

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 4805 - L2 Version 3  
Chandra X-Ray Center

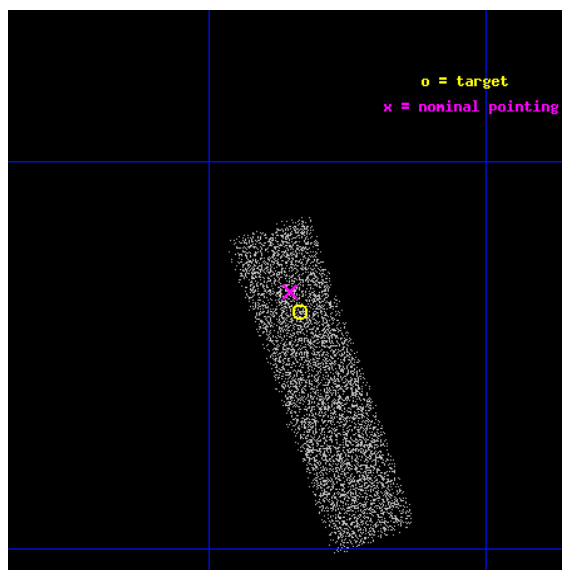
L2 Processing Date : Nov 9 2012

## 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

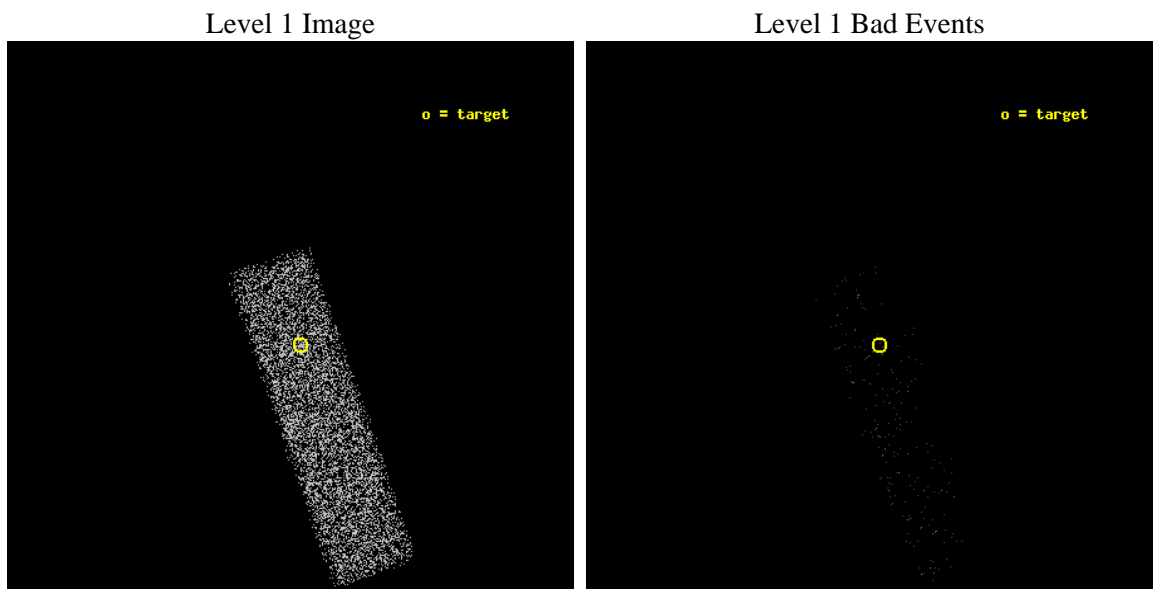
seq_num	700888	Sequence number
obs_id	4805	Observation id
title	Unveiling the engine powering OH Gigamaser sources through X-rays. A well-defined Chandra survey	Proposal title
observer	Dr Cristian Vignali	Principal investigator
object	IRAS FSC 09531+1430	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.95875	Observer's specified target RA [deg]
dec_targ	14.268861	Observer's specified target Dec [deg]
ra_nom	148.96354913441	Nominal RA [deg]
dec_nom	14.277200200583	Nominal Dec [deg]
roll_nom	70.806234982325	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4237.6000631452	Sum of GTIs [s]
livetime	4030.8190460812	Livetime [s]
ontime7	4237.6000631452	Sum of GTIs [s]
l2events	6406	Number of level 2 events



## 2 OBI

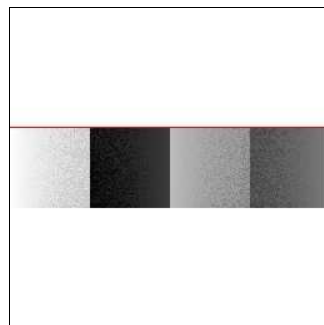
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4100.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4237.6000631452	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime7	4237.6000631452	Sum of GTIs [s]
date	2012-11-09T07:37:08	Date and time of file creation	l1events	9978	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	9978
rejected events	3447
rejected %	34%

	<b>ccd 7</b>
grade 0 events	795
	7%
grade 1 events	4
	0%
grade 2 events	1438
	14%
grade 3 events	757
	7%
grade 4 events	693
	6%
grade 5 events	659
	6%
grade 6 events	3533
	35%
grade 7 events	2099
	21%

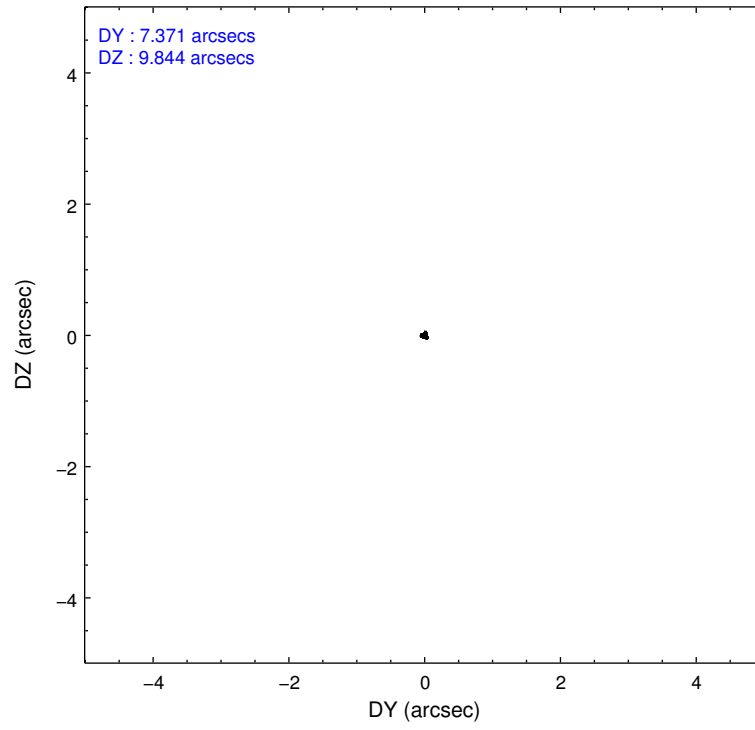
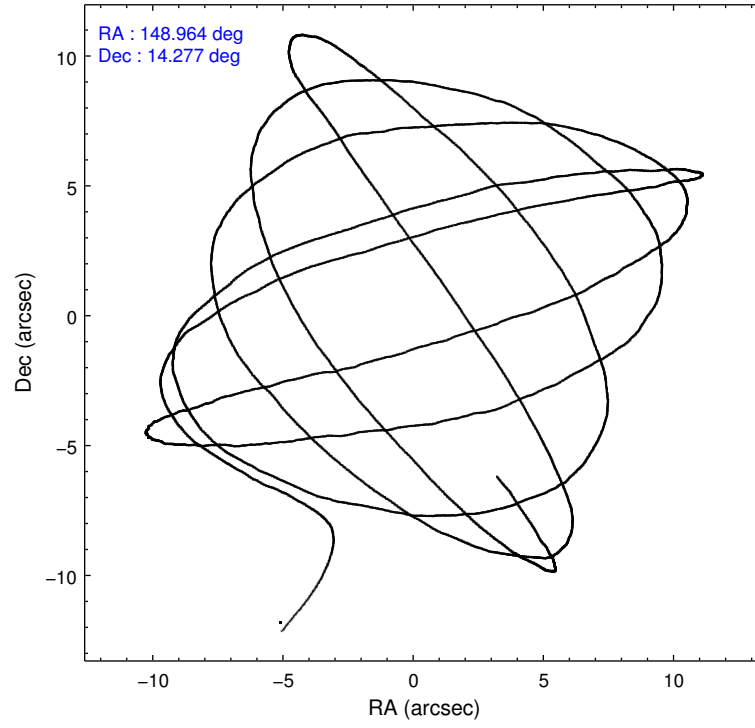


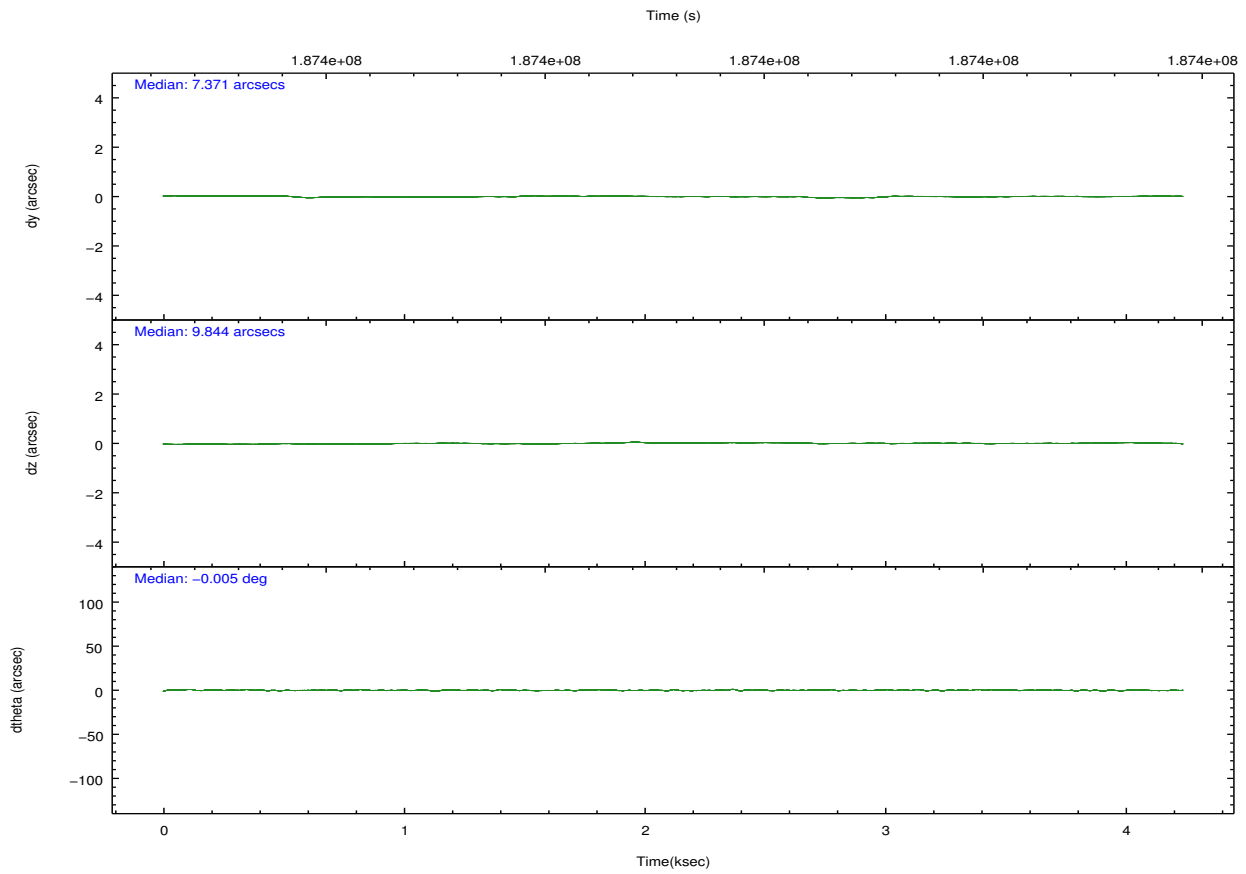
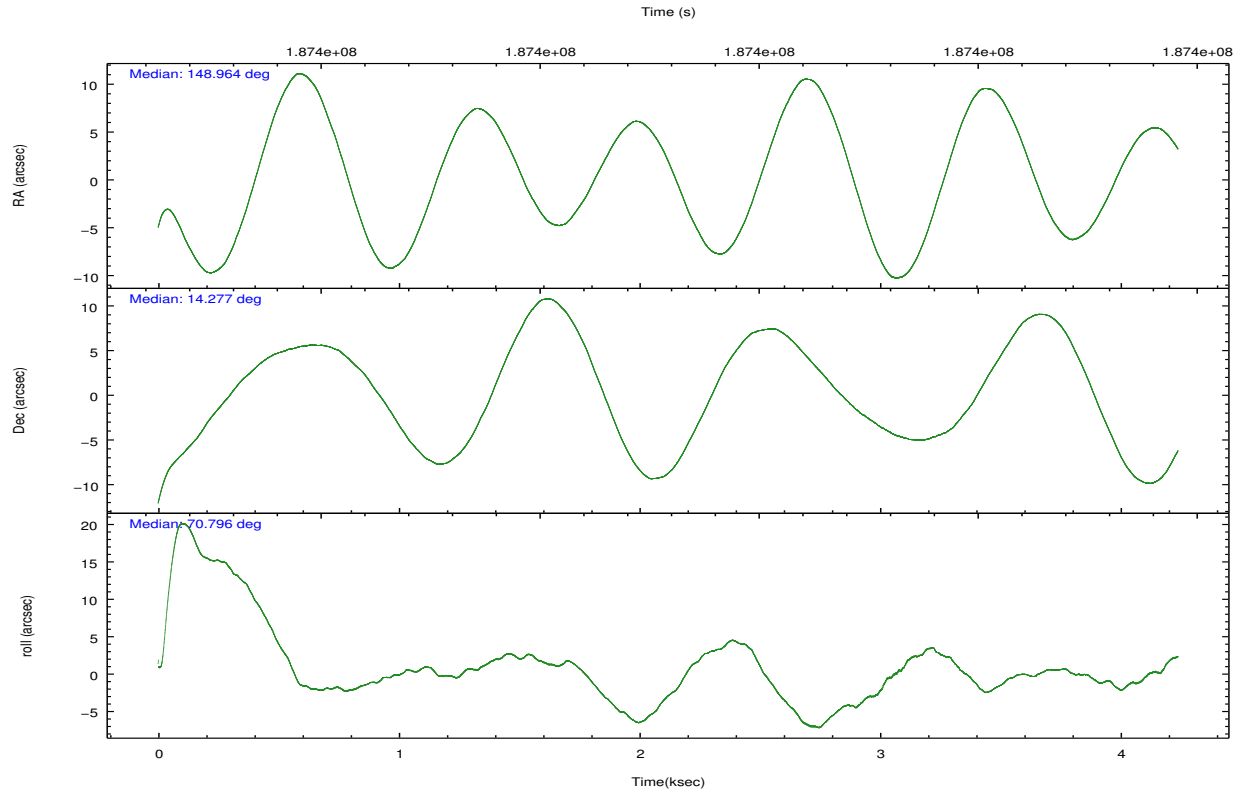
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-7	ACIS-7
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	148.969274	148.9635491344093
[deg] Pointing Dec	14.250619	14.27720020058349
[deg] Pointing Roll	70.648270	70.80623498232453
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1400660498719
[mm] SIM translation stage offset	0	0.00754346686406393
[s] Observation start time (MET)	187394599.184000	187393529.2775
Observation start date	2003-12-09T22:02:15	2003-12-09T21:45:29
[s] Observation end time (MET)	187398699.184000	187400568.4653
Observation end date	2003-12-09T23:10:35	2003-12-09T23:42:48
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	1/4
Subarray start row	385	385
Subarray row count	256	256
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.8

## 2.3 Aspect



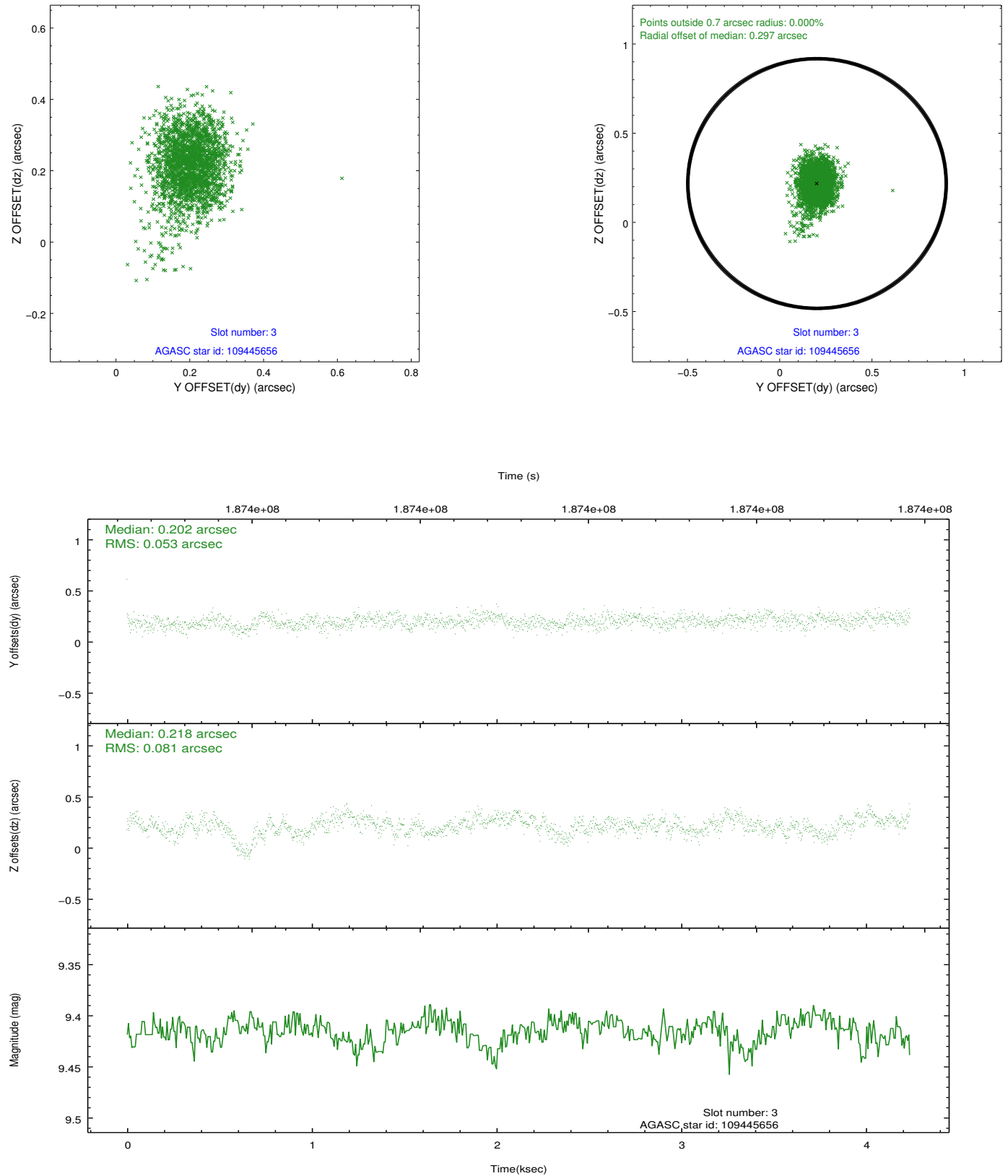


### Slot Statistics

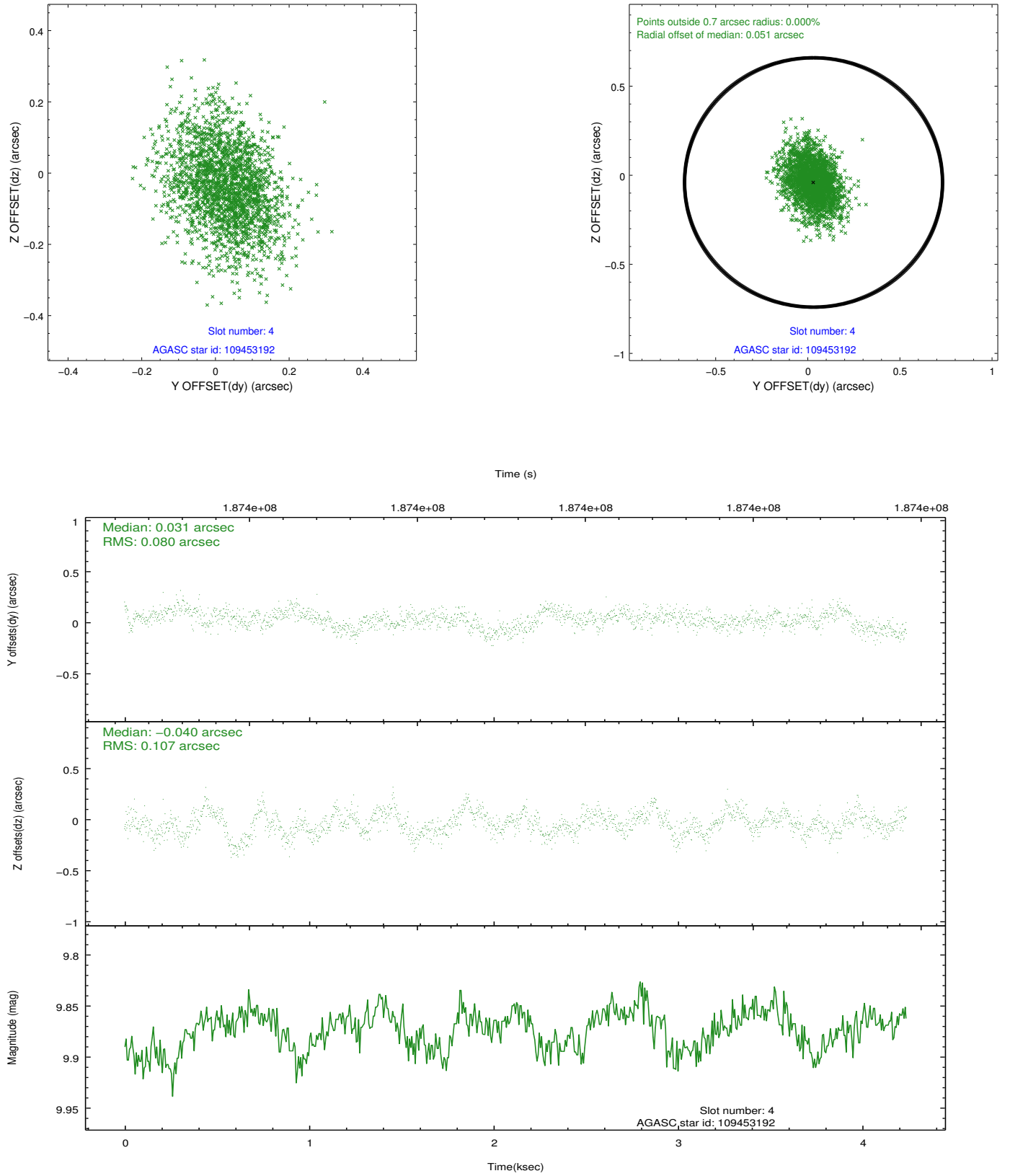
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1035	-0.039	-0.014	0.007	0.010	0.000000	0.000000	-760.14	-1731.11
1	FID	ACIS-S-4	7.20	1034	0.070	0.023	0.005	0.010	0.000000	0.000000	2152.55	175.95
2	FID	ACIS-S-5	7.23	1035	-0.062	0.001	0.007	0.011	0.000000	0.000000	-1811.16	171.19
3	GUIDE	109445656	9.41	2069	0.202	0.218	0.097	0.169	149.158351	13.833589	-1196.25	-1121.34
4	GUIDE	109453192	9.87	2066	0.031	-0.040	0.141	0.237	148.405735	14.314201	-433.44	1930.78
5	GUIDE	109447576	8.01	2069	0.057	0.390	0.080	0.139	149.469137	13.607253	-1603.02	-2415.78
6	GUIDE	109455232	10.53	2007	-0.346	-0.900	0.202	0.316	148.423366	14.746656	1056.56	2383.74
7	GUIDE	109454992	10.14	2068	0.048	0.311	0.184	0.292	149.199694	14.787833	2092.15	-113.86

## 2.4 Star Slots

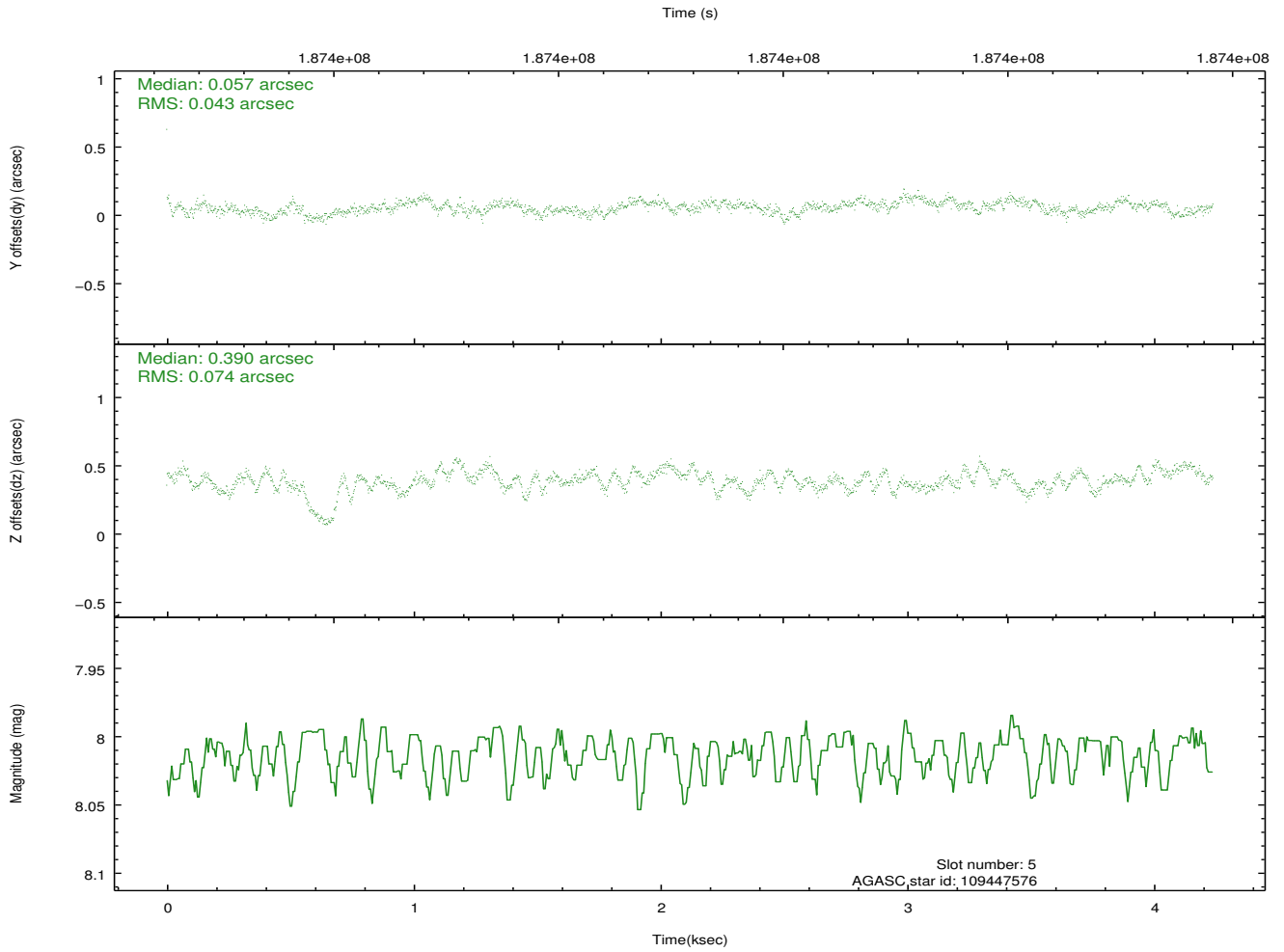
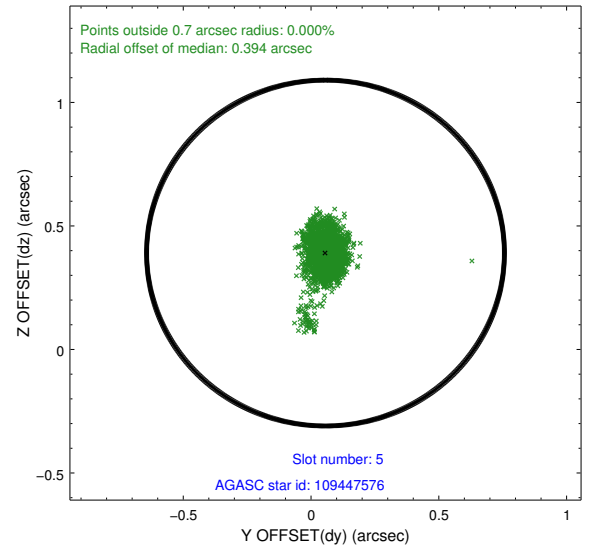
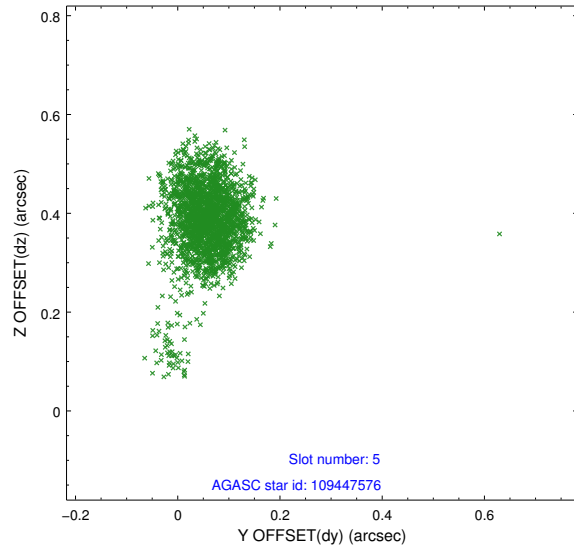
### 2.4.1 Slot 3



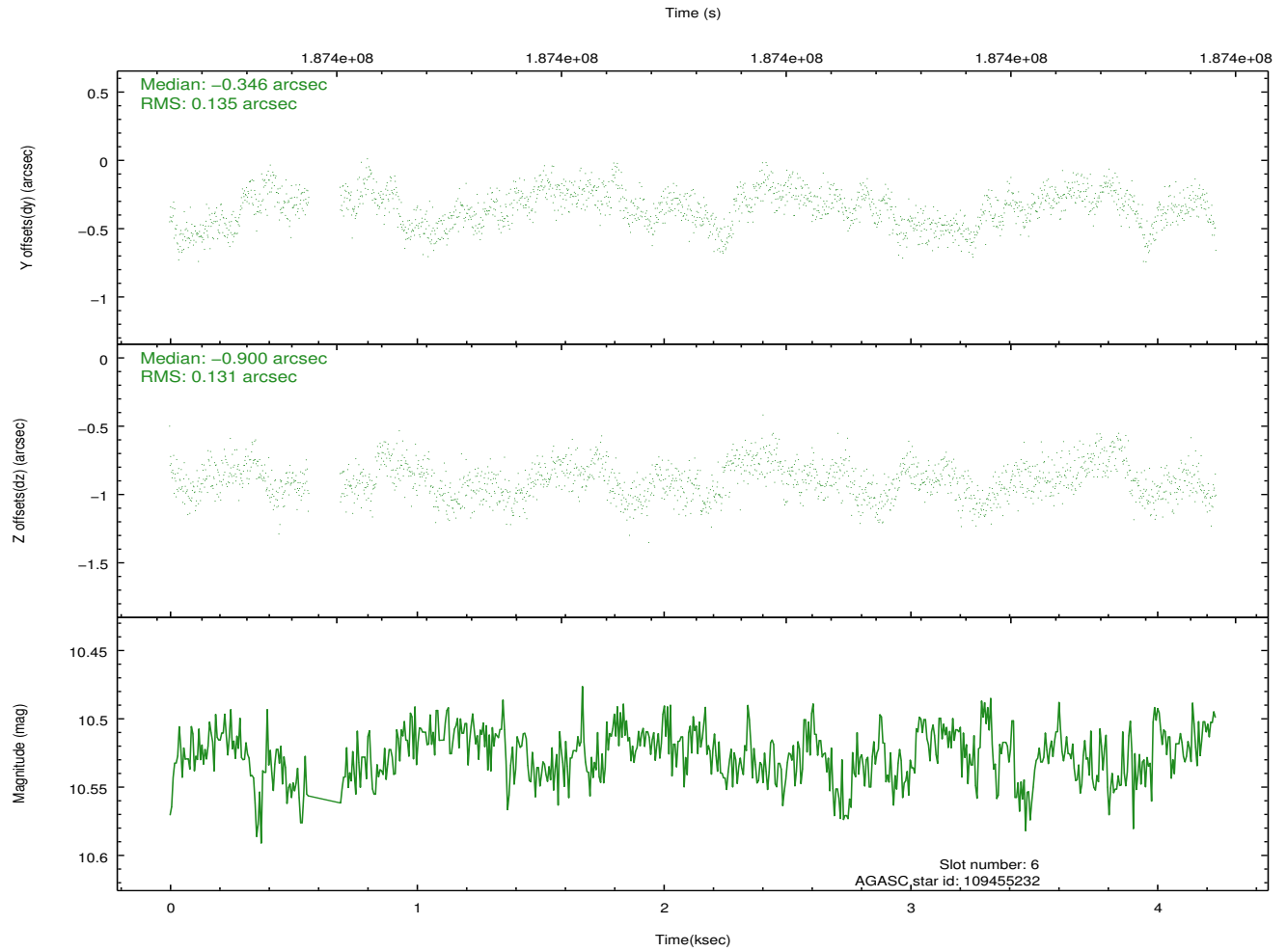
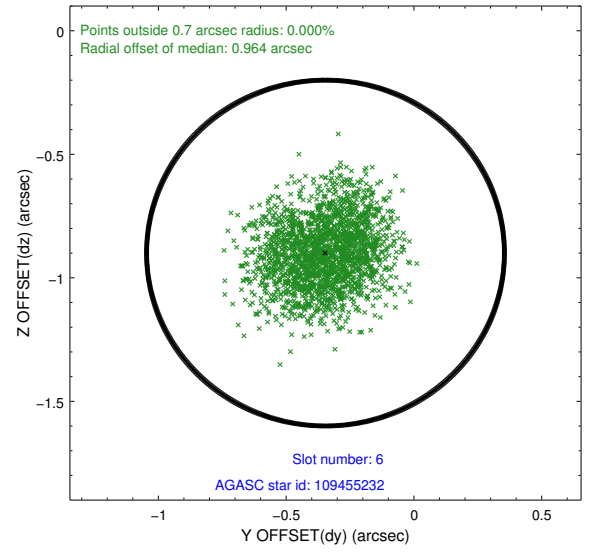
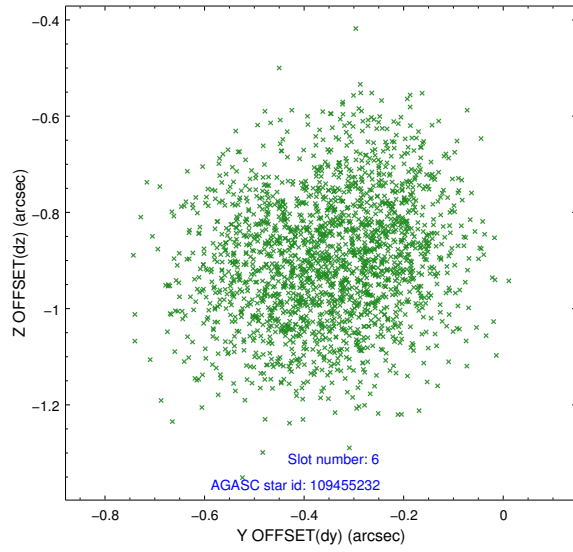
## 2.4.2 Slot 4



### 2.4.3 Slot 5

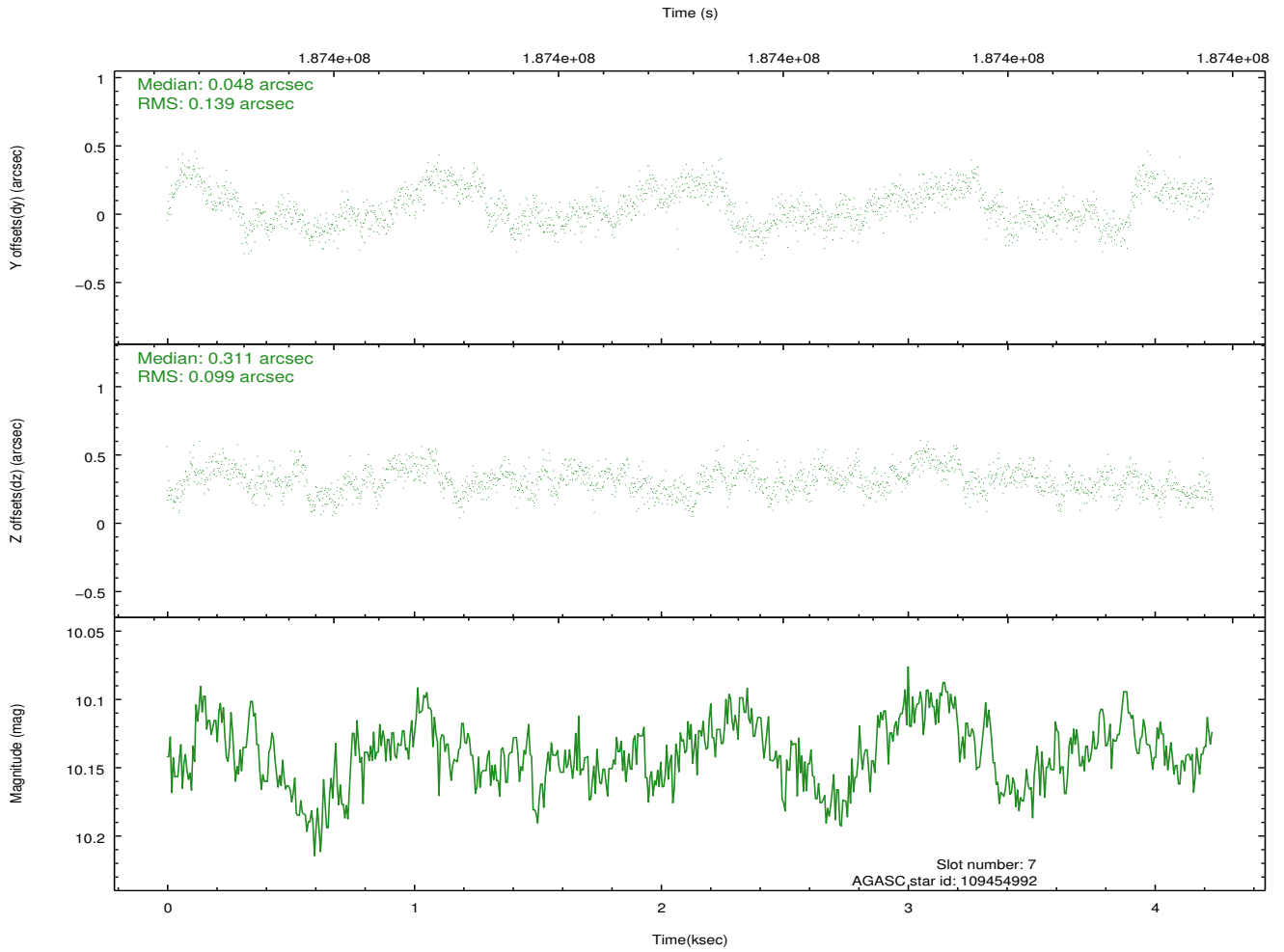
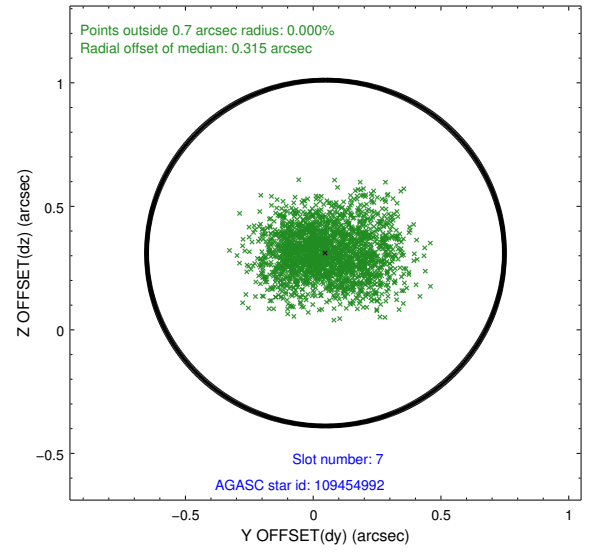
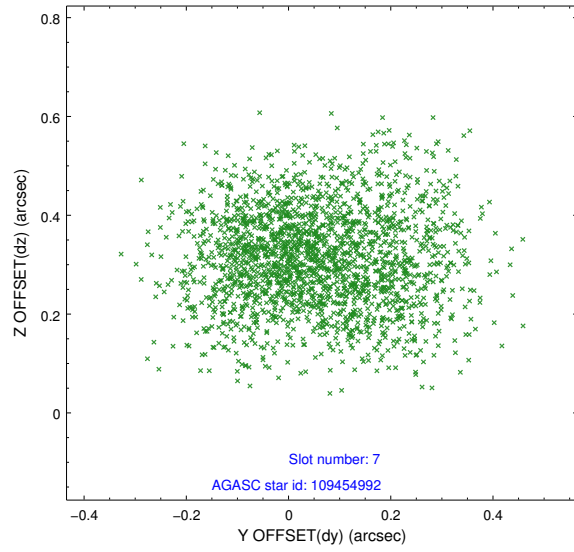


## 2.4.4 Slot 6



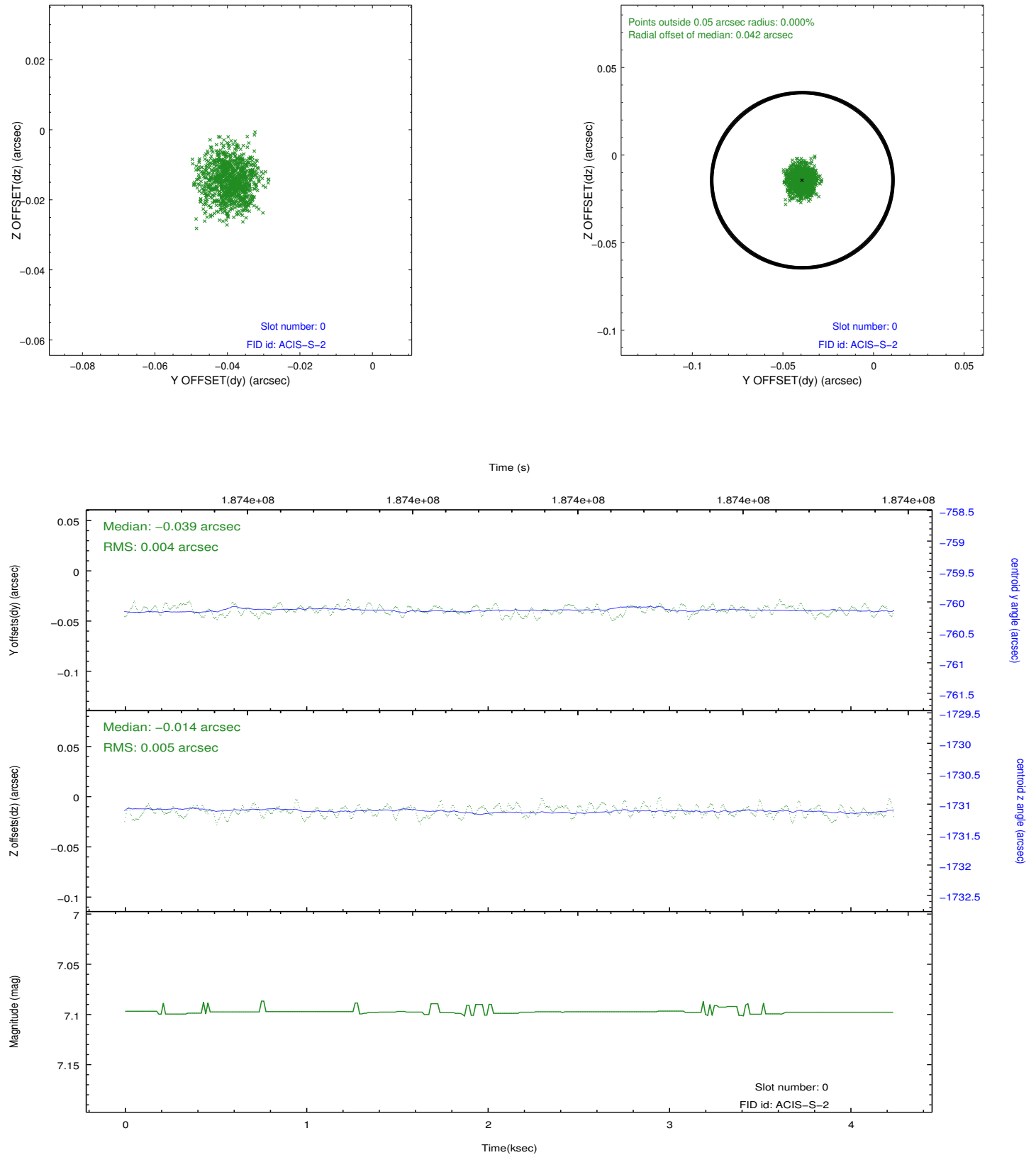


## 2.4.5 Slot 7

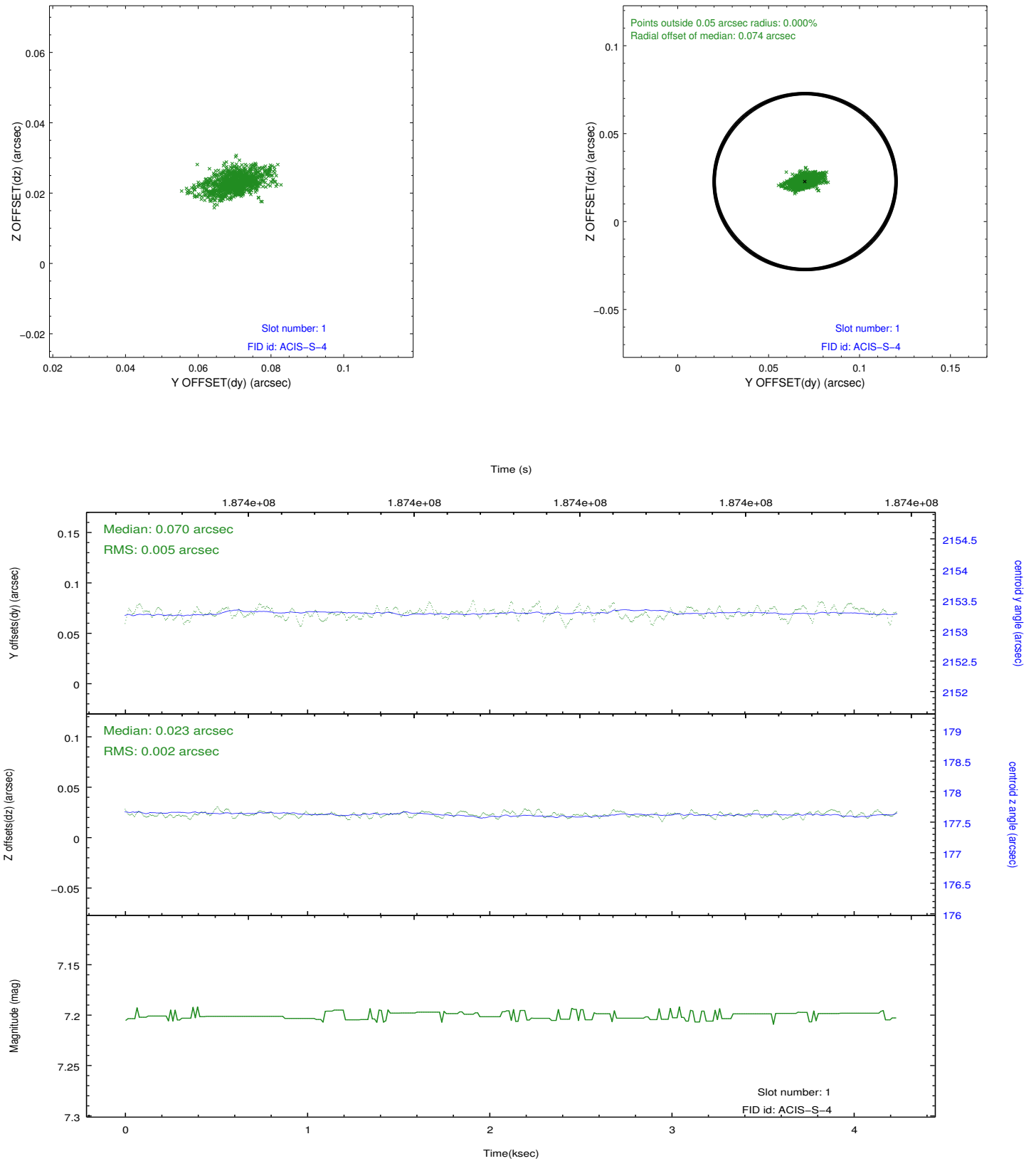


## 2.5 FID Slots

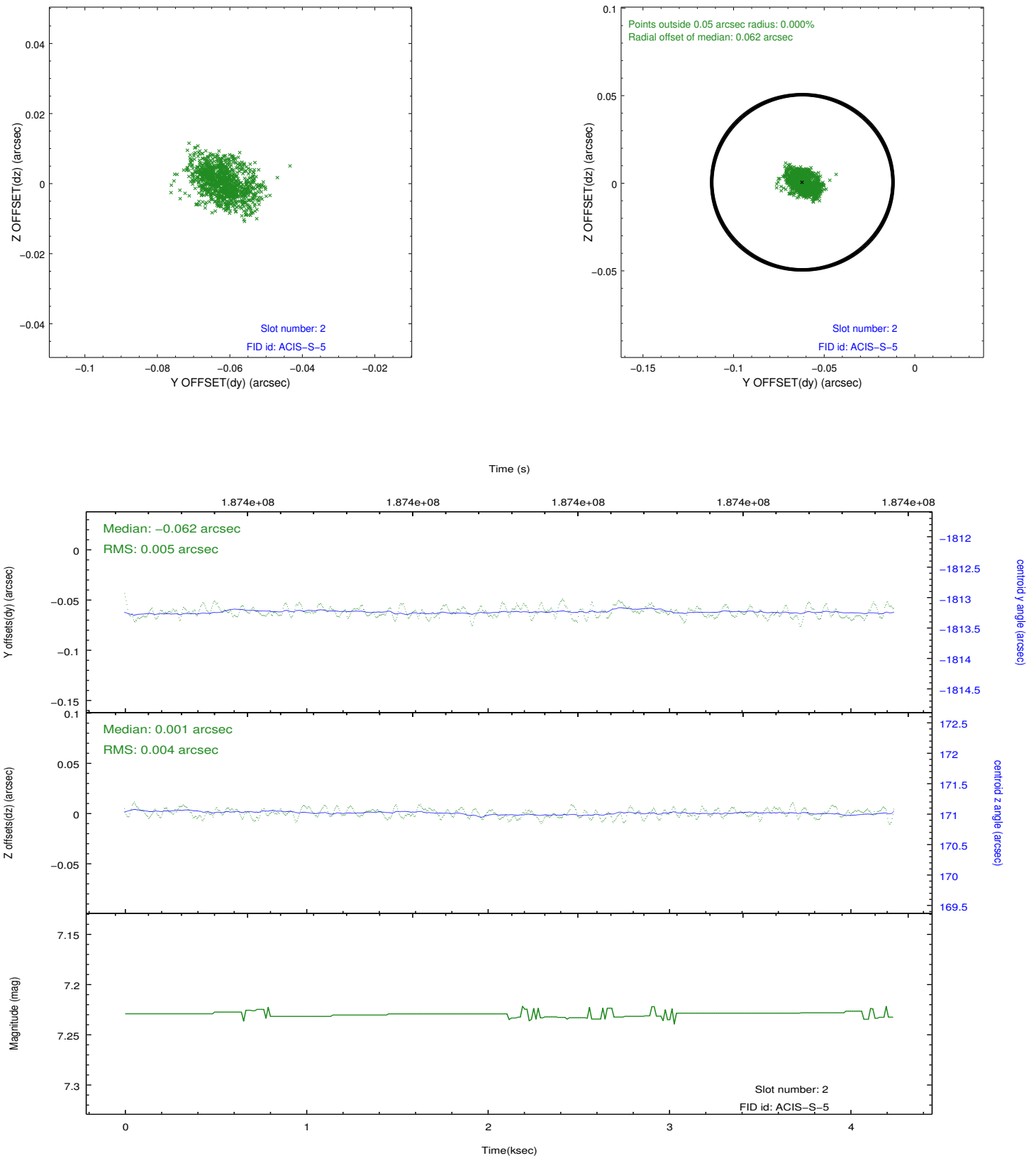
### 2.5.1 Slot 0



## 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)	2012.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.237

### A.2 Comments