

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 5438 - L2 Version 002  
Chandra X-Ray Center

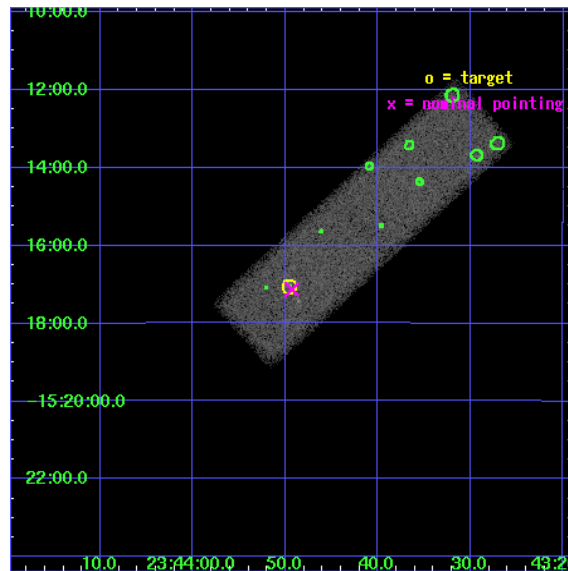
L2 Processing Date : Apr 1 2006

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# 1 Front

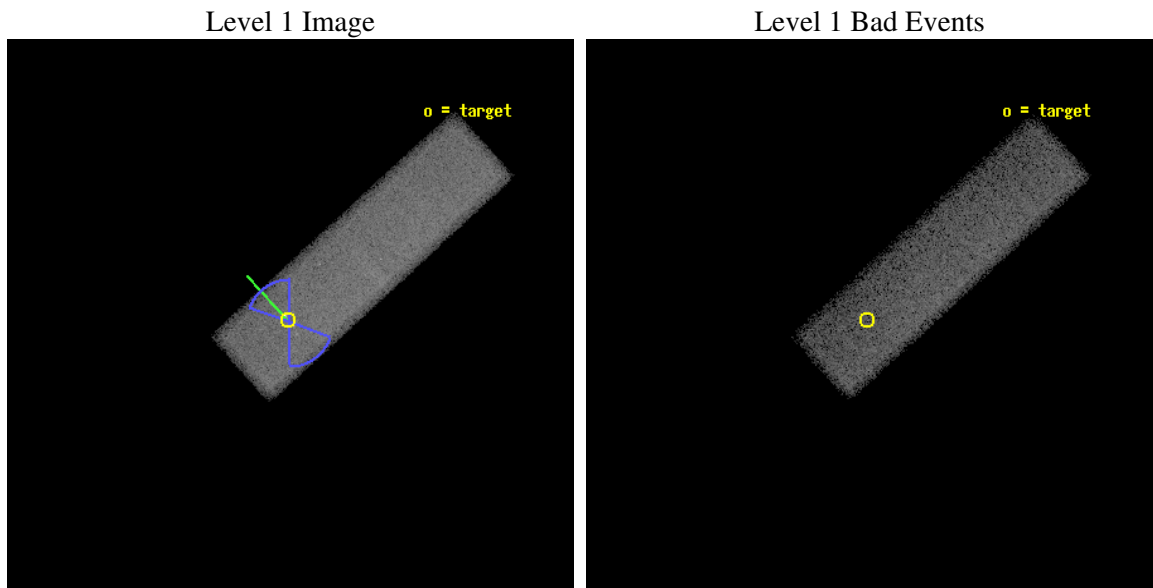
seq_num	300154
obs_id	5438
title	R Aquarii X-ray Jets: a synoptic study
observer	Dr. Edwin Kellogg
object	R Aqr
dtcycle	0
cycle	P
ra_targ	355.956667
dec_targ	-15.284361
ra_nom	355.95550874275
dec_nom	-15.285593914182
roll_nom	317.59654557455
revision	2
ontime	70182.401045799
livetime	66757.729521354
ontime7	70182.401045799
l2events	74906



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-04-01T03:16:55
revision	2

sched_exp_time	70000.000000
ontime	71194.254677504
ontime7	71194.254677504
l1events	184764

### 2.1.4 Events

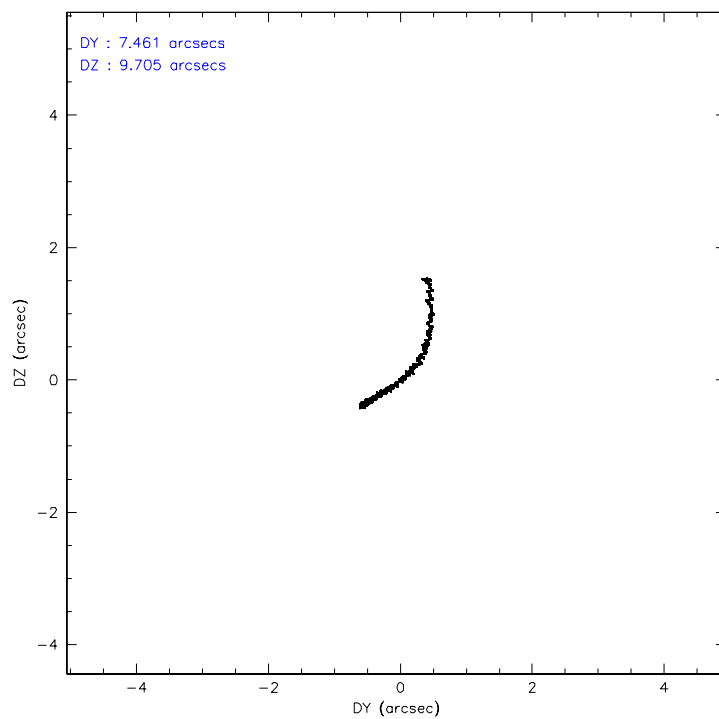
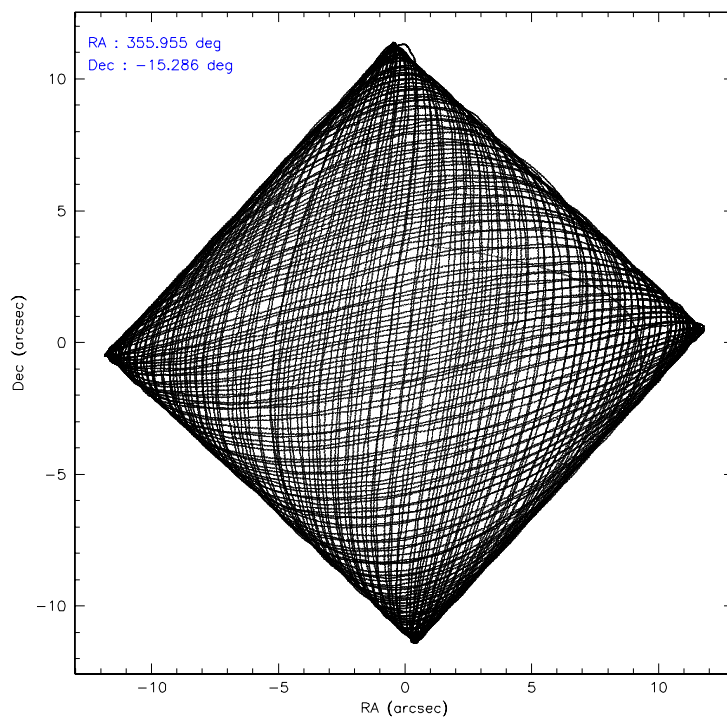
	<b>ccd 7</b>
level 1 events	184764
rejected events	107372
rejected %	58%

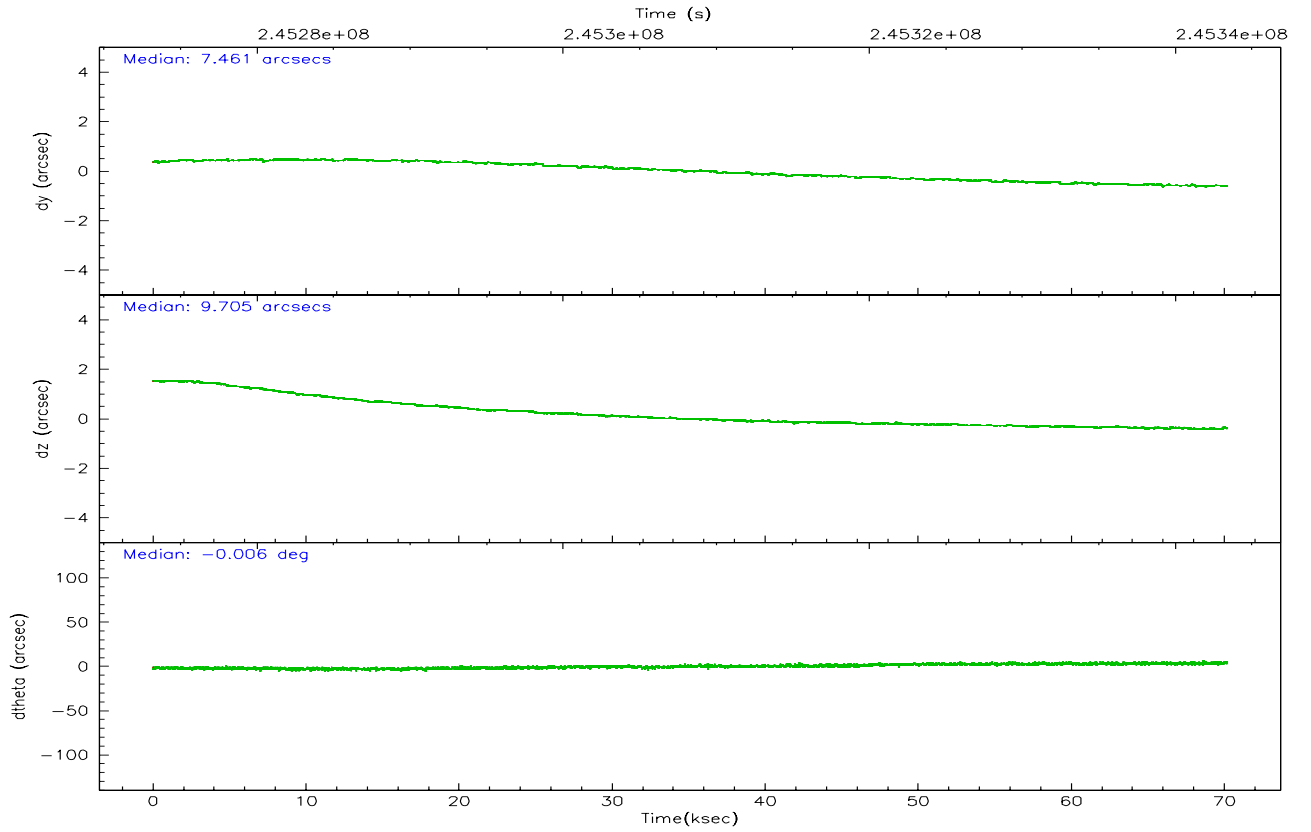
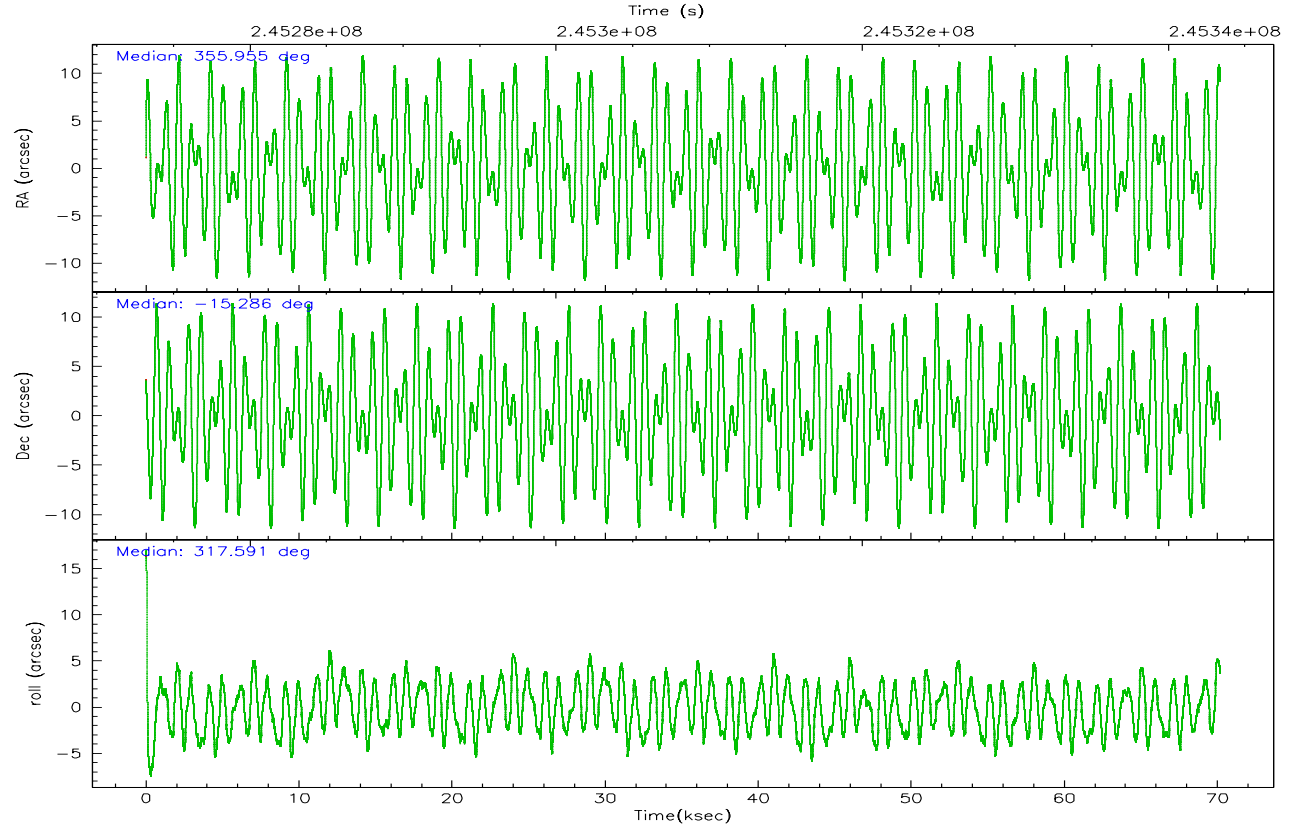
	<b>ccd 7</b>
grade 0 events	5906
	3%
grade 1 events	137
	0%
grade 2 events	18774
	10%
grade 3 events	6138
	3%
grade 4 events	5967
	3%
grade 5 events	12911
	6%
grade 6 events	41715
	22%
grade 7 events	93216
	50%

## 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	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	CUSTOM	1/4
Pointing RA	355.927864	355.9555087427498	Subarray start row	384	384
Pointing Dec	-15.280117	-15.28559391418151	Subarray row count	256	256
Pointing Roll	317.432624	317.5965455745454	Alternating exposures requested	N	N
Roll angle	325.000000	325.000000	Primary exposure time	0.000000	0.8
Roll tolerance	35.000000	35.000000			
Roll constraint allows 180D rotation	Y	Y			
Window start time	243129664.184000	243129664.184000			
Window stop time	245721664.184000	245721664.184000			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	245273387.184000	245272194.05898			
Observation start date	2005-10-09T19:28:43	2005-10-09T19:09:54			
Observation end time	245343387.184000	245344239.26229			
Observation end date	2005-10-10T14:55:23	2005-10-10T15:10:39			
Read mode	TIMED	TIMED			

## 2.3 Aspect



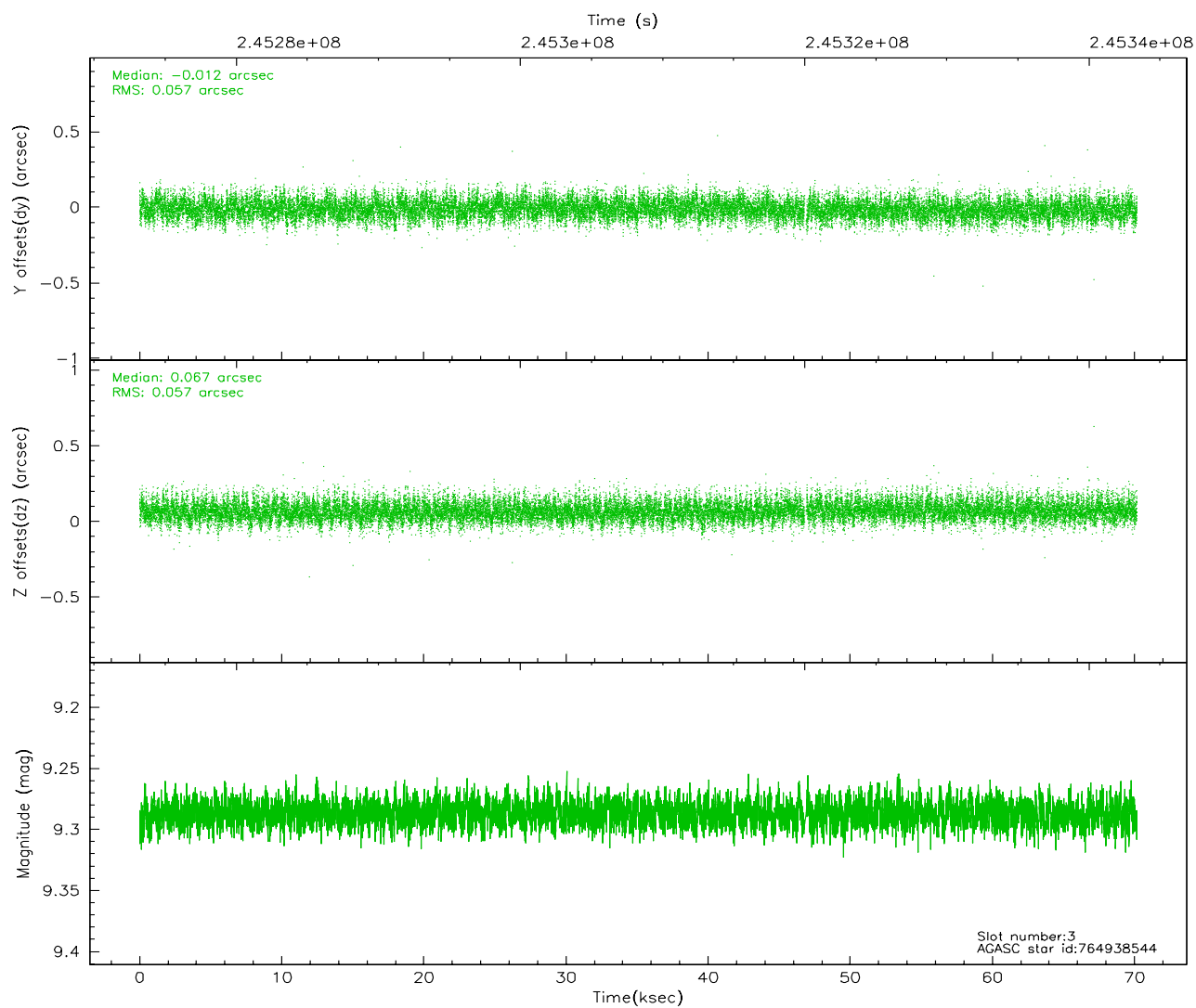
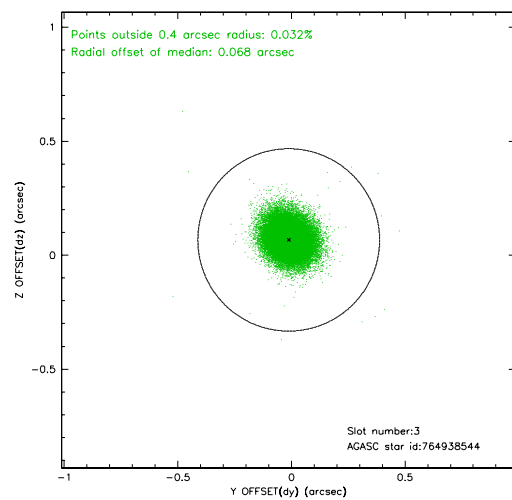
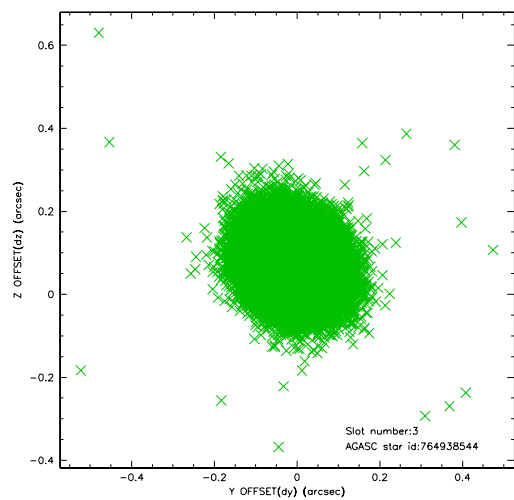


### Slot Statistics

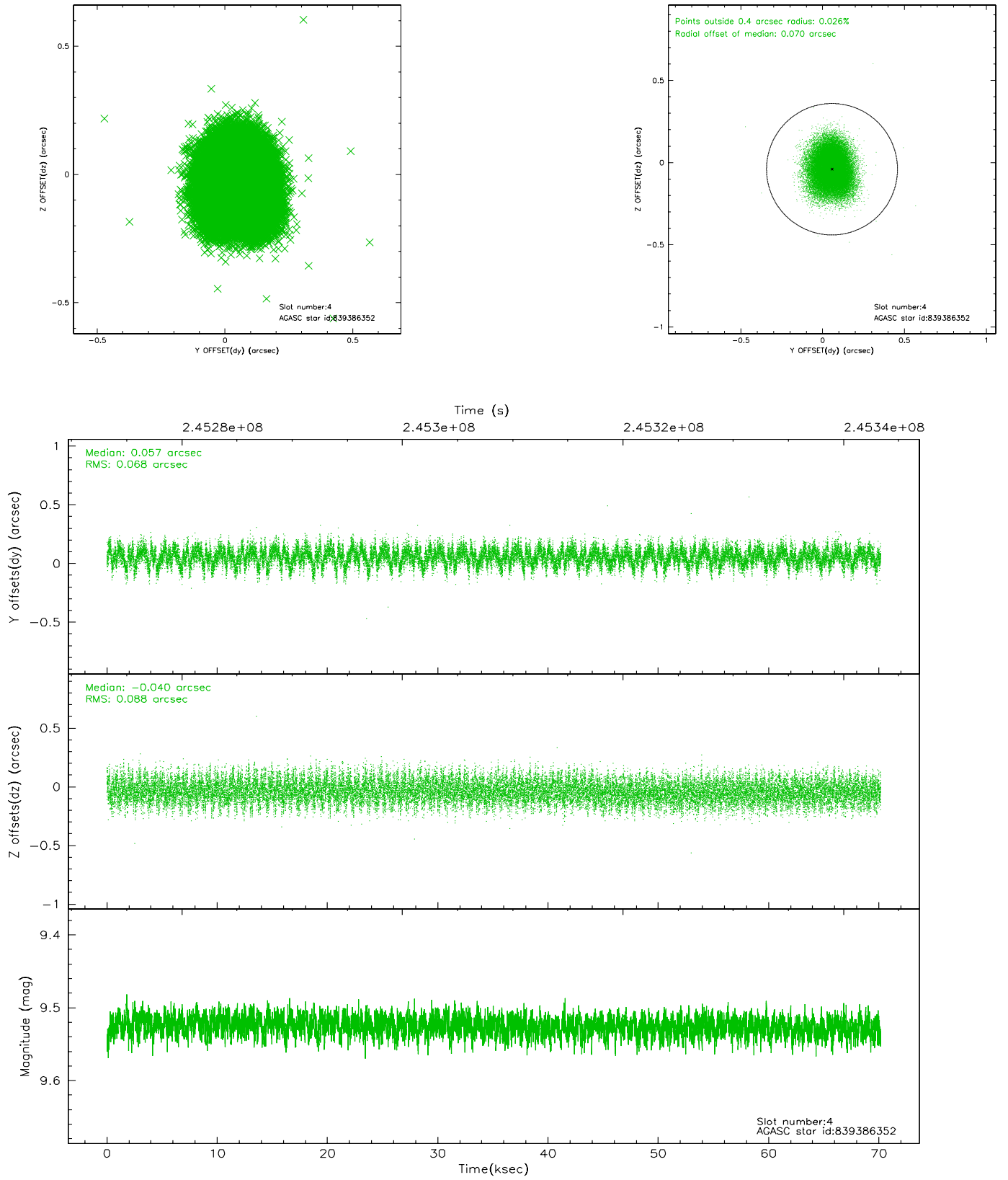
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	17119	-0.006	-0.007	0.010	0.016	0.000000	0.000000	-760.17	-1731.14
1	BAD	ACIS-S-4	7.21	6975	0.120	-0.044	0.025	0.043	0.000000	0.000000	2152.74	176.73
2	FID	ACIS-S-5	7.23	17117	-0.013	0.011	0.010	0.016	0.000000	0.000000	-1813.15	171.00
3	GUIDE	764938544	9.29	34140	-0.012	0.067	0.085	0.140	355.732535	-14.577515	-2211.98	1402.45
4	GUIDE	839386352	9.53	34222	0.057	-0.040	0.119	0.190	355.395782	-15.624441	-517.77	-2162.27
5	GUIDE	839386400	9.28	34137	0.017	-0.067	0.082	0.131	356.007432	-15.662506	1134.69	-827.05
6	GUIDE	764942264	9.84	34199	-0.058	0.038	0.120	0.194	356.098614	-14.982946	-286.11	1189.68
7	BAD	839385704	17.70	501	2.018	-0.007	3.687	5.796	355.956087	-15.284500	84.14	57.34

## 2.4 Star Slots

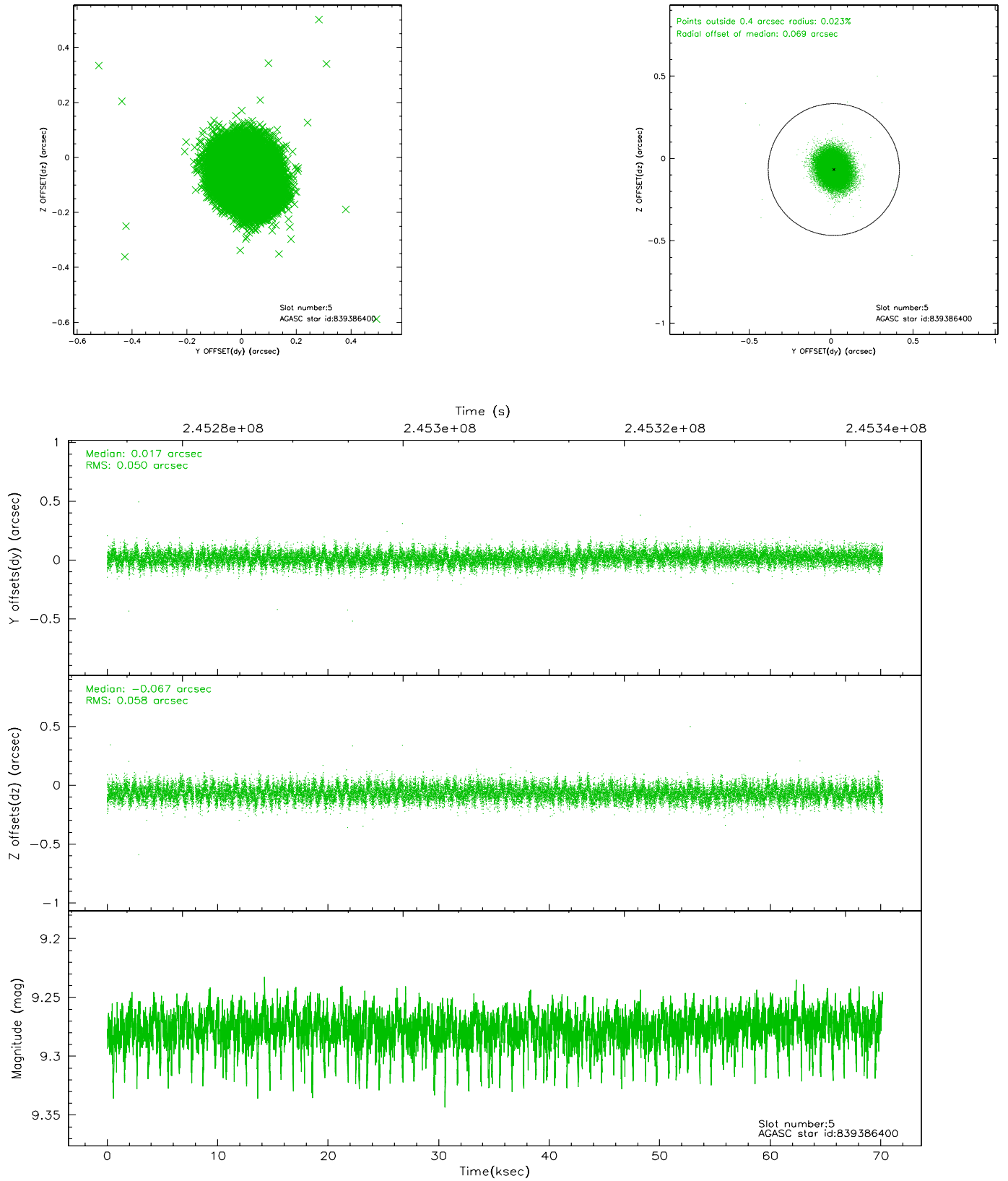
### 2.4.1 Slot 3



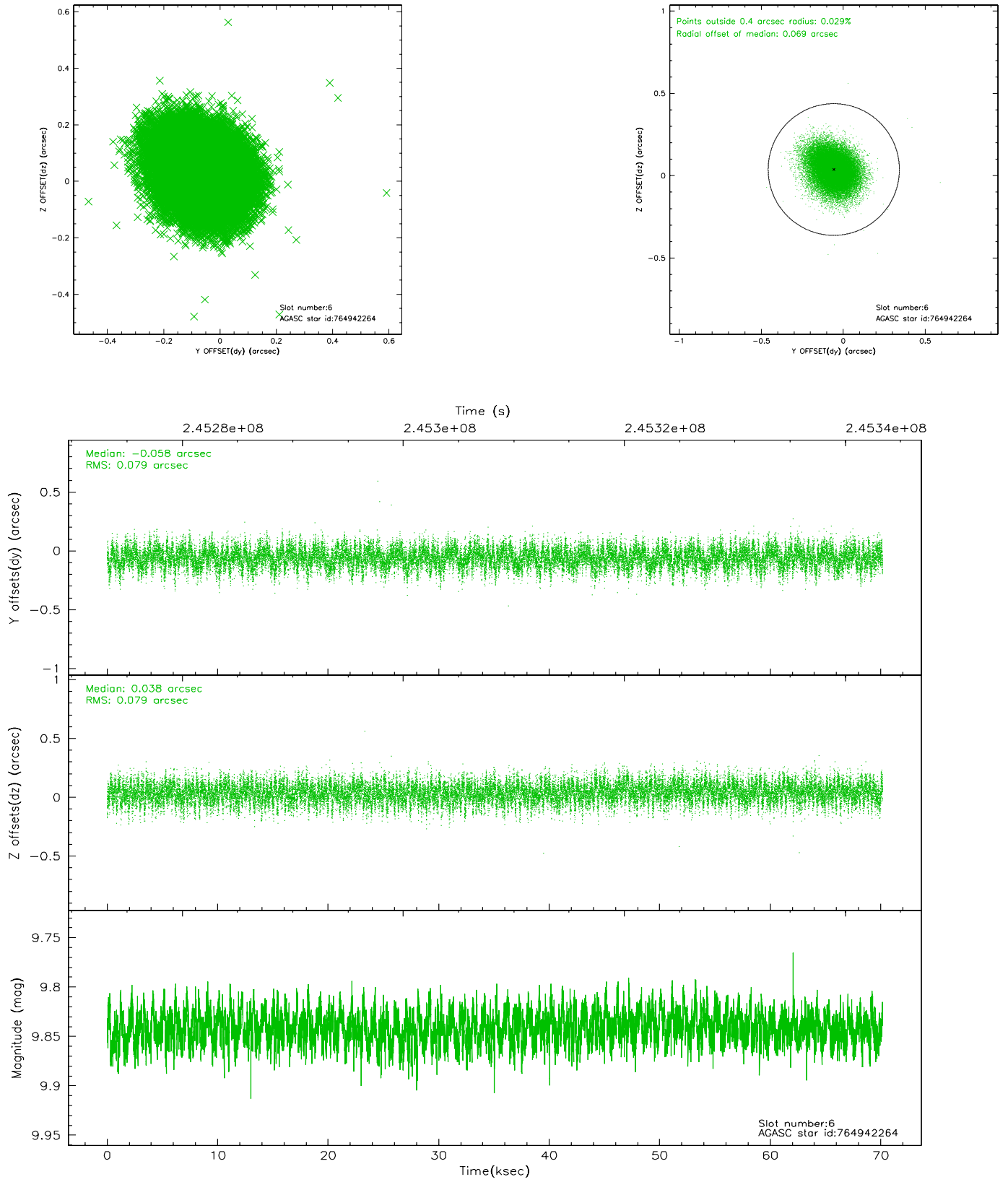
## 2.4.2 Slot 4



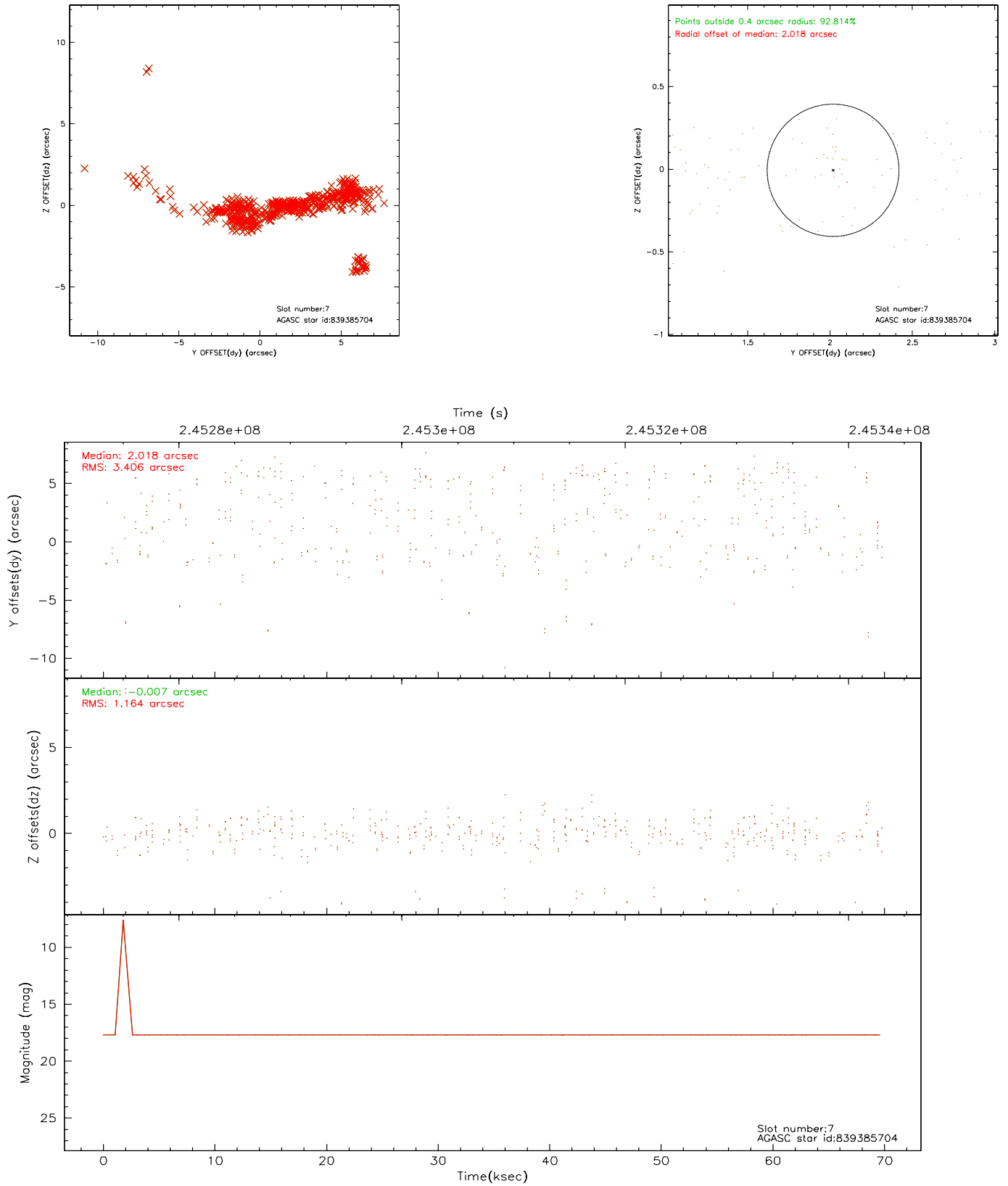
### 2.4.3 Slot 5



## 2.4.4 Slot 6

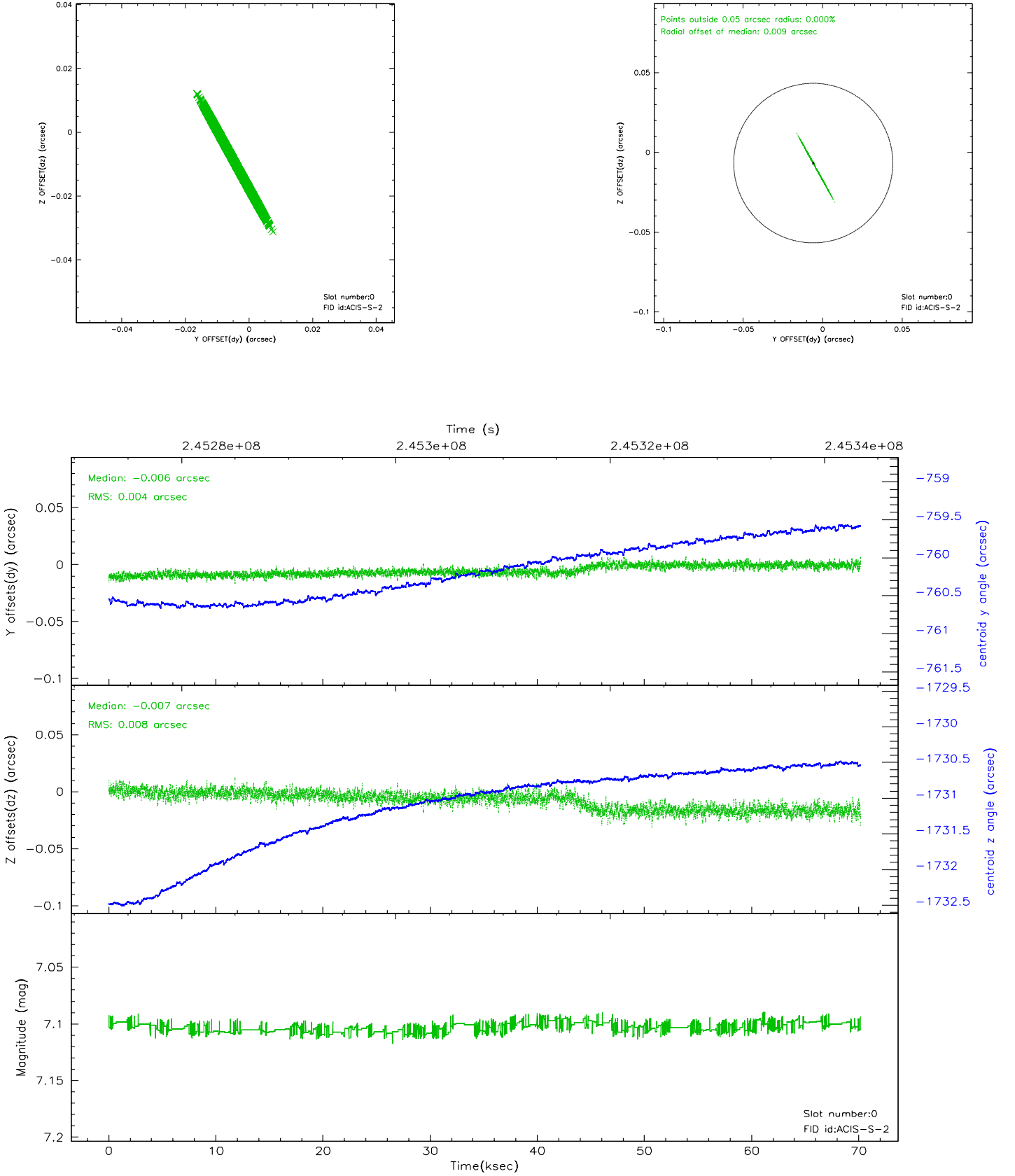


## 2.4.5 Slot 7

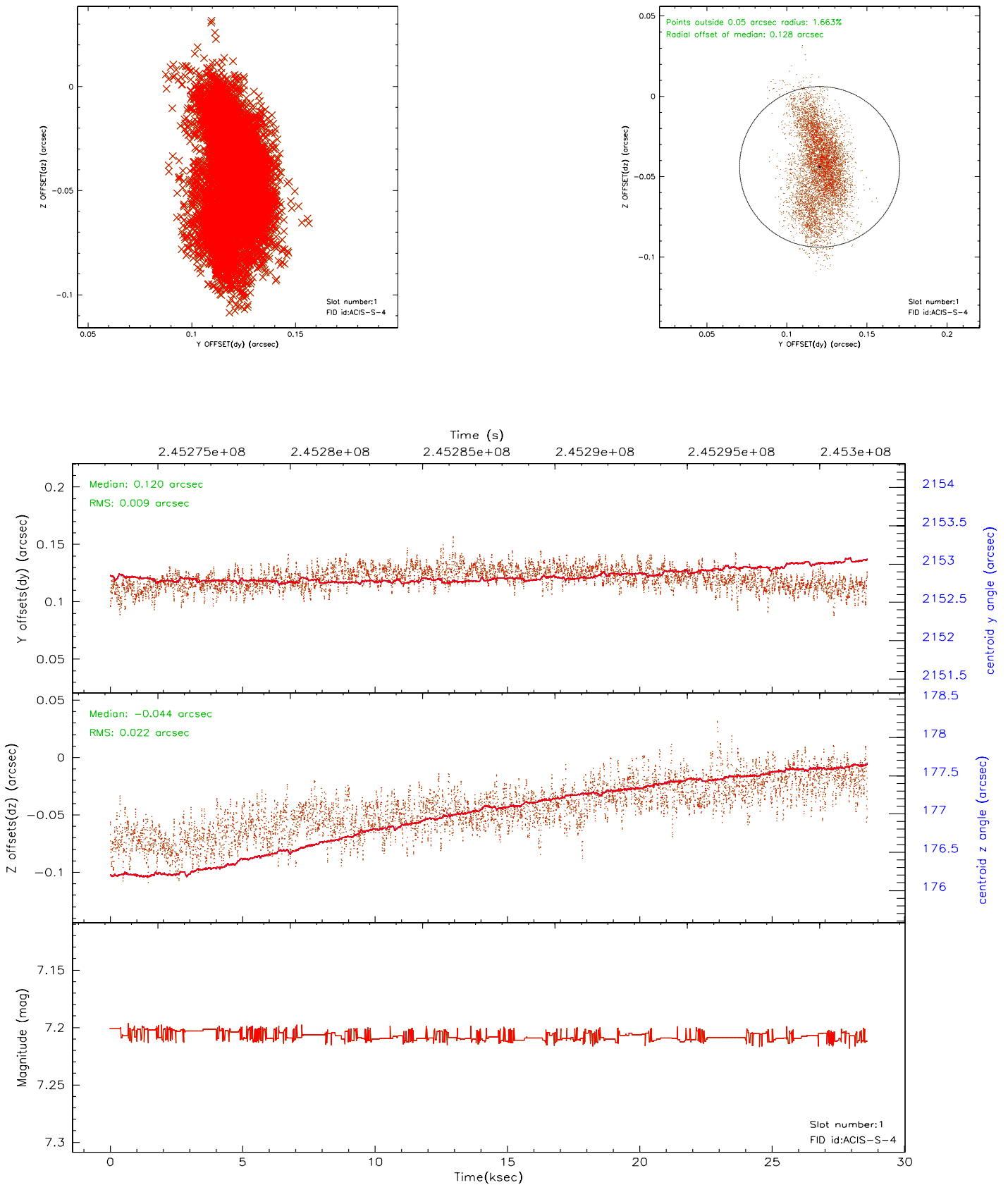


## 2.5 FID Slots

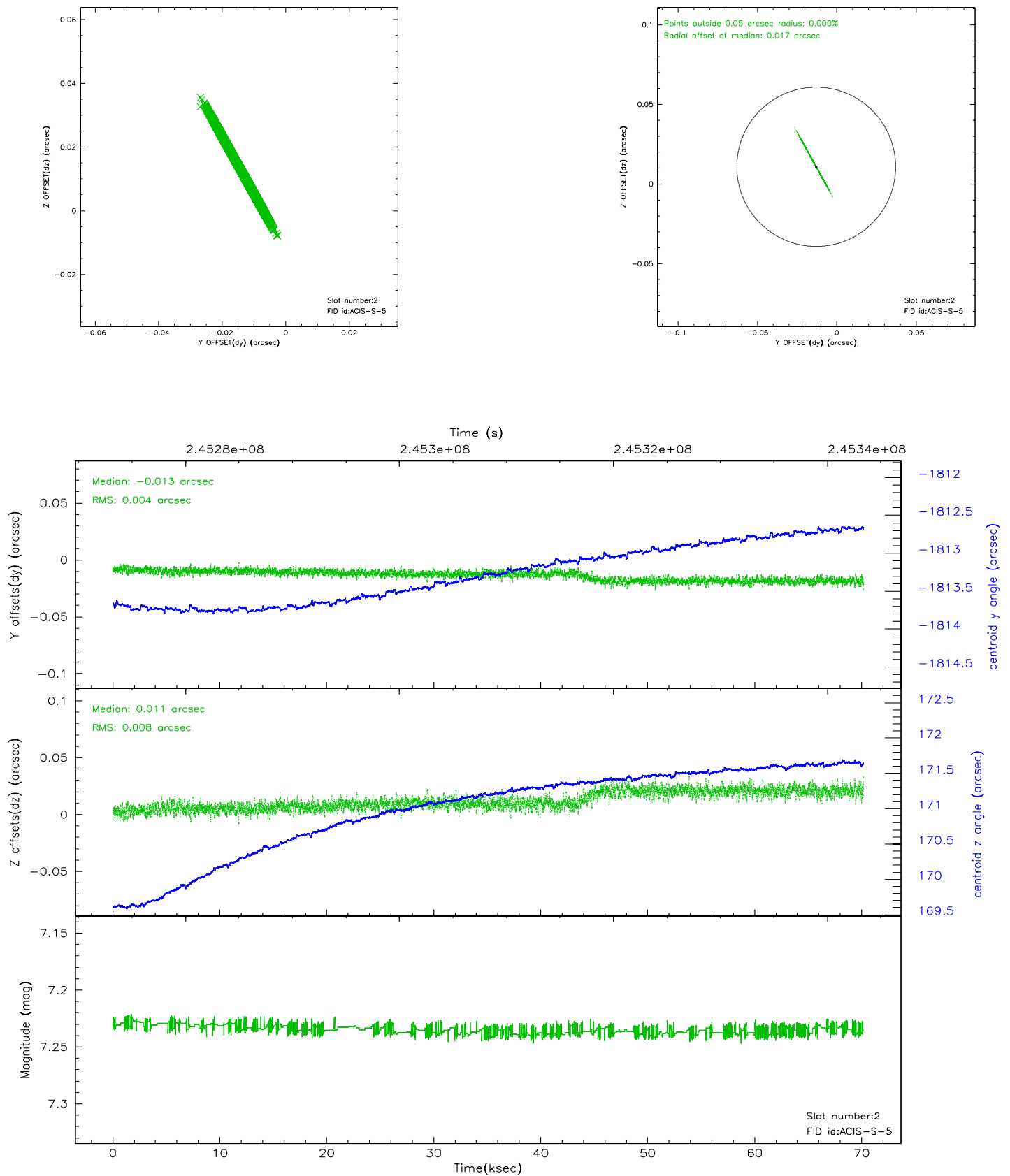
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources

# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.04.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	70.1824

## A.2 Comments

Comments for Obi 0

Star in slot 7 has an RMS deviation > 0.300000 arcsec

Star in slot 7 has deviations > 0.050000 for more than 0.860279% of the observation

Star in slot 7 radial offset > 1.500000 arcsec

Slots 1 and 7 were not included in aspect solution.

Roll constraint satisfied.