

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.2

Observation 4157 - L2 Version 001  
Chandra X-Ray Center

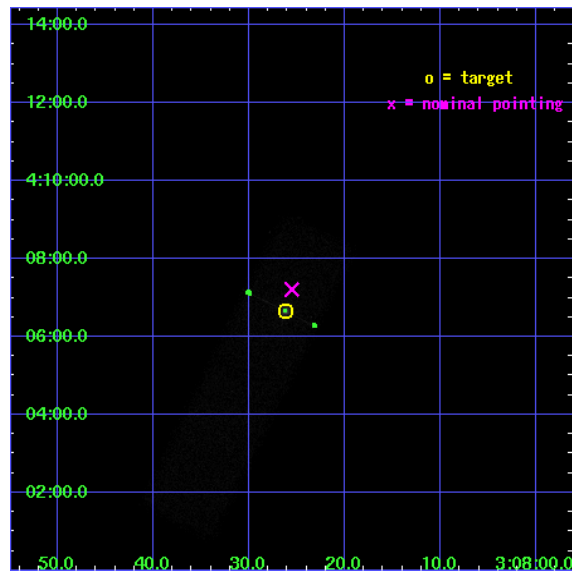
L2 Processing Date : May 23 2006

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# 1 Front

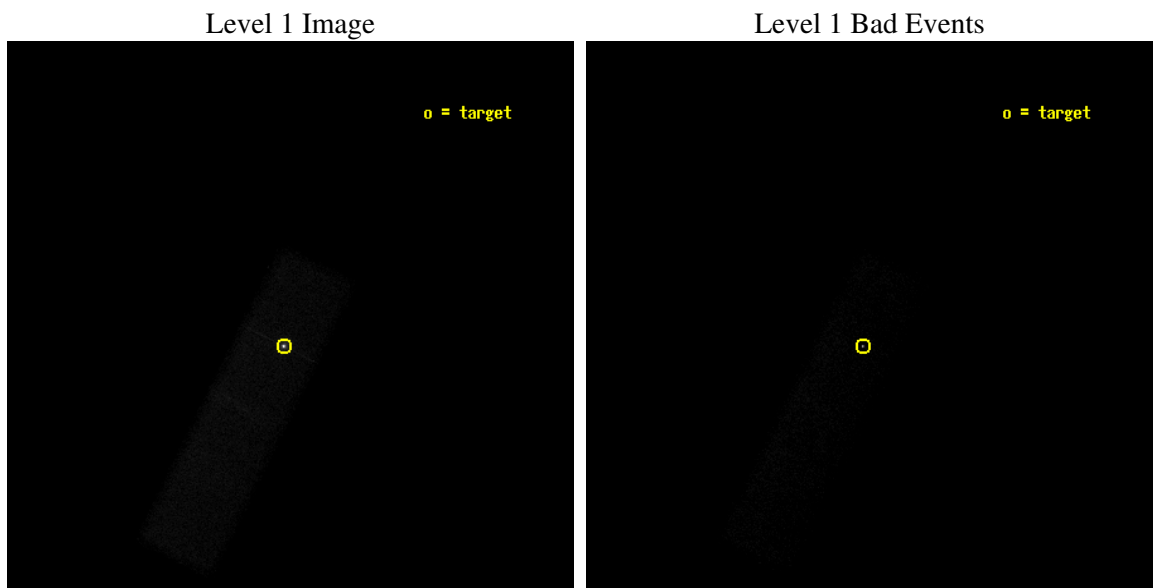
seq_num	700836
obs_id	4157
title	THE X-RAY EMISSION MECHANISM FROM OPTICAL JETS: 3C 78
observer	Prof Mark Birkinshaw
object	3C 78
dtcycle	0
cycle	P
ra_targ	47.109167
dec_targ	4.110917
ra_nom	47.106443342964
dec_nom	4.1201676606859
roll_nom	116.52298367048
revision	2
ontime	53468.000796735
livedtime	50858.937312599
ontime7	53468.000796735
l2events	62189



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.7.2
caldbver	3.2.2
date	2006-05-23T21:31:29
revision	2

sched_exp_time	53305.000000
ontime	54159.782010287
ontime7	54159.782010287
l1events	103956

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	103956
rejected events	40064
rejected %	38%

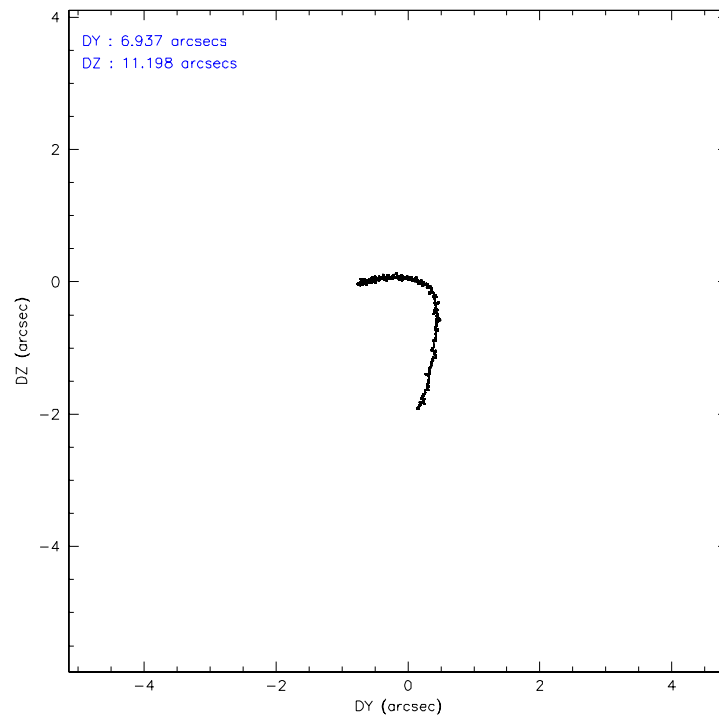
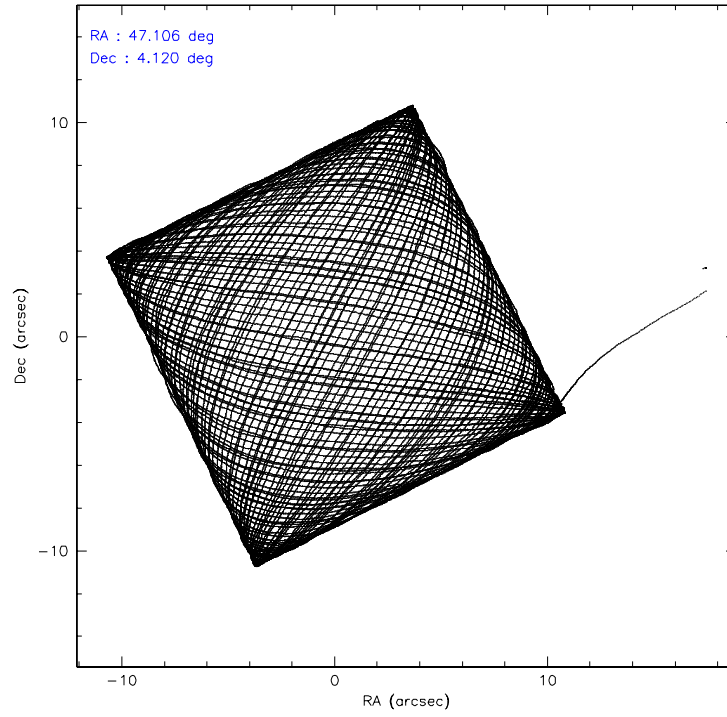
	<b>ccd 7</b>
grade 0 events	10313
	9%
grade 1 events	230
	0%
grade 2 events	16217
	15%
grade 3 events	6899
	6%
grade 4 events	6538
	6%
grade 5 events	7163
	6%
grade 6 events	24484
	23%
grade 7 events	32112
	30%

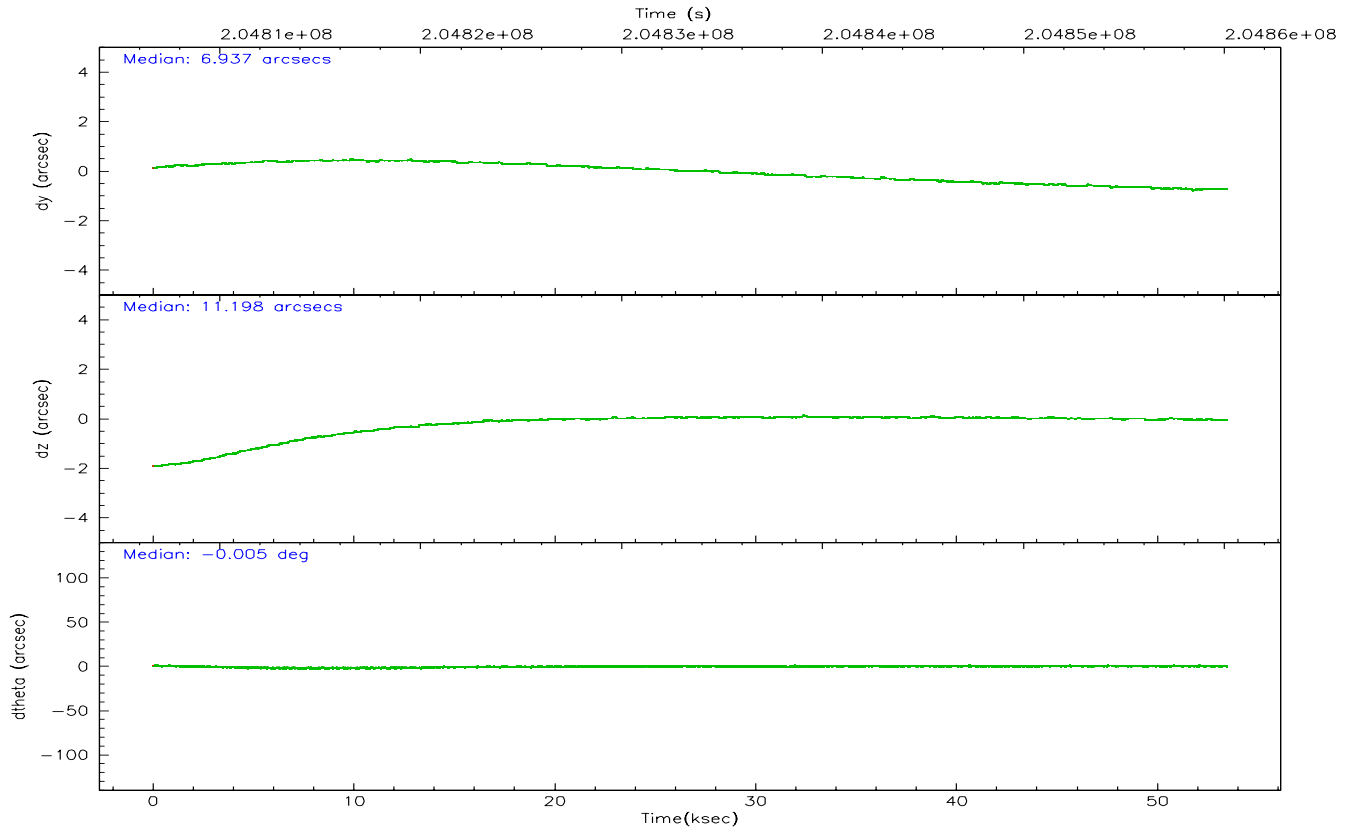
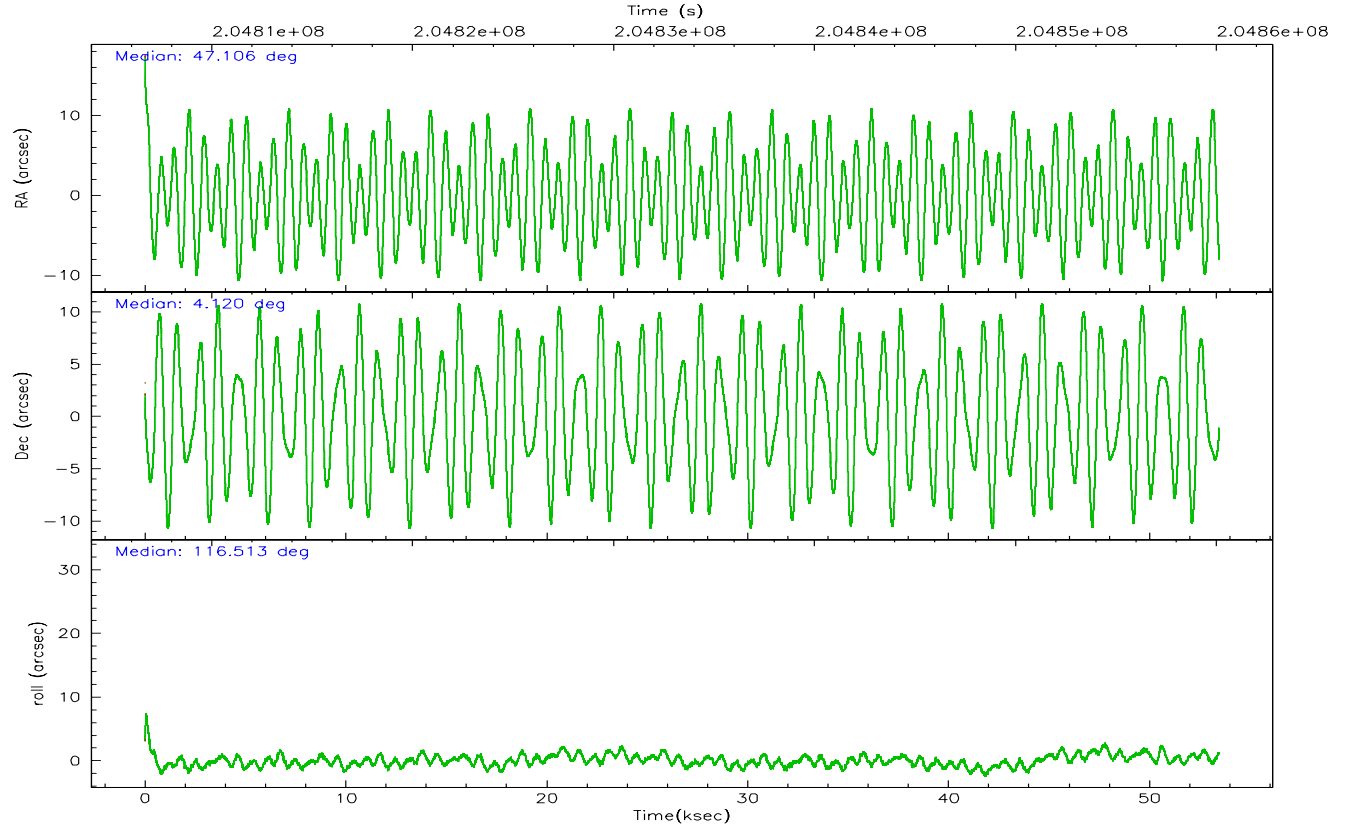


## 2.2 Compared Parameters

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	1/4	1/4
Pointing RA	47.129399	47.10644334296441	Subarray start row	0	385
Pointing Dec	4.105488	4.120167660685865	Subarray row count	1024	256
Pointing Roll	116.364714	116.5229836704792	Alternating exposures requested	N	N
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Primary exposure time	0.000000	0.8
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	204806839.184000	204805865.65413			
Observation start date	2004-06-28T10:46:15	2004-06-28T10:31:05			
Observation end time	204860144.184000	204860881.50657			
Observation end date	2004-06-29T01:34:40	2004-06-29T01:48:01			
Read mode	TIMED	TIMED			

## 2.3 Aspect



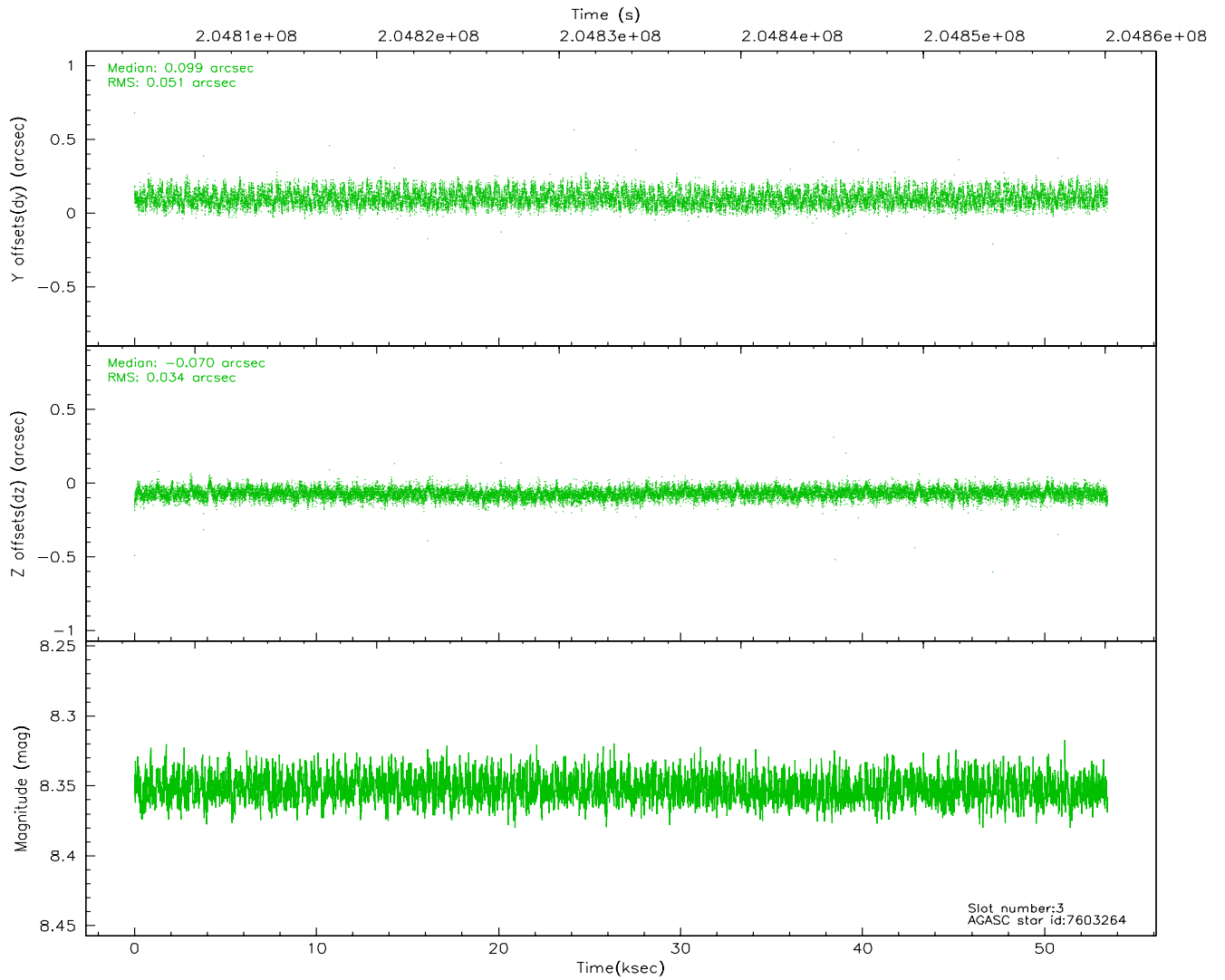
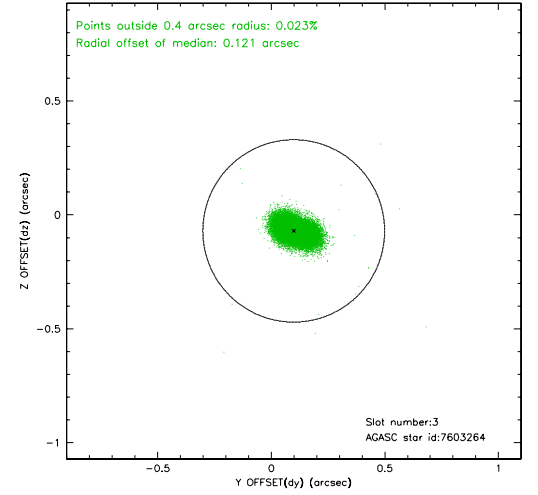
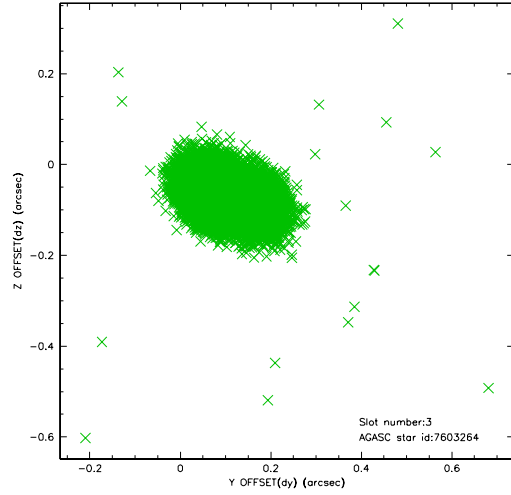


### Slot Statistics

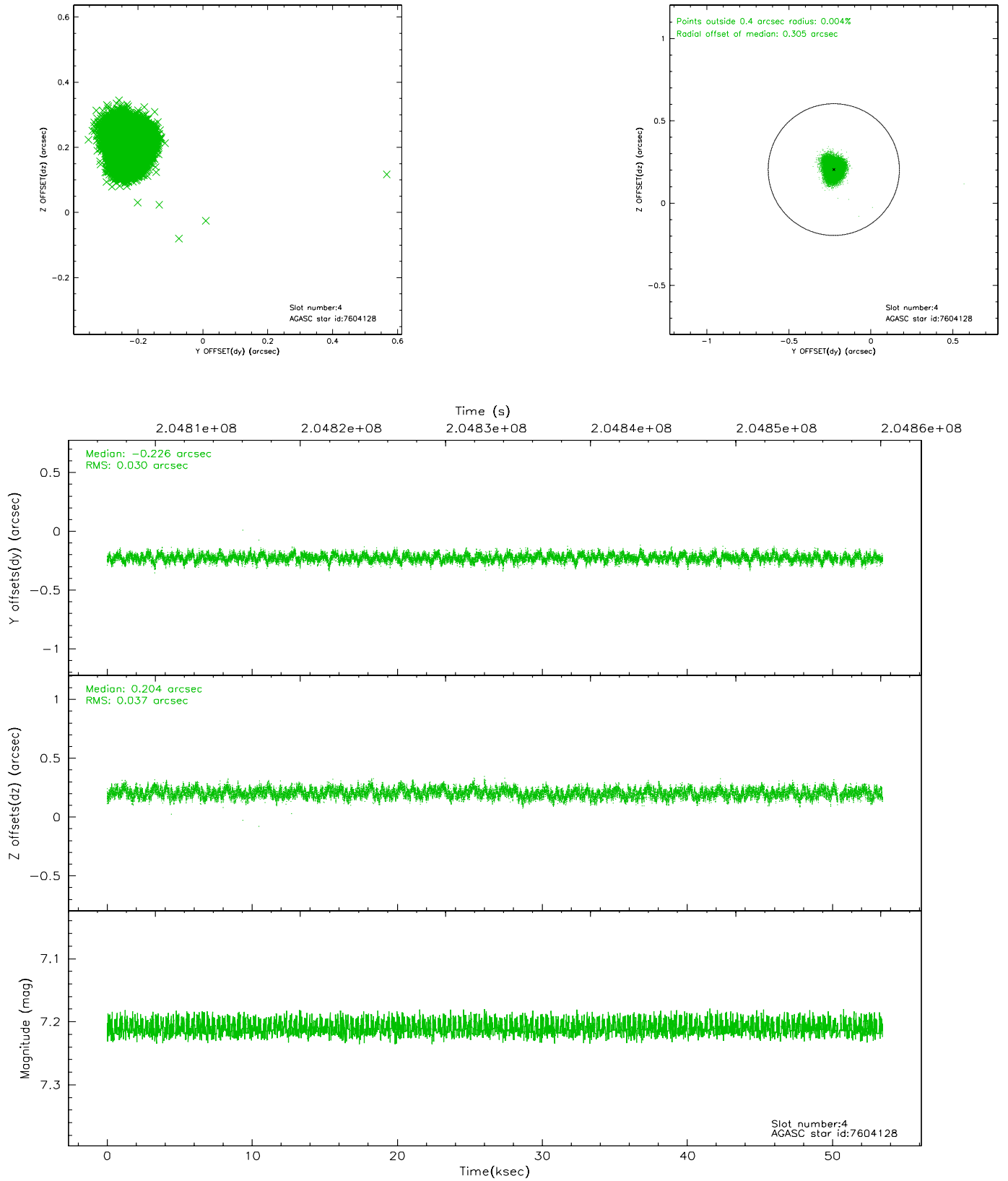
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	13042	-0.036	0.007	0.013	0.019	0.000000	0.000000	-759.64	-1732.17
1	FID	ACIS-S-4	7.20	13040	0.033	0.016	0.010	0.022	0.000000	0.000000	2153.69	176.39
2	FID	ACIS-S-5	7.23	13042	-0.025	-0.014	0.010	0.019	0.000000	0.000000	-1812.54	169.94
3	GUIDE	7603264	8.35	26080	0.099	-0.070	0.065	0.107	46.951152	3.412010	-1952.35	1682.37
4	GUIDE	7604128	7.21	26010	-0.226	0.204	0.051	0.081	47.412135	4.384216	448.67	-1354.63
5	GUIDE	7607008	9.68	26050	-0.016	-0.015	0.098	0.160	46.679520	4.196211	1010.40	1302.10
6	GUIDE	7607064	8.11	26079	0.001	-0.271	0.073	0.114	46.593930	3.810123	-98.13	2195.19
7	GUIDE	7739992	9.35	26062	0.143	0.146	0.100	0.162	47.606496	4.258171	-267.12	-1778.70

## 2.4 Star Slots

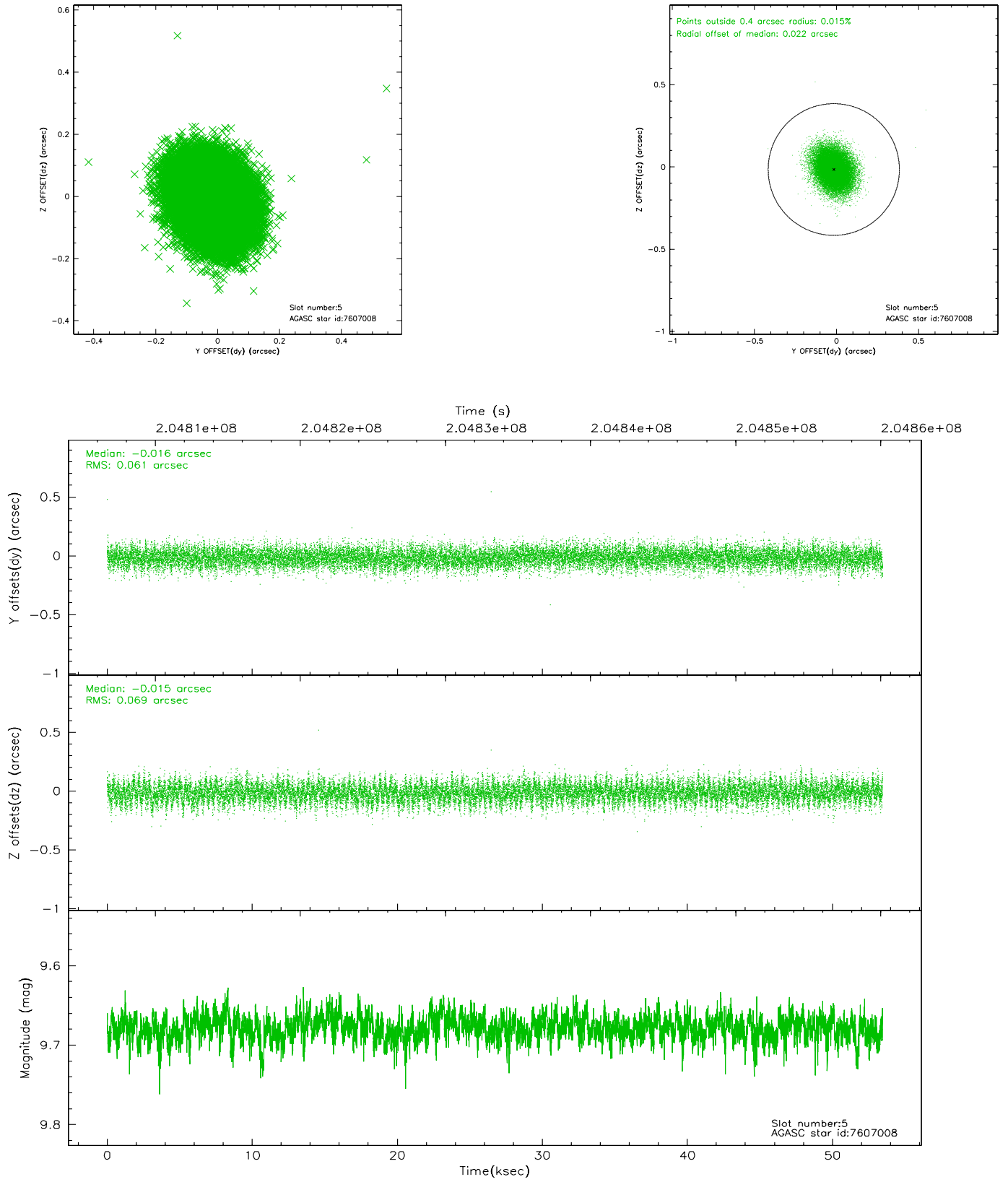
### 2.4.1 Slot 3



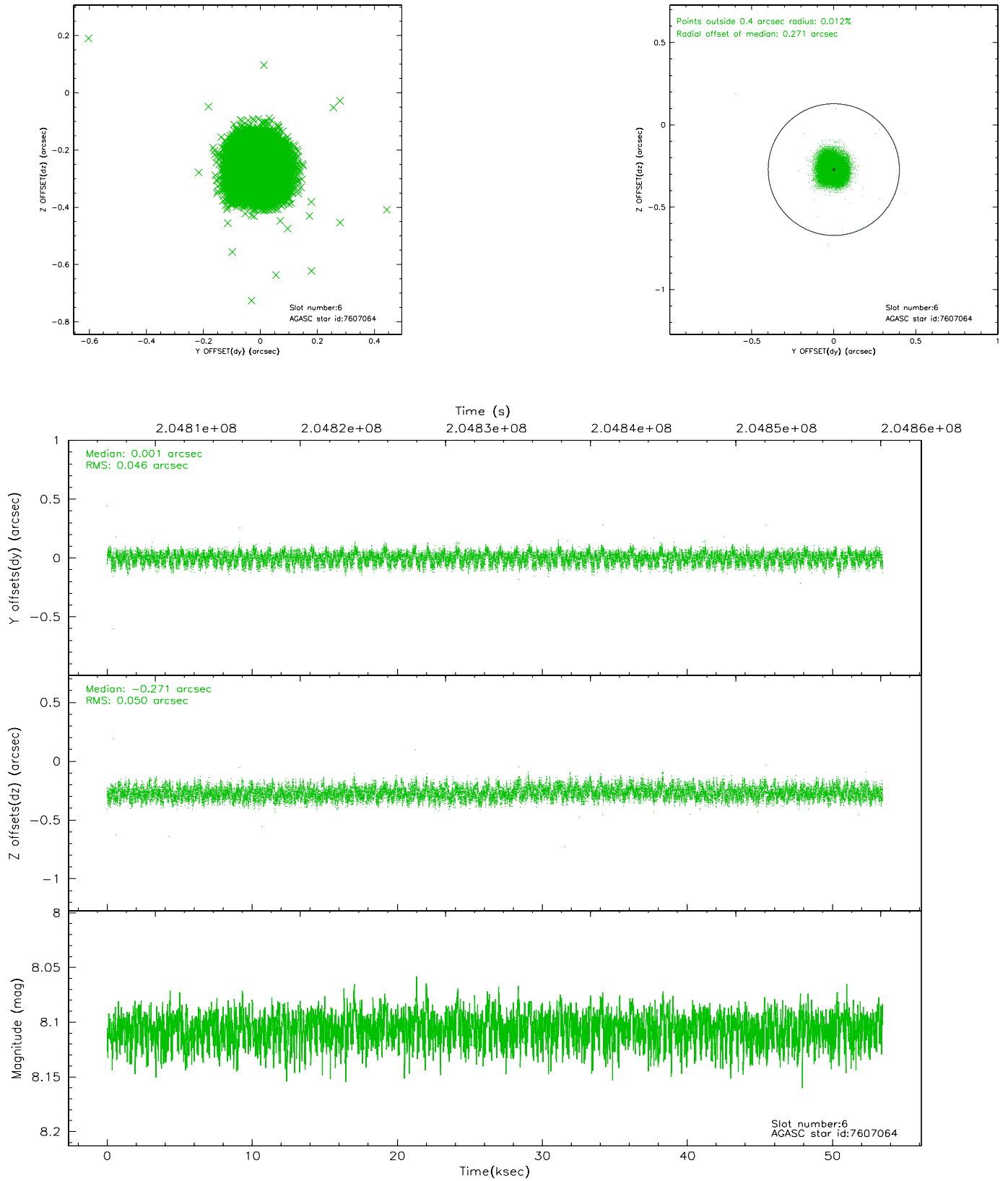
## 2.4.2 Slot 4



### 2.4.3 Slot 5

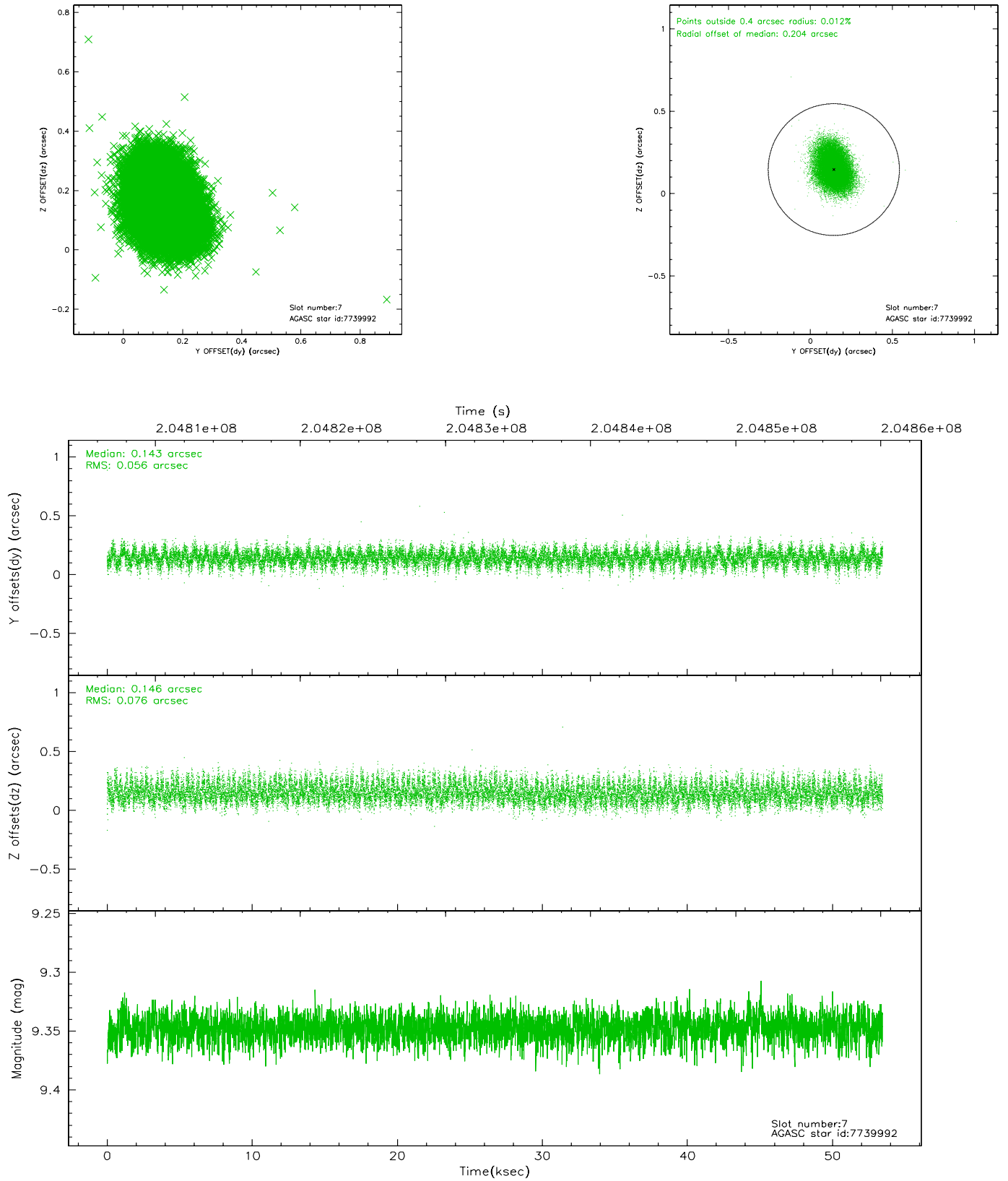


## 2.4.4 Slot 6



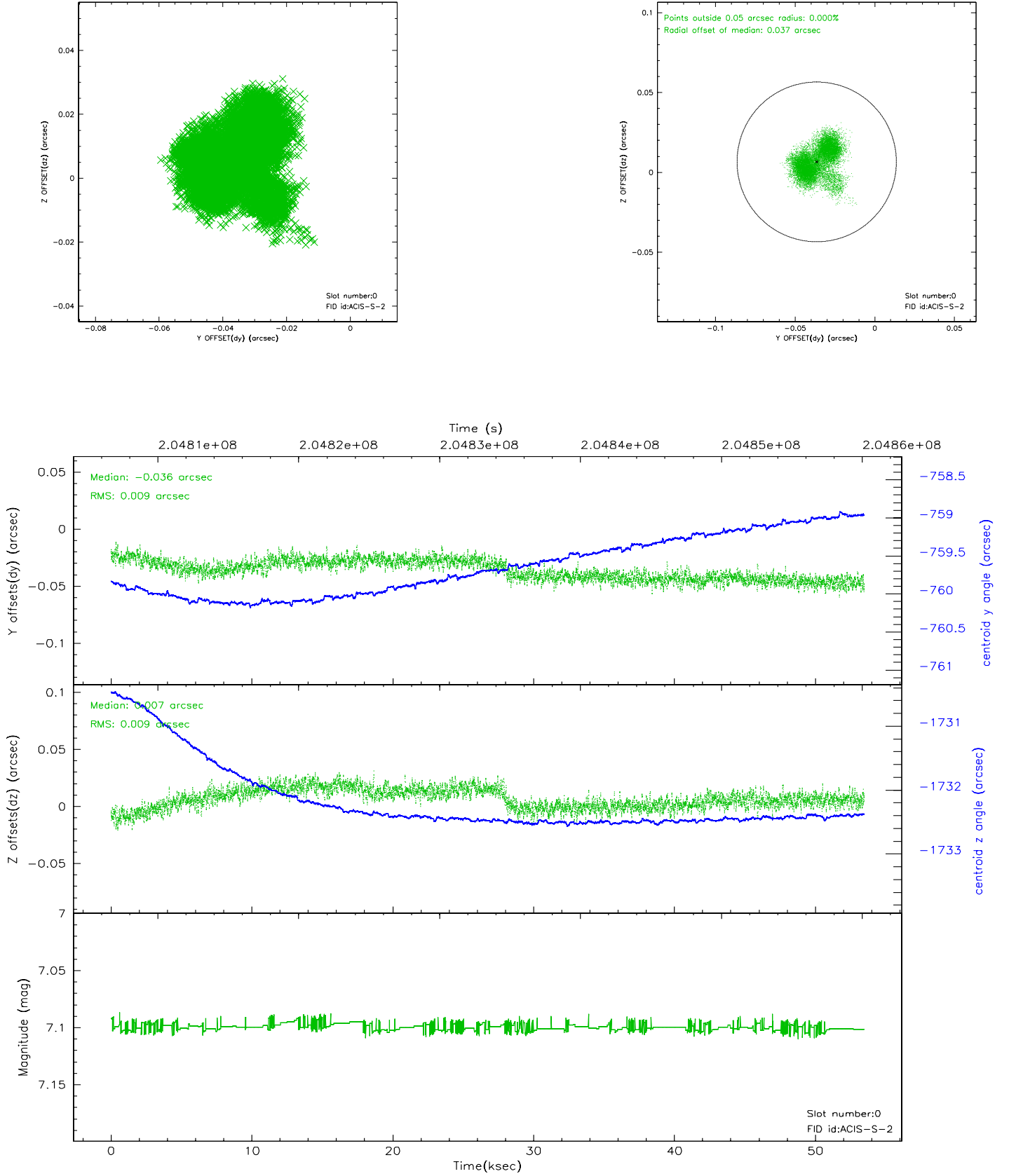


## 2.4.5 Slot 7

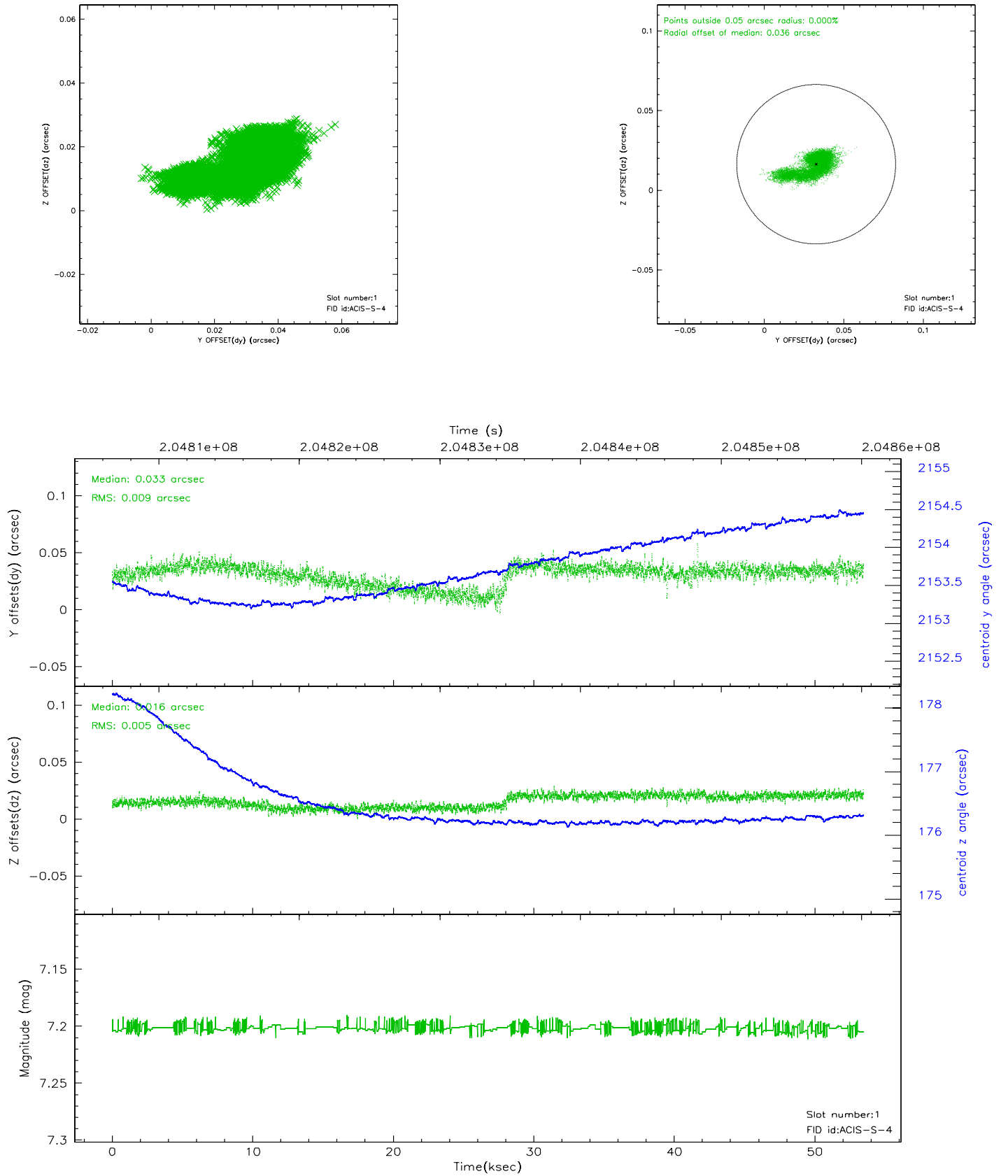


## 2.5 FID Slots

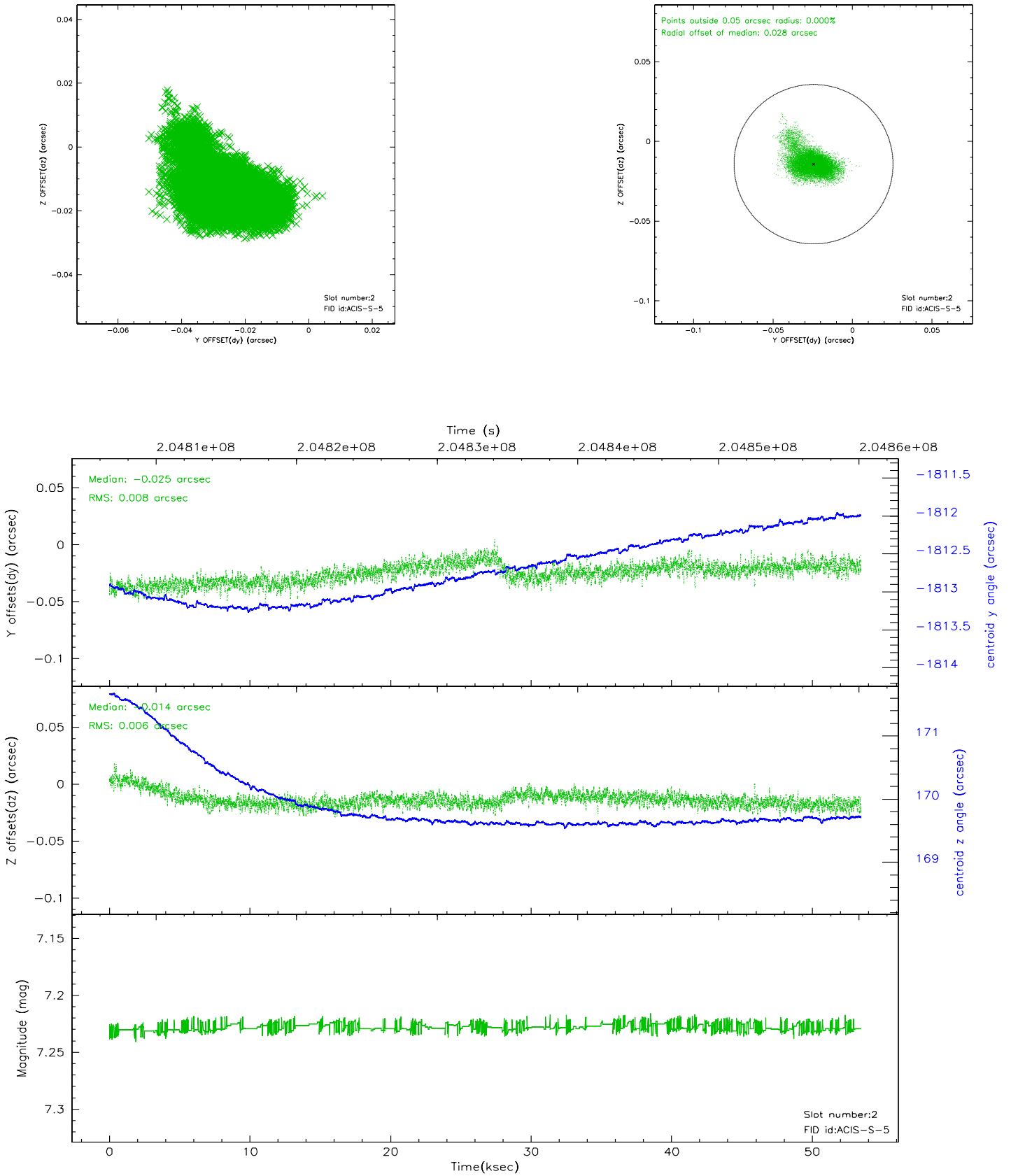
### 2.5.1 Slot 0



## 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)	2006.05.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	53.468

### A.2 Comments

Roll preference not met.