

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.2

Observation 4969 - L2 Version 001  
Chandra X-Ray Center

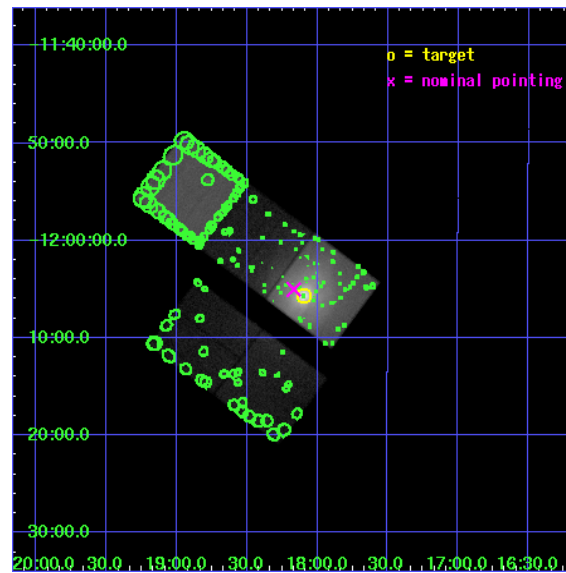
L2 Processing Date : Jun 8 2006

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# 1 Front

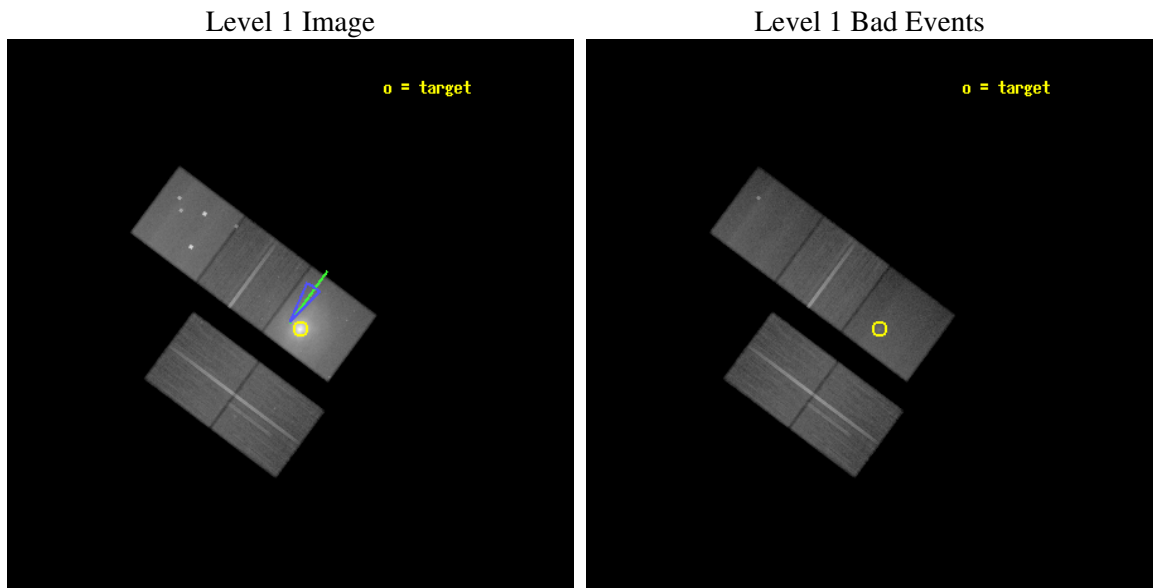
seq_num	800415
obs_id	4969
title	A Deep Look at the radio-ICM interaction in the powerful radio galaxy Hydra A
observer	Prof. Brian McNamara
object	Hydra A
dtcycle	0
cycle	P
ra_targ	139.52375
dec_targ	-12.095139
ra_nom	139.54175007053
dec_nom	-12.08416189906
roll_nom	36.720131836792
revision	2
ontime	98198.617840737
livetime	96915.580605877
ontime2	98186.053879797
ontime3	98186.053839952
ontime5	98198.617840737
ontime6	98192.335860282
ontime7	98198.617840737
l2events	1493069



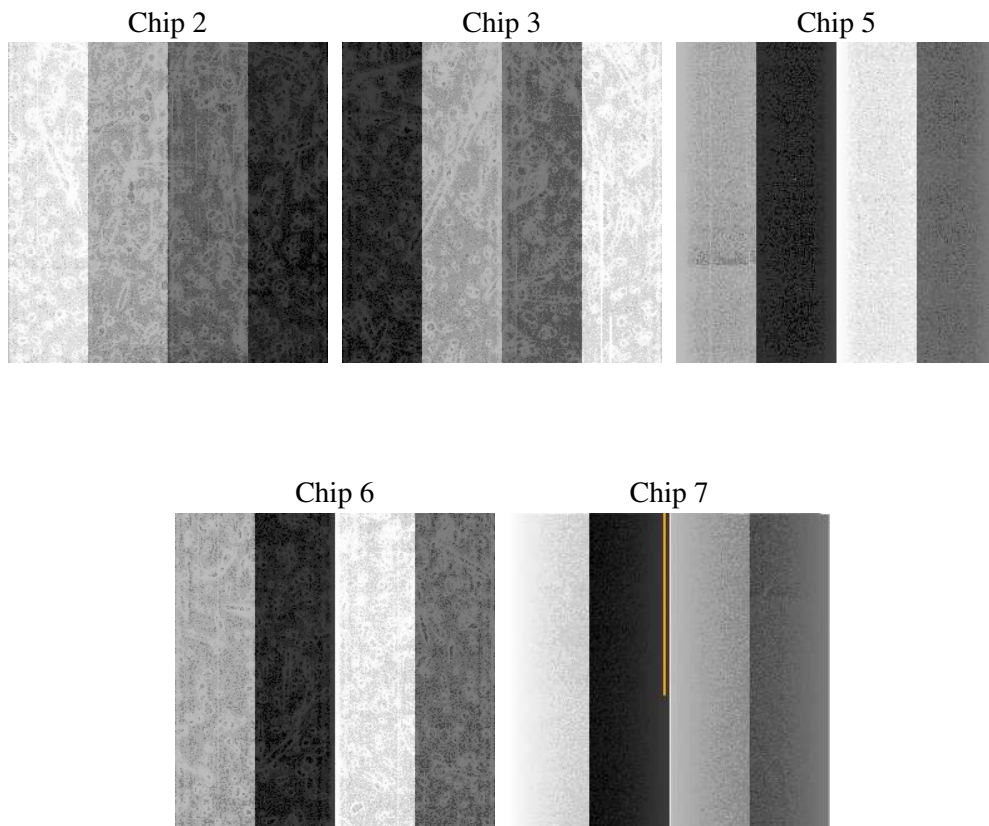
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.7.2
caldbver	3.2.2
date	2006-06-08T13:08:44
revision	2

sched_exp_time	98100.000000
ontime	98203.762539446
ontime2	98191.198578507
ontime3	98191.198538661
ontime5	98203.762559384
ontime6	98197.480558991
ontime7	98203.762539446
l1events	3577123

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	499377	487679	722428	523415	1344224
rejected events	445048	427914	350395	438610	329291
rejected %	89%	87%	48%	83%	24%

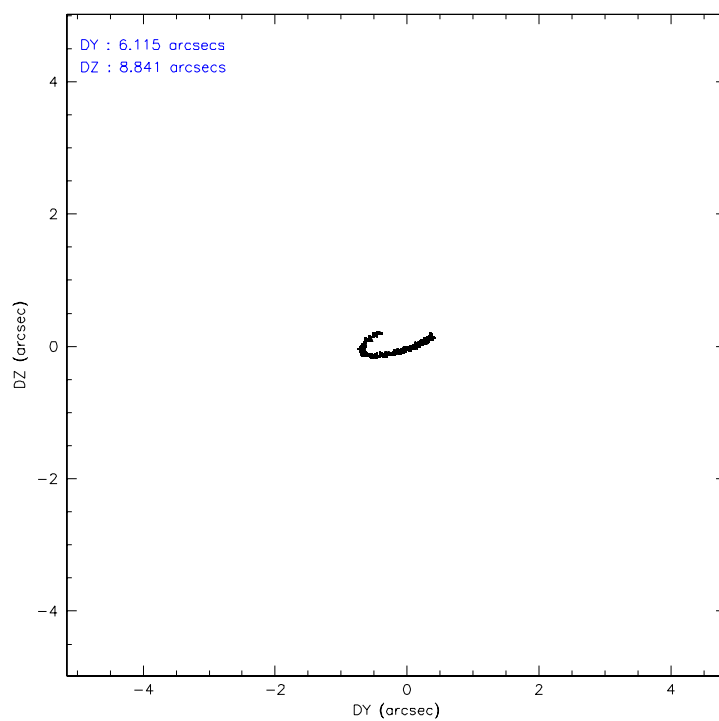
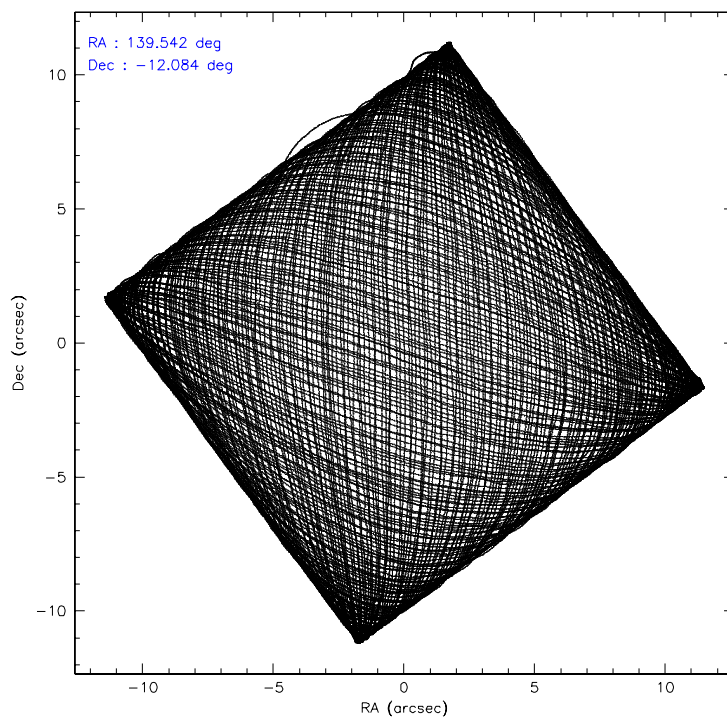
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	23086	28152	62549	45940	235675
	4%	5%	8%	8%	17%
grade 1 events	276	286	237	309	525
	0%	0%	0%	0%	0%
grade 2 events	11340	10962	103964	14122	283069
	2%	2%	14%	2%	21%
grade 3 events	5572	5633	9874	6710	97366
	1%	1%	1%	1%	7%
grade 4 events	5498	5671	8664	6490	94165
	1%	1%	1%	1%	7%
grade 5 events	16041	19111	36252	19886	47191
	3%	3%	5%	3%	3%
grade 6 events	8837	9347	187002	11544	304700
	1%	1%	25%	2%	22%
grade 7 events	428727	408517	313886	418414	281533
	85%	83%	43%	79%	20%

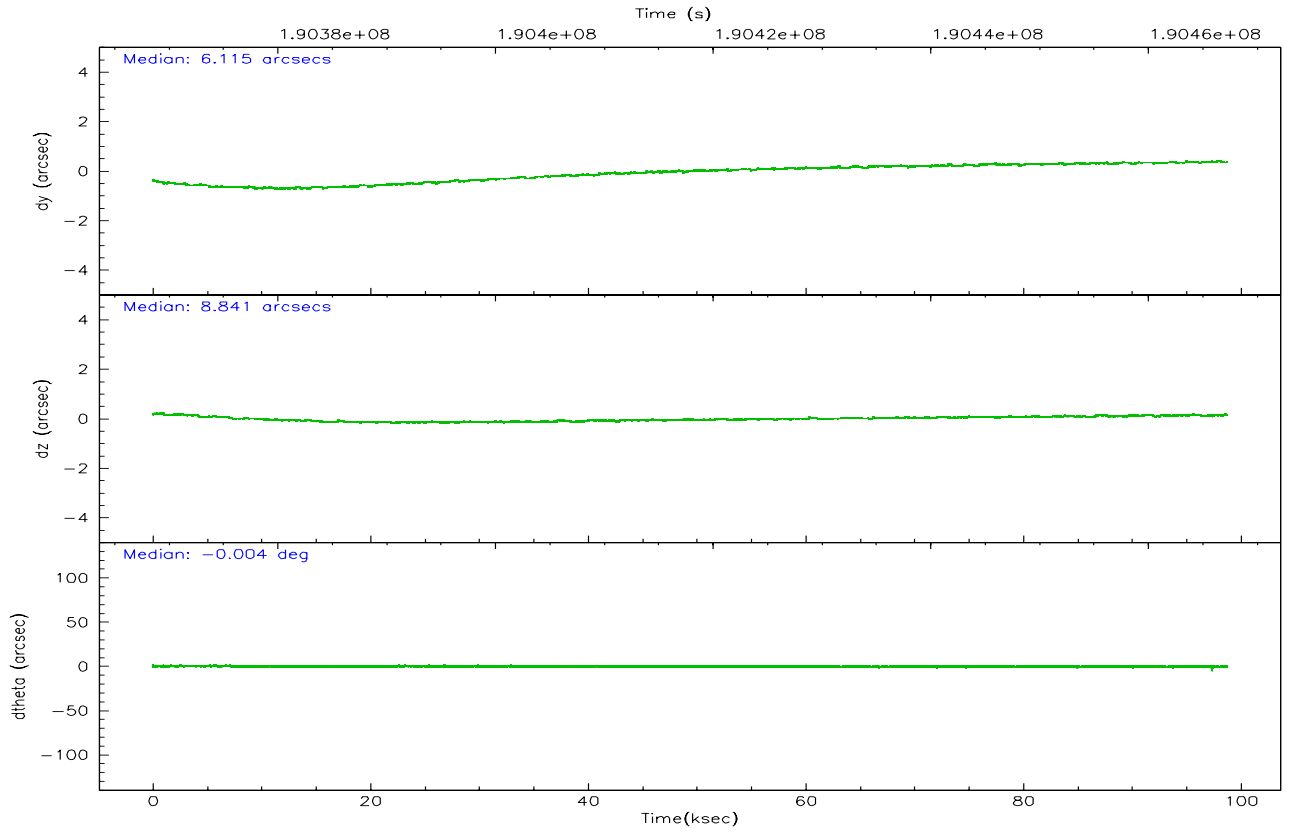
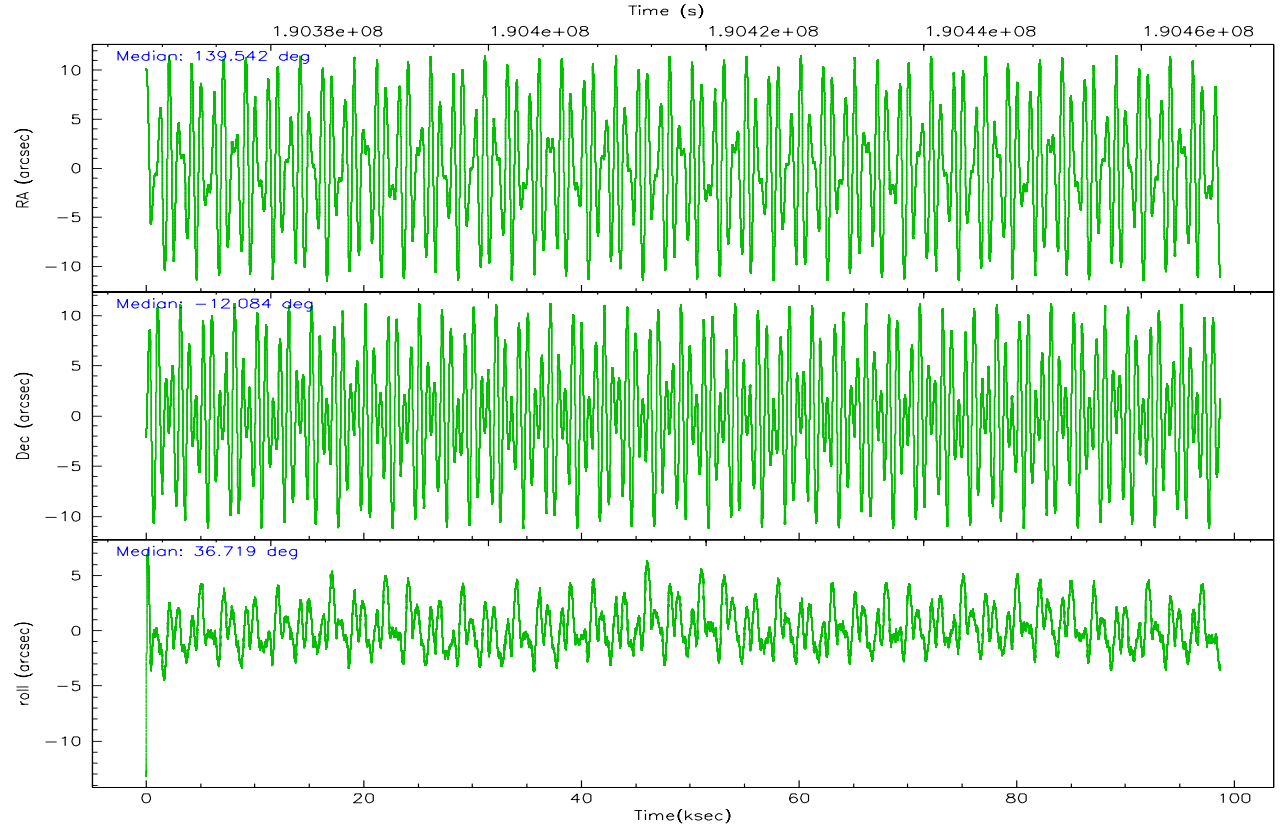


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	139.531107	139.5417500705276	Alternating exposures requested	N	N
Pointing Dec	-12.109306	-12.08416189906046	Primary exposure time	0.000000	3.1
Pointing Roll	36.561274	36.7201318367924			
Roll angle	35.000000	35.000000			
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)	-195.132523	-195.1284676081669			
SIM translation stage offset (mm)	5	4.995945025159102			
Observation start time	190369133.184000	190367959.99434			
Observation start date	2004-01-13T08:17:49	2004-01-13T07:59:19			
Observation end time	190467233.184000	190468151.6987			
Observation end date	2004-01-14T11:32:49	2004-01-14T11:49:11			
Read mode	TIMED	TIMED			

## 2.3 Aspect



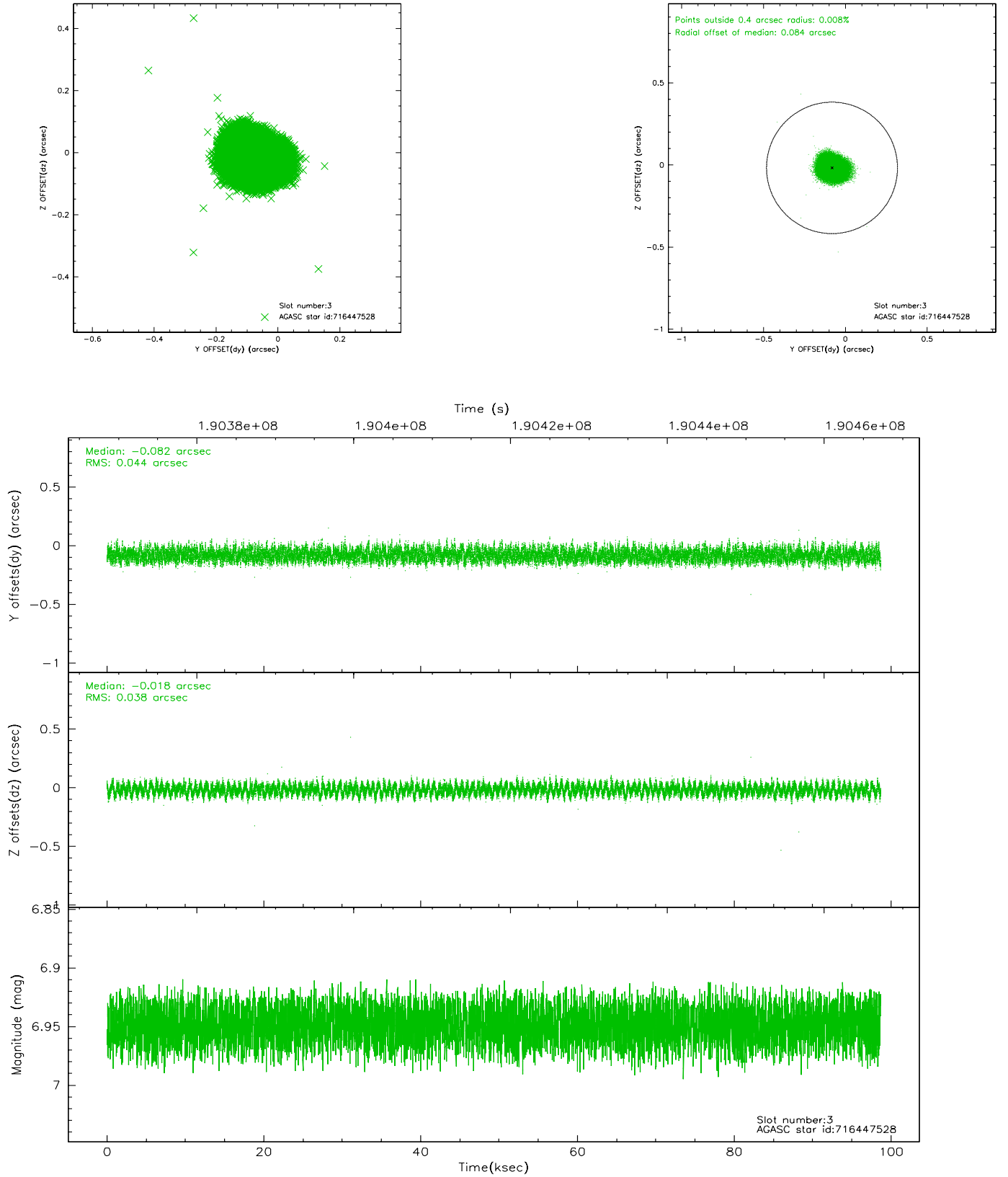


### Slot Statistics

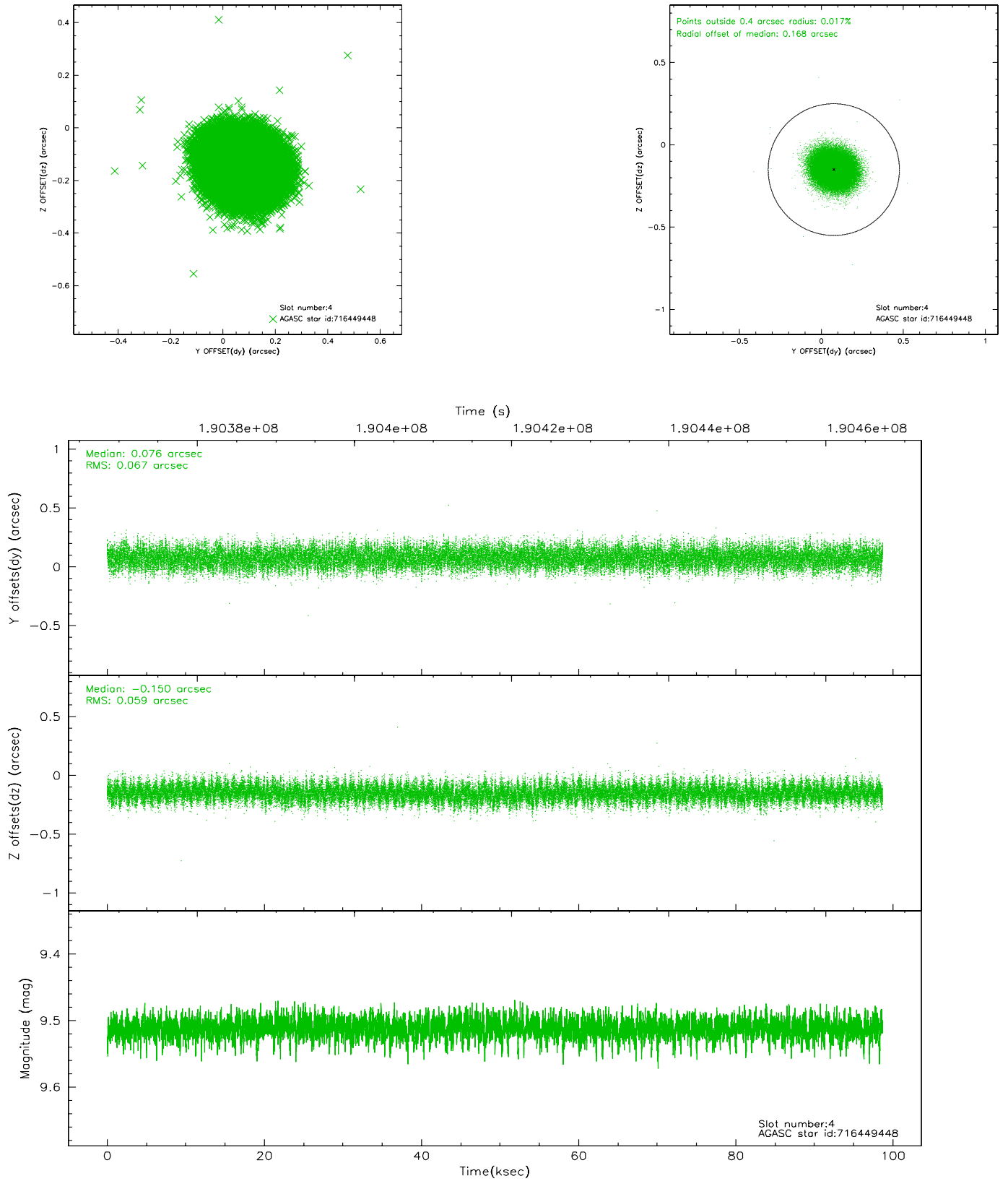
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	24067	-0.003	0.070	0.008	0.018	0.000000	0.000000	-759.07	-1627.14
1	FID	ACIS-S-4	7.22	24066	0.020	-0.017	0.007	0.031	0.000000	0.000000	2154.28	281.34
2	FID	ACIS-S-5	7.23	24068	-0.049	-0.043	0.009	0.021	0.000000	0.000000	-1812.07	274.91
3	GUIDE	716447528	6.95	48140	-0.082	-0.018	0.063	0.096	139.371683	-11.961966	-135.30	760.43
4	GUIDE	716449448	9.51	48107	0.076	-0.150	0.096	0.153	138.902949	-11.840077	-1201.78	2094.88
5	GUIDE	716452328	8.83	48129	0.077	0.052	0.064	0.104	138.982178	-12.235590	-1823.53	783.91
6	GUIDE	716452568	9.30	48049	0.097	0.092	0.093	0.148	139.317316	-12.008019	-387.60	741.46
7	GUIDE	716578888	9.26	48117	-0.169	0.025	0.075	0.122	139.858876	-11.605741	2007.81	767.27

## 2.4 Star Slots

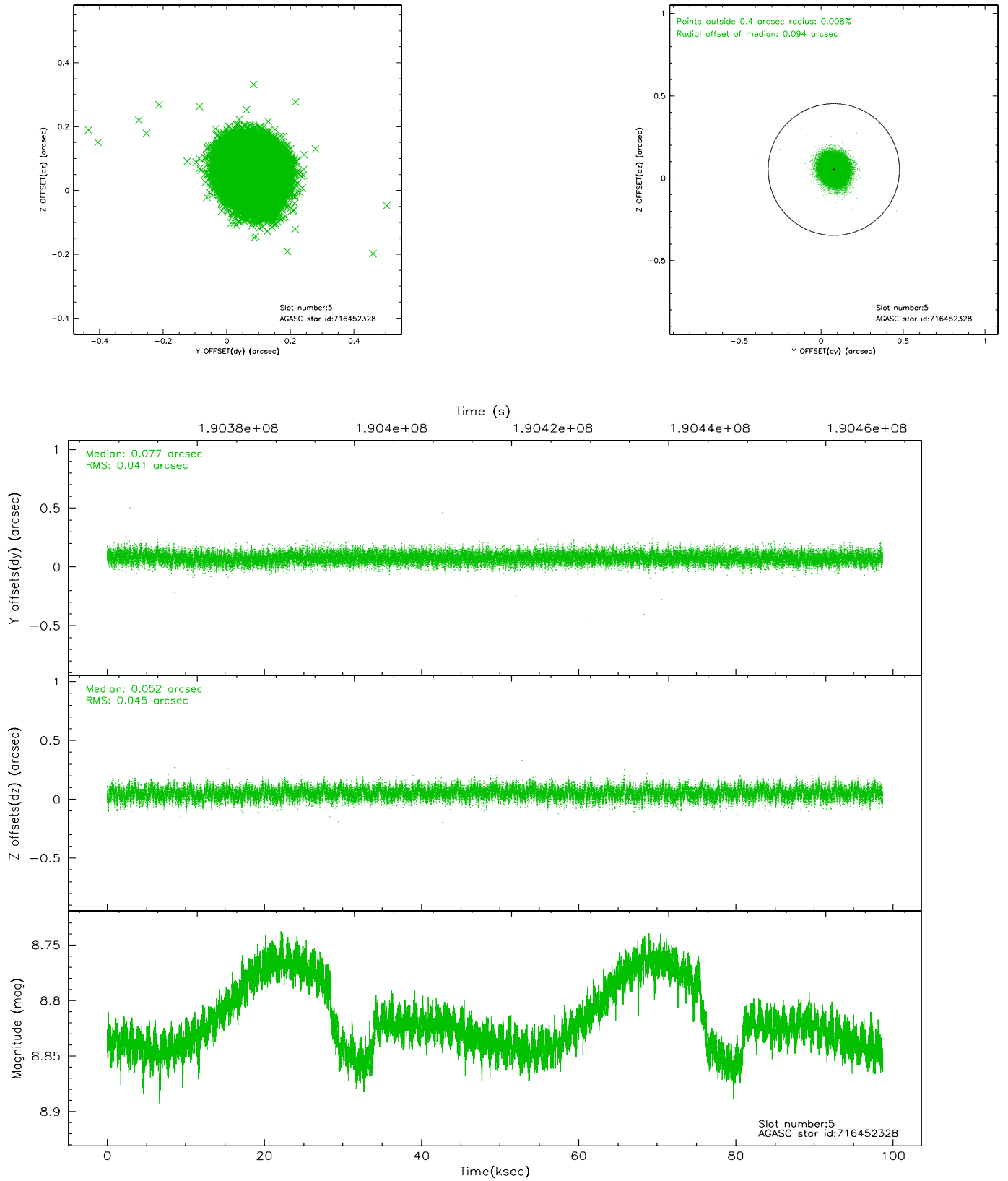
### 2.4.1 Slot 3



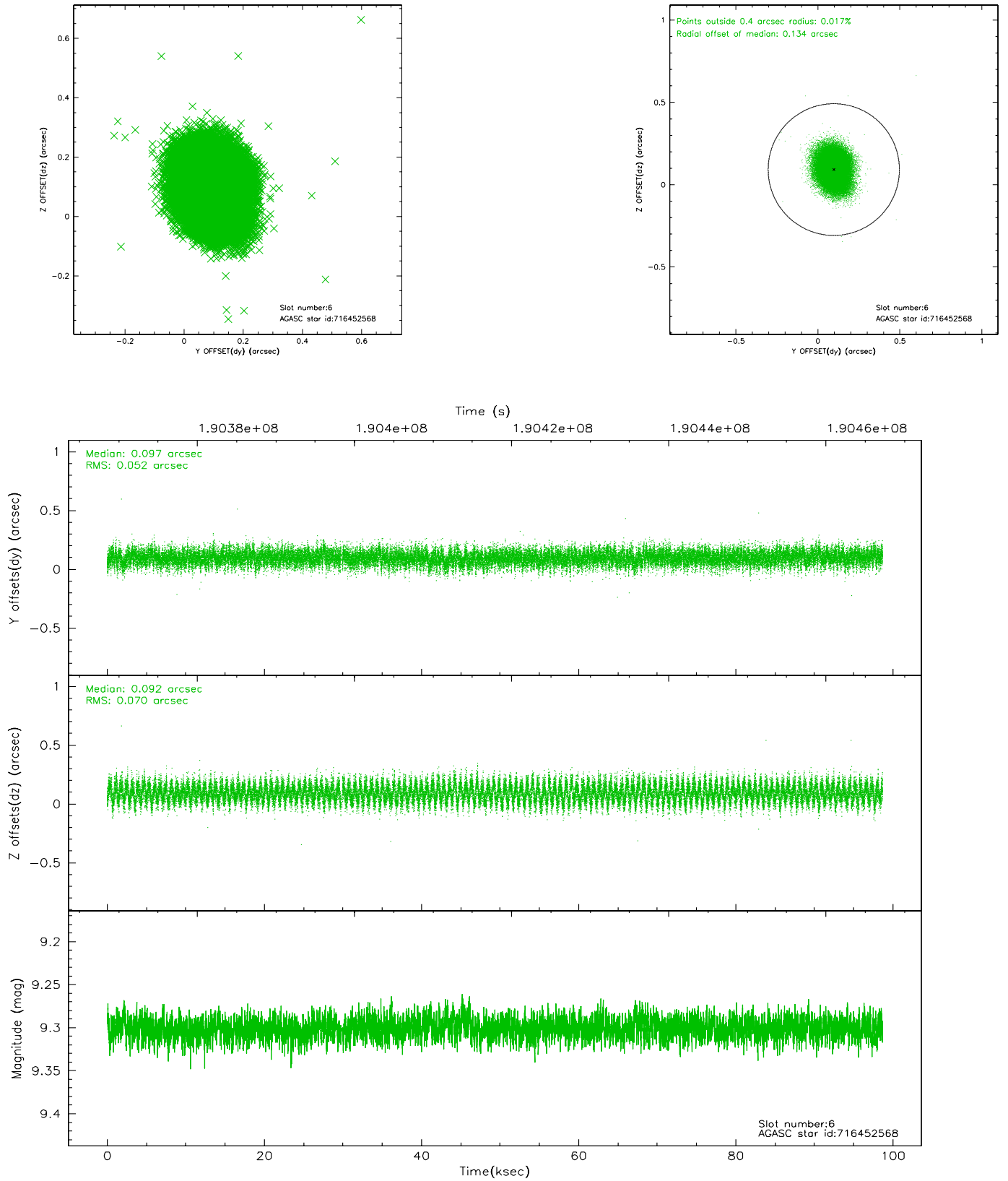
## 2.4.2 Slot 4



### 2.4.3 Slot 5

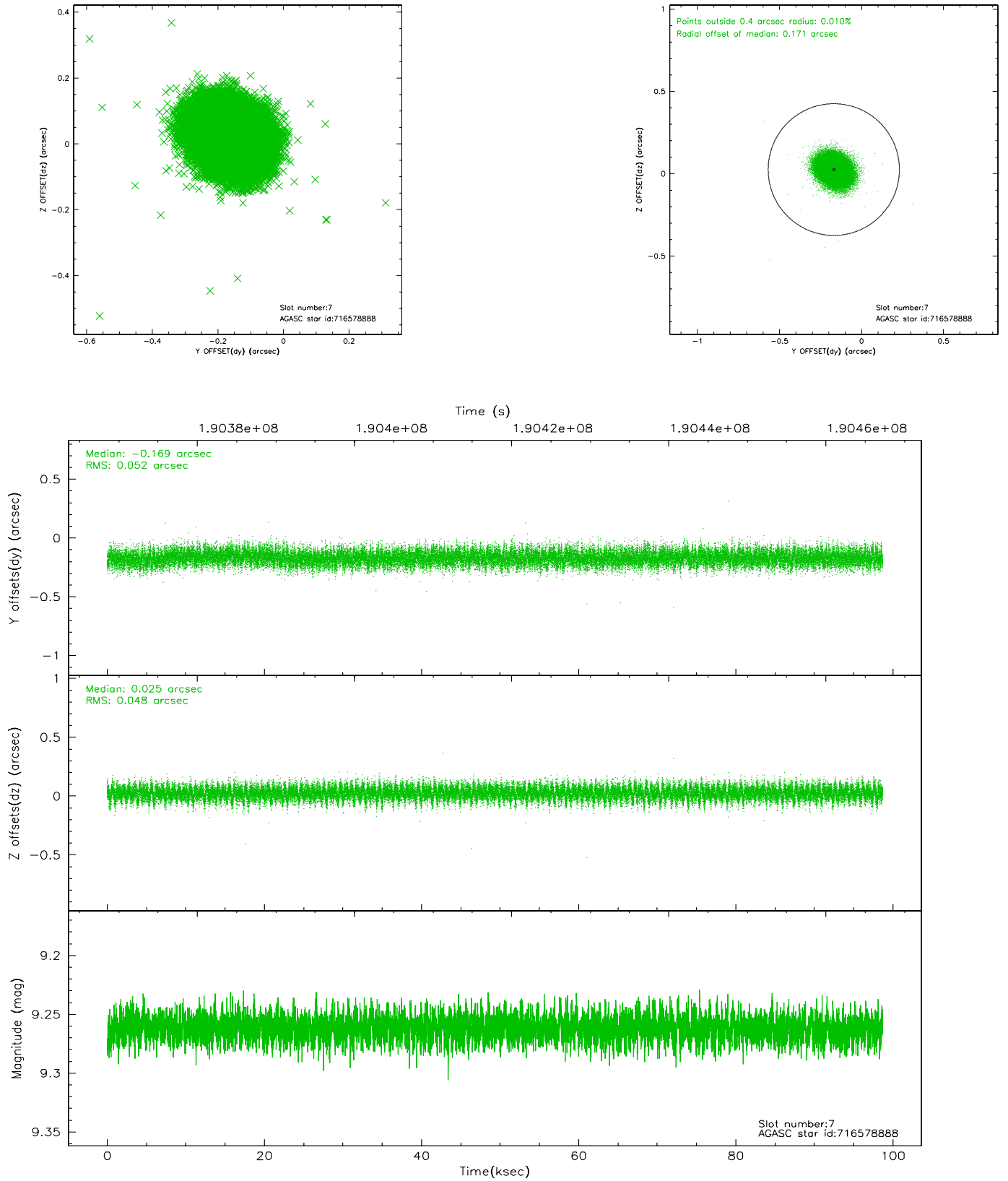


## 2.4.4 Slot 6



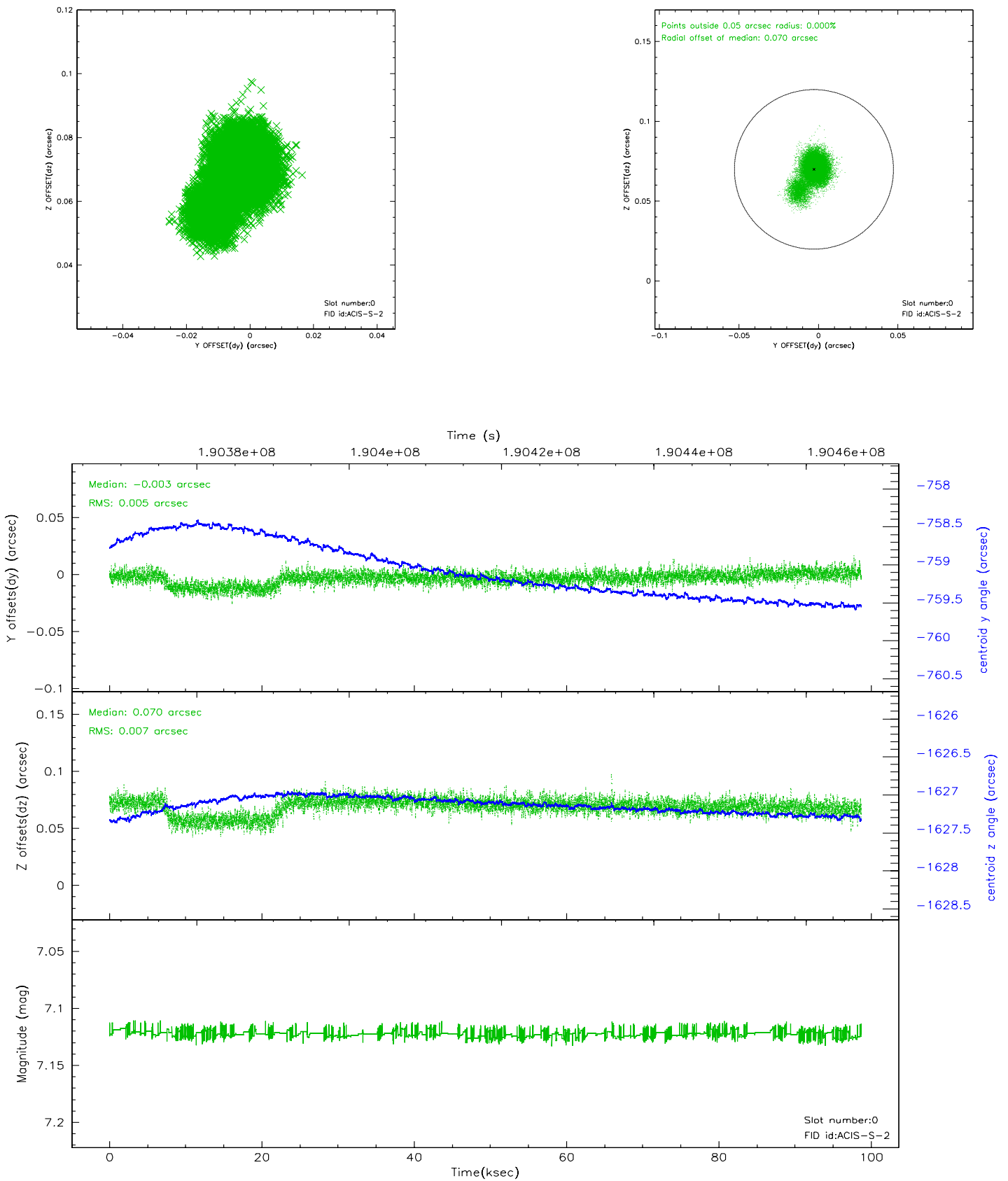


## 2.4.5 Slot 7

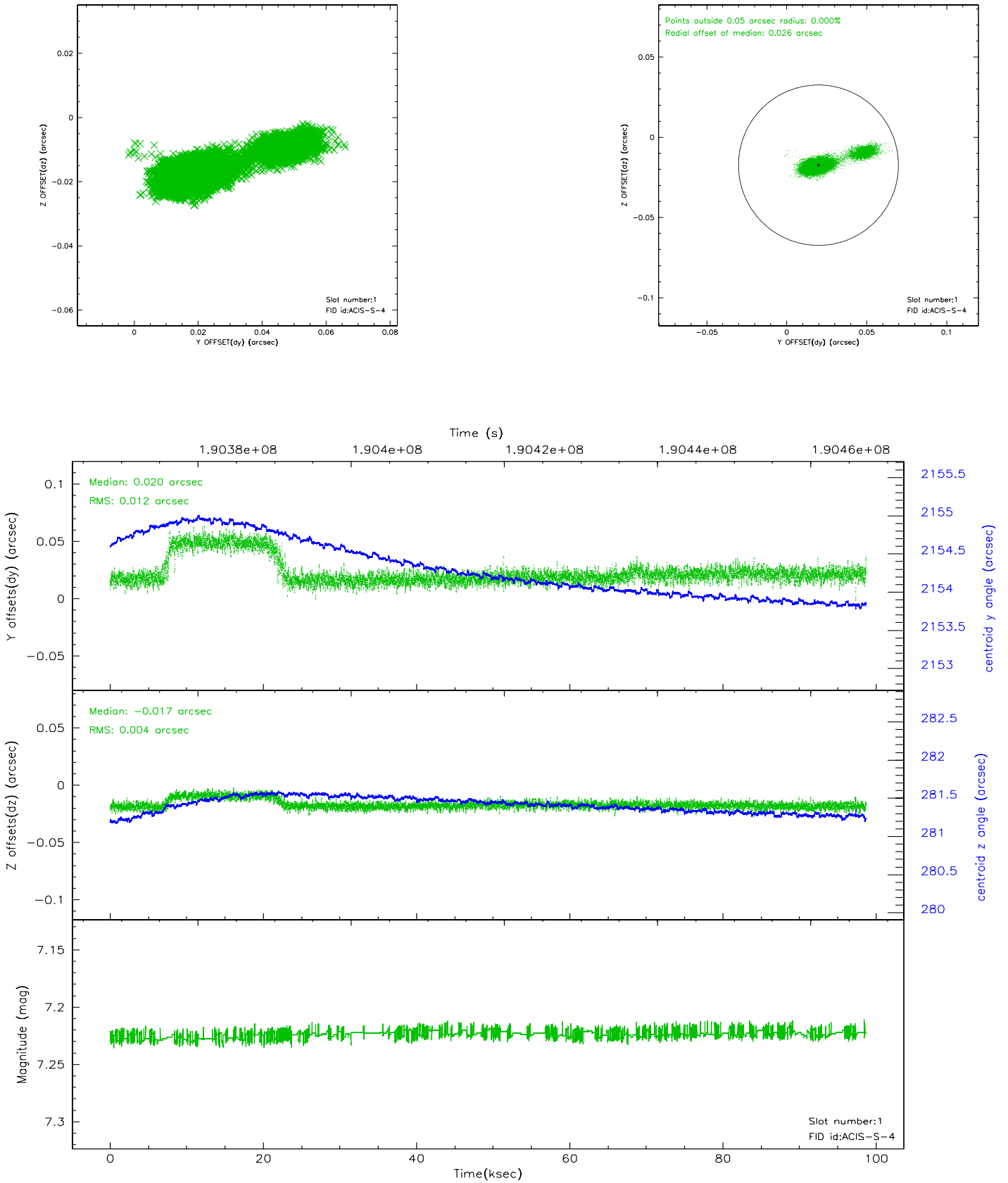


## 2.5 FID Slots

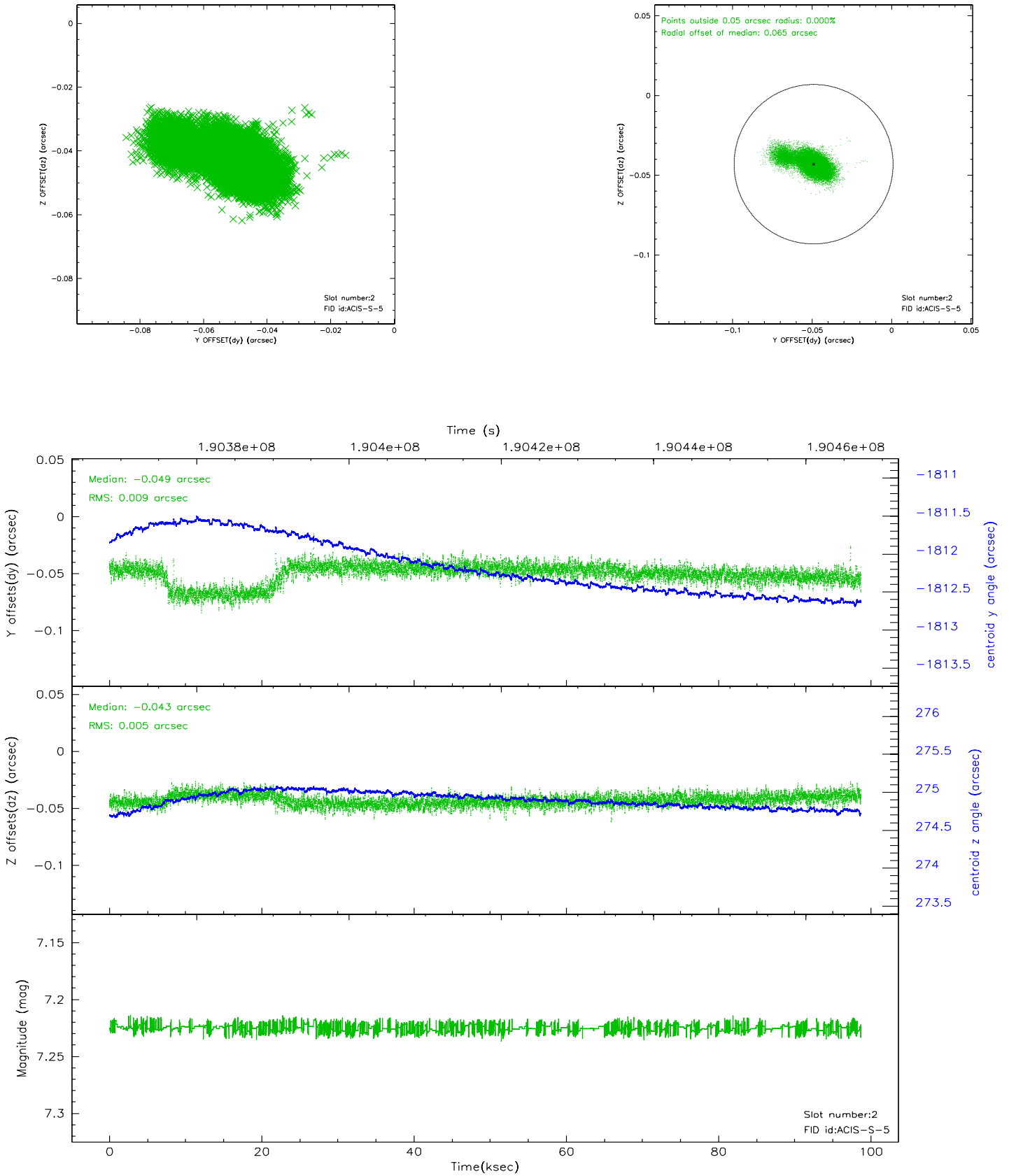
### 2.5.1 Slot 0



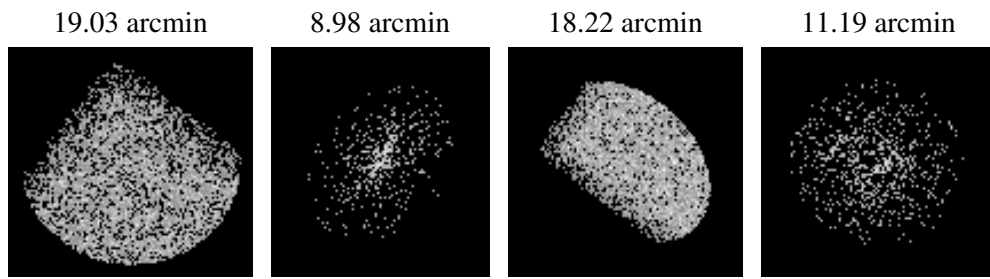
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.06.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	98.198

### A.2 Comments

Roll constraint met.