

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11477 - L2 Version 2  
Chandra X-Ray Center

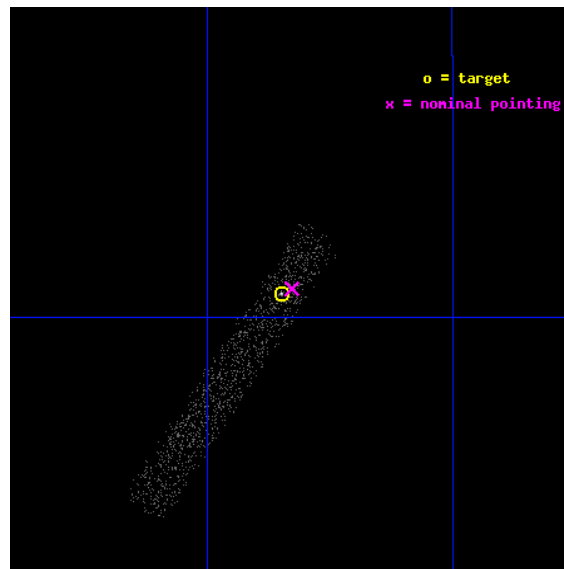
L2 Processing Date : Jun 23 2012

## 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

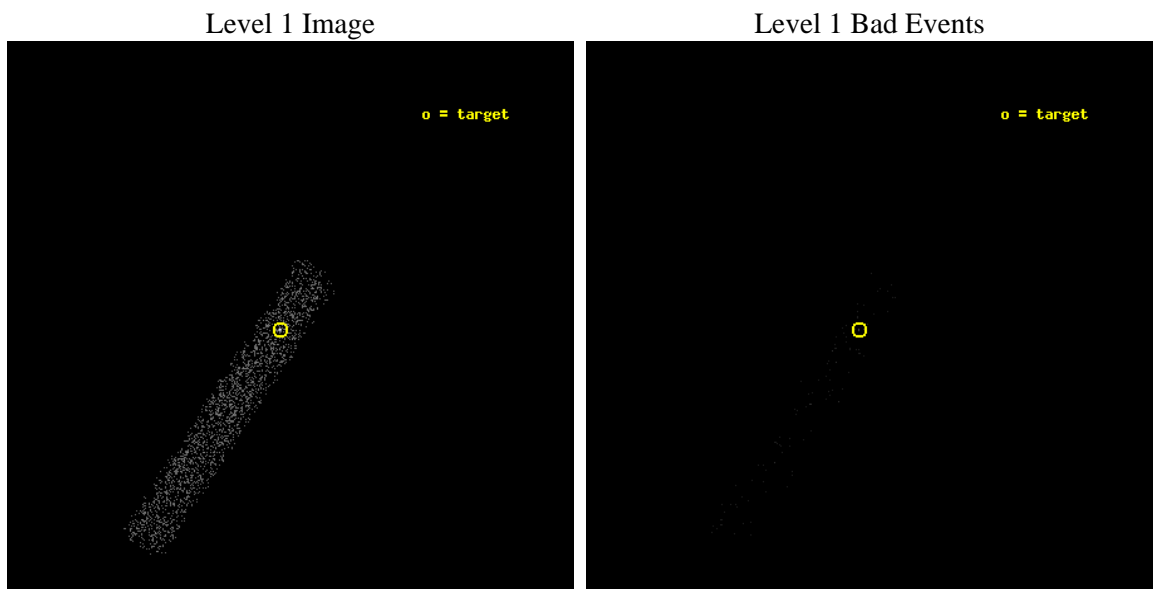
seq_num	702063	Sequence number
obs_id	11477	Observation id
title	X-ray Signatures of Accretion in AGNs with Intermediate-mass Black Holes	Proposal title
observer	Dr. Luis Ho	Principal investigator
object	SDSS J154150.85+310037.2	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	235.462083	Observer's specified target RA [deg]
dec_targ	31.010333	Observer's specified target Dec [deg]
ra_nom	235.45684129024	Nominal RA [deg]
dec_nom	31.012418665042	Nominal Dec [deg]
roll_nom	123.26655373342	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2126.3998732567	Sum of GTIs [s]
livetime	1928.5324444555	Livetime [s]
ontime7	2126.3998732567	Sum of GTIs [s]
l2events	1596	Number of level 2 events



## 2 OBI

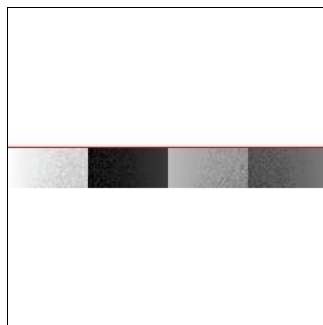
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2126.3998732567	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime7	2126.3998732567	Sum of GTIs [s]
date	2012-06-23T18:20:13	Date and time of file creation	l1events	4632	Number of level 1 events
revision	2	Processing version of data			

### 2.1.4 Events

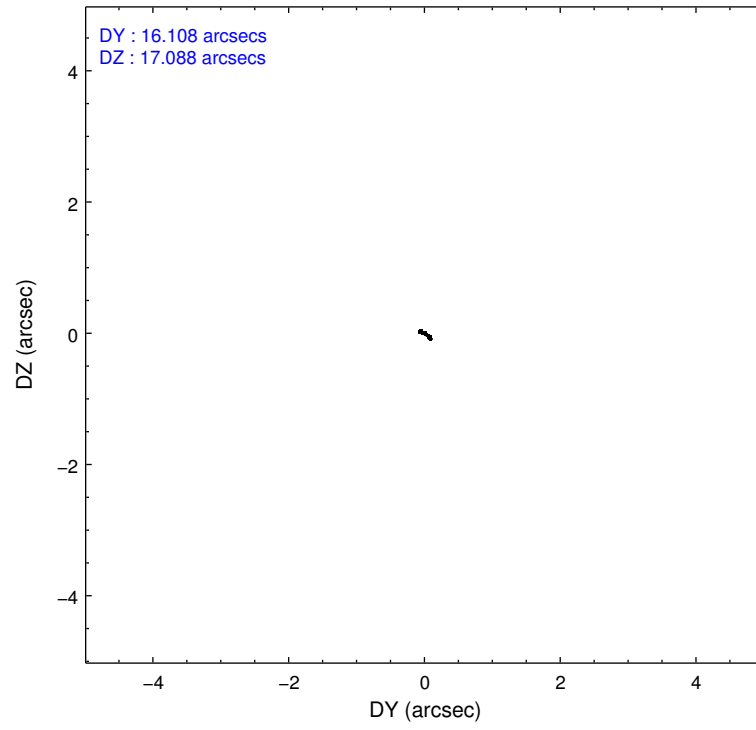
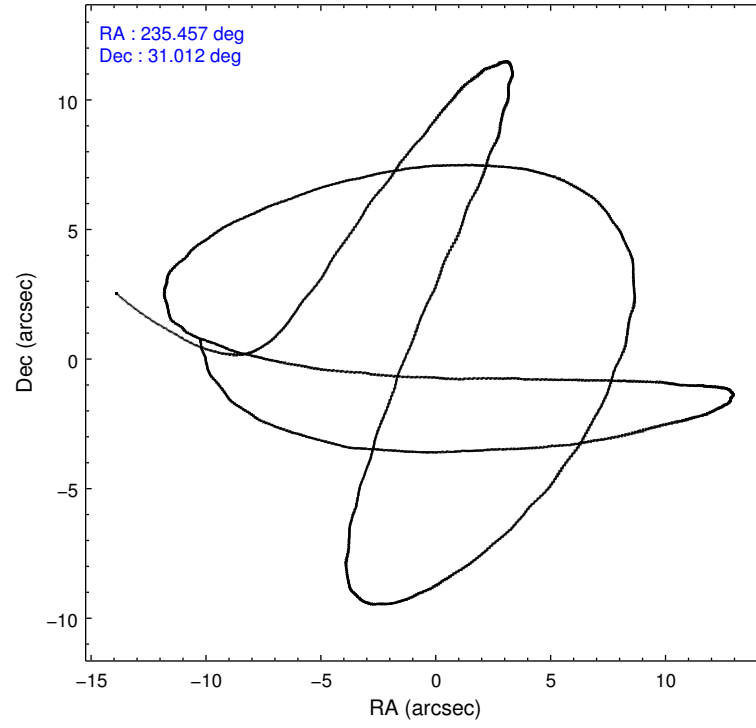
	<b>ccd 7</b>
level 1 events	4632
rejected events	2972
rejected %	64%

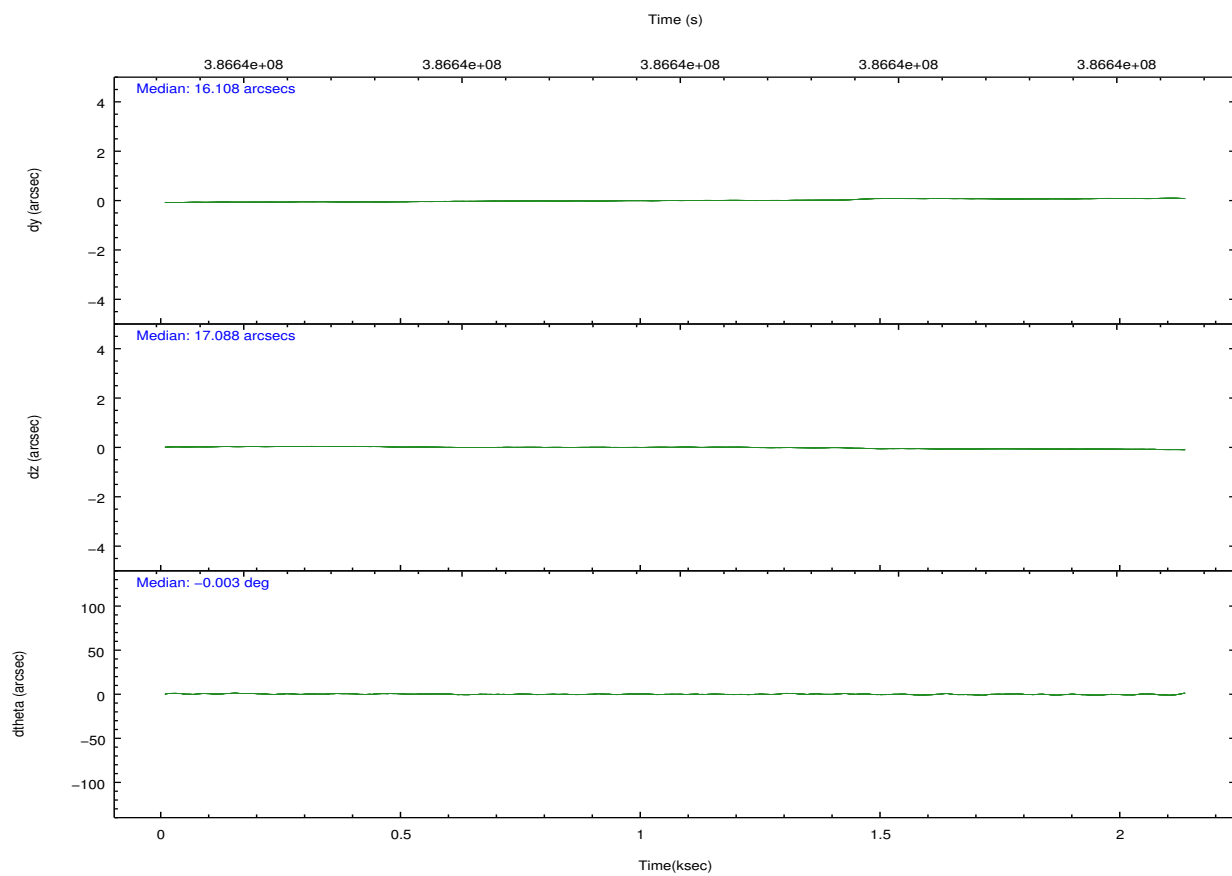
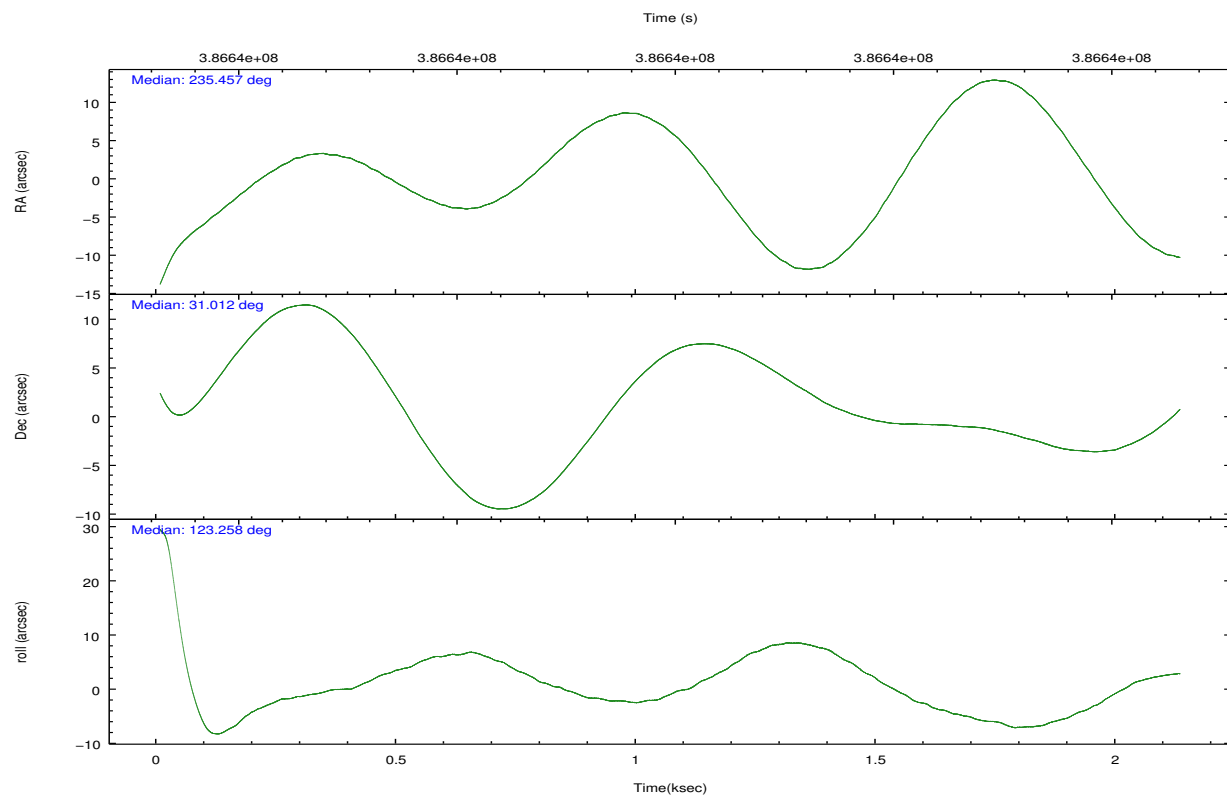
	<b>ccd 7</b>
grade 0 events	363
	7%
grade 1 events	8
	0%
grade 2 events	525
	11%
grade 3 events	340
	7%
grade 4 events	329
	7%
grade 5 events	447
	9%
grade 6 events	1022
	22%
grade 7 events	1598
	34%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
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
[deg] Pointing RA	235.485637	235.4568412902376	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	31.000412	31.01241866504163	Subarray start row	449	449
[deg] Pointing Roll	123.094844	123.2665537334233	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	386640551.184000	386639029.10203			
Observation start date	2010-04-03T00:08:05	2010-04-02T23:43:49			
[s] Observation end time (MET)	386642551.184000	386643189.06474			
Observation end date	2010-04-03T00:41:25	2010-04-03T00:53:09			
Read mode	TIMED	TIMED			

## 2.3 Aspect





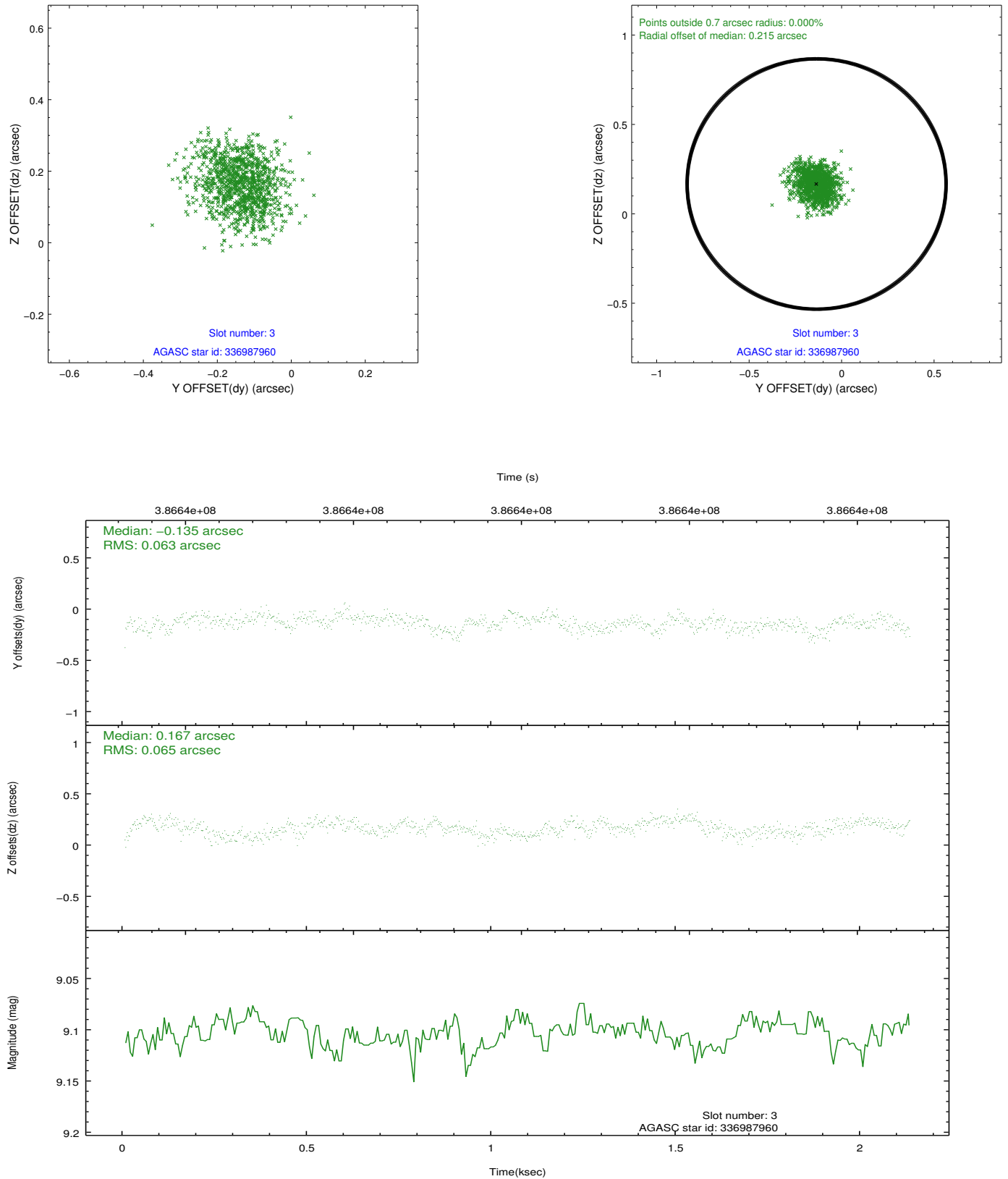
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.88	519	-0.070	-0.029	0.006	0.010	0.000000	0.000000	-769.22	-1738.47
1	FID	ACIS-S-4	6.97	519	0.160	0.042	0.005	0.010	0.000000	0.000000	2142.91	166.84
2	FID	ACIS-S-5	7.00	519	-0.121	-0.004	0.005	0.009	0.000000	0.000000	-1818.15	164.03
3	GUIDE	336987960	9.10	1039	-0.135	0.167	0.097	0.156	235.757612	31.649253	1502.77	-1973.68
4	GUIDE	336989696	7.44	1038	-0.136	0.031	0.070	0.112	235.809830	31.384583	615.88	-1591.97
5	GUIDE	336990304	9.46	1039	0.131	-0.109	0.101	0.165	235.565035	30.521208	-1579.62	734.52
6	GUIDE	336991880	9.51	1036	0.049	0.061	0.119	0.187	235.813818	30.862090	-971.54	-577.71
7	GUIDE	336992880	8.75	1038	0.095	-0.140	0.067	0.111	235.562220	30.470564	-1728.49	841.73

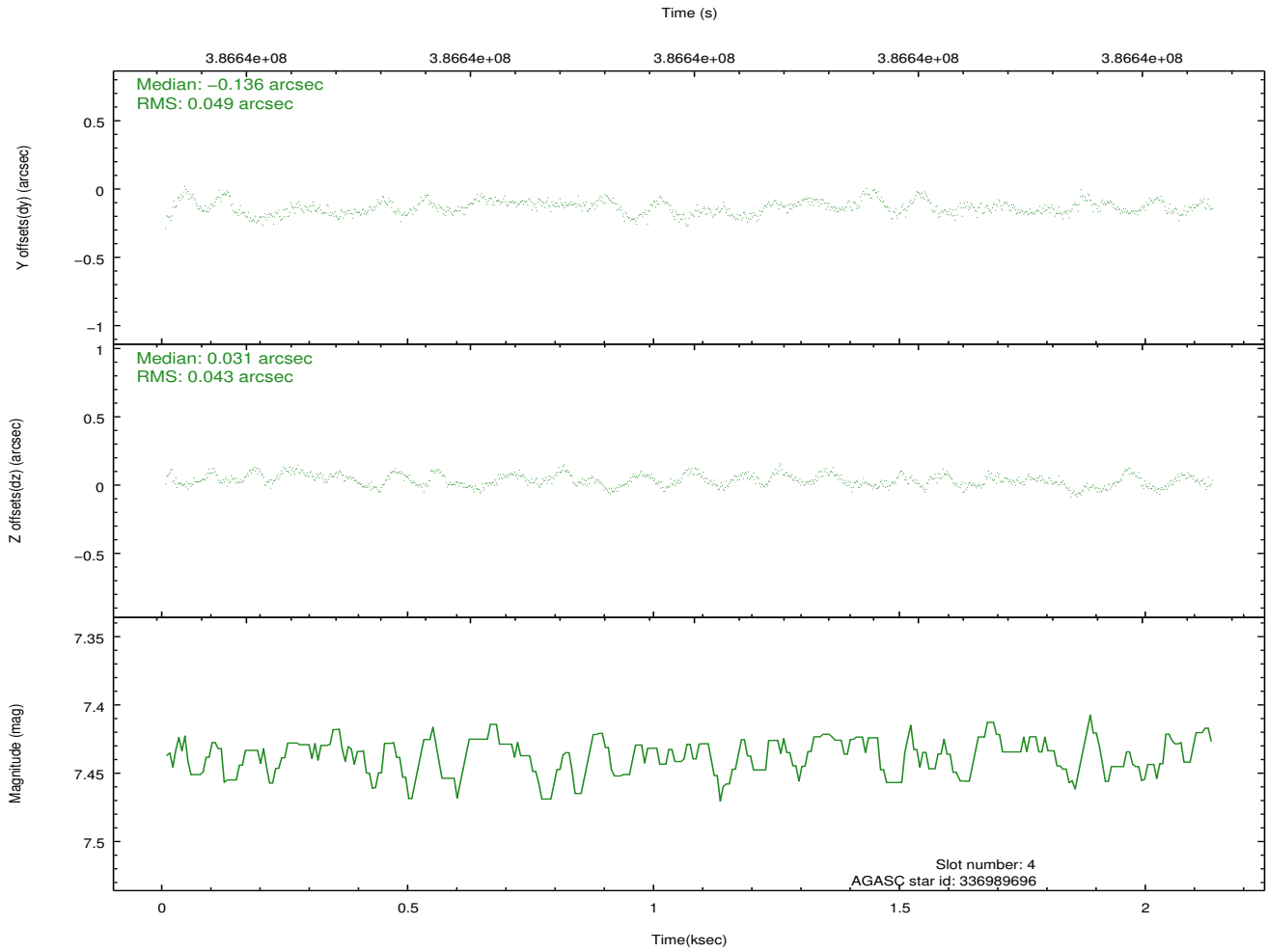
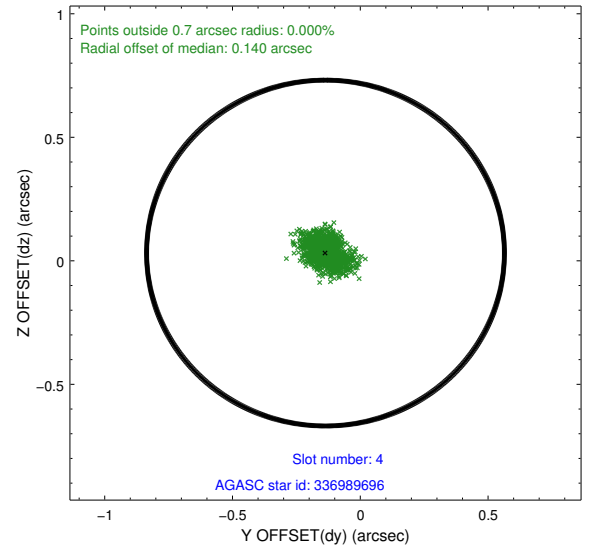
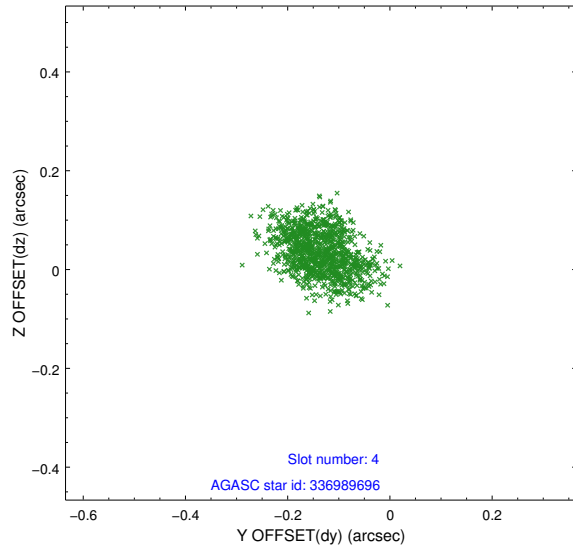


## 2.4 Star Slots

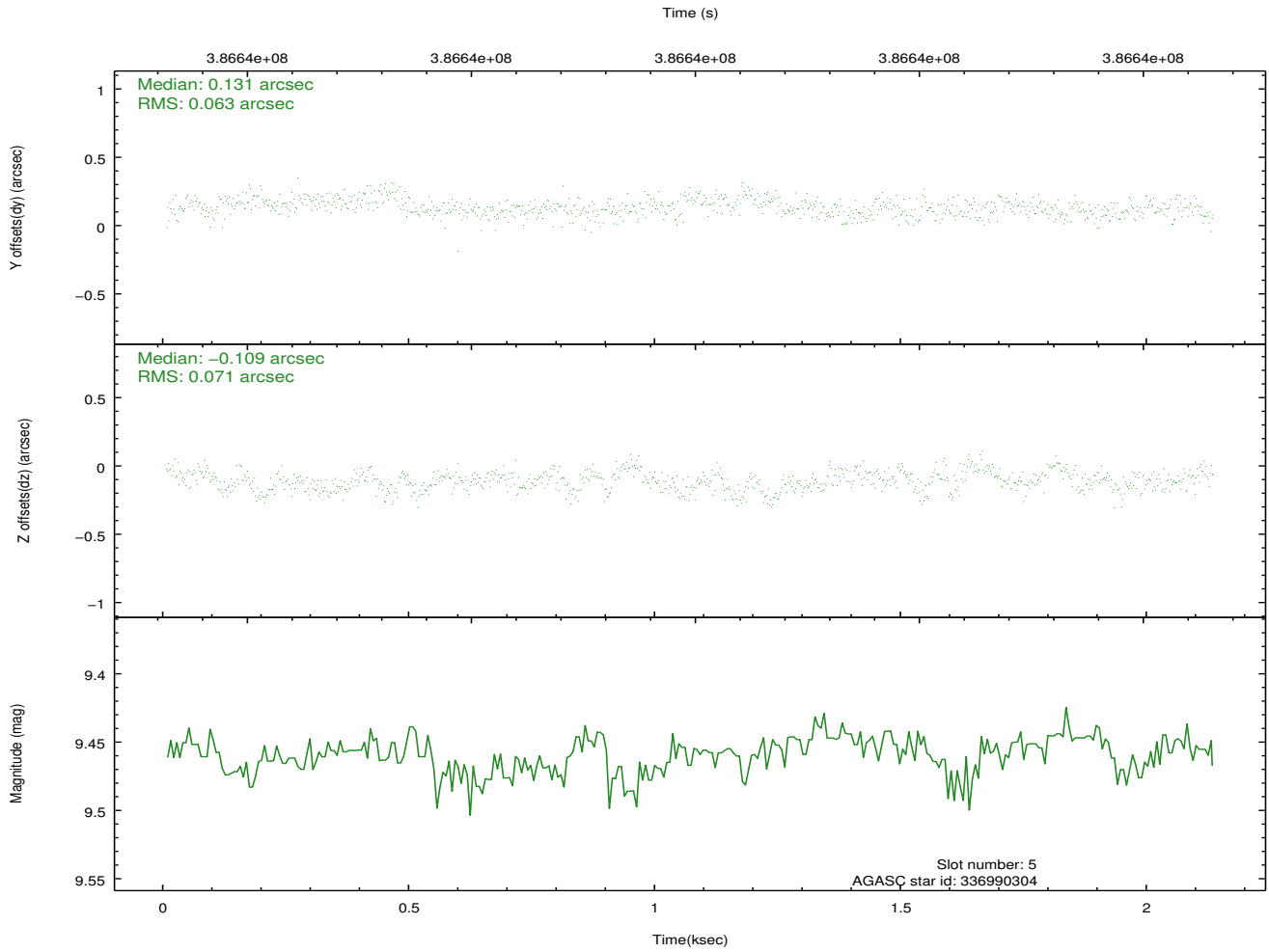
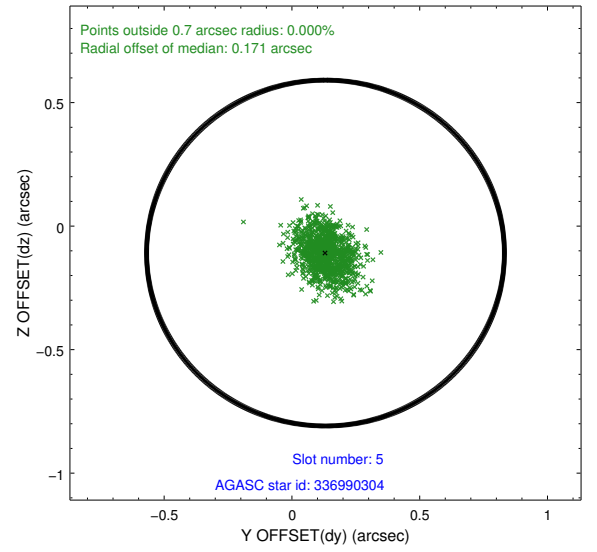
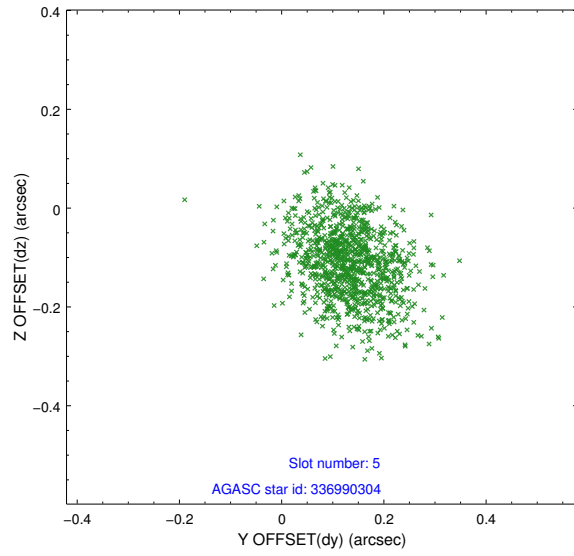
### 2.4.1 Slot 3



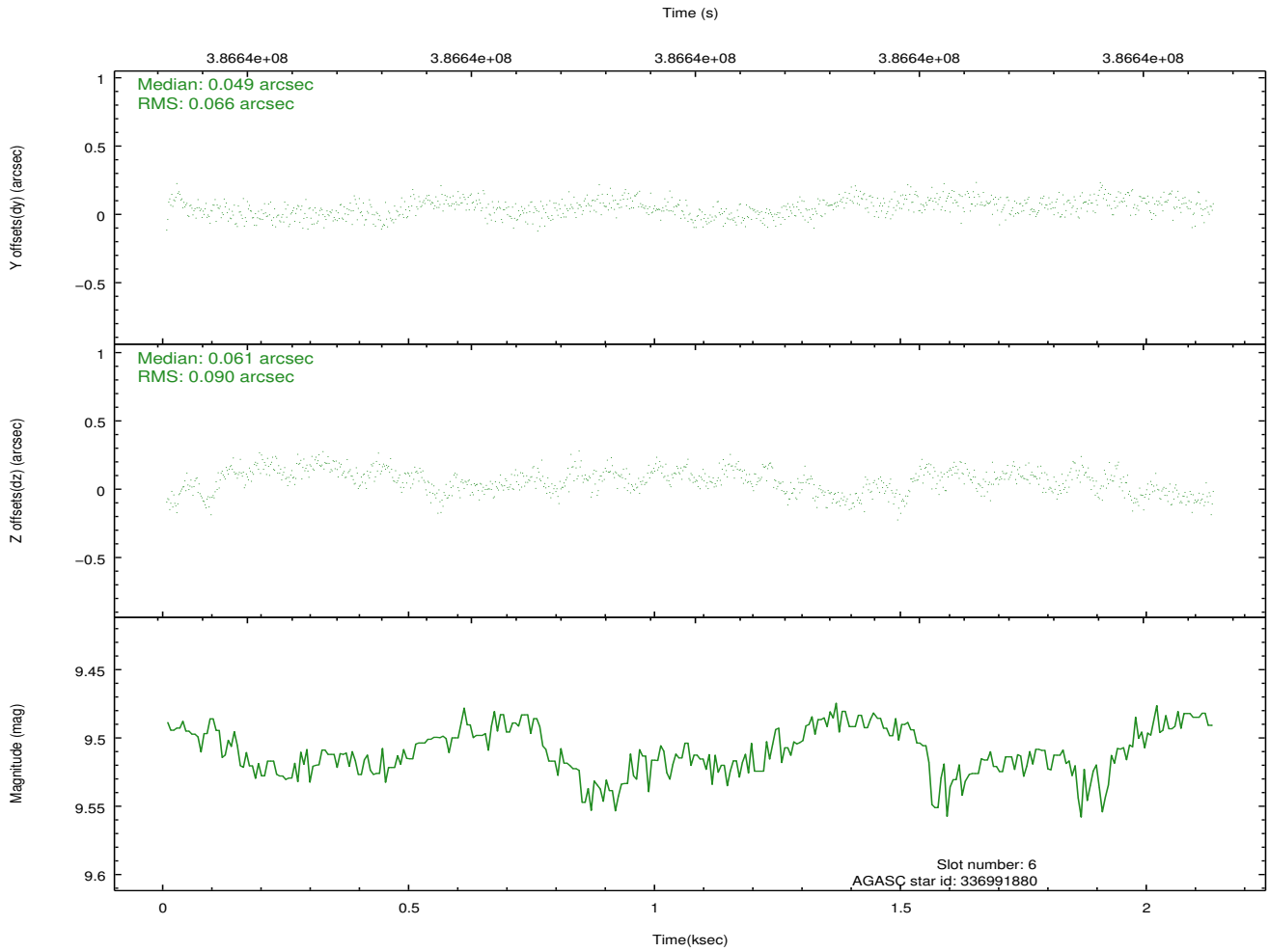
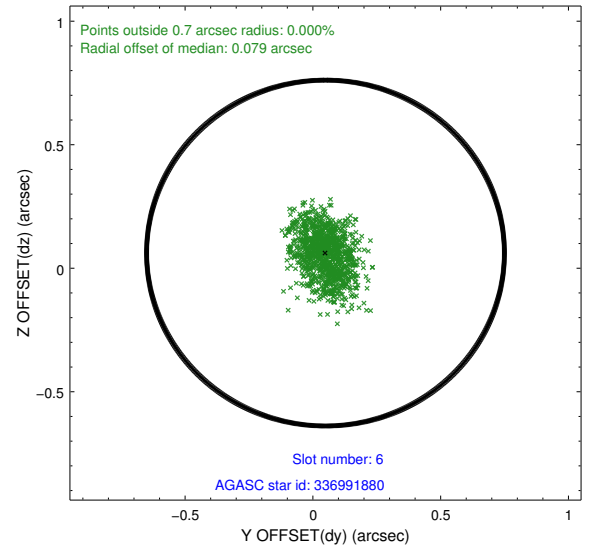
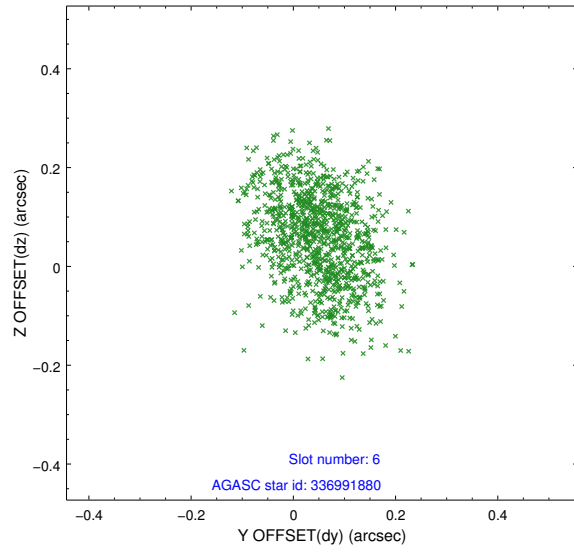
## 2.4.2 Slot 4



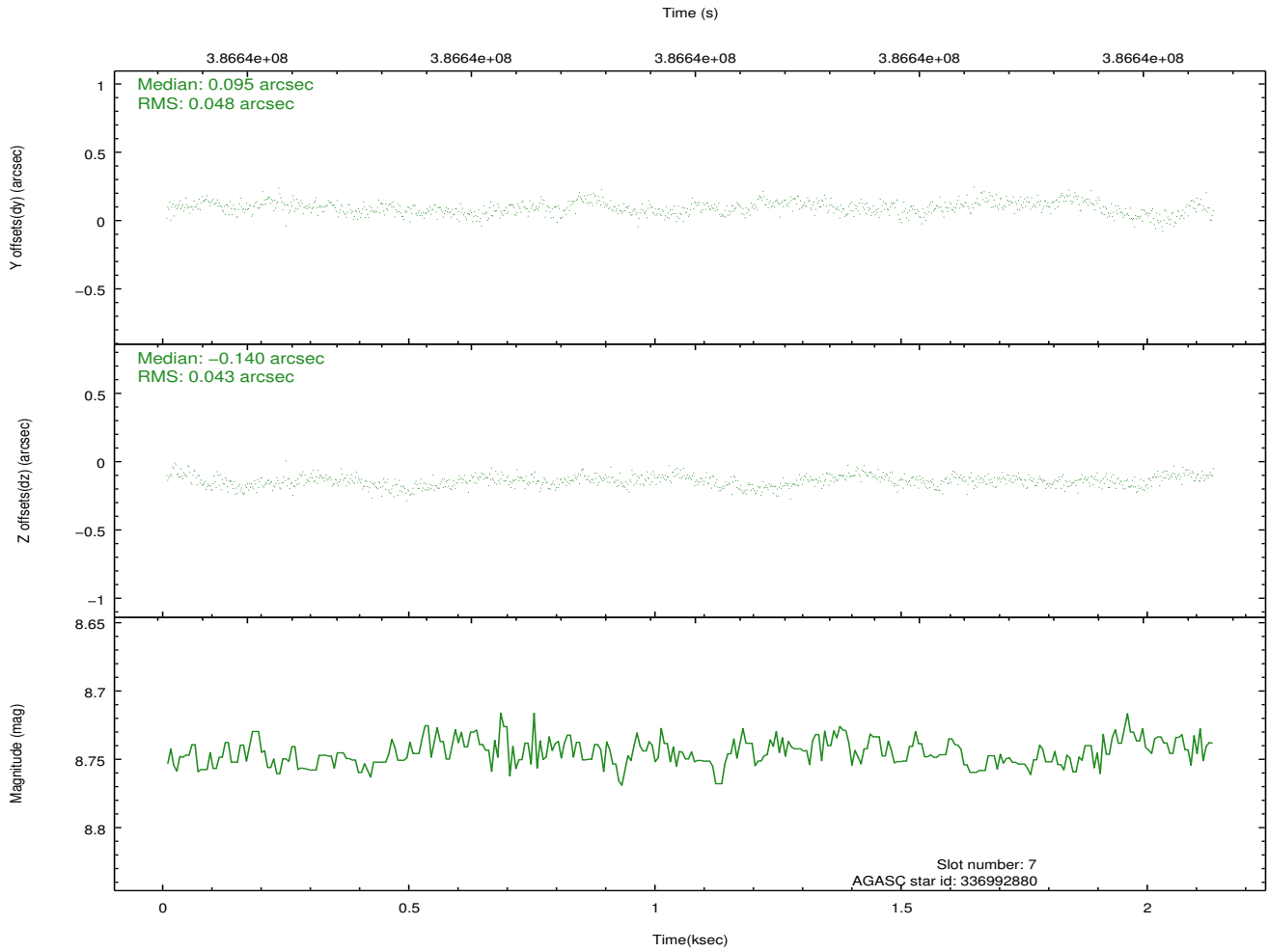
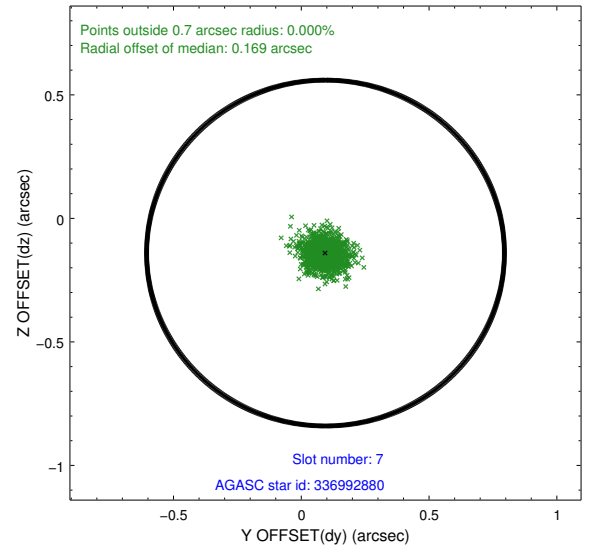
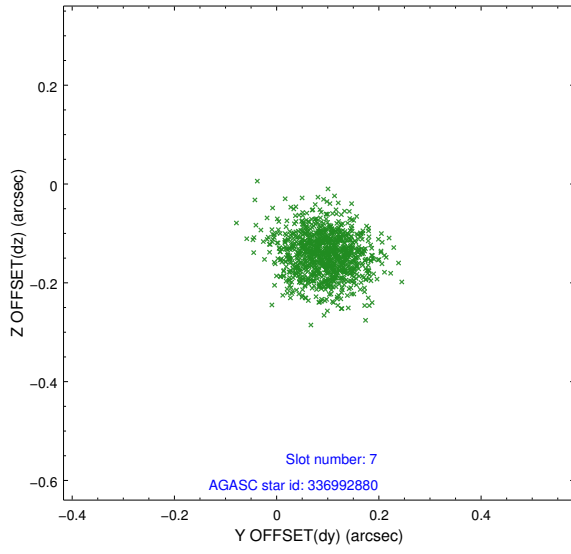
### 2.4.3 Slot 5



## 2.4.4 Slot 6

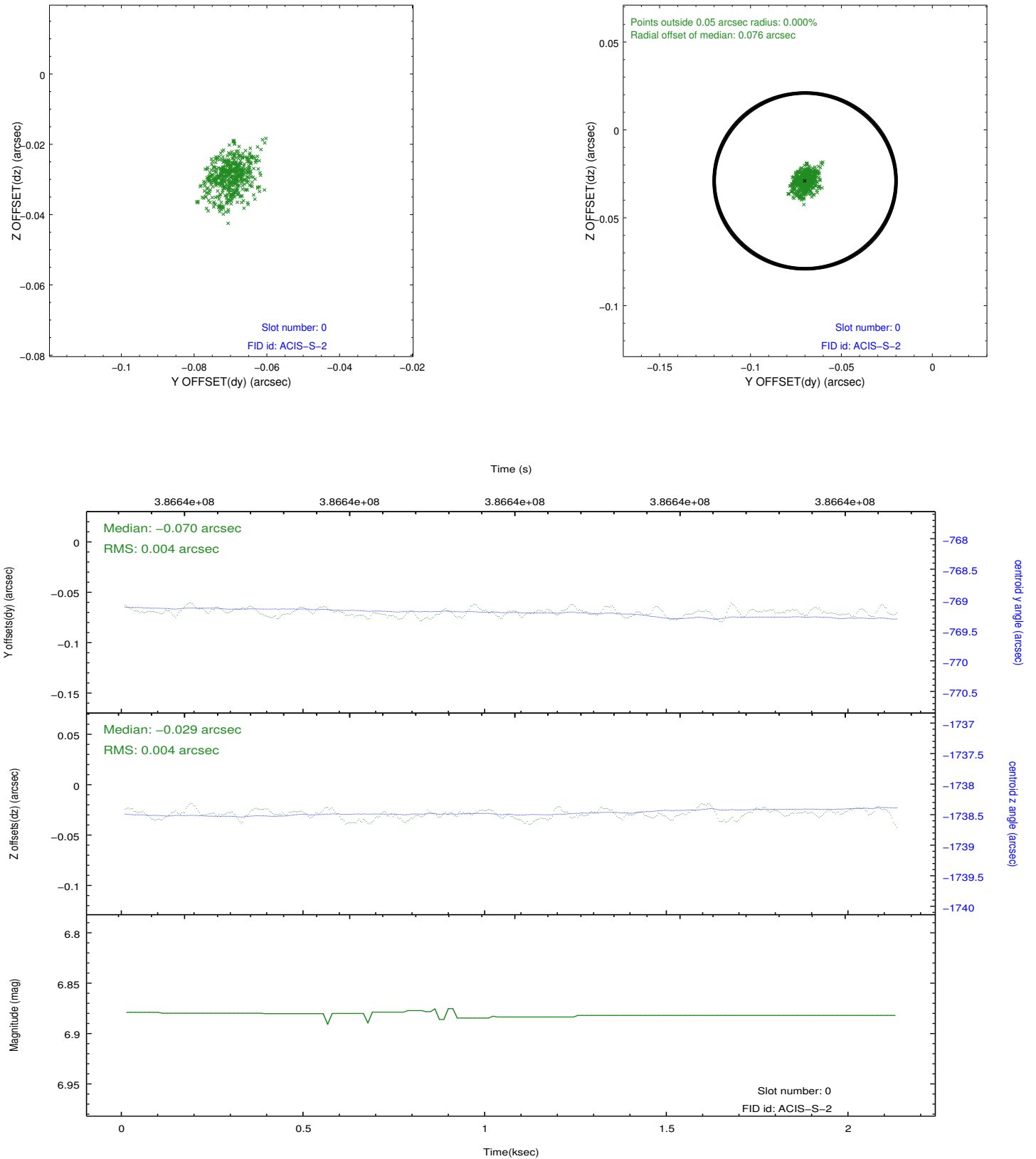


## 2.4.5 Slot 7

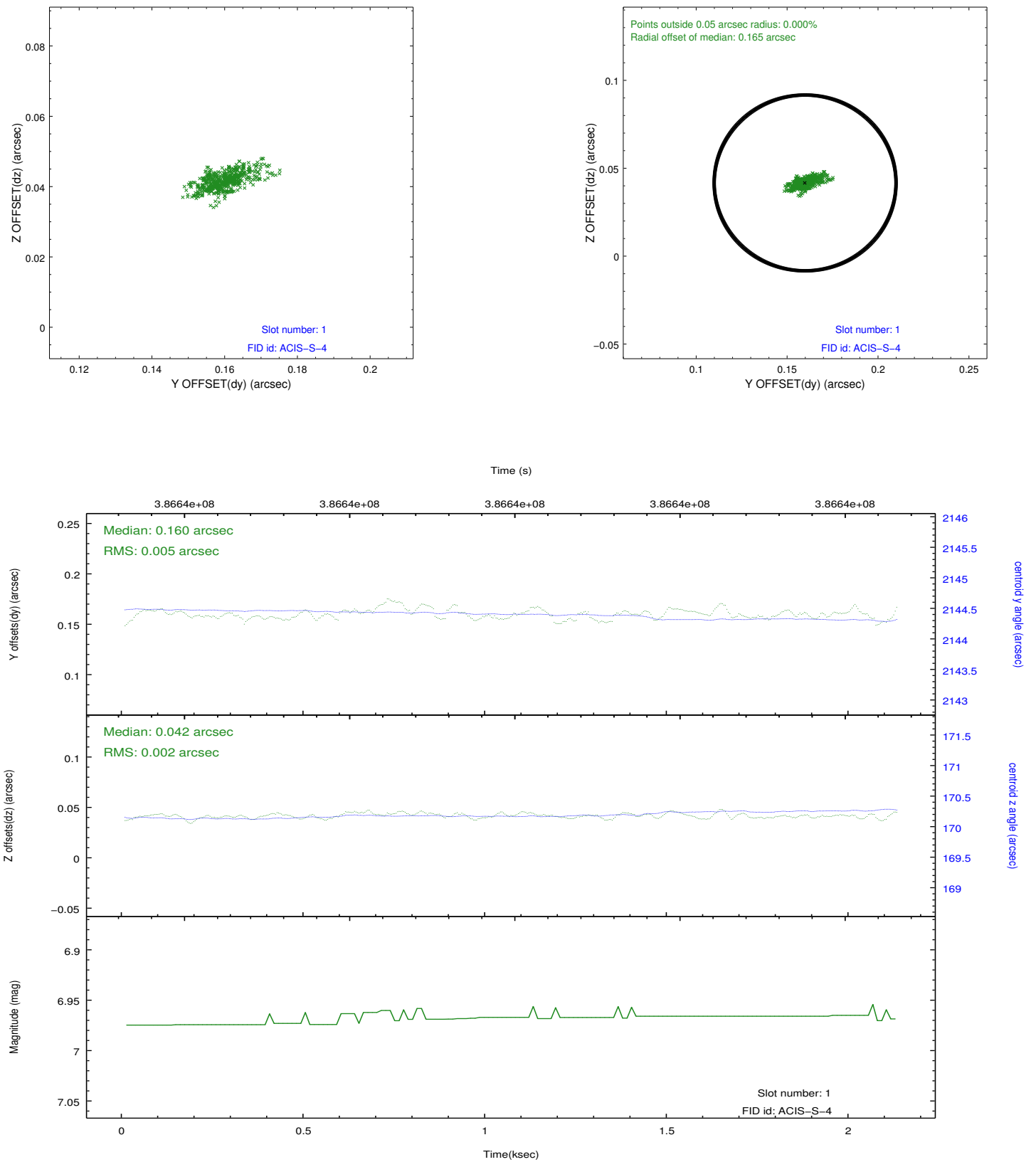


## 2.5 FID Slots

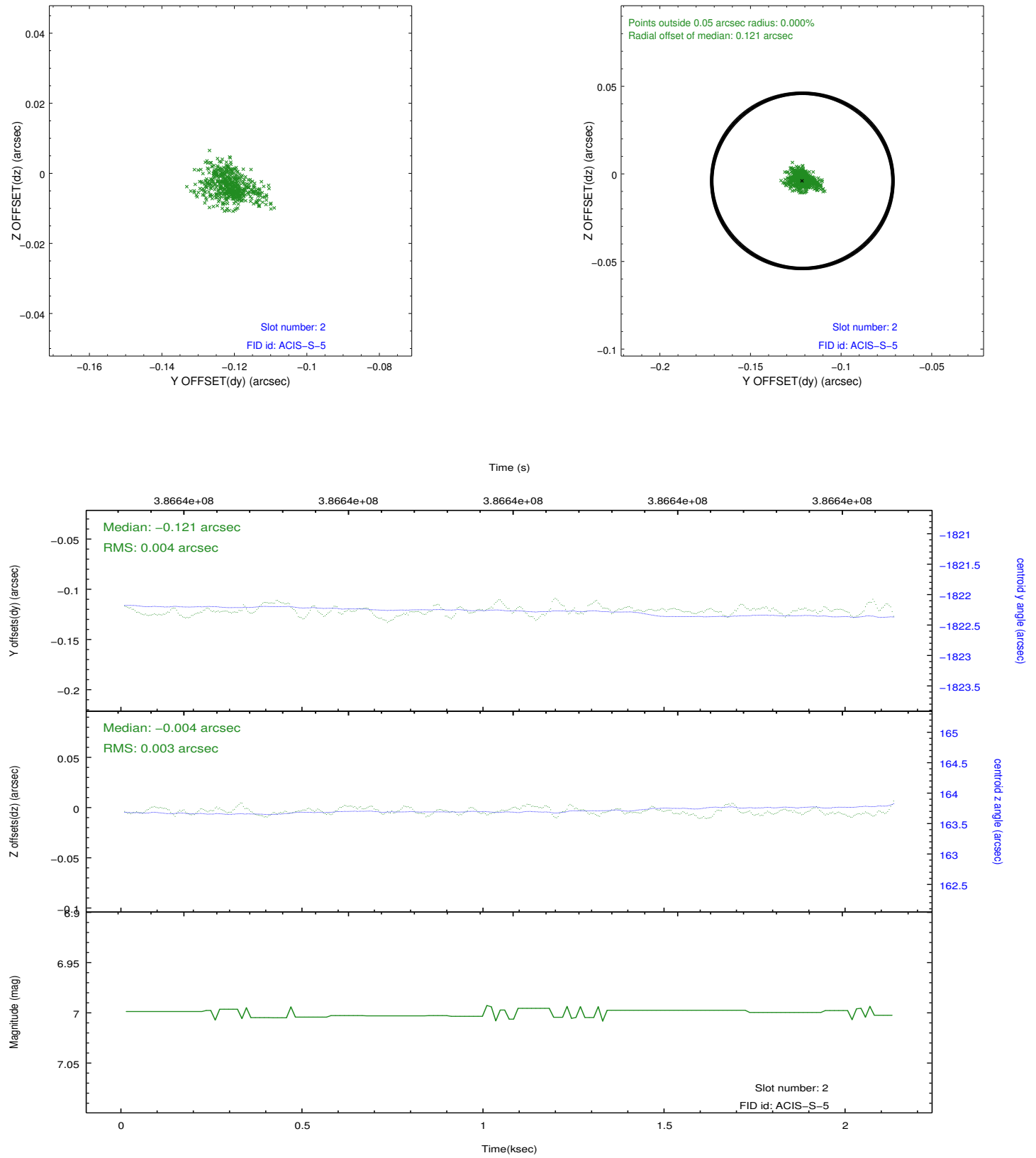
### 2.5.1 Slot 0



## 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	2.1263998732567

### A.2 Comments