

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 2960 - L2 Version 001  
Chandra X-Ray Center

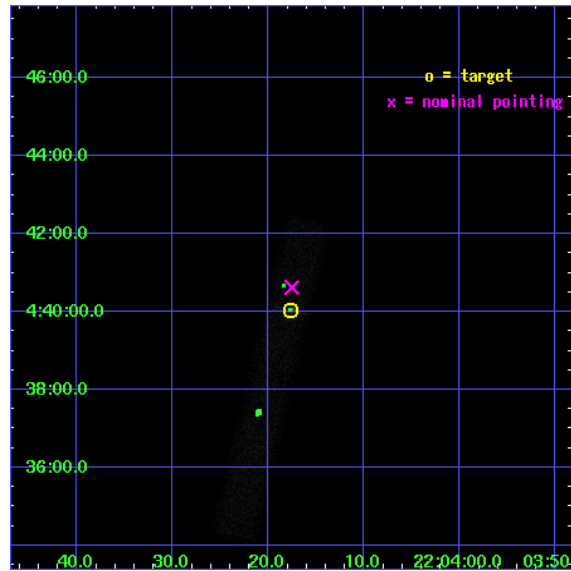
L2 Processing Date : Sep 14 2006

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# 1 Front

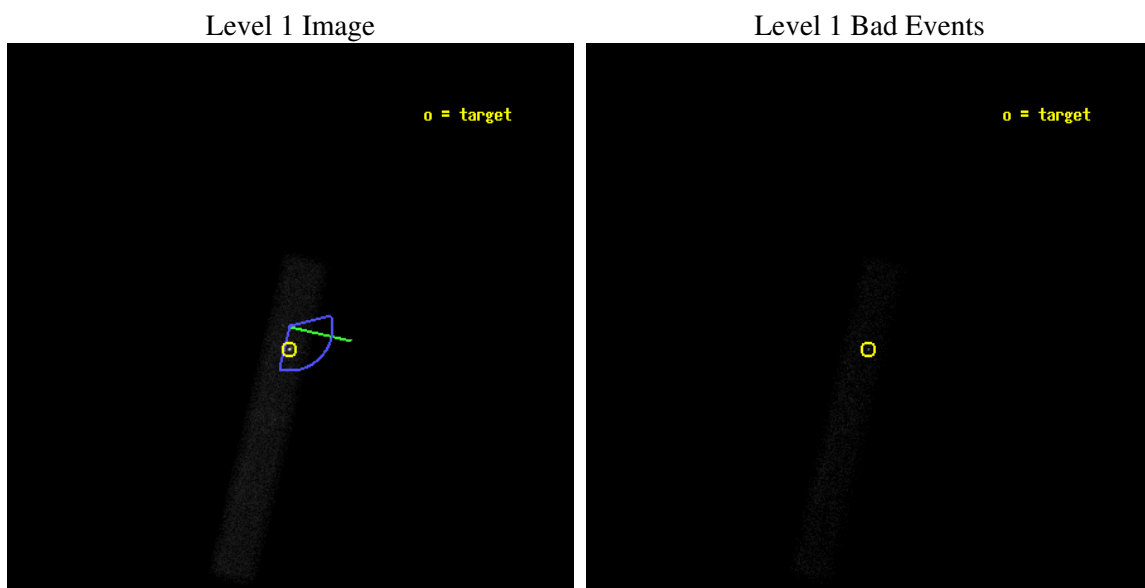
seq_num	700399
obs_id	2960
title	THE PHYSICS OF X-RAY/OPTICAL JETS
observer	Professor C. Urry
object	PKS2201+044
dtcycle	0
cycle	P
ra_targ	331.07375
dec_targ	4.667306
ra_nom	331.07318591408
dec_nom	4.6770063213141
roll_nom	103.44793178517
revision	2
ontime	40400.400602013
livetime	36641.030838031
ontime7	40400.400602013
l2events	31424



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.9
caldbver	3.2.3
date	2006-09-14T19:31:36
revision	2

sched_exp_time	39900.000000
ontime	40760.395141691
ontime7	40760.395141691
l1events	57677

### 2.1.4 Events

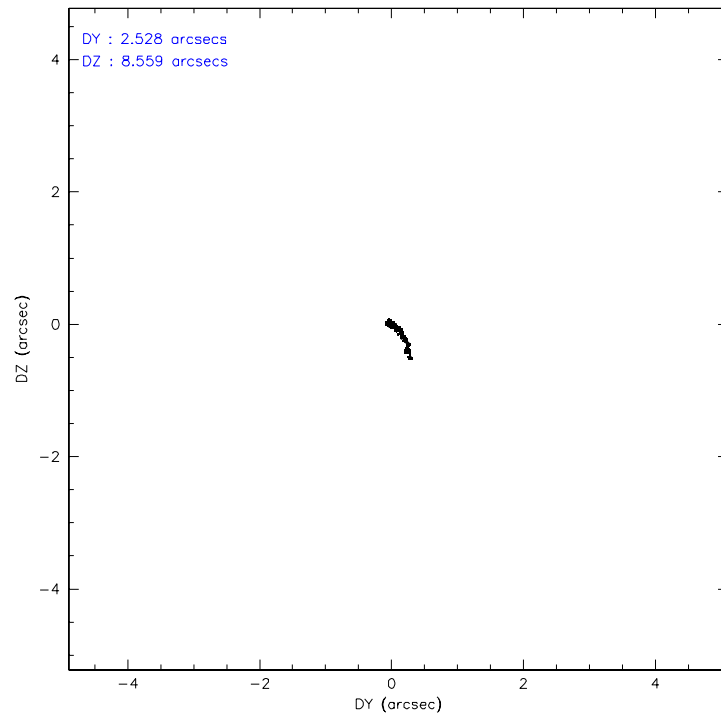
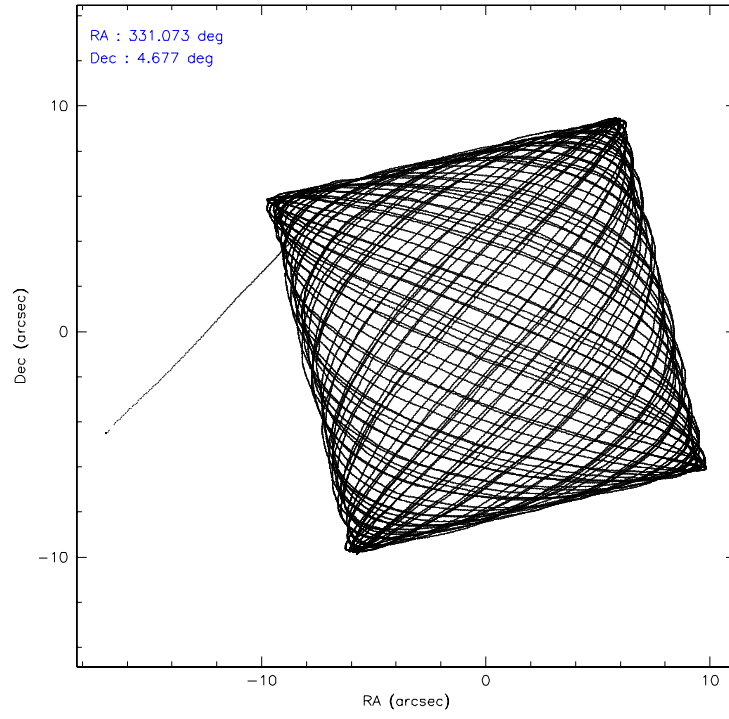
	<b>ccd 7</b>
level 1 events	57677
rejected events	25422
rejected %	44%

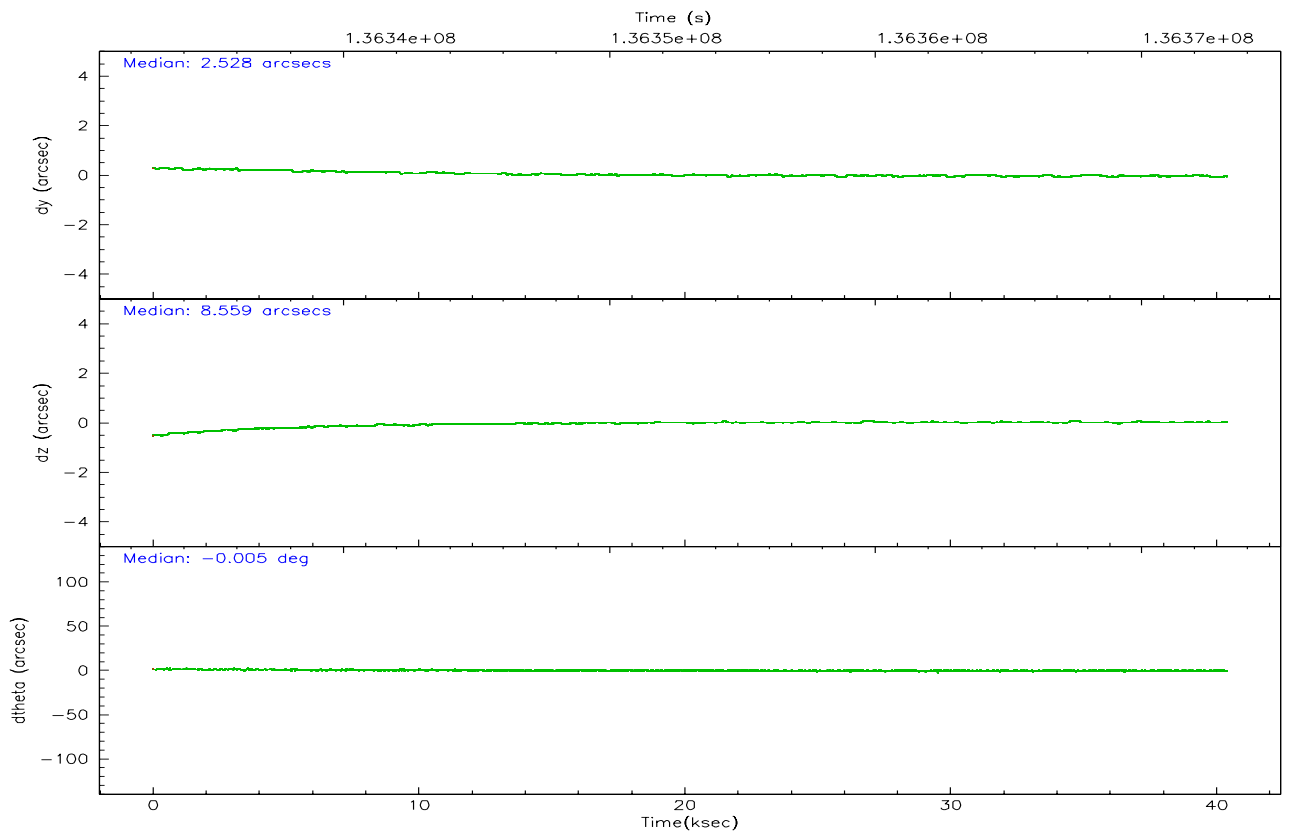
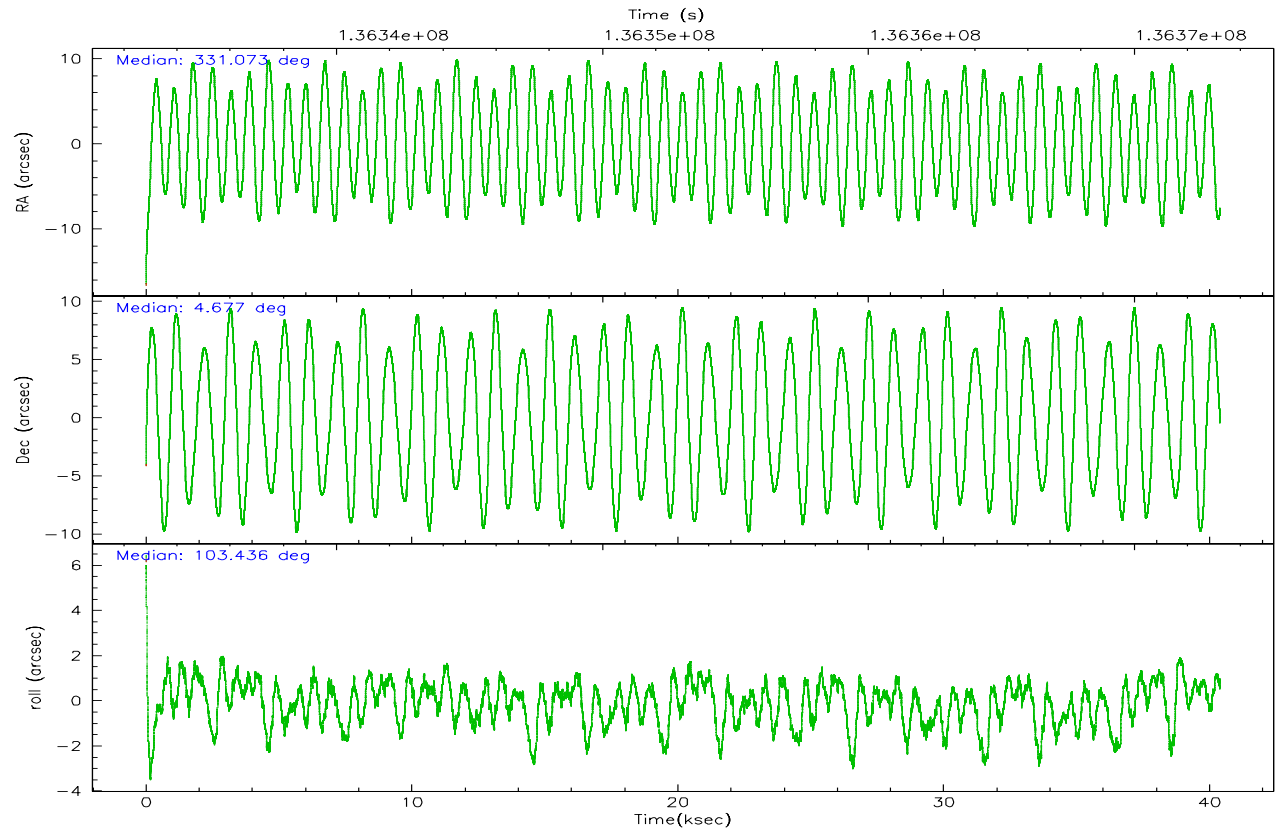
	<b>ccd 7</b>
grade 0 events	5350
	9%
grade 1 events	56
	0%
grade 2 events	7556
	13%
grade 3 events	3564
	6%
grade 4 events	3449
	5%
grade 5 events	3276
	5%
grade 6 events	12555
	21%
grade 7 events	21871
	37%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-7	ACIS-7	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
Pointing RA	331.092238	331.0731859140761	Subarray requested	1/8	1/8
Pointing Dec	4.657443	4.677006321314138	Subarray start row	0	449
Pointing Roll	103.289754	103.4479317851742	Subarray row count	1024	128
Roll angle	135.000000	135.000000	Alternating exposures requested	N	N
Roll tolerance	59.000000	59.000000	Primary exposure time	0.000000	0.4
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	136333330.184000	136332202.9828			
Observation start date	2002-04-27T22:21:06	2002-04-27T22:03:22			
Observation end time	136373230.184000	136374084.4845			
Observation end date	2002-04-28T09:26:06	2002-04-28T09:41:24			
Read mode	TIMED	TIMED			

## 2.3 Aspect





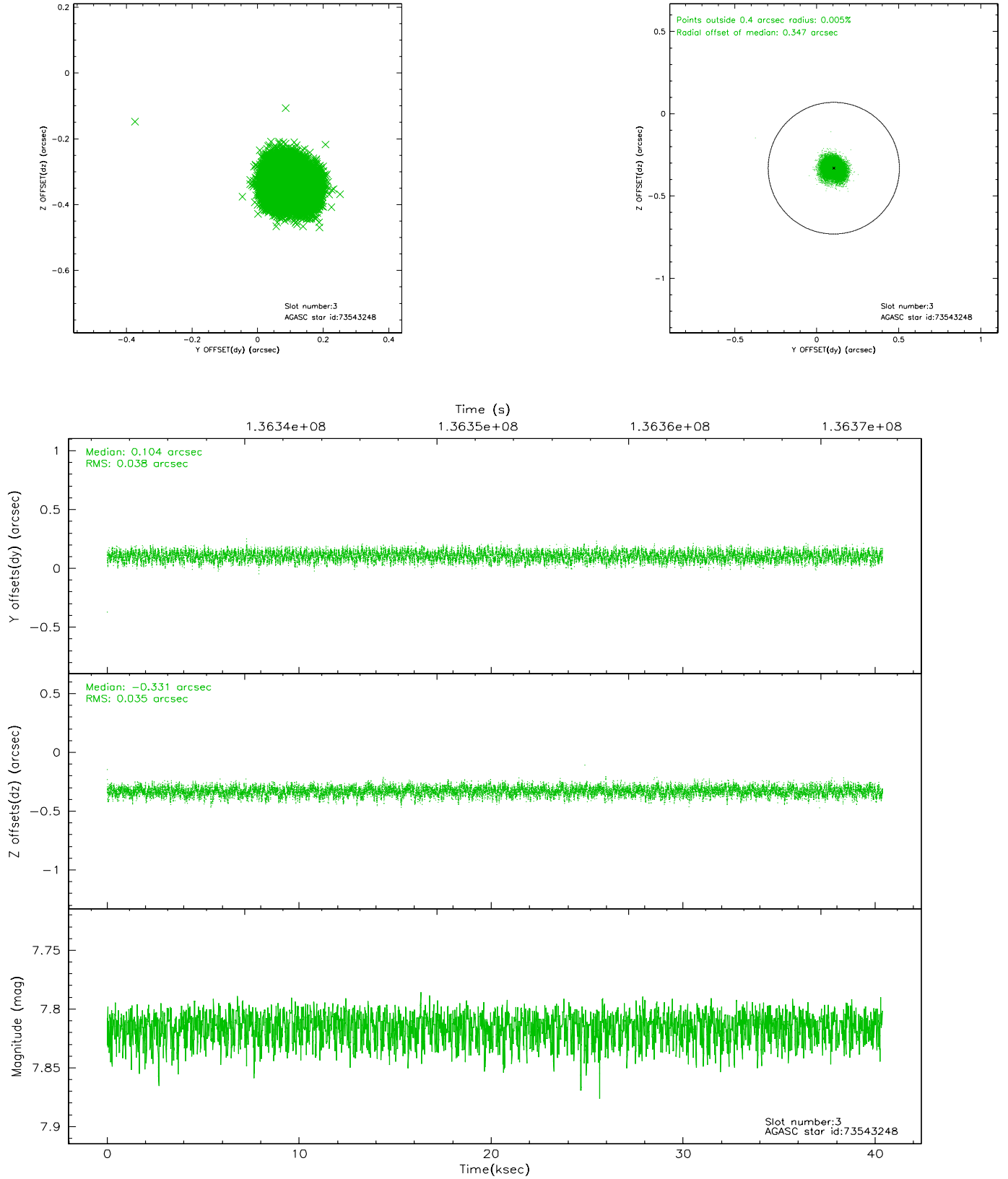
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	9855	-0.003	0.038	0.009	0.021	0.000000	0.000000	940.82	-1725.31
1	FID	ACIS-S-5	7.24	9855	0.039	0.030	0.008	0.015	0.000000	0.000000	-1808.11	172.25
2	FID	ACIS-S-6	7.35	9852	-0.057	-0.056	0.007	0.013	0.000000	0.000000	406.33	816.12
3	GUIDE	73543248	7.81	19704	0.104	-0.331	0.056	0.088	330.510717	4.469173	-180.02	2186.03
4	GUIDE	73939424	7.77	19699	-0.013	0.290	0.083	0.132	331.639799	5.194703	1431.70	-2355.23
5	GUIDE	73540072	8.53	19695	0.240	0.011	0.058	0.095	330.897807	4.391114	-773.21	898.86
6	GUIDE	73938384	8.91	19705	-0.225	0.296	0.071	0.113	331.418276	5.252209	1814.83	-1629.62
7	GUIDE	73536824	9.00	19696	-0.103	-0.268	0.089	0.137	330.419441	4.883510	1346.89	2160.82

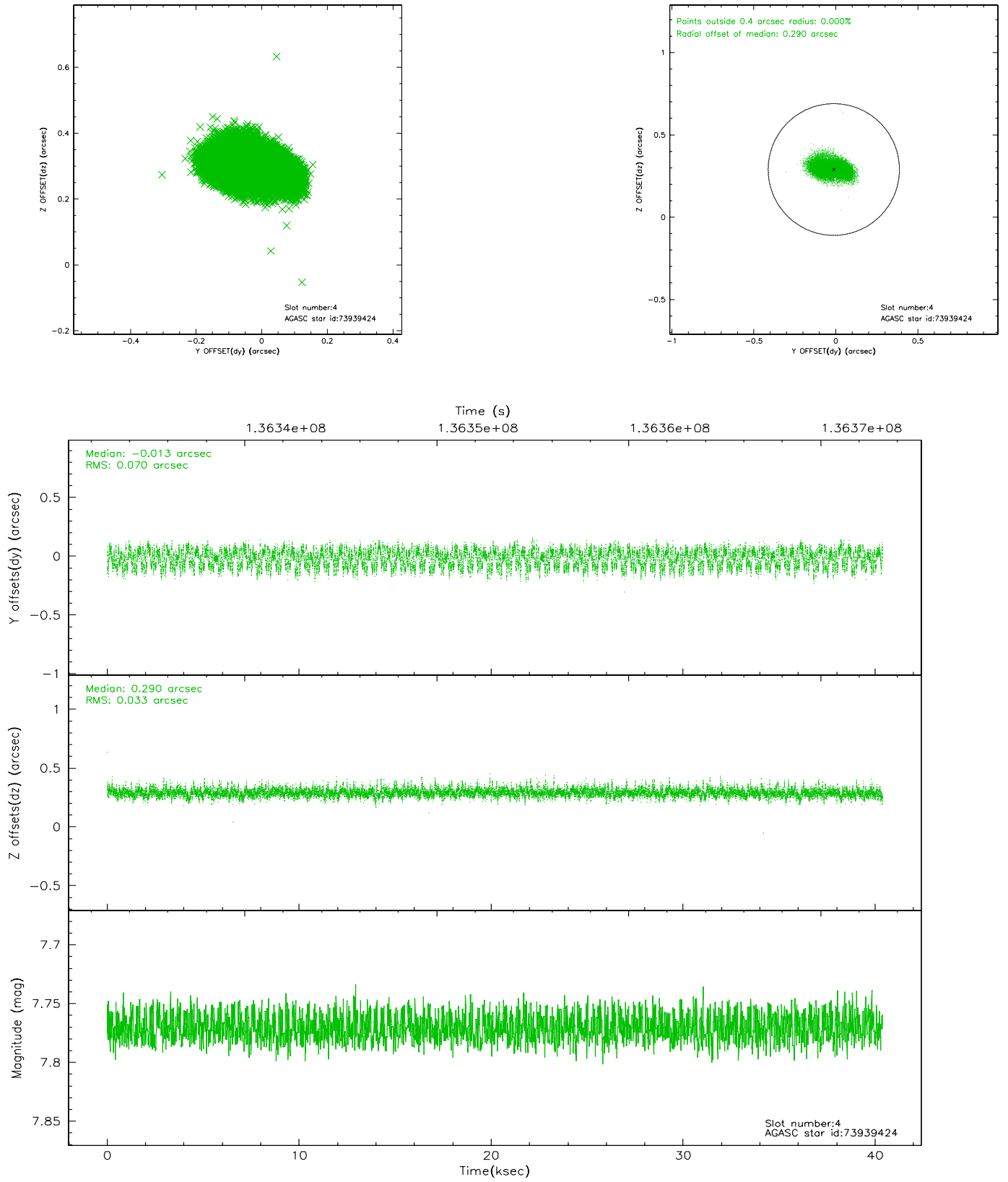


## 2.4 Star Slots

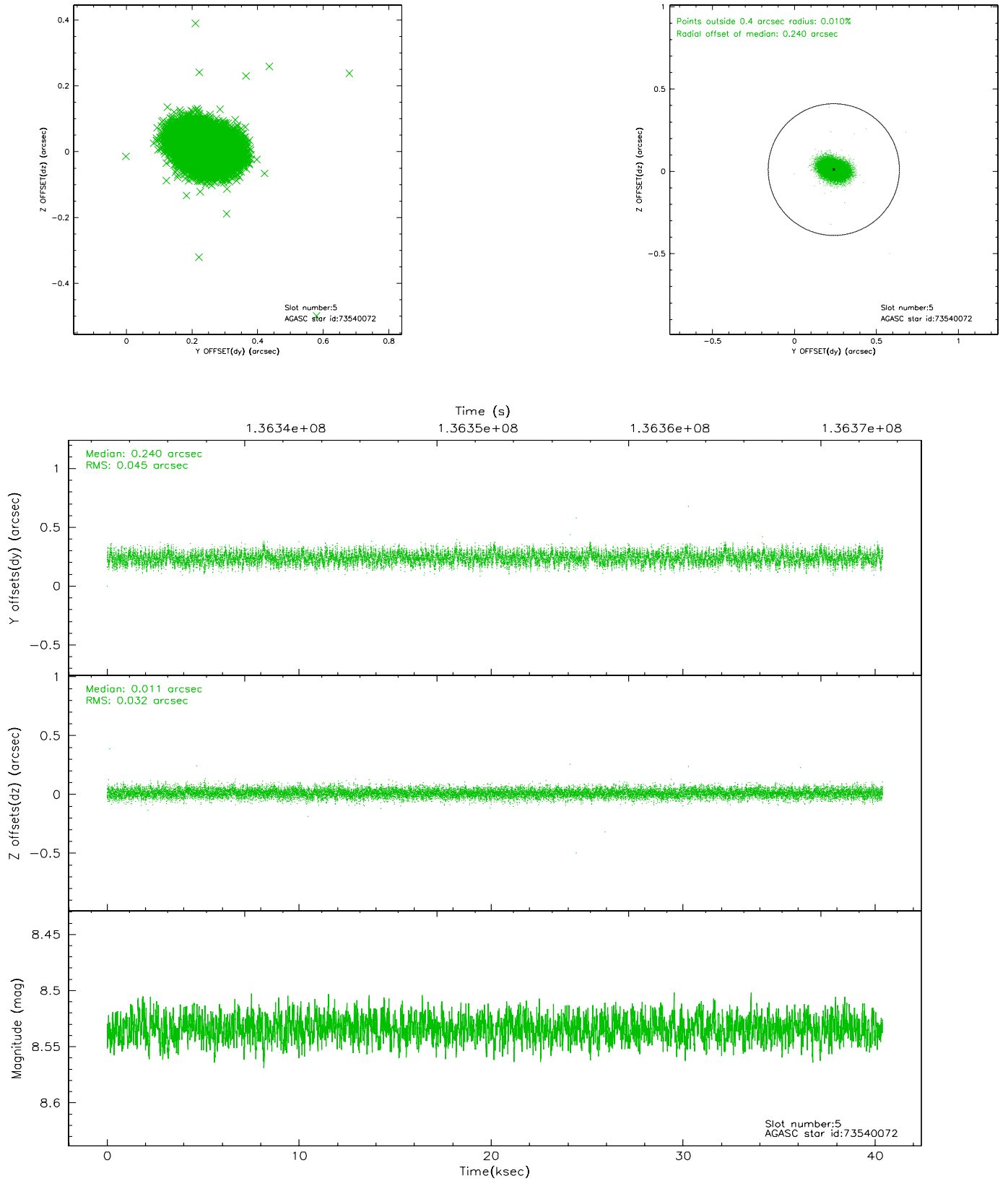
### 2.4.1 Slot 3



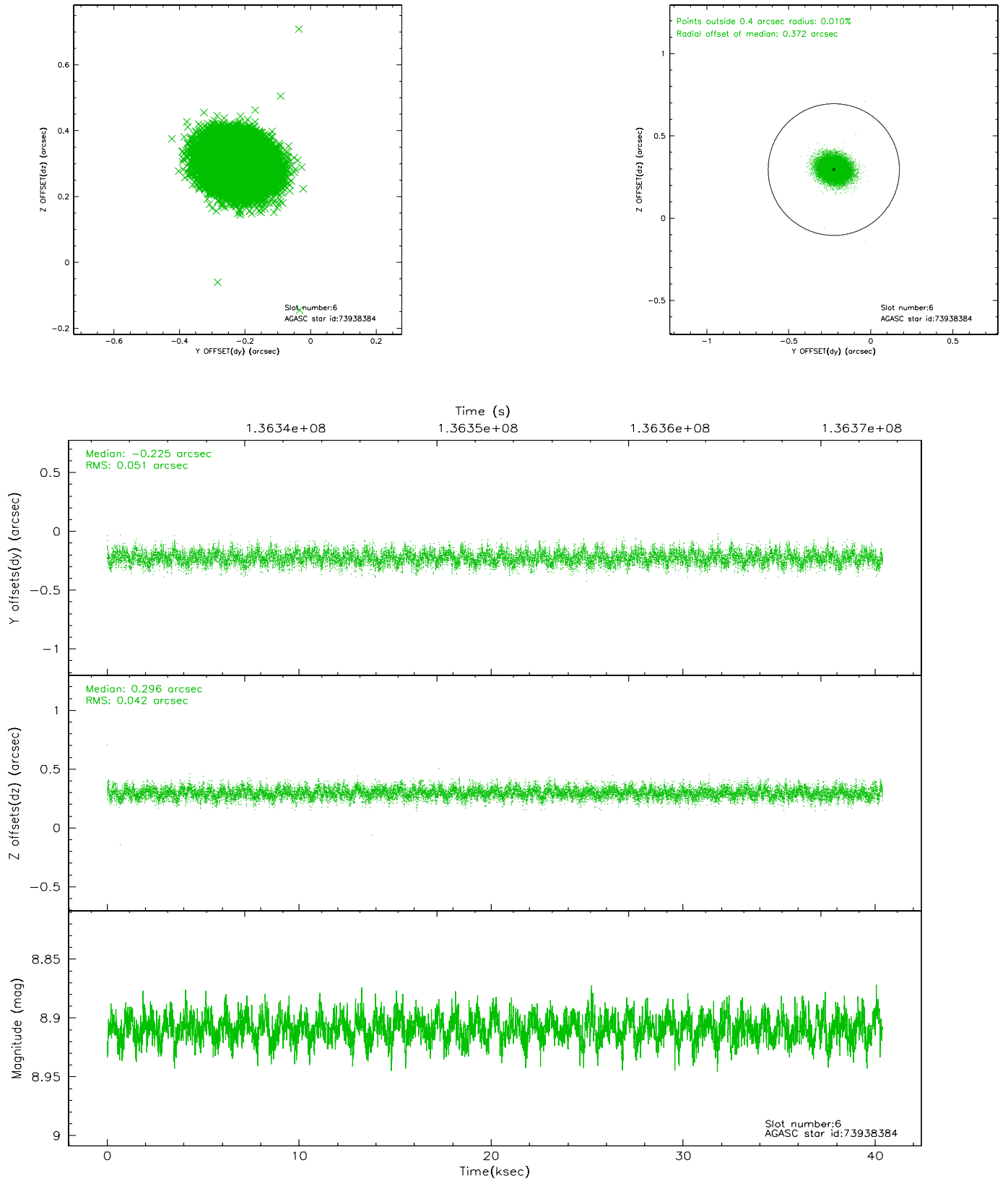
## 2.4.2 Slot 4



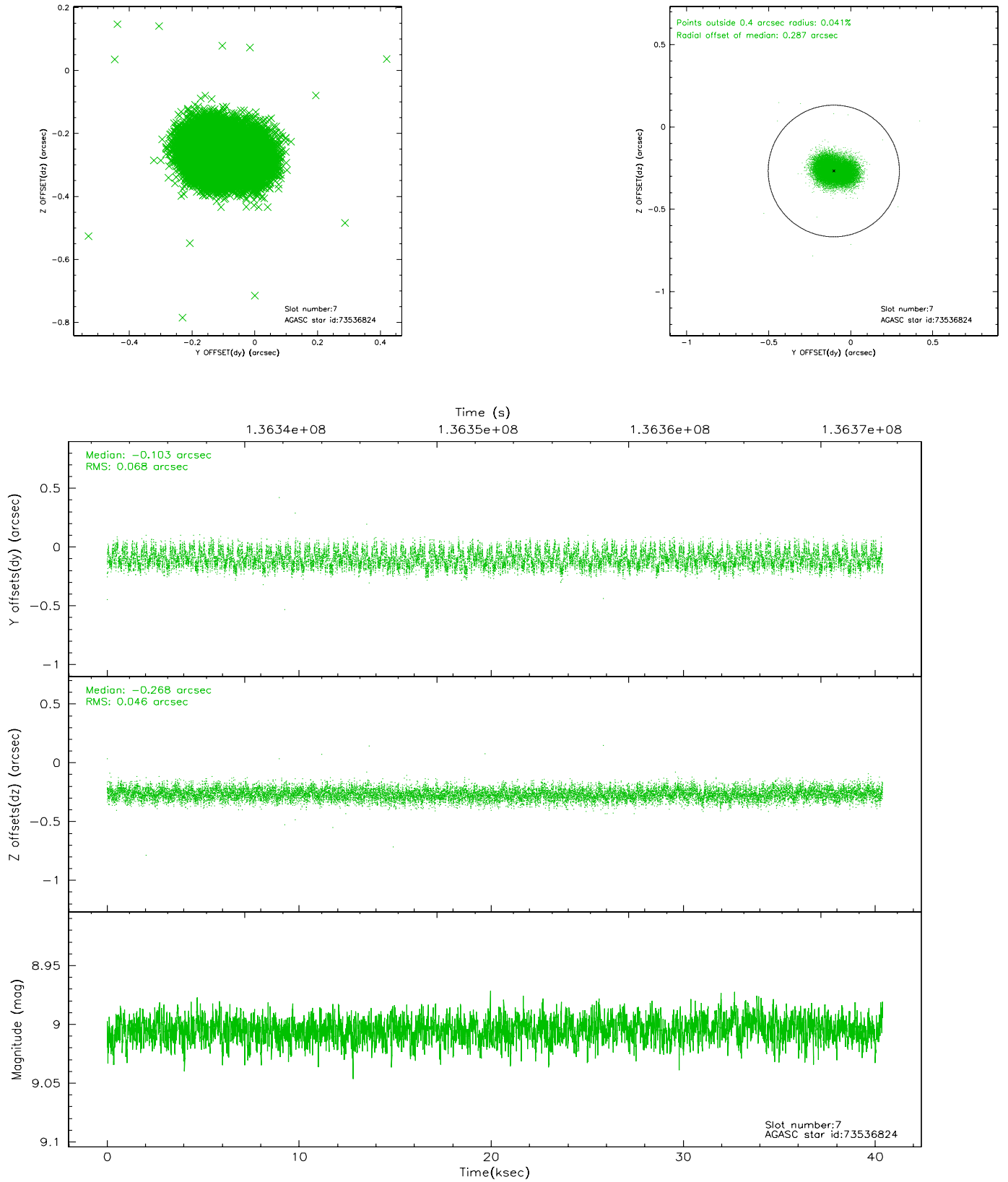
### 2.4.3 Slot 5



## 2.4.4 Slot 6

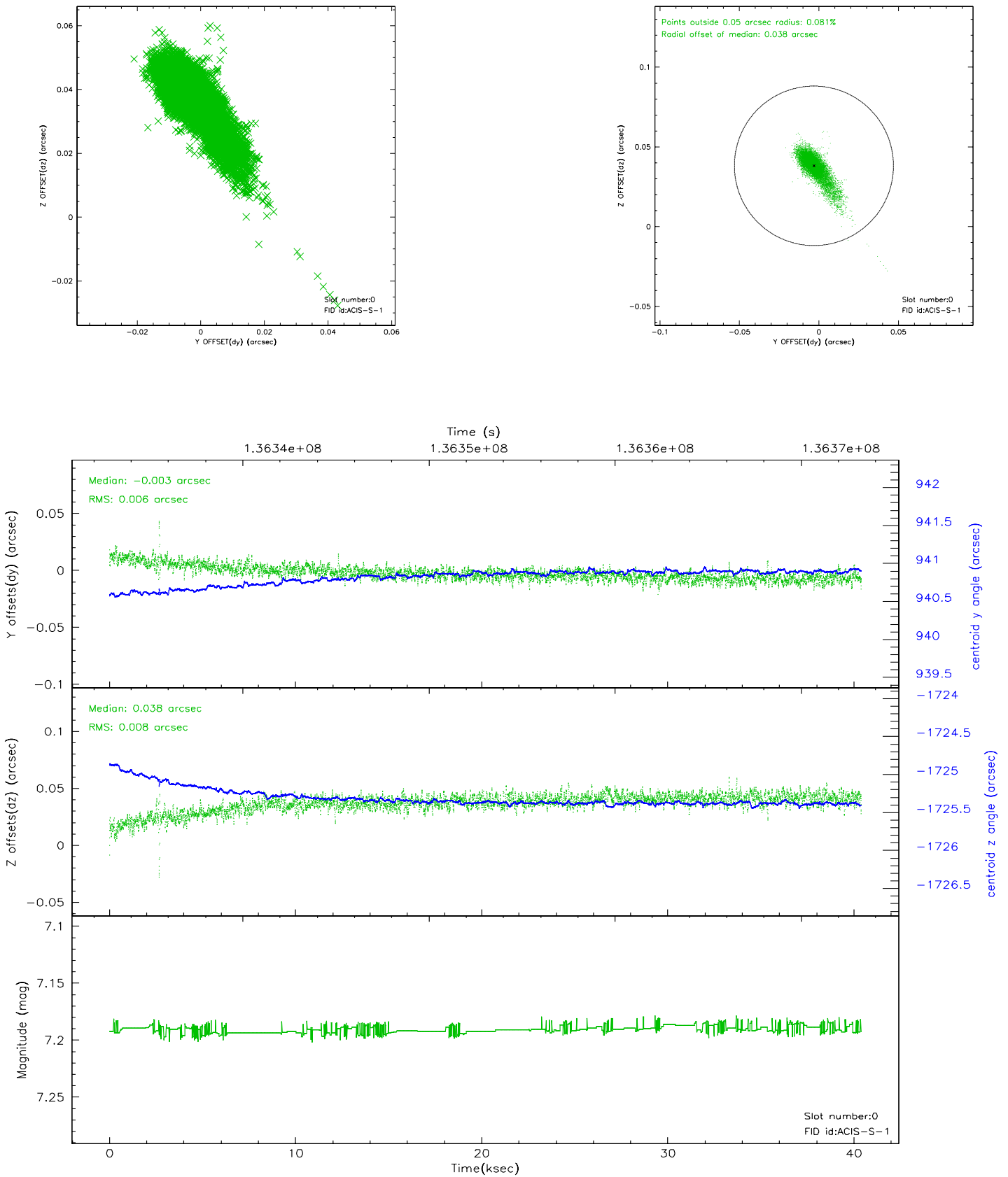


## 2.4.5 Slot 7

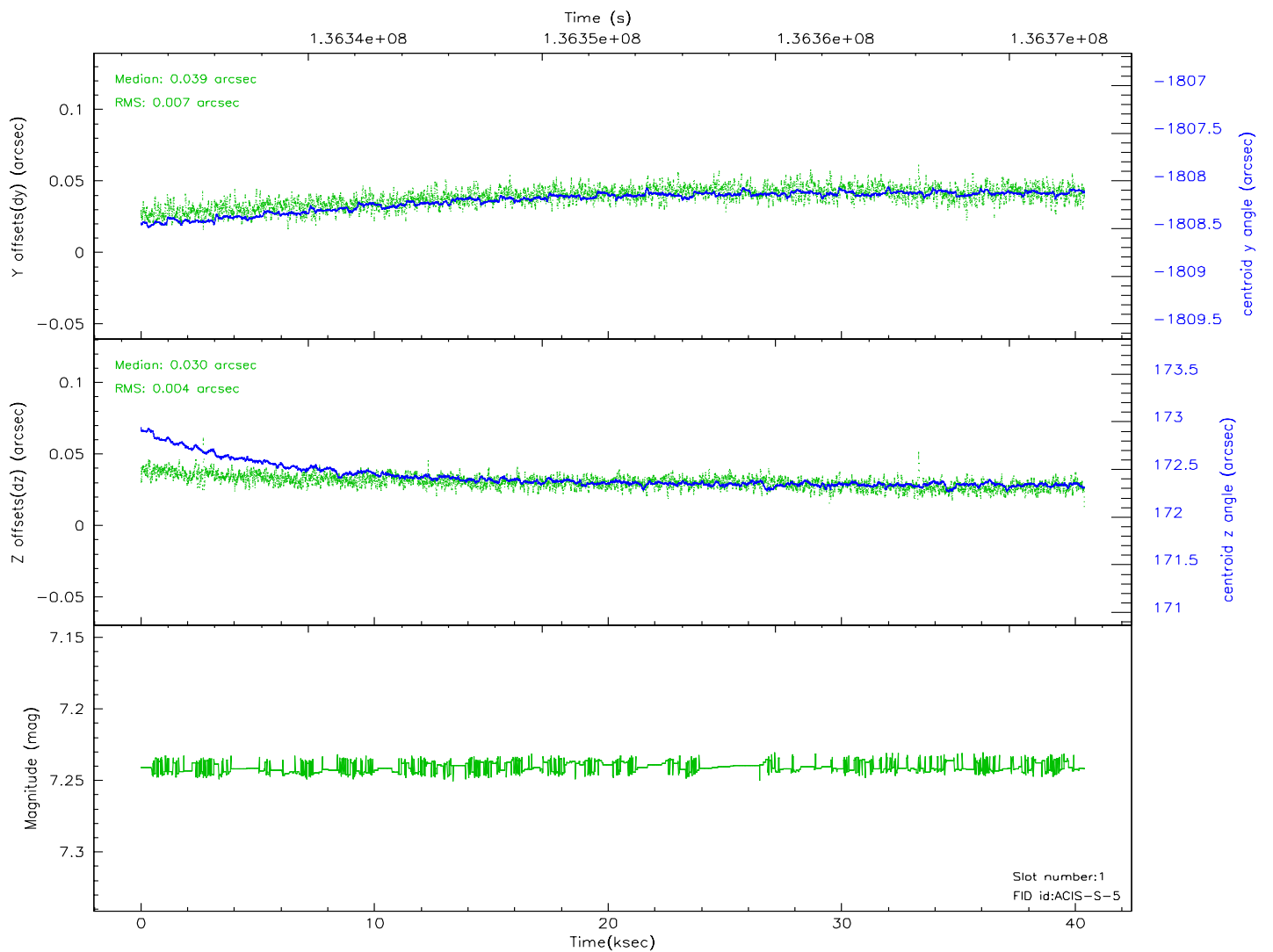
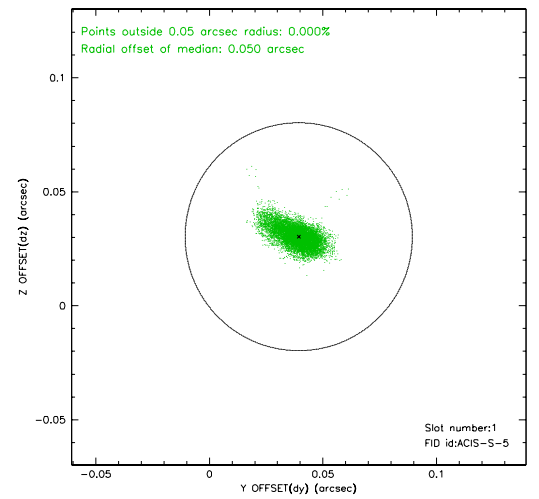
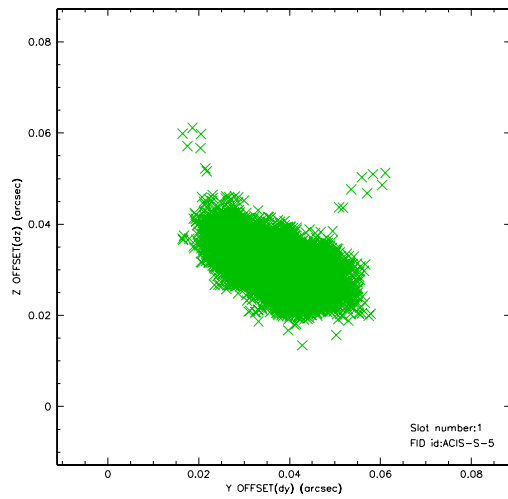


## 2.5 FID Slots

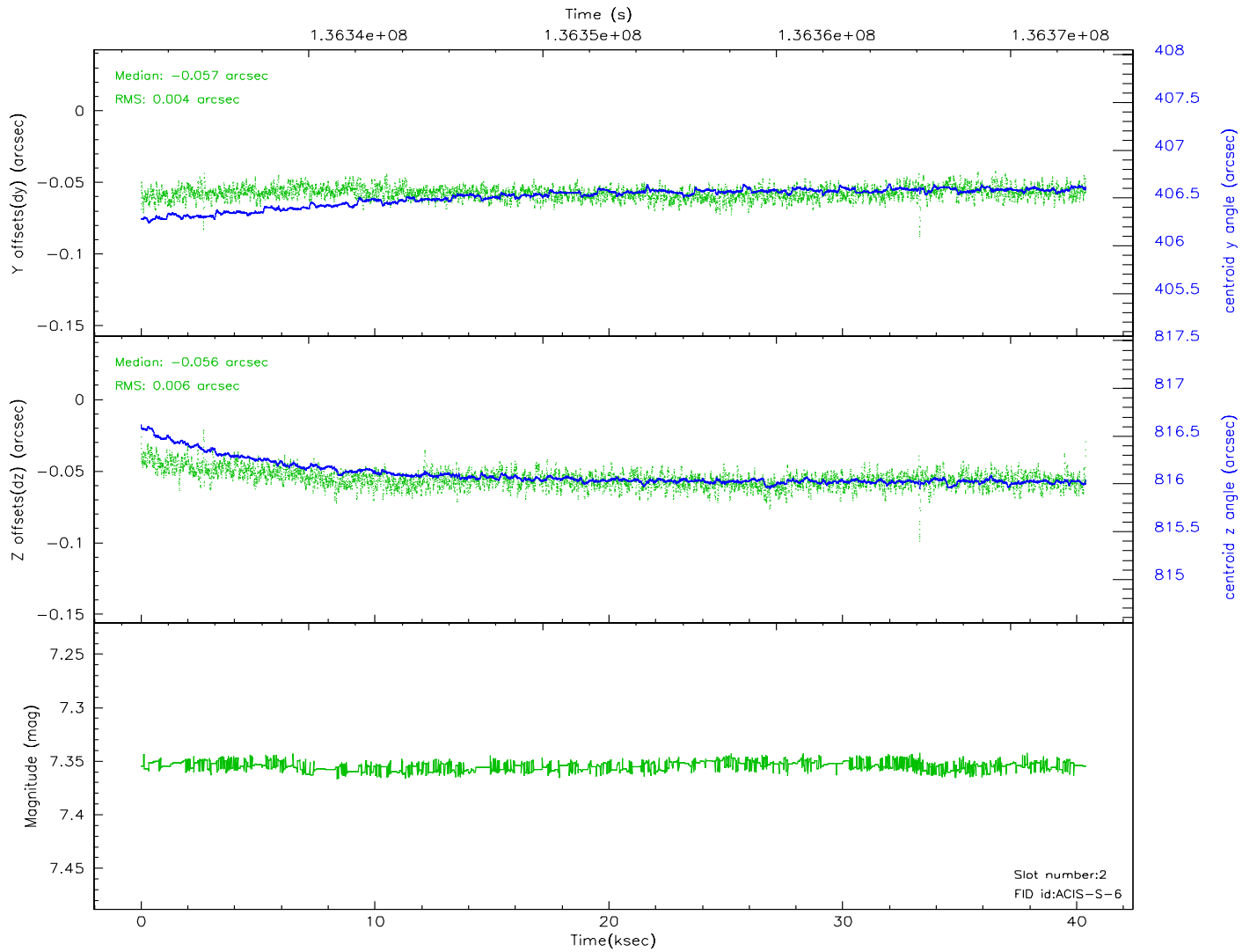
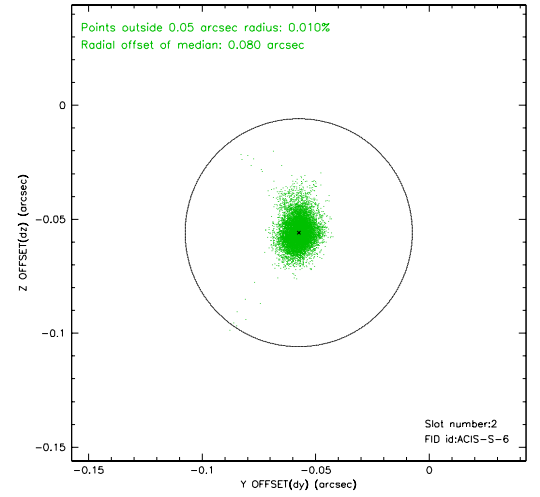
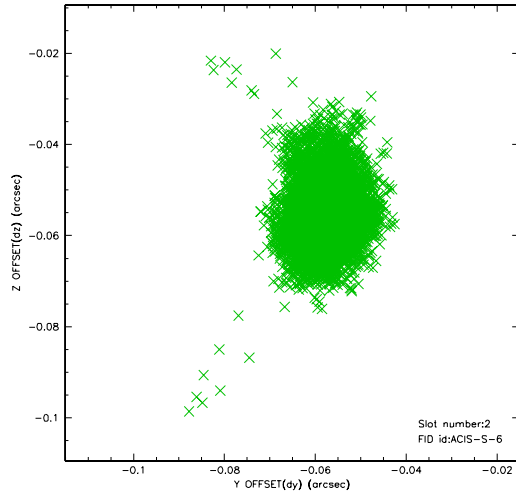
### 2.5.1 Slot 0



## 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)	2006.09.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.4

### A.2 Comments

Roll constraint met.