

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11005 - L2 Version 2  
Chandra X-Ray Center

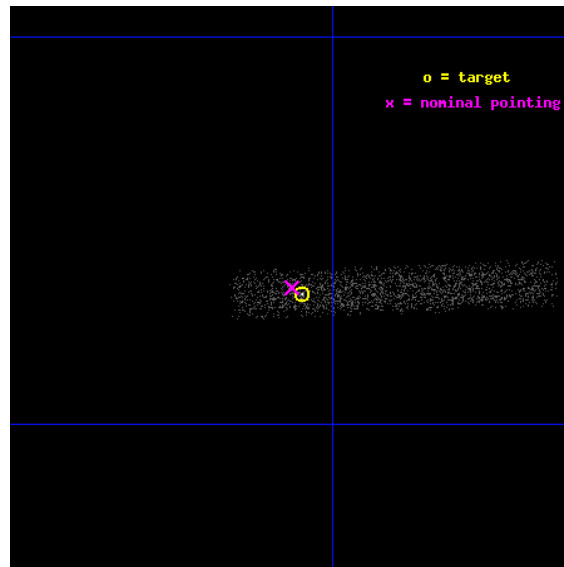
L2 Processing Date : Jun 23 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

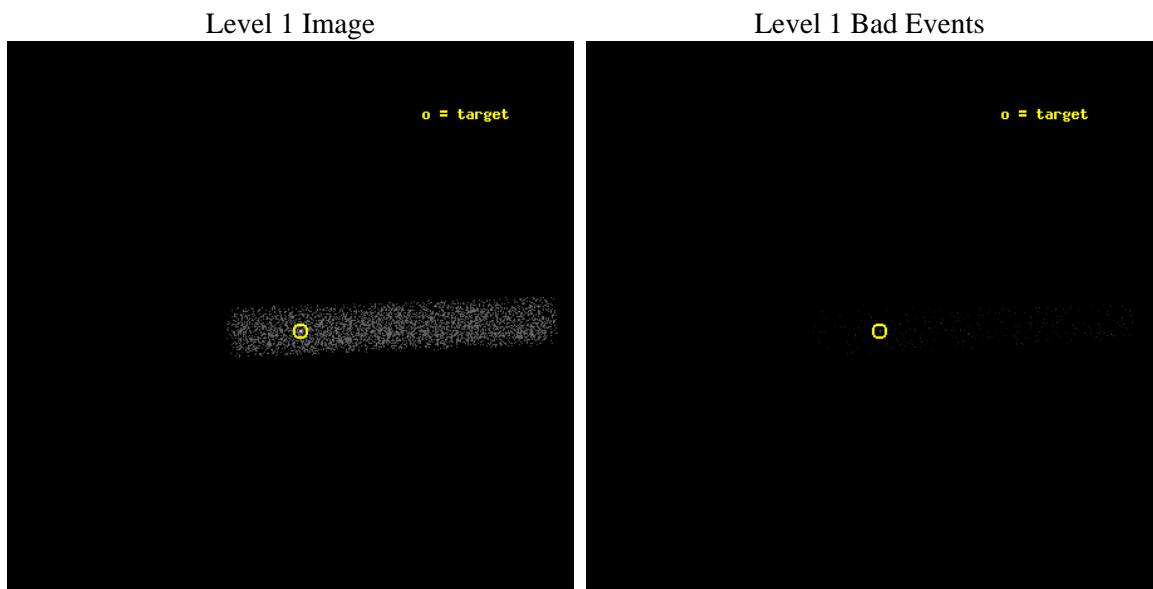
seq_num	200636	Sequence number
obs_id	11005	Observation id
title	NeII as a Tracer for X-Rays in Disks Around T Tauri Stars	Proposal
observer	Prof. Manuel Guedel	Principal investigator
object	TWA 10	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	188.767917	Observer's specified target RA [deg]
dec_targ	-41.610722	Observer's specified target Dec [deg]
ra_nom	188.77363372487	Nominal RA [deg]
dec_nom	-41.608140275351	Nominal Dec [deg]
roll_nom	357.86259804127	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3871.5997692347	Sum of GTIs [s]
livetime	3511.3366309039	Livetime [s]
ontime7	3871.5997692347	Sum of GTIs [s]
l2events	3004	Number of level 2 events



## 2 OBI

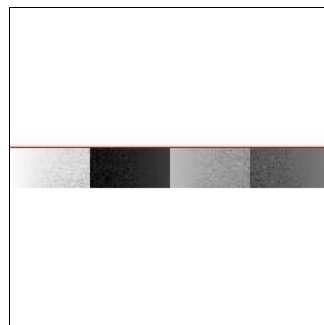
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3700.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3871.5997692347	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime7	3871.5997692347	Sum of GTIs [s]
date	2012-06-23T18:05:05	Date and time of file creation	l1events	6545	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	6545
rejected events	3435
rejected %	52%

	<b>ccd 7</b>
grade 0 events	527
	8%
grade 1 events	9
	0%
grade 2 events	775
	11%
grade 3 events	486
	7%
grade 4 events	454
	6%
grade 5 events	600
	9%
grade 6 events	1391
	21%
grade 7 events	2303
	35%

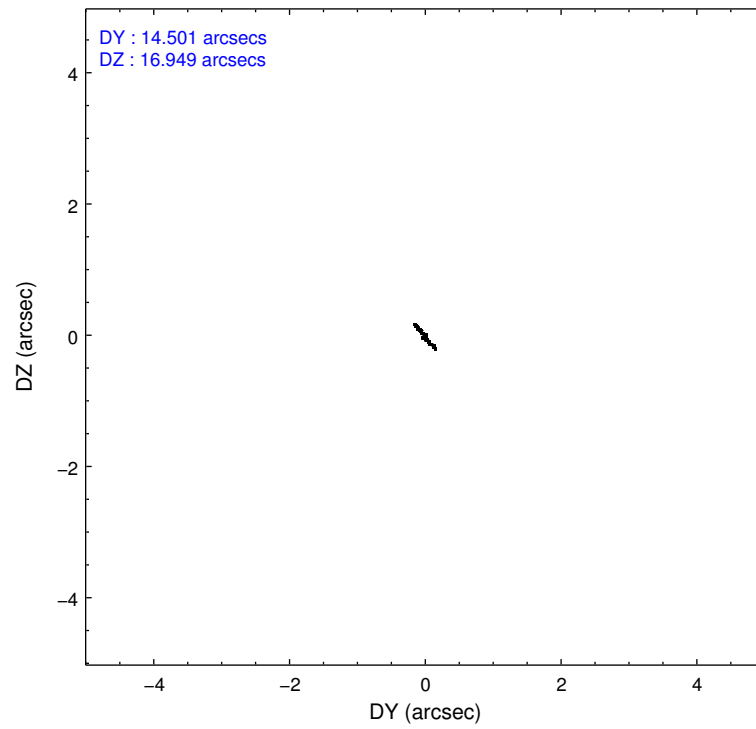
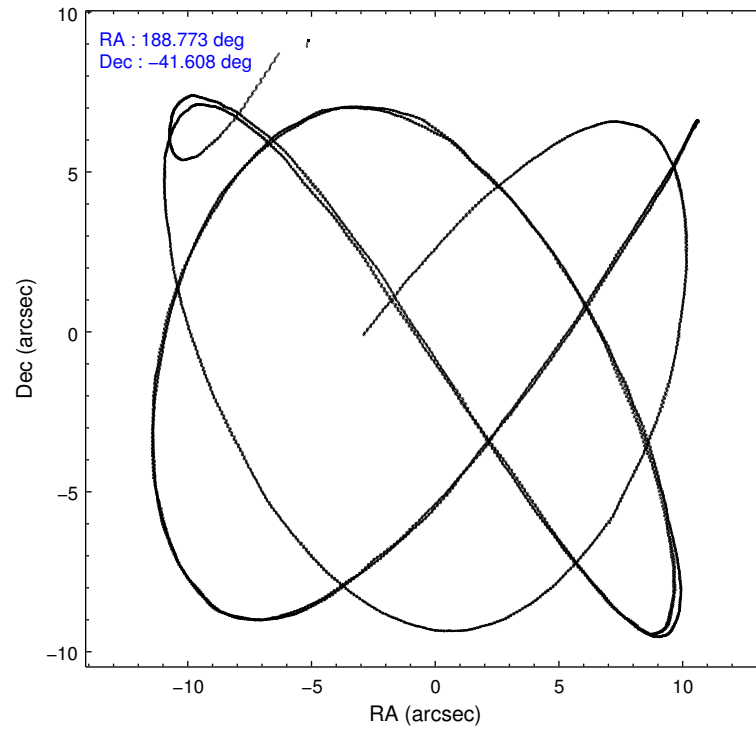


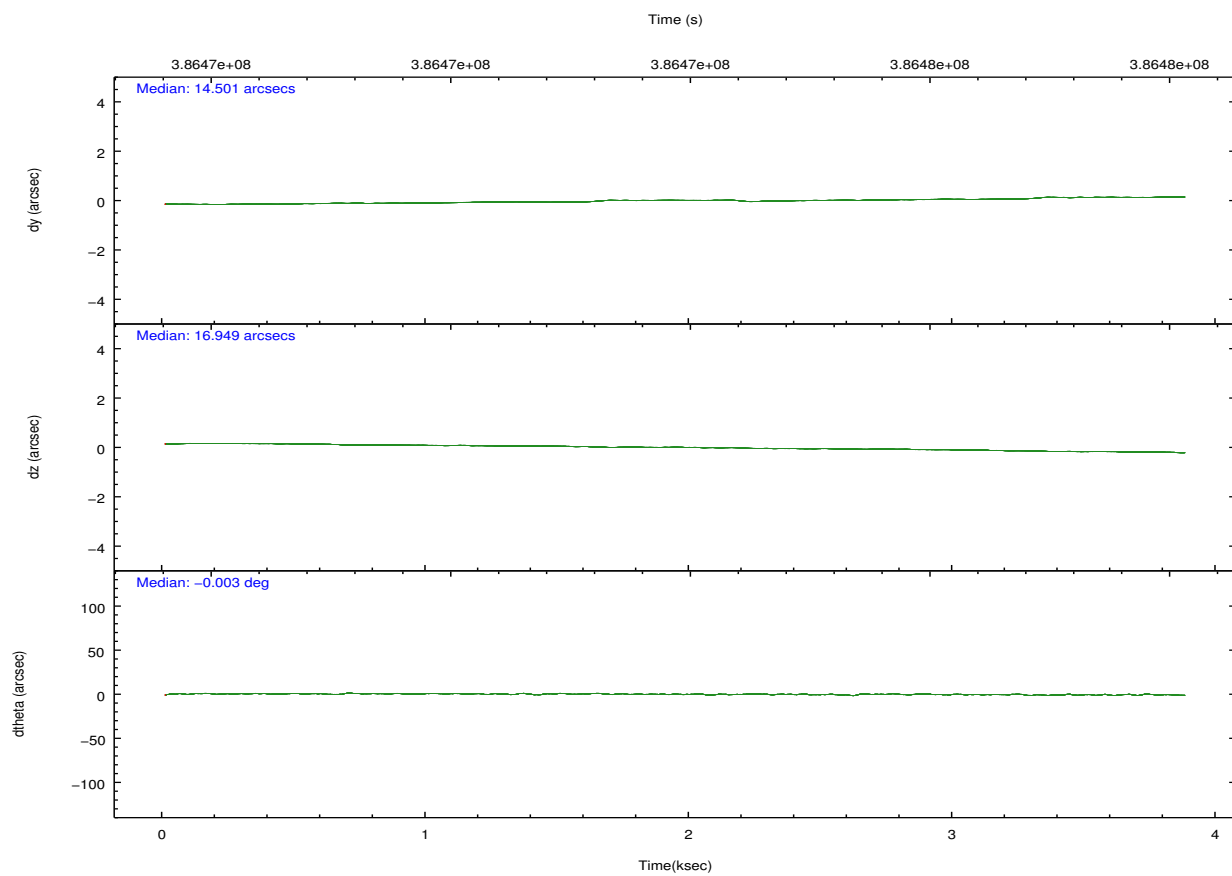
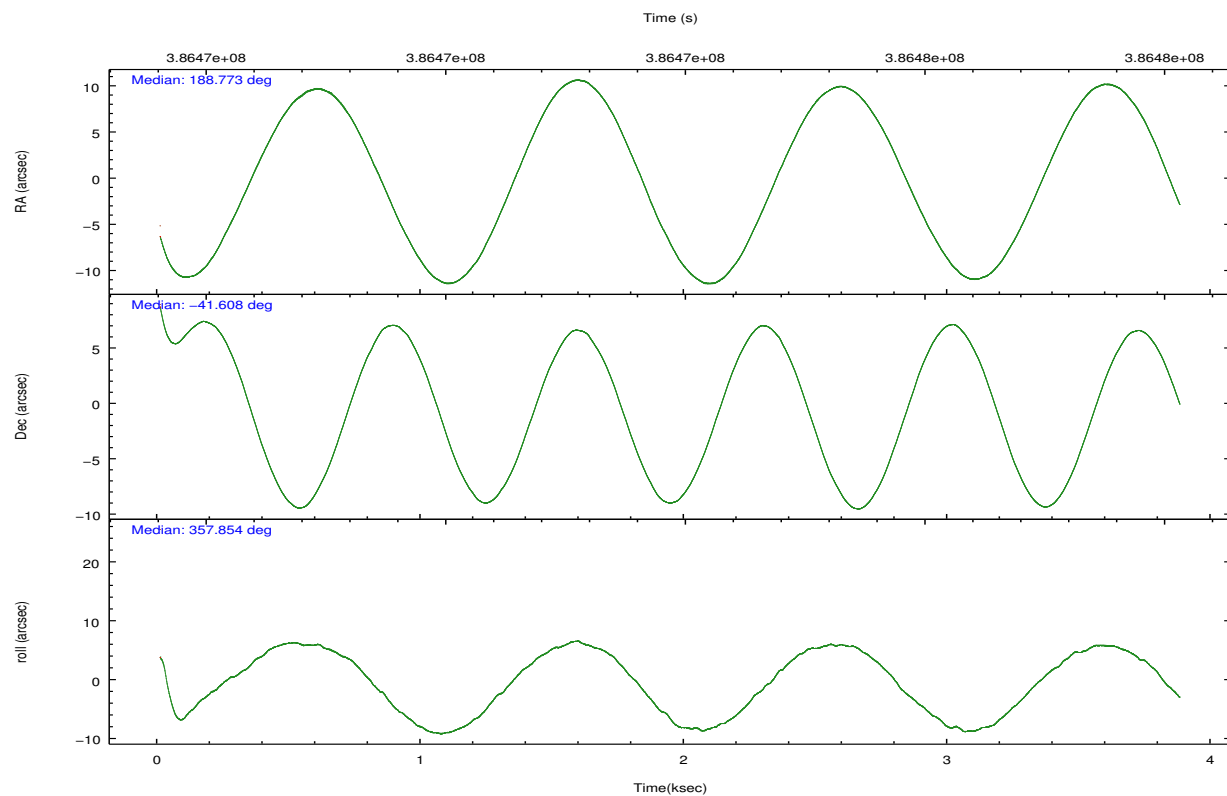
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	188.741459	188.773633724866
[deg] Pointing Dec	-41.621430	-41.60814027535135
[deg] Pointing Roll	357.684564	357.8625980412652
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	386472186.184000	386471169.9685
Observation start date	2010-04-01T01:22:00	2010-04-01T01:06:09
[s] Observation end time (MET)	386475886.184000	386477346.10632
Observation end date	2010-04-01T02:23:40	2010-04-01T02:49:06
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/8
Subarray start row	449	449
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.4

## 2.3 Aspect



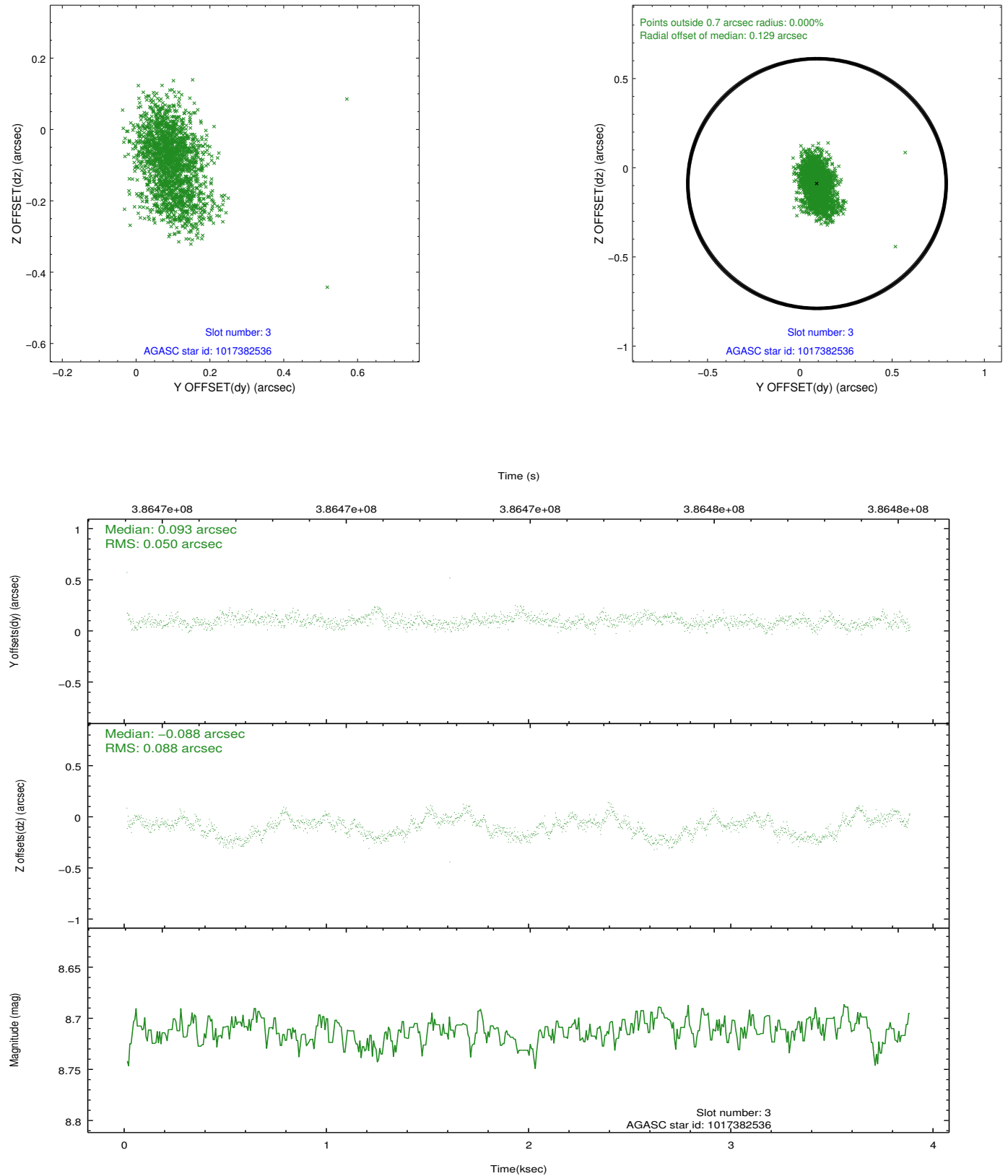


### Slot Statistics

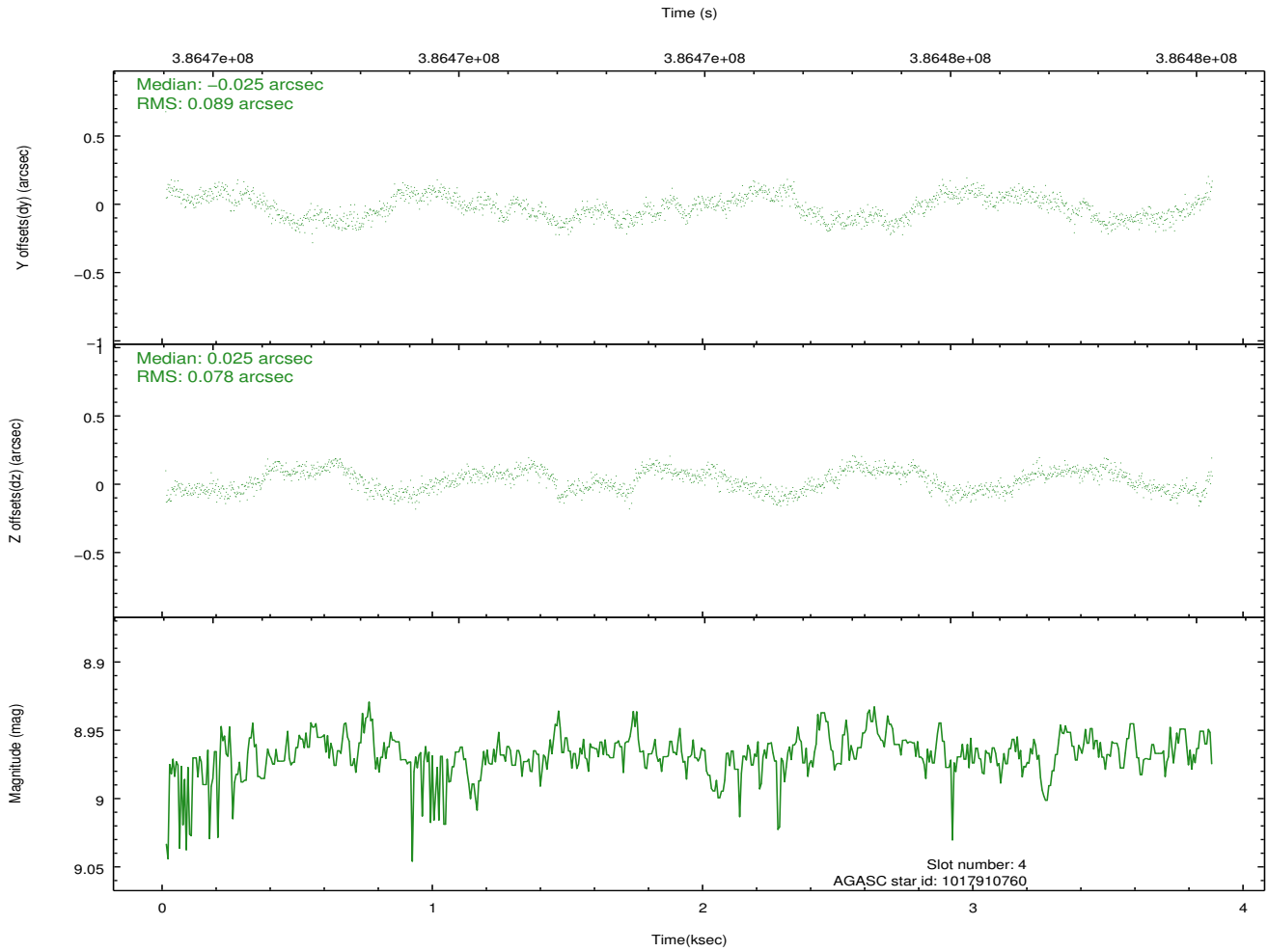
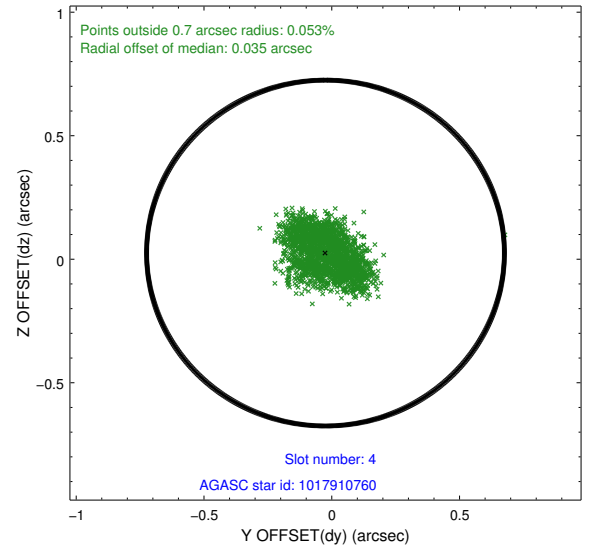
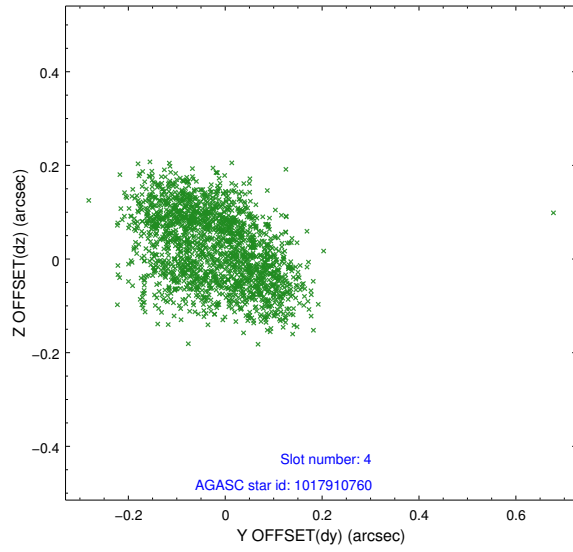
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	945	-0.049	-0.020	0.008	0.014	0.000000	0.000000	-767.53	-1738.32
1	FID	ACIS-S-4	6.96	945	0.161	0.029	0.006	0.012	0.000000	0.000000	2145.26	168.47
2	FID	ACIS-S-5	6.99	945	-0.142	-0.001	0.008	0.013	0.000000	0.000000	-1818.35	164.03
3	GUIDE	1017382536	8.71	1889	0.093	-0.088	0.107	0.177	188.702953	-41.234604	-162.61	1387.13
4	GUIDE	1017910760	8.97	1890	-0.025	0.025	0.127	0.190	189.285303	-41.995382	1509.27	-1291.04
5	GUIDE	1017915336	9.00	1889	0.041	0.033	0.106	0.170	189.340449	-42.028268	1661.09	-1405.35
6	GUIDE	1017922224	7.04	1890	-0.035	-0.078	0.075	0.135	188.370074	-41.414074	-1031.05	701.50
7	GUIDE	1017916528	8.18	1887	-0.086	0.118	0.076	0.122	189.022288	-42.309645	846.18	-2446.23

## 2.4 Star Slots

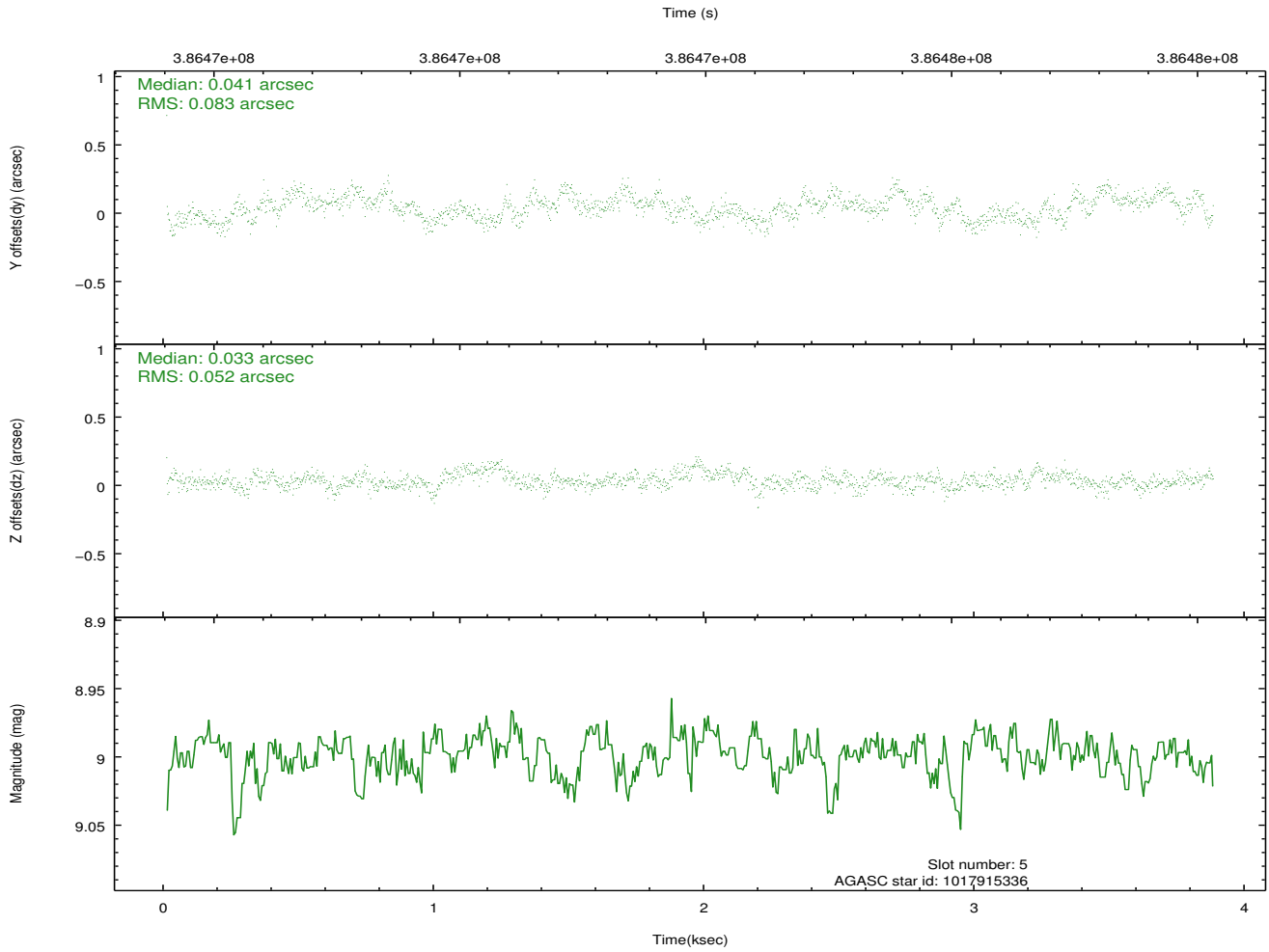
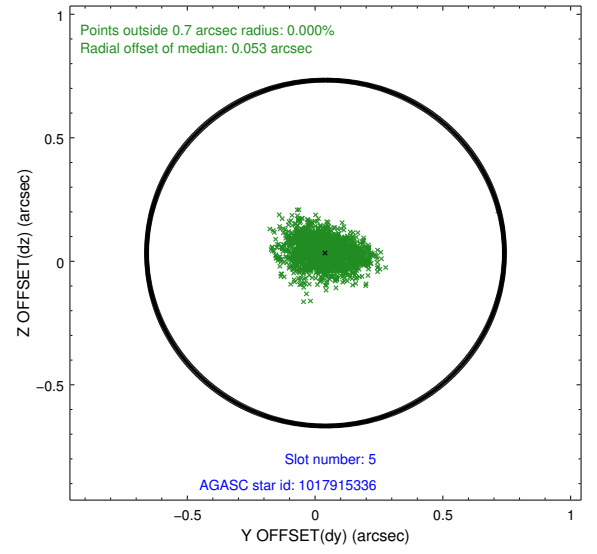
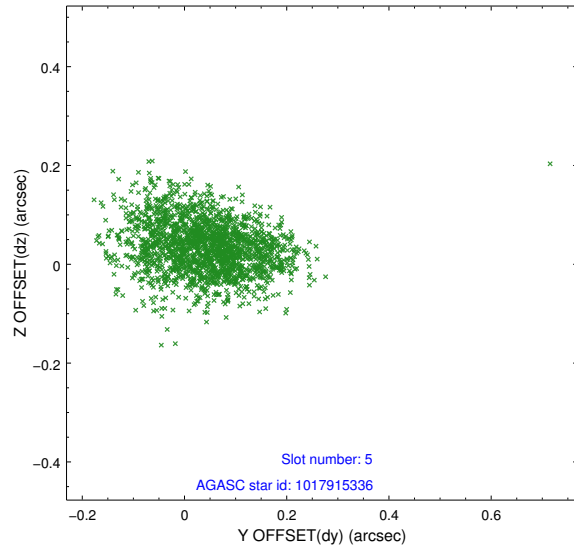
### 2.4.1 Slot 3



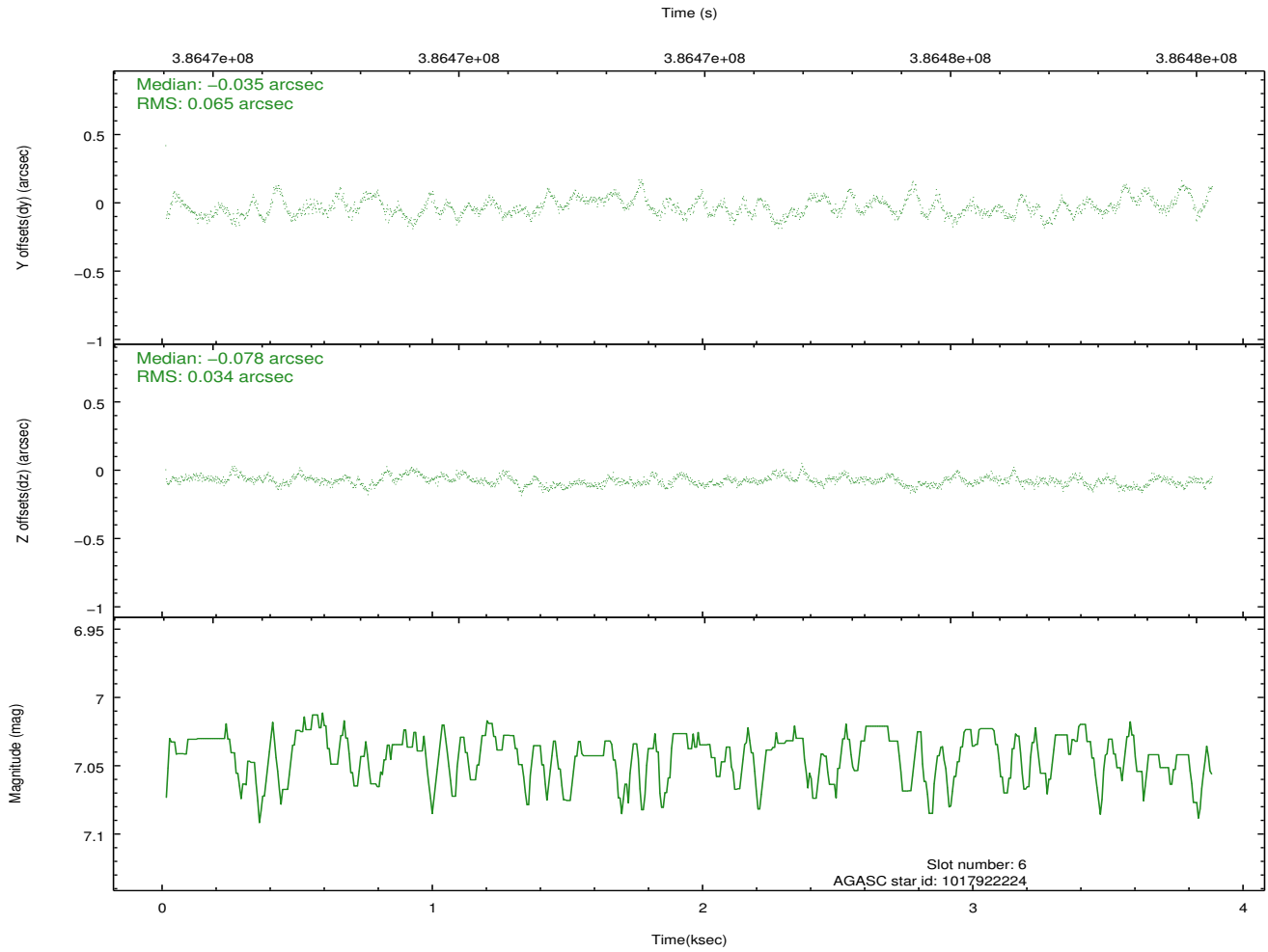
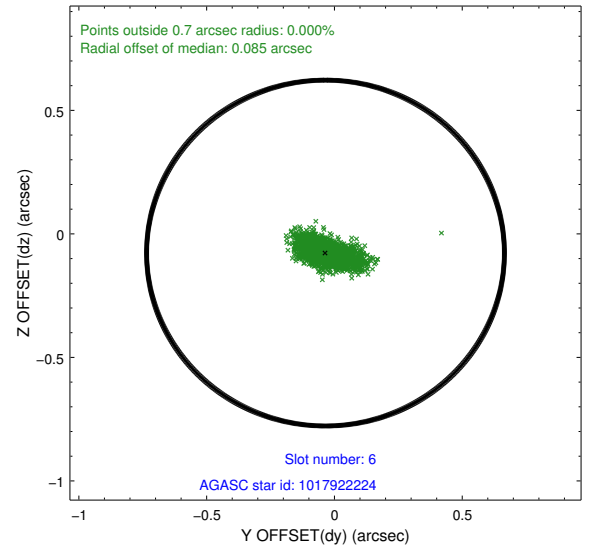
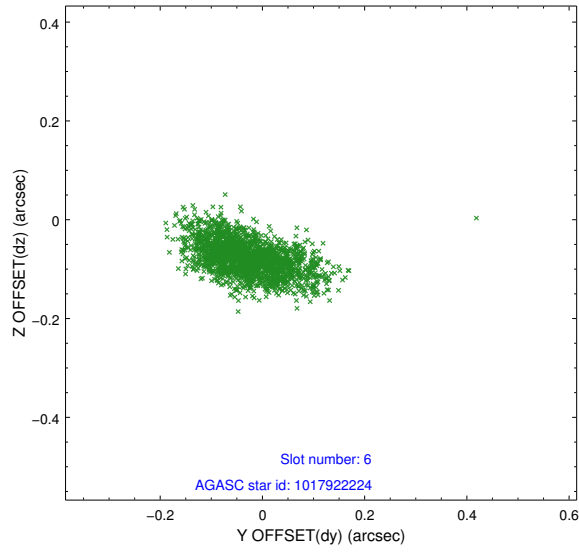
## 2.4.2 Slot 4



### 2.4.3 Slot 5

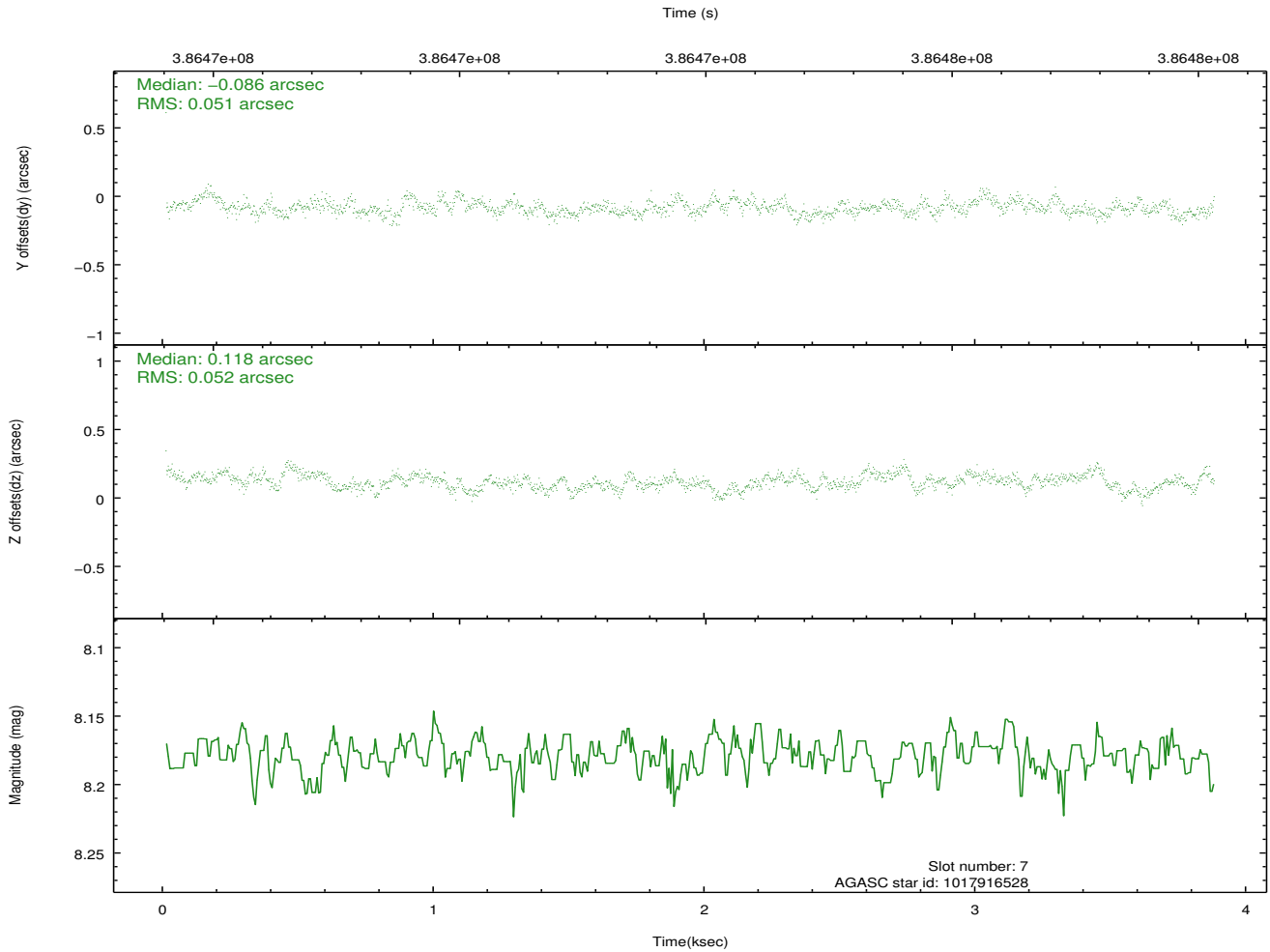
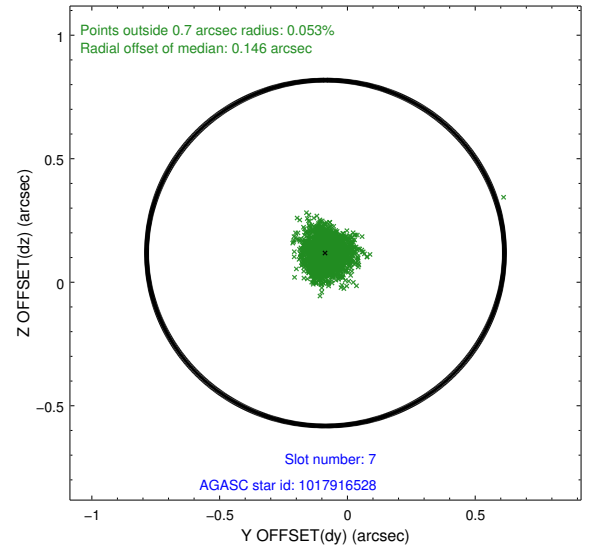
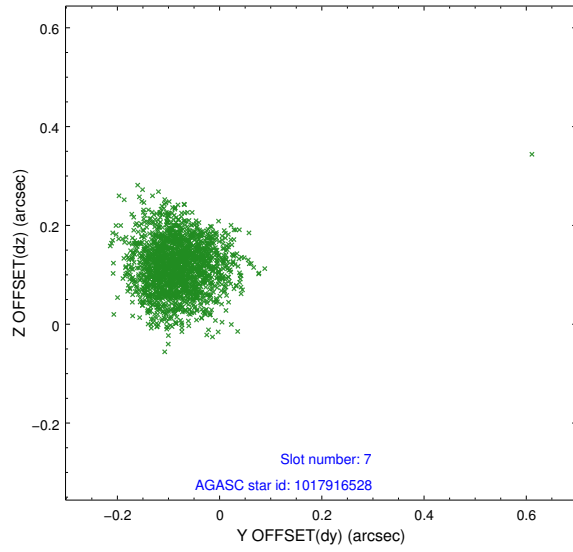


## 2.4.4 Slot 6



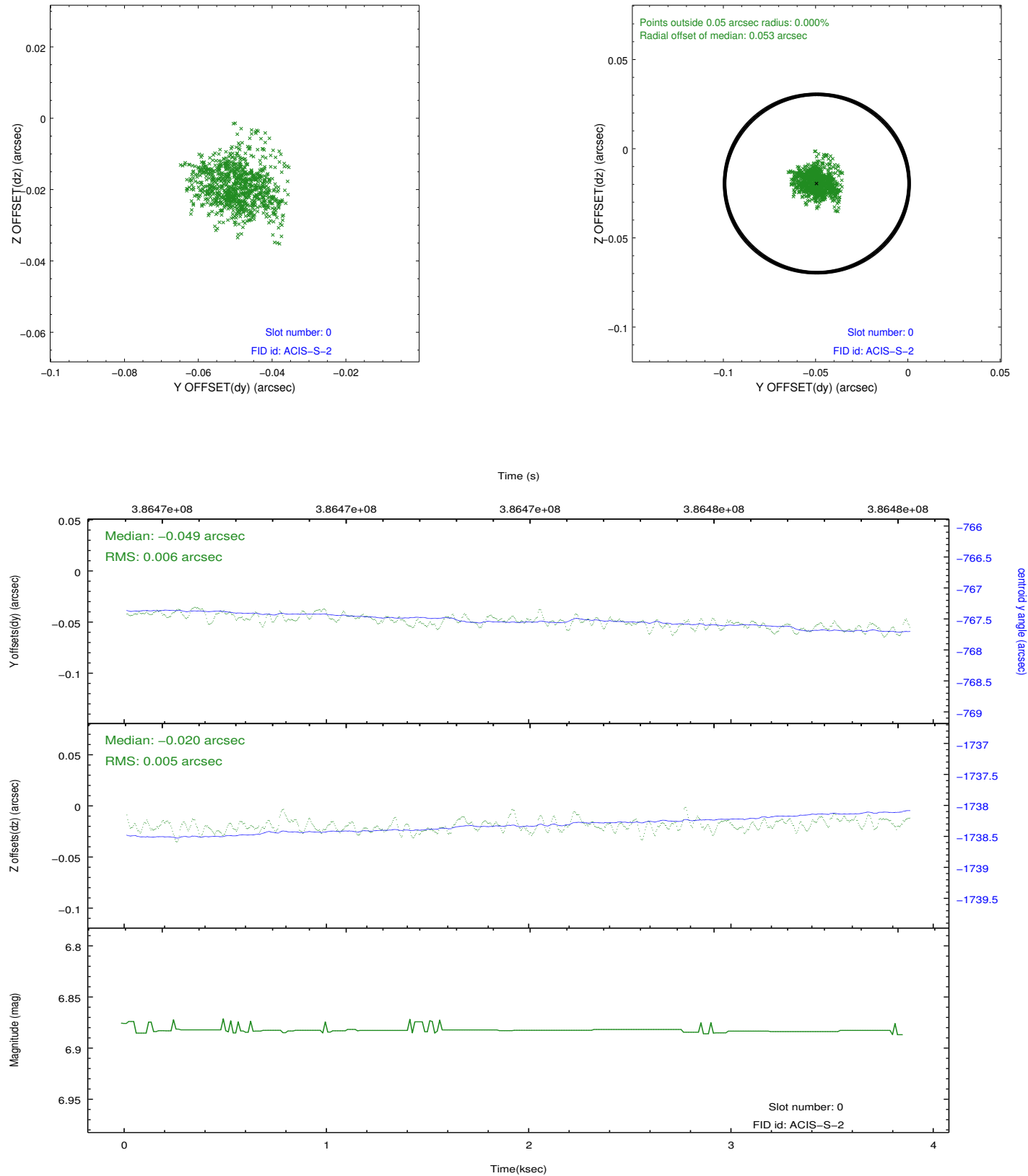


## 2.4.5 Slot 7

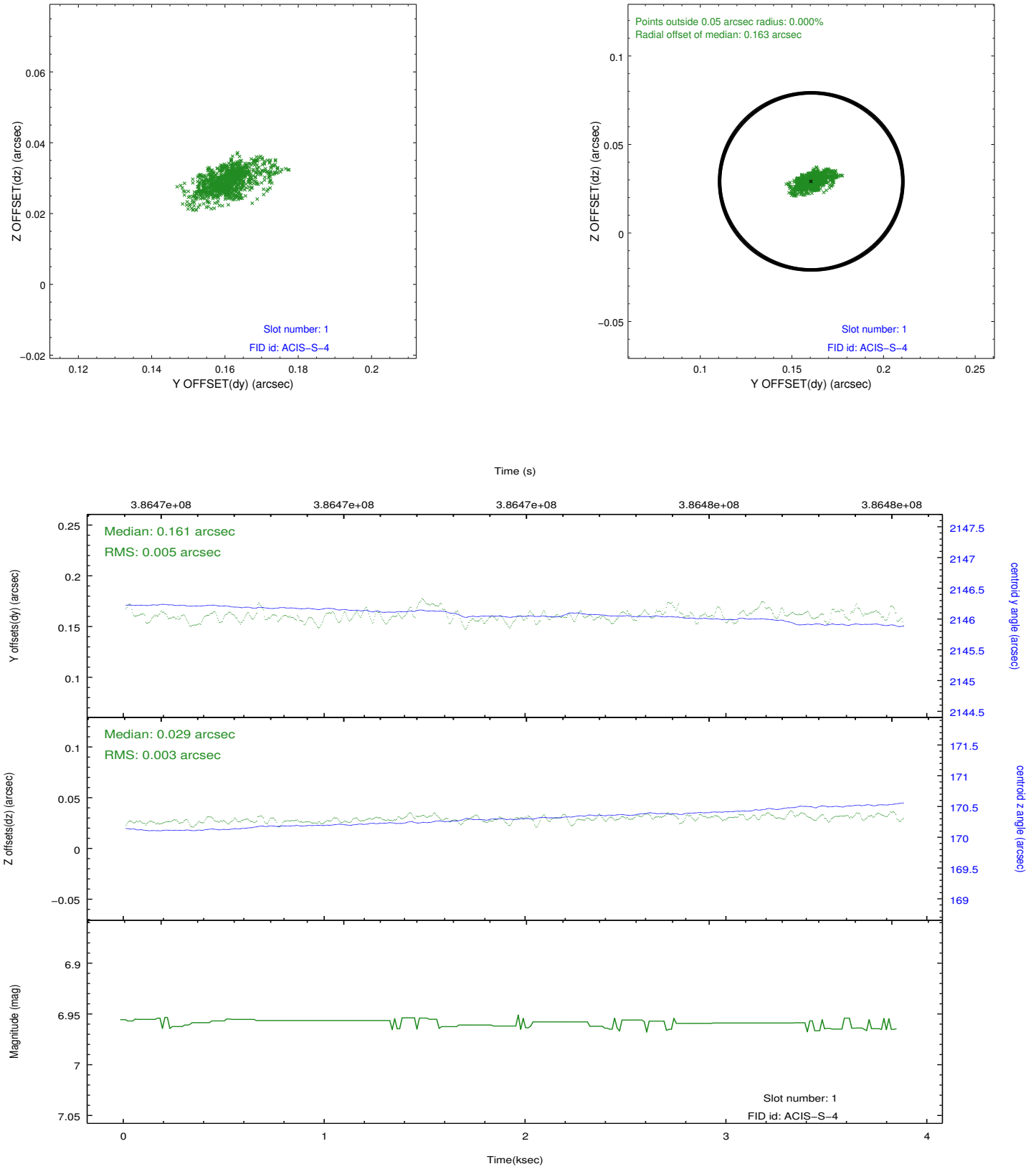


## 2.5 FID Slots

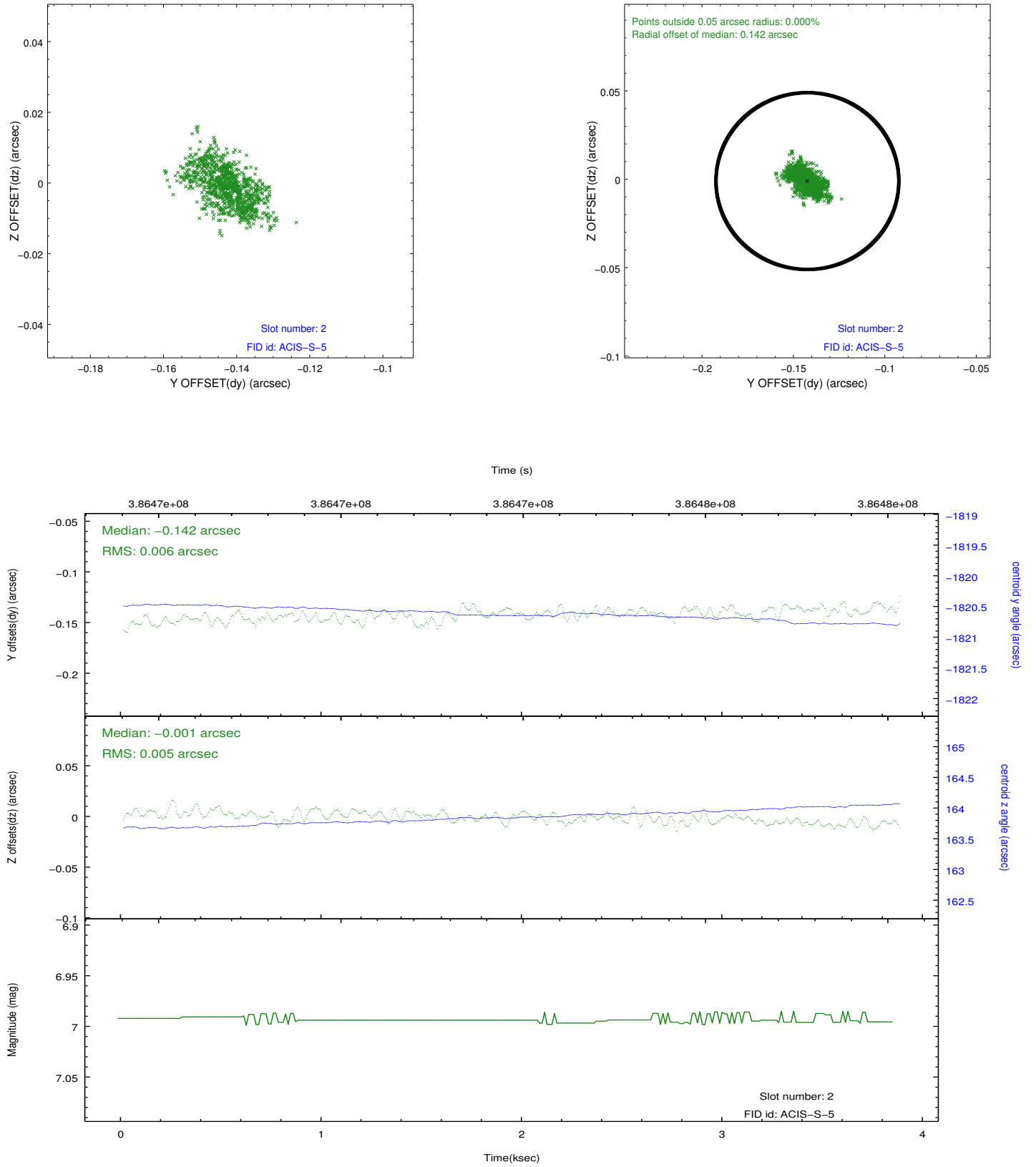
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.8715997692347

### A.2 Comments