARD AND SOFT EMISSION
observer	Dr. Jeonghee Rho
object	W28
dtcycle	0
cycle	P
ra_targ	270.103333
dec_targ	-23.427861
ra_nom	270.10240917714
dec_nom	-23.432148066263
roll_nom	281.65626106347
revision	2
ontime	90131.199664235
livetime	88989.904143594
ontime0	90114.994822949
ontime2	90118.235793173
ontime5	90131.199664235
ontime6	90127.958674073
ontime7	90131.199664235
ontime8	90124.717683882
l2events	1249919



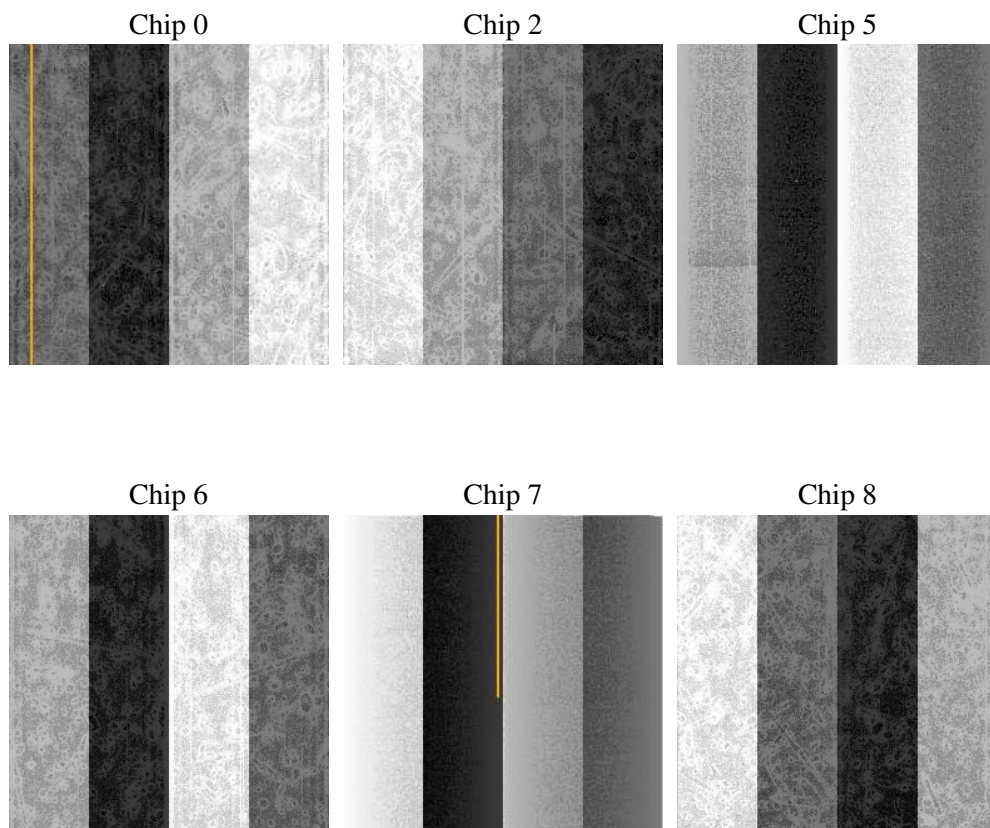
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.3
date	2006-10-07T08:50:30
revision	2

sched_exp_time	90000.000000
ontime	91461.094102591
ontime0	91444.889231384
ontime2	91448.130231529
ontime5	91461.094102591
ontime6	91457.853082508
ontime7	91461.094102591
ontime8	91454.612122238
l1events	3680350

### 2.1.4 Events

	ccd 0	ccd 2	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	499208	530240	631874	583434	771827	663767
rejected events	409579	439932	277299	436008	238855	458197
rejected %	82%	82%	43%	74%	30%	69%

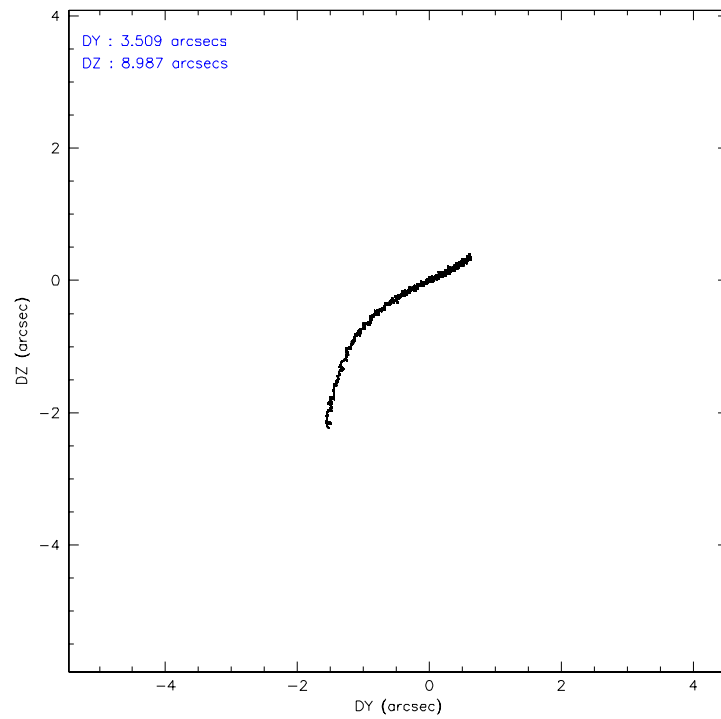
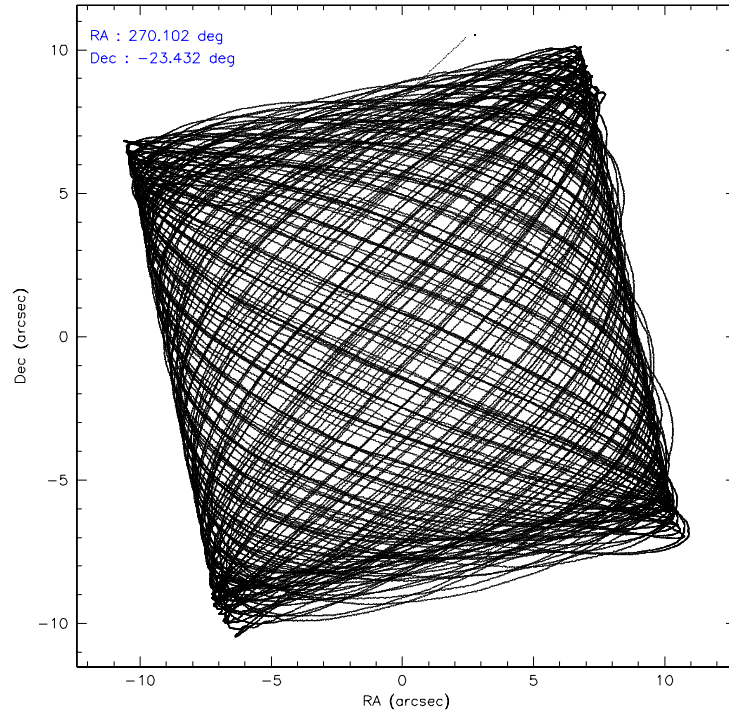
	ccd 0	ccd 2	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	53467	56655	55721	103951	110144	106465
	10%	10%	8%	17%	14%	16%
grade 1 events	397	437	595	524	308	672
	0%	0%	0%	0%	0%	0%
grade 2 events	14963	14178	114188	18739	149360	34792
	2%	2%	18%	3%	19%	5%
grade 3 events	6641	6073	13403	7878	51946	16265
	1%	1%	2%	1%	6%	2%
grade 4 events	6326	6222	13145	7509	51629	15281
	1%	1%	2%	1%	6%	2%
grade 5 events	13849	12486	31682	15614	36940	23216
	2%	2%	5%	2%	4%	3%
grade 6 events	9040	8061	163959	10444	174609	35097
	1%	1%	25%	1%	22%	5%
grade 7 events	394525	426128	239181	418775	196891	431979
	79%	80%	37%	71%	25%	65%

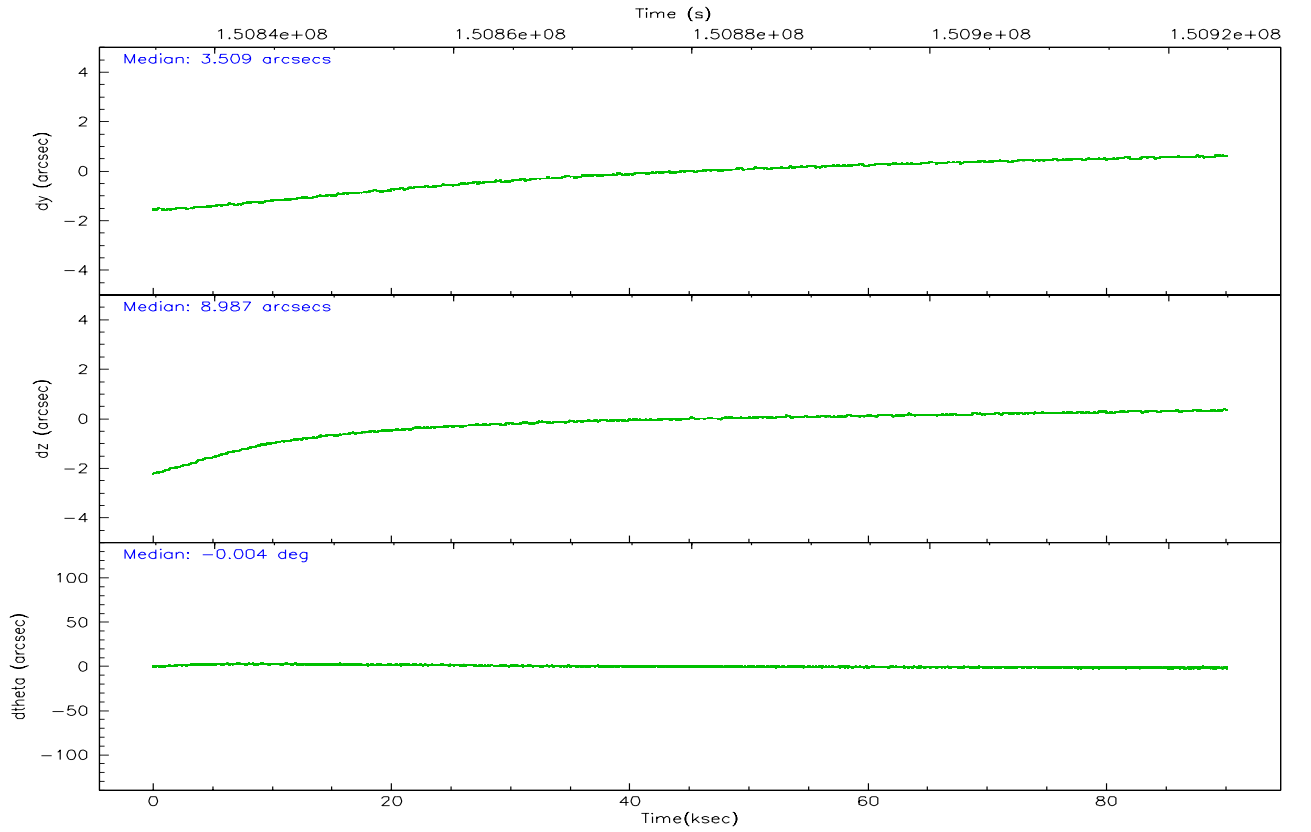
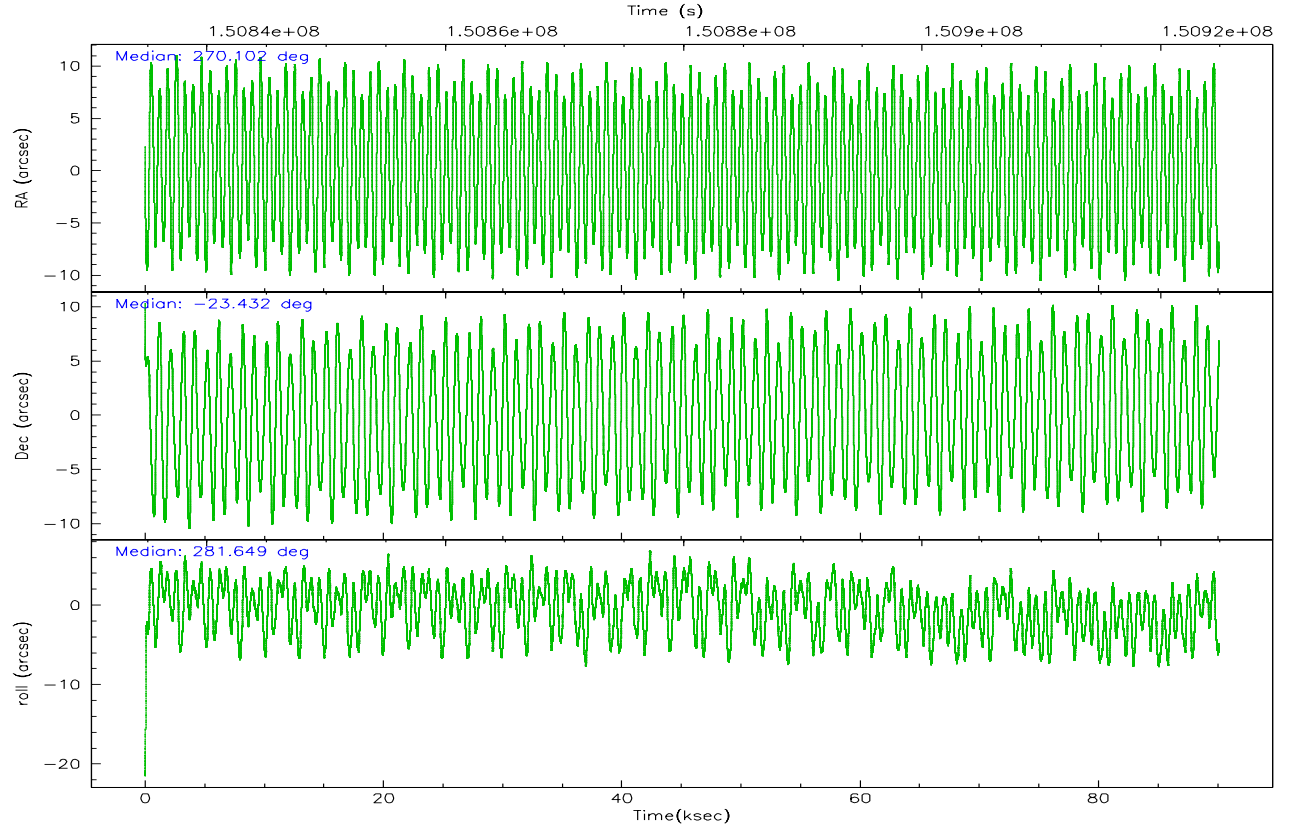


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-025678	ACIS-025678	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	270.082404	270.1024091771364	Subarray requested	NONE	NONE
Pointing Dec	-23.412032	-23.43214806626283	Alternating exposures requested	N	N
Pointing Roll	281.491684	281.6562610634702	Primary exposure time	0.000000	3.2
Roll angle	280.000000	280.000000			
Roll tolerance	10.000000	10.000000			
Roll constraint allows 180D rotation	N	N			
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	150834935.184000	150833224.00358			
Observation start date	2002-10-12T18:34:31	2002-10-12T18:07:04			
Observation end time	150924935.184000	150925282.84489			
Observation end date	2002-10-13T19:34:31	2002-10-13T19:41:22			
Read mode	TIMED	TIMED			

## 2.3 Aspect



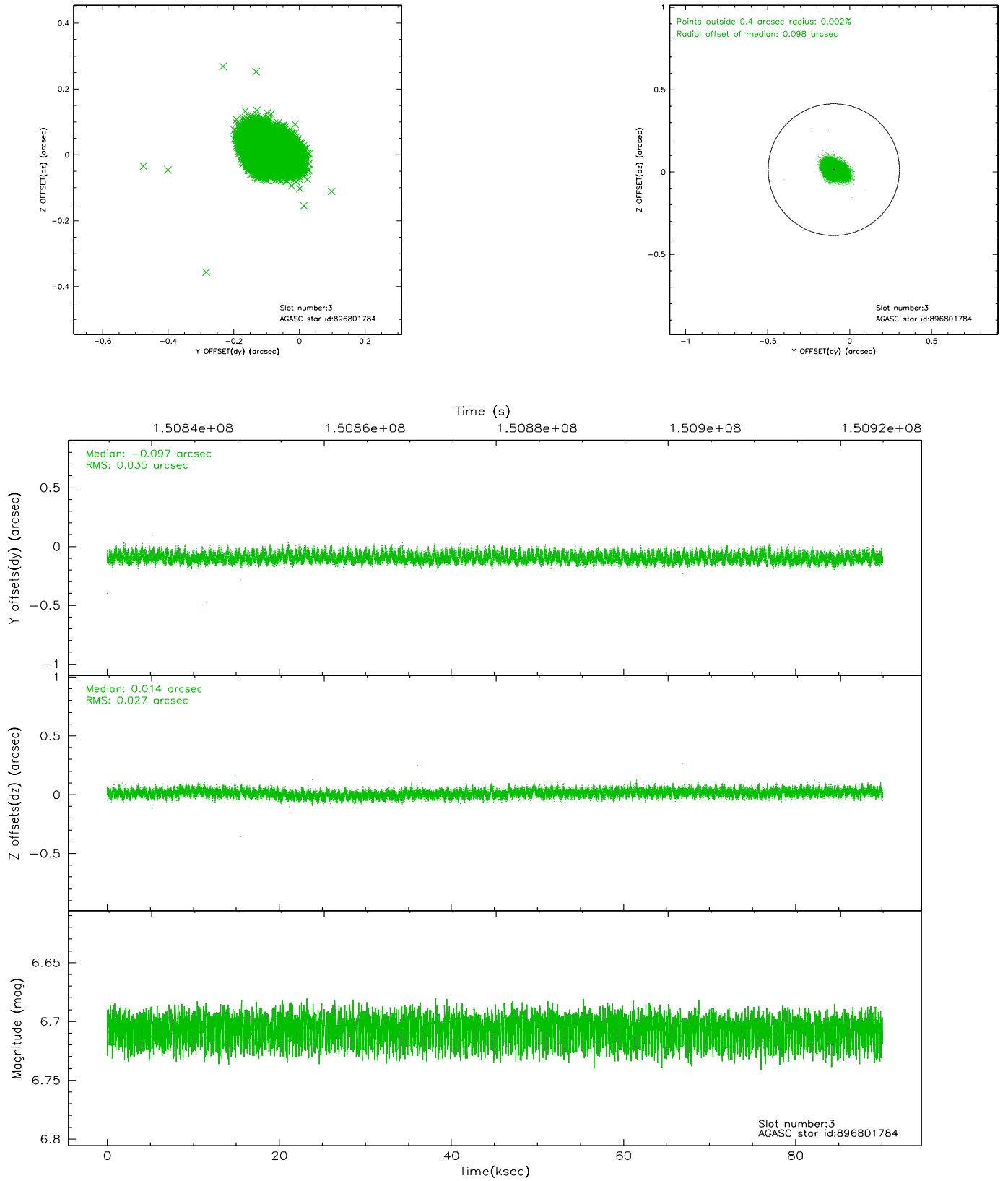


### Slot Statistics

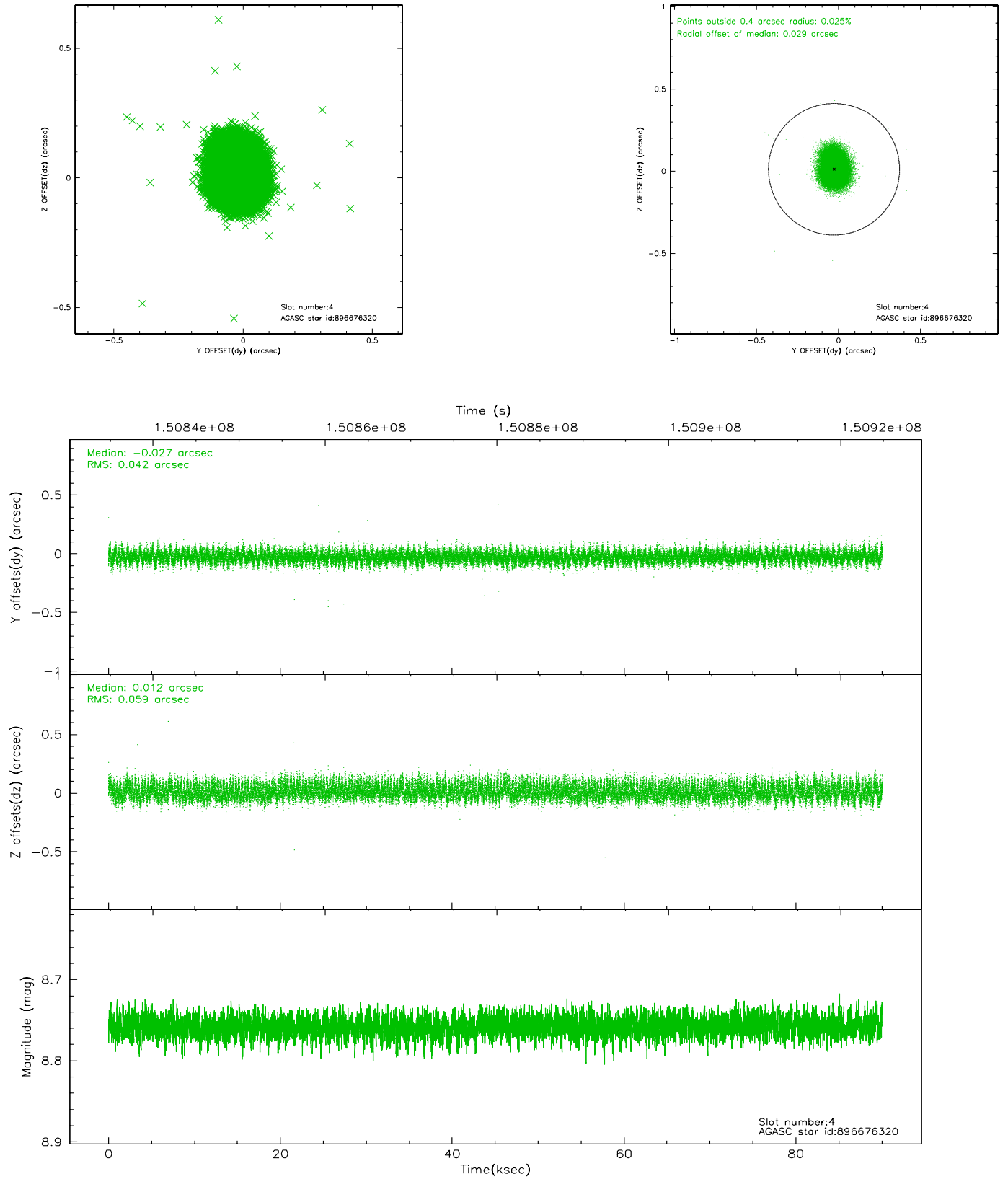
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	21983	-0.017	0.012	0.012	0.019	0.000000	0.000000	-755.99	-1729.98
1	FID	ACIS-S-4	7.20	21983	-0.029	0.005	0.024	0.037	0.000000	0.000000	2157.31	178.59
2	FID	ACIS-S-5	7.24	21984	0.011	-0.008	0.018	0.028	0.000000	0.000000	-1808.91	172.14
3	GUIDE	896801784	6.71	43969	-0.097	0.014	0.047	0.078	270.632066	-22.905544	-1420.85	2149.33
4	GUIDE	896676320	8.76	43950	-0.027	0.012	0.077	0.123	269.437710	-23.487119	-154.41	-2140.02
5	GUIDE	896670168	8.39	43958	-0.110	-0.026	0.060	0.097	269.482926	-22.975809	-1930.81	-1634.77
6	GUIDE	896676000	9.10	43945	0.164	-0.035	0.087	0.139	269.721369	-24.021788	1916.31	-1600.19
7	GUIDE	896795448	9.25	43915	0.068	0.034	0.097	0.154	270.755149	-23.090593	-685.44	2413.30

## 2.4 Star Slots

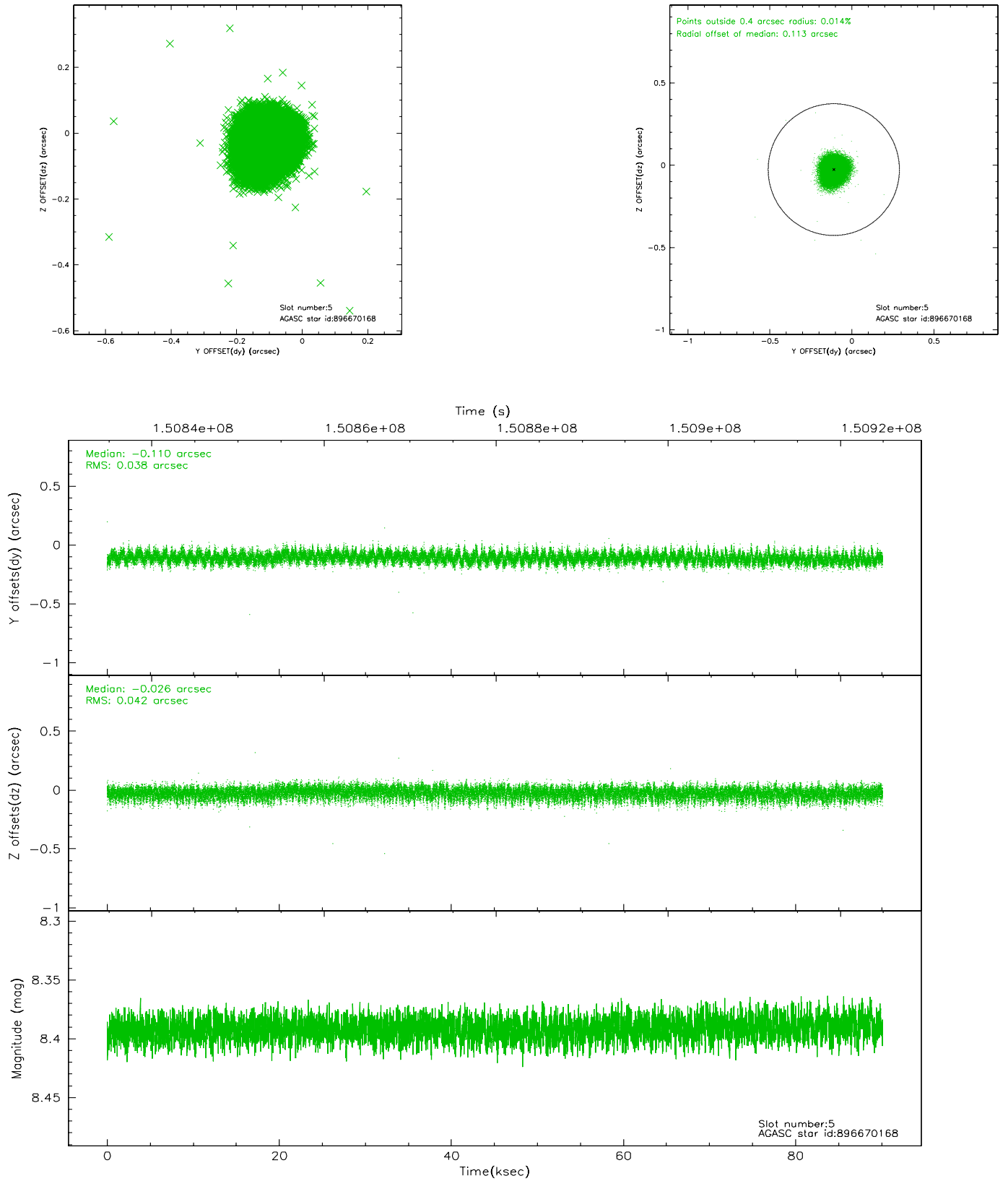
### 2.4.1 Slot 3



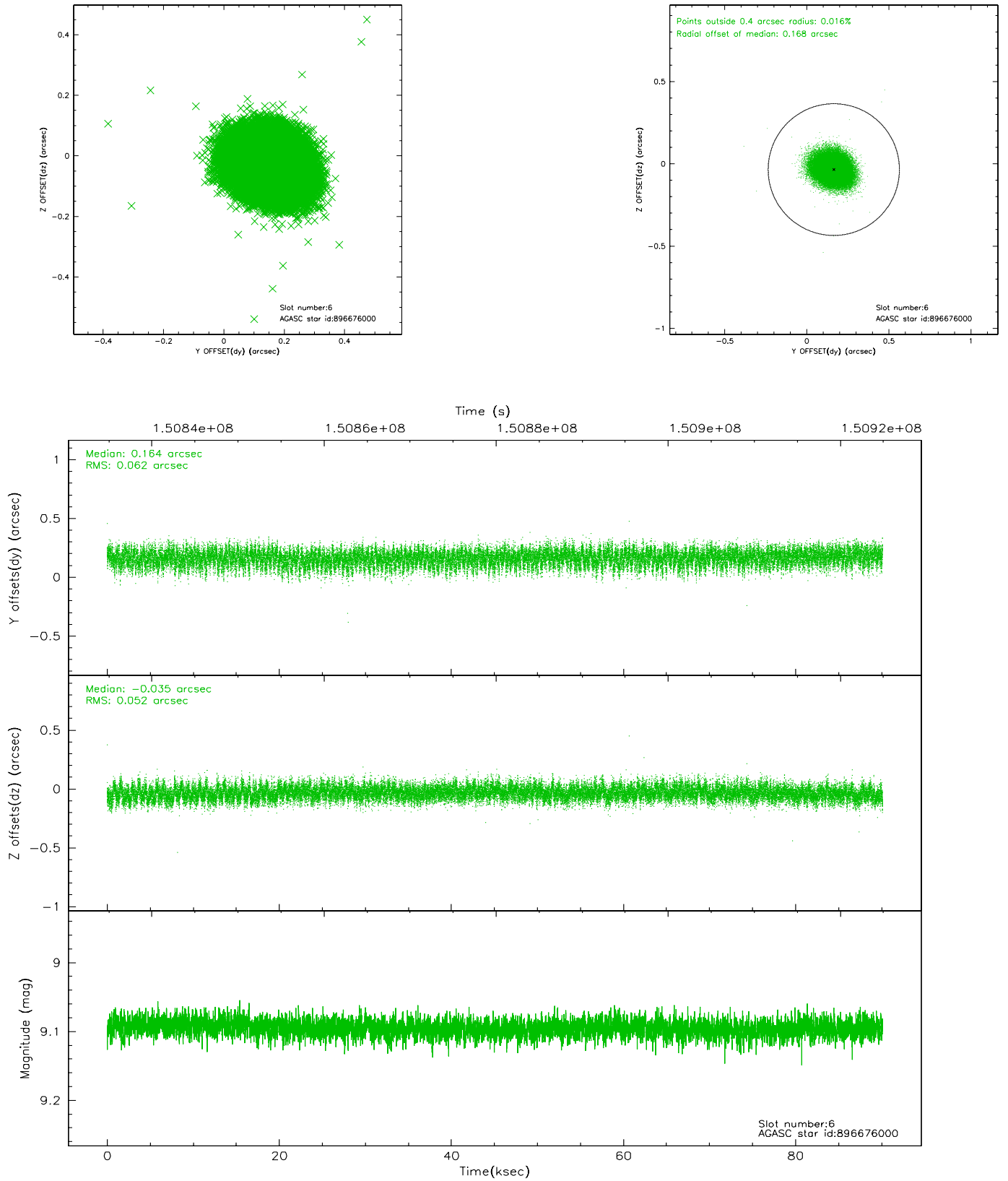
## 2.4.2 Slot 4



### 2.4.3 Slot 5

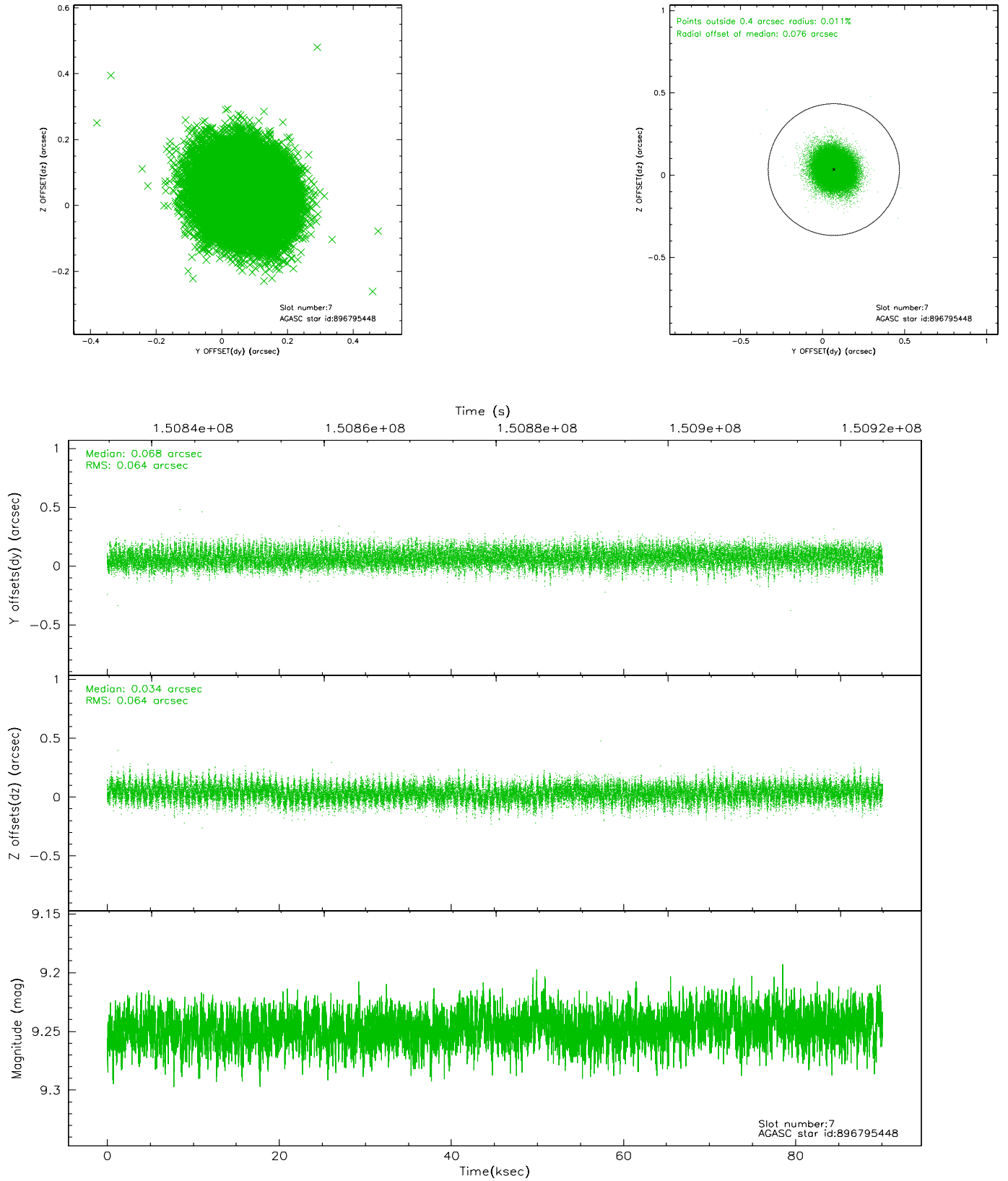


## 2.4.4 Slot 6



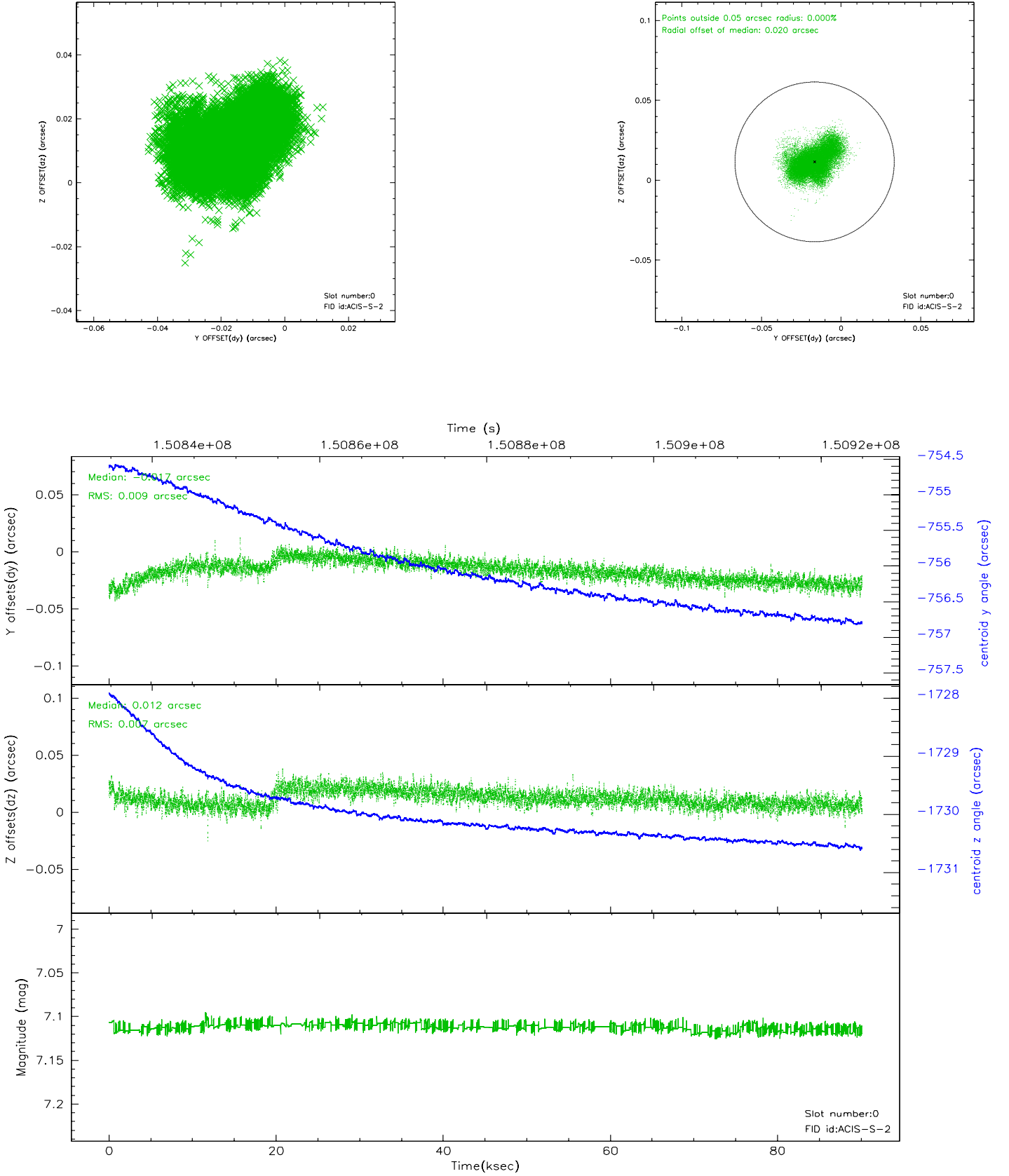


## 2.4.5 Slot 7

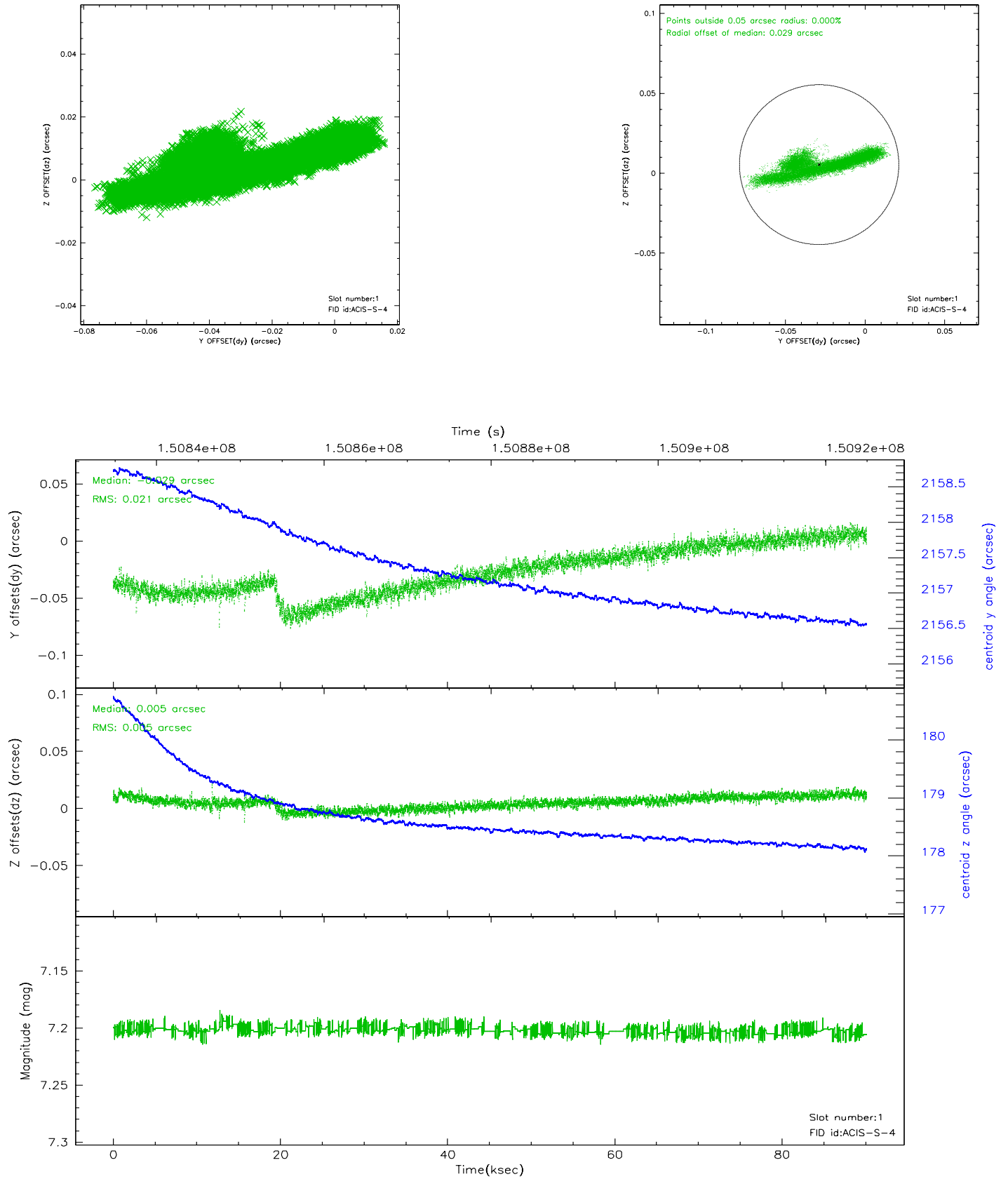


## 2.5 FID Slots

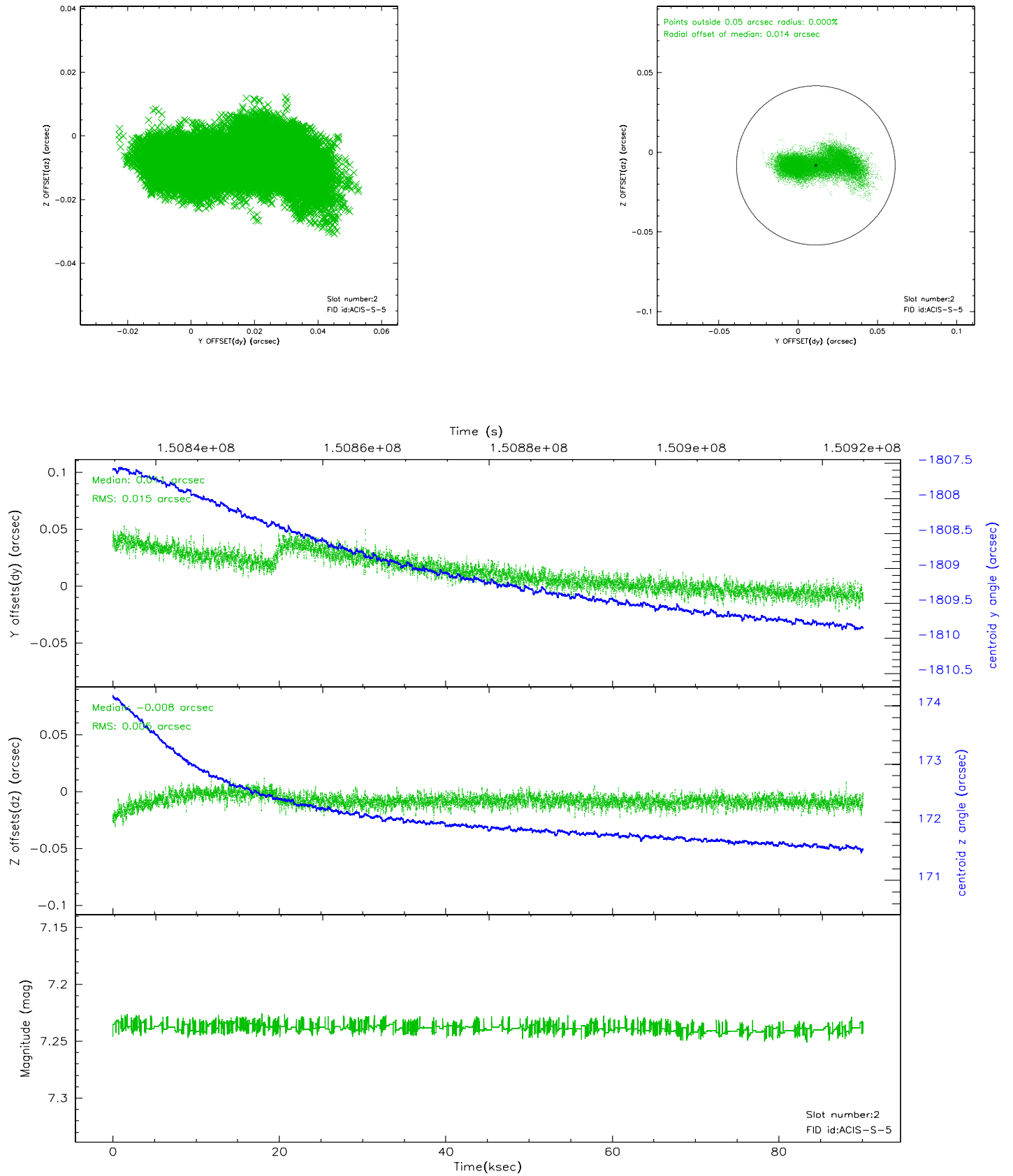
### 2.5.1 Slot 0



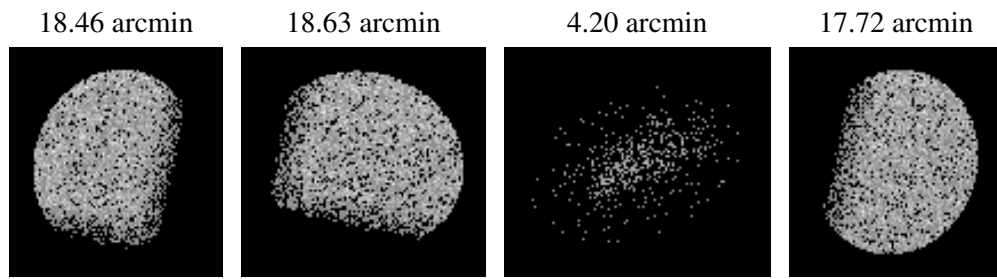
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	90.131

### A.2 Comments

Roll constraint met.