

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2162 - L2 Version 3  
Chandra X-Ray Center

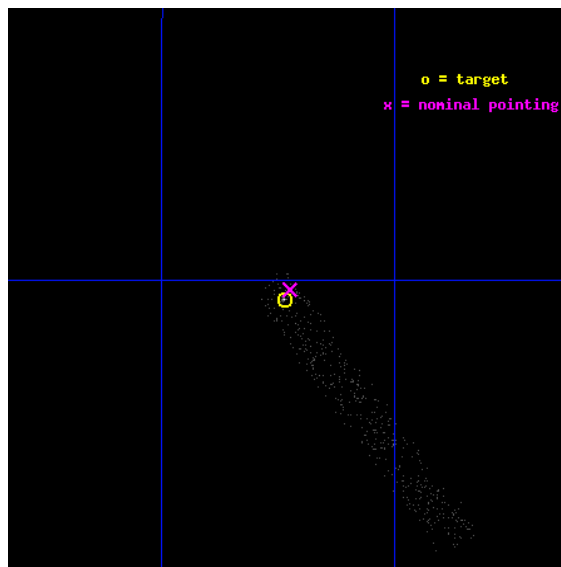
L2 Processing Date : Sep 16 2012

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# 1 Front

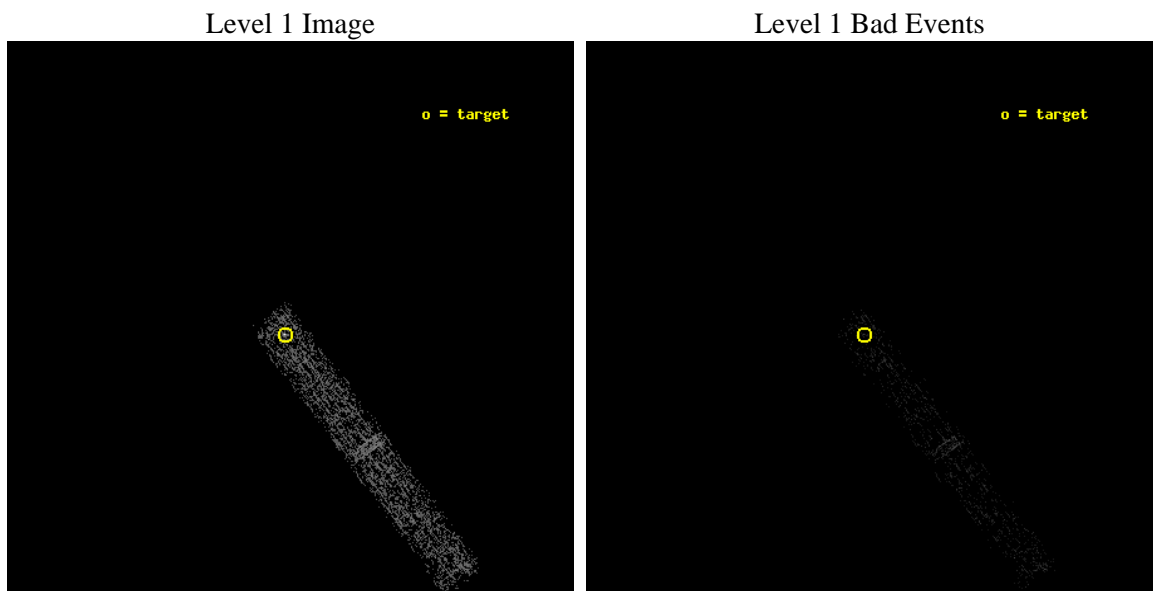
seq_num	700352	Sequence number
obs_id	2162	Observation id
title	RED QUASARS AND THE X-RAY BACKGROUND	Proposal title
observer	Dr. Belinda Wilkes	Principal investigator
object	2MASSJ105144+3539	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	162.934167	Observer's specified target RA [deg]
dec_targ	35.658528	Observer's specified target Dec [deg]
ra_nom	162.93136245974	Nominal RA [deg]
dec_nom	35.662580564095	Nominal Dec [deg]
roll_nom	143.68747121227	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4447.5	Sum of GTIs [s]
livetime	4110.1397308887	Livetime [s]
ontime3	4447.5	Sum of GTIs [s]
l2events	934	Number of level 2 events



## 2 OBI

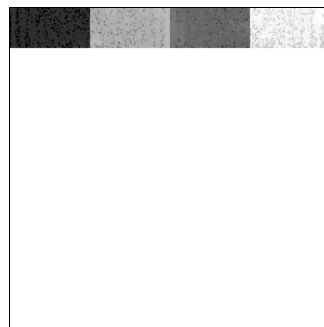
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 3



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4351.126000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4447.5	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime3	4447.5	Sum of GTIs [s]
date	2012-09-16T04:23:37	Date and time of file creation	l1events	6961	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

	<b>ccd 3</b>
level 1 events	6961
rejected events	5905
rejected %	84%

	<b>ccd 3</b>
grade 0 events	610
	8%
grade 1 events	0
	0%
grade 2 events	146
	2%
grade 3 events	148
	2%
grade 4 events	119
	1%
grade 5 events	136
	1%
grade 6 events	115
	1%
grade 7 events	5687
	81%

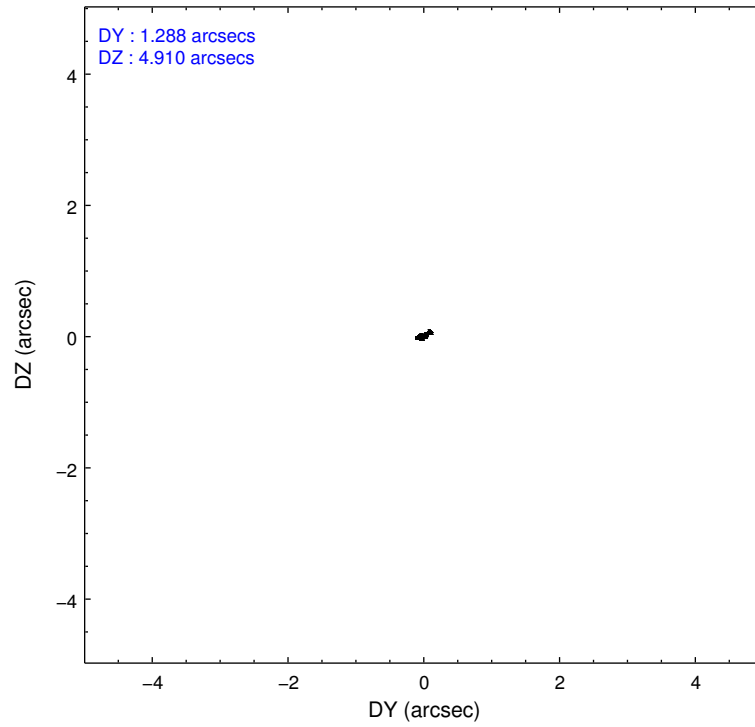
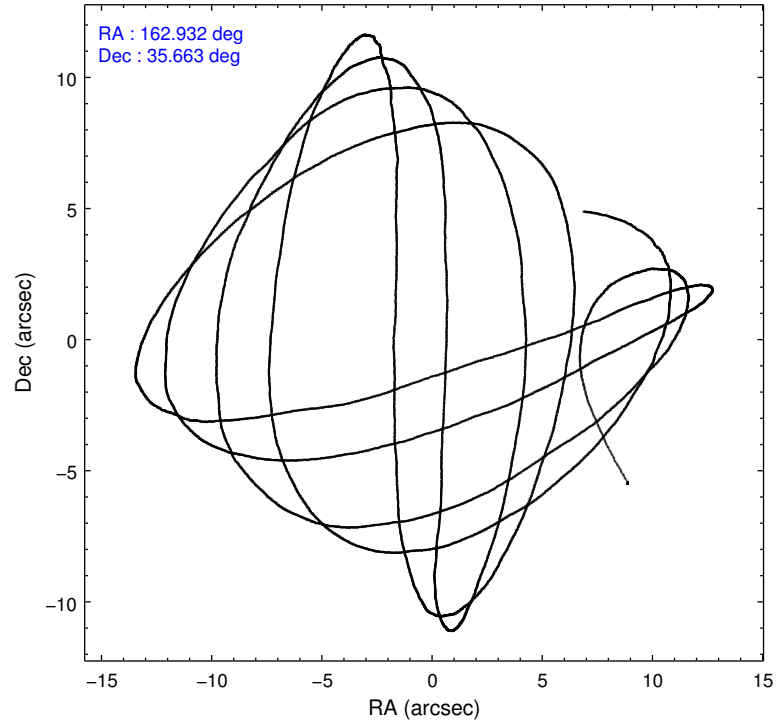


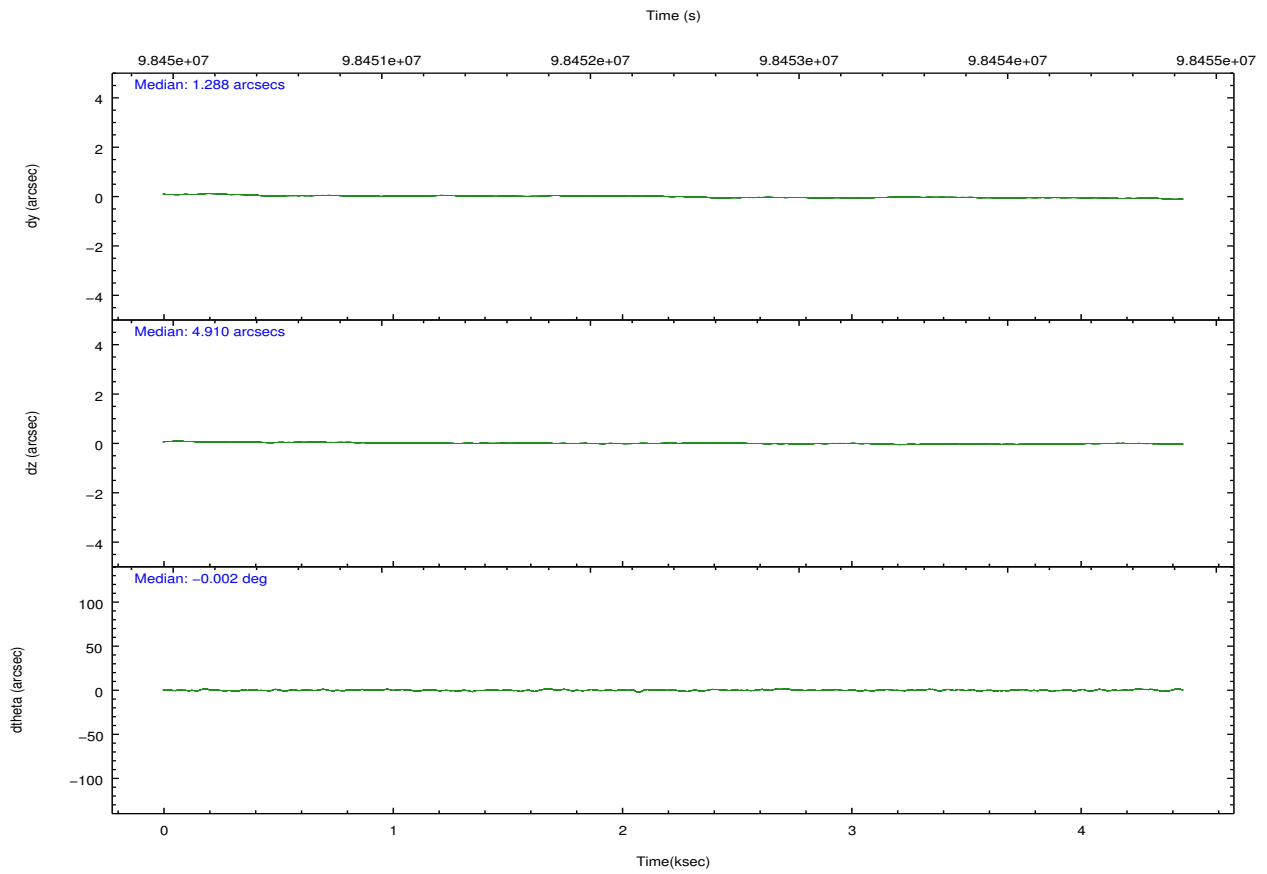
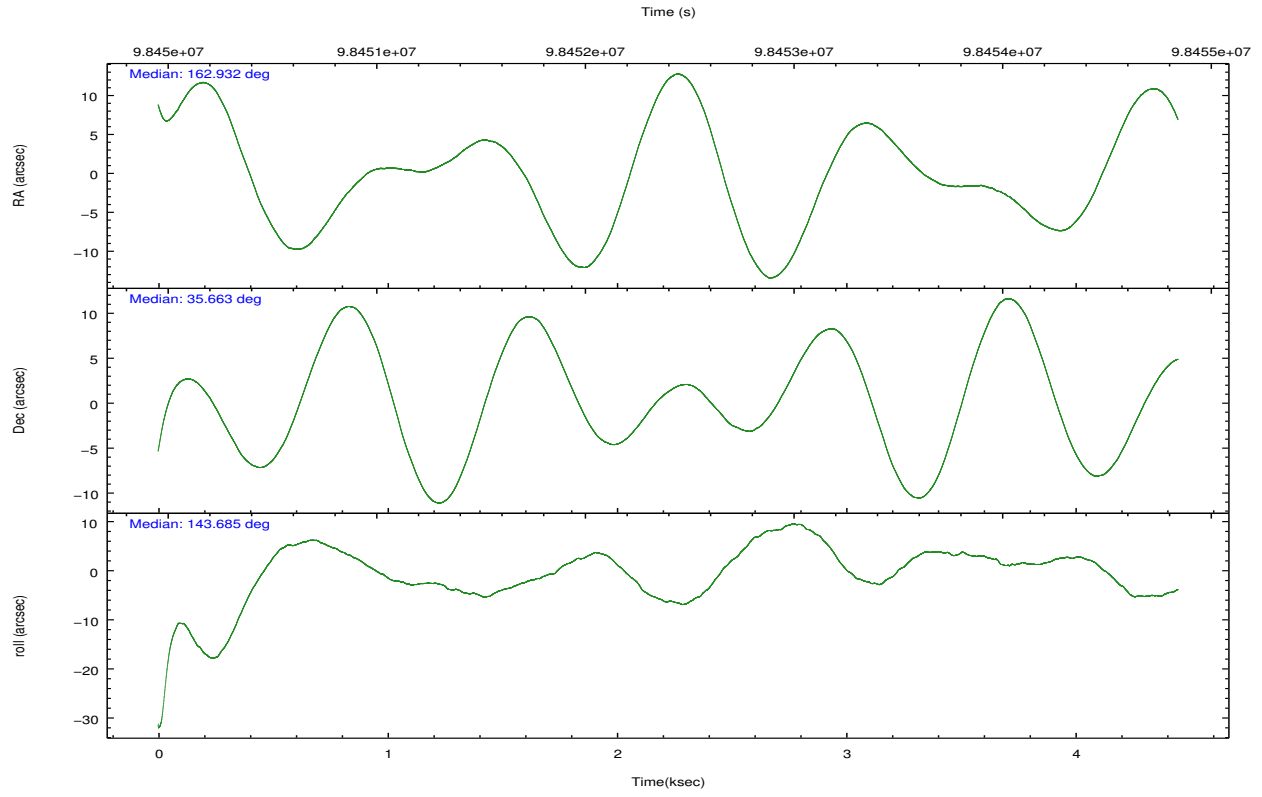
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-3	ACIS-3
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	162.964771	162.9313624597364
[deg] Pointing Dec	35.659607	35.66258056409532
[deg] Pointing Roll	143.459363	143.6874712122719
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	98450270.184000	98449352.55812401
Observation start date	2001-02-13T11:16:46	2001-02-13T11:02:32
[s] Observation end time (MET)	98454621.184000	98454935.733339
Observation end date	2001-02-13T12:29:17	2001-02-13T12:35:35
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	897	897
Subarray row count	128	128
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	0.5

## 2.3 Aspect



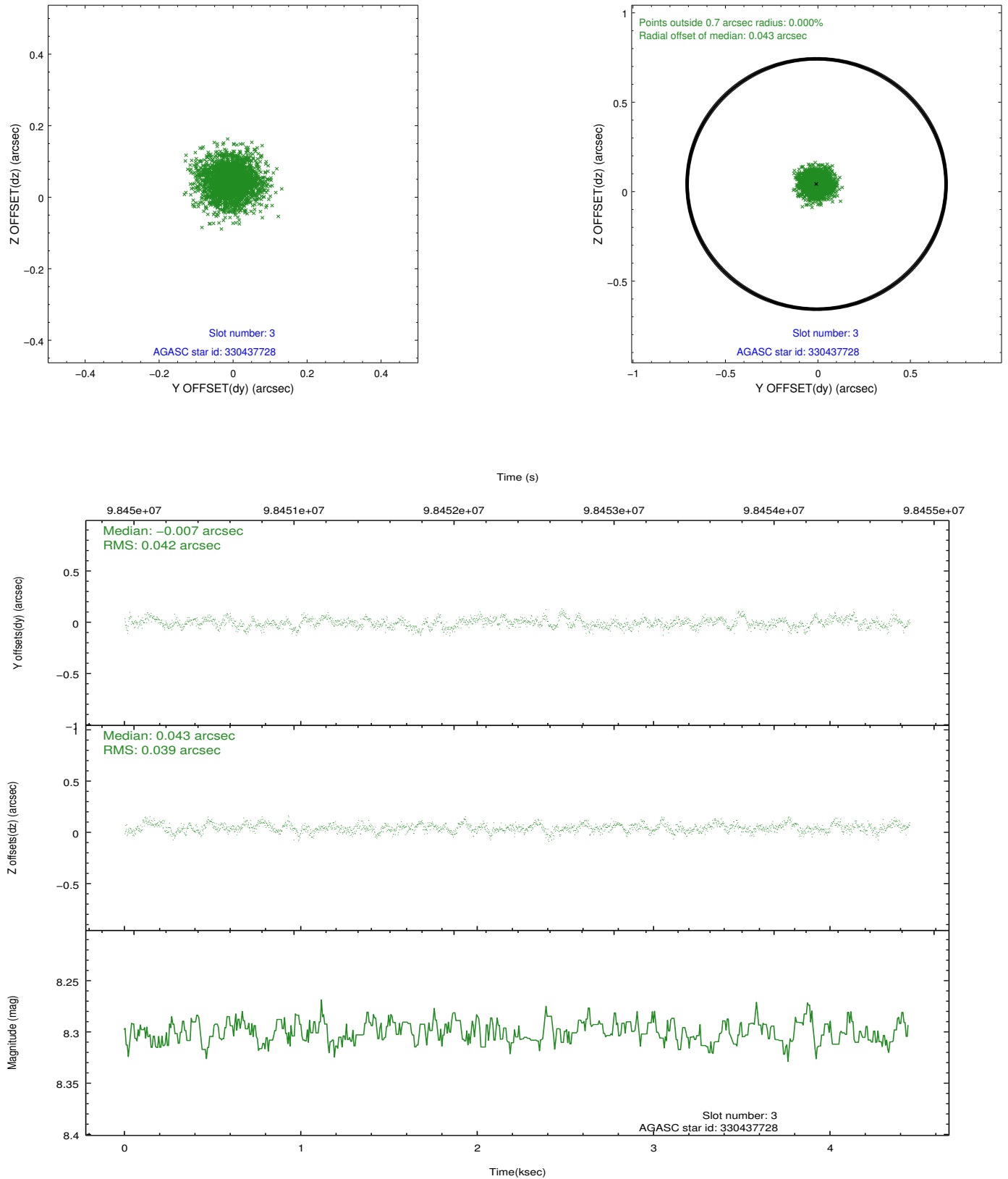


### Slot Statistics

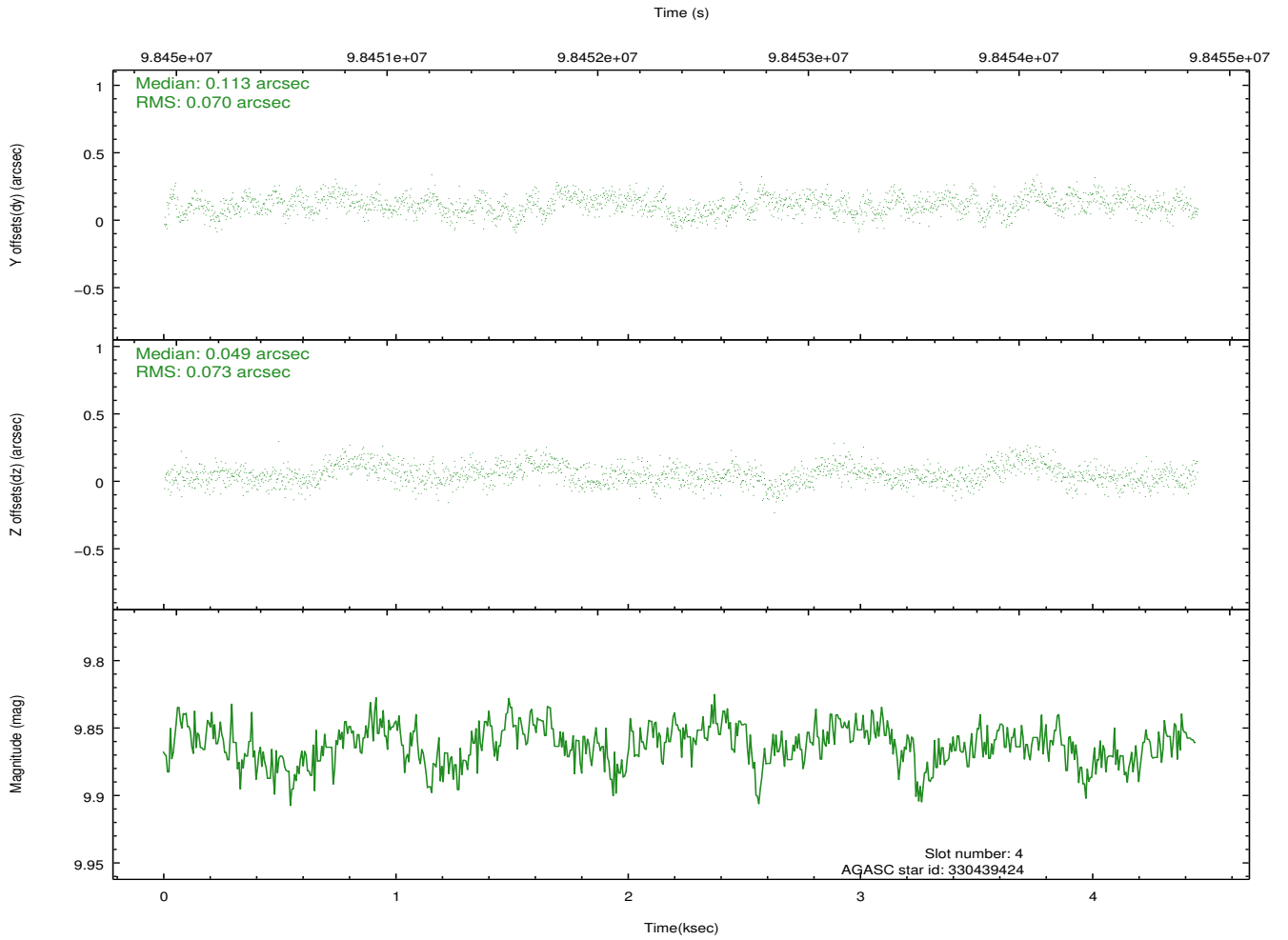
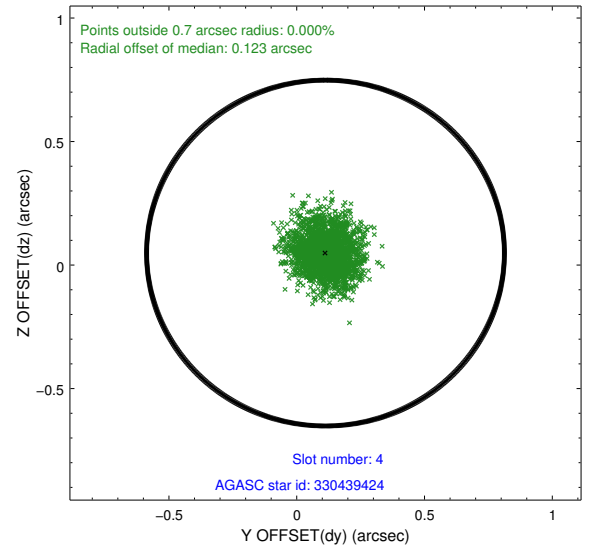
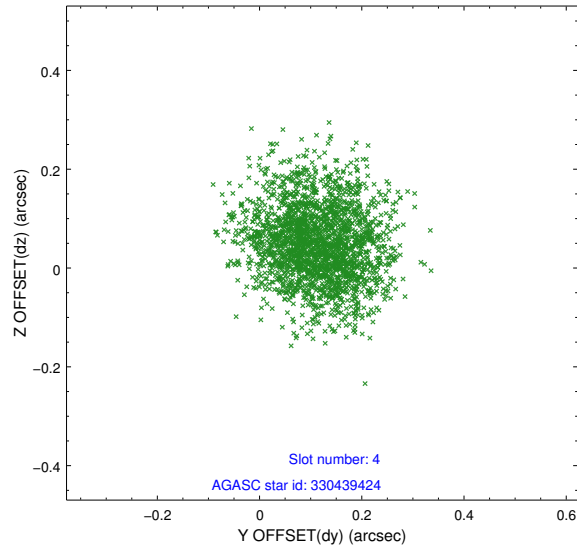
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.15	1083	-0.023	-0.043	0.009	0.014	0.000000	0.000000	-755.63	-834.66
1	FID	ACIS-I-4	7.19	1085	-0.036	0.034	0.006	0.011	0.000000	0.000000	2157.78	1070.91
2	FID	ACIS-I-5	7.23	1086	-0.042	0.078	0.008	0.013	0.000000	0.000000	-1807.70	1070.36
3	GUIDE	330437728	8.30	2171	-0.007	0.043	0.062	0.100	162.533662	36.098078	1949.90	-522.12
4	GUIDE	330439424	9.86	2171	0.113	0.049	0.109	0.175	162.989838	35.535285	-323.64	317.17
5	GUIDE	330439984	9.66	2171	0.090	0.054	0.093	0.152	162.783579	35.838572	809.54	-201.43
6	GUIDE	330436136	10.09	2170	0.071	-0.150	0.115	0.189	162.320122	35.905959	2043.25	403.08
7	GUIDE	330449528	10.17	2169	-0.270	0.001	0.113	0.182	163.167412	35.221402	-1416.18	913.77

## 2.4 Star Slots

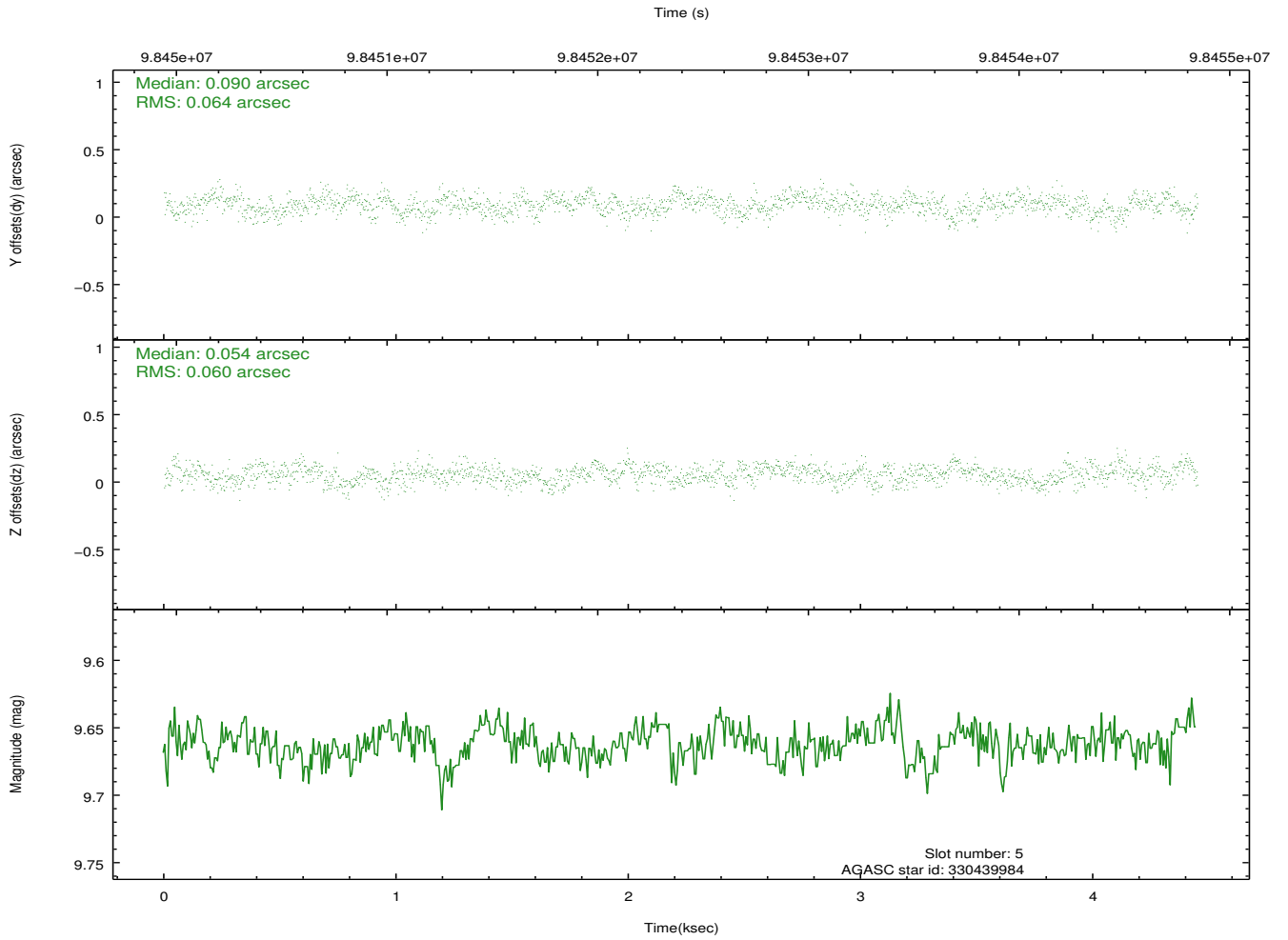
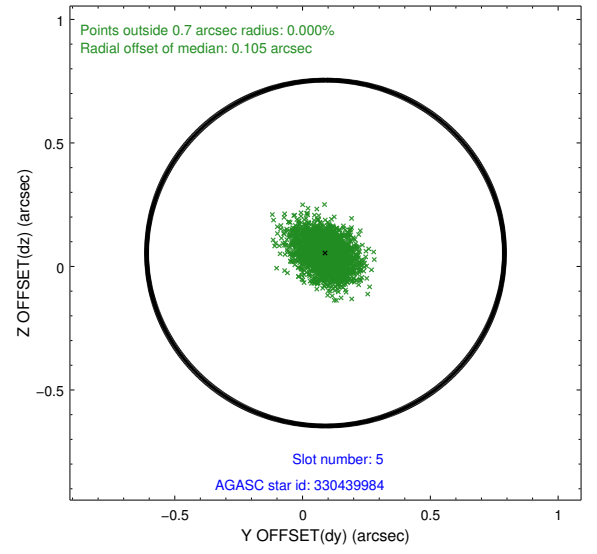
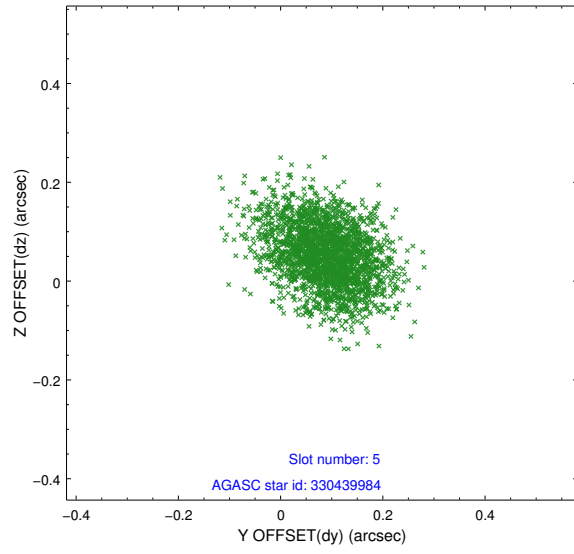
### 2.4.1 Slot 3



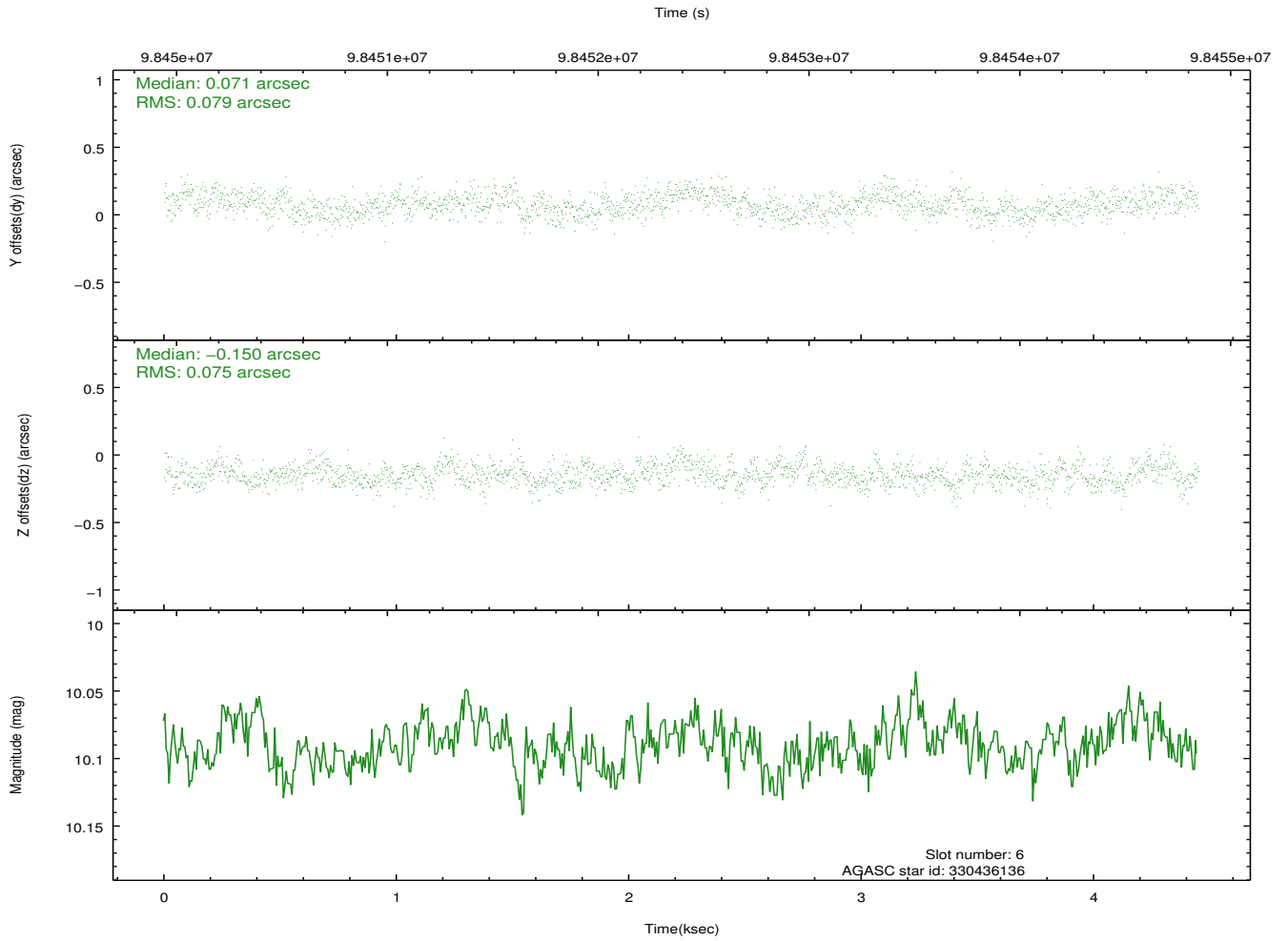
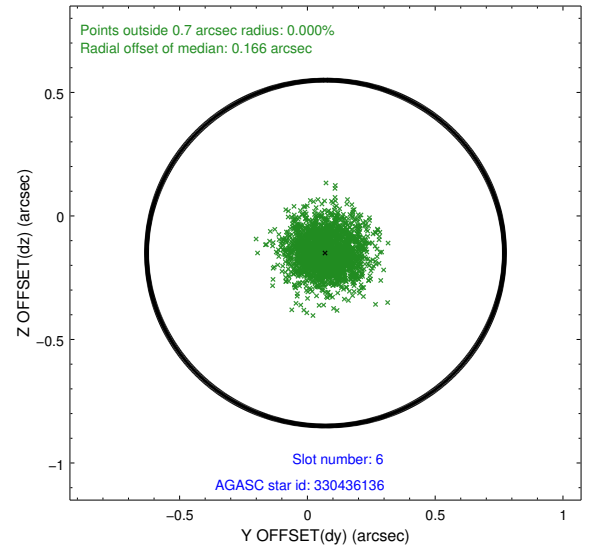
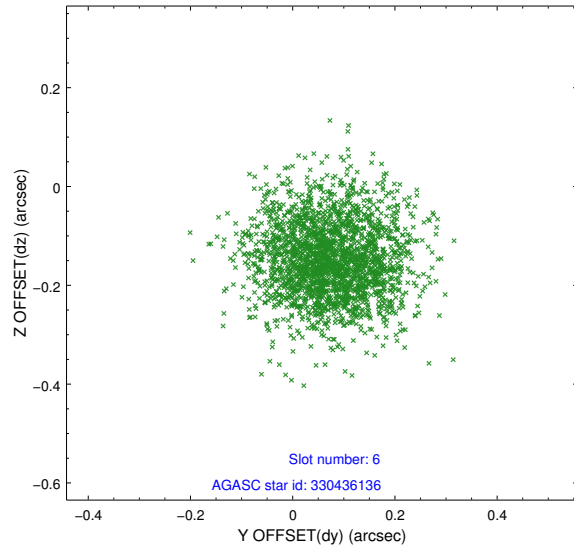
## 2.4.2 Slot 4



### 2.4.3 Slot 5

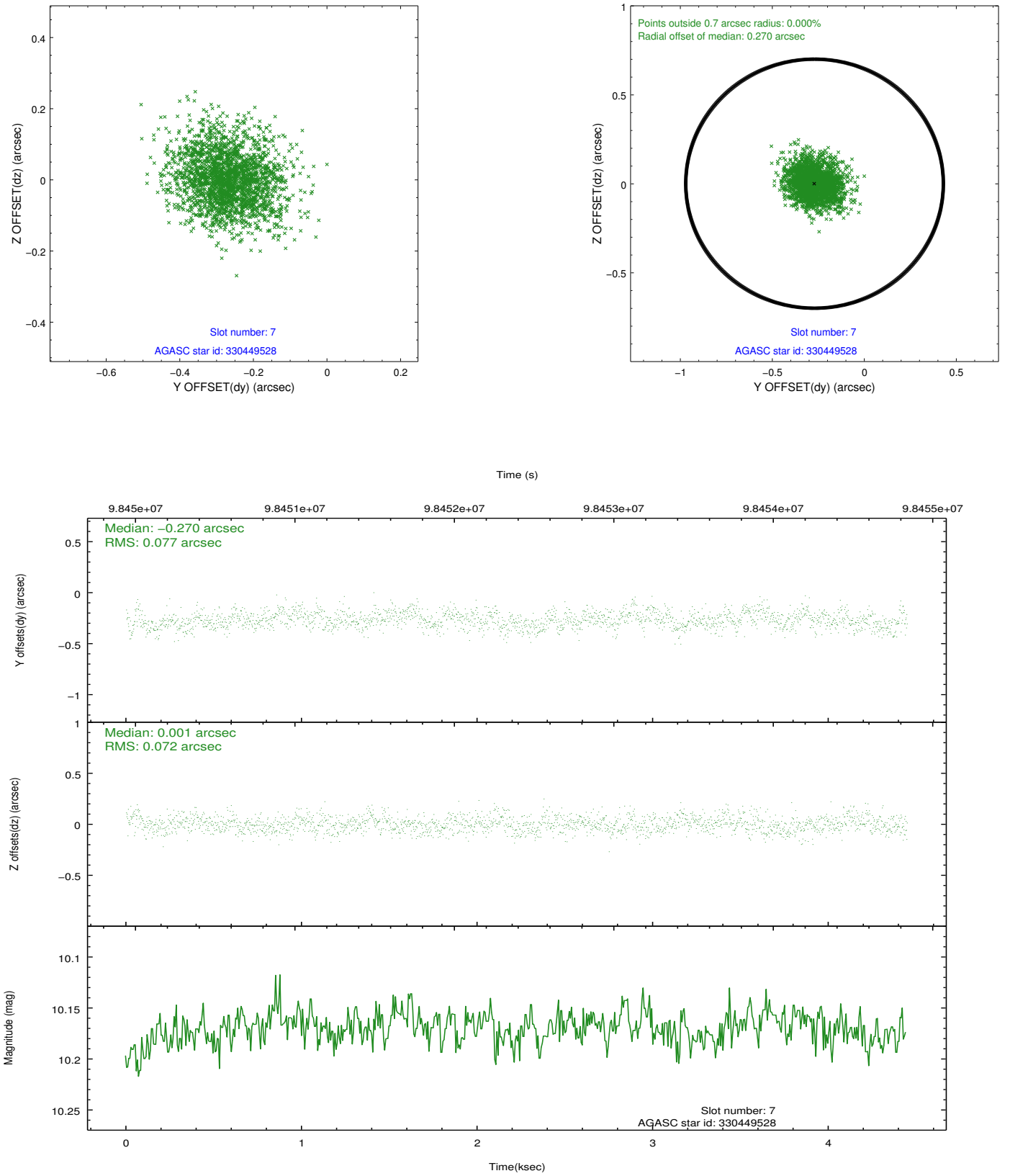


## 2.4.4 Slot 6



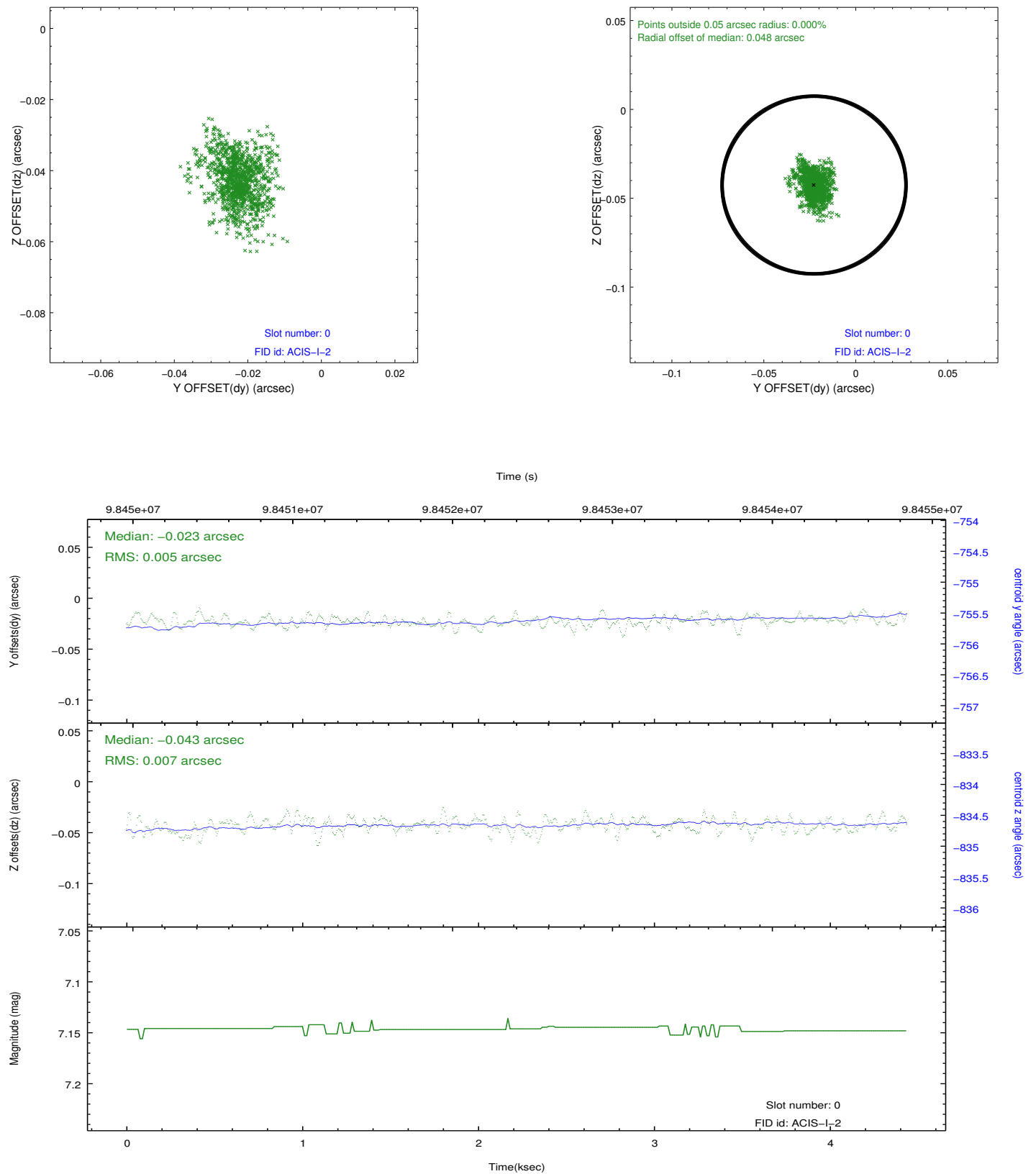


## 2.4.5 Slot 7

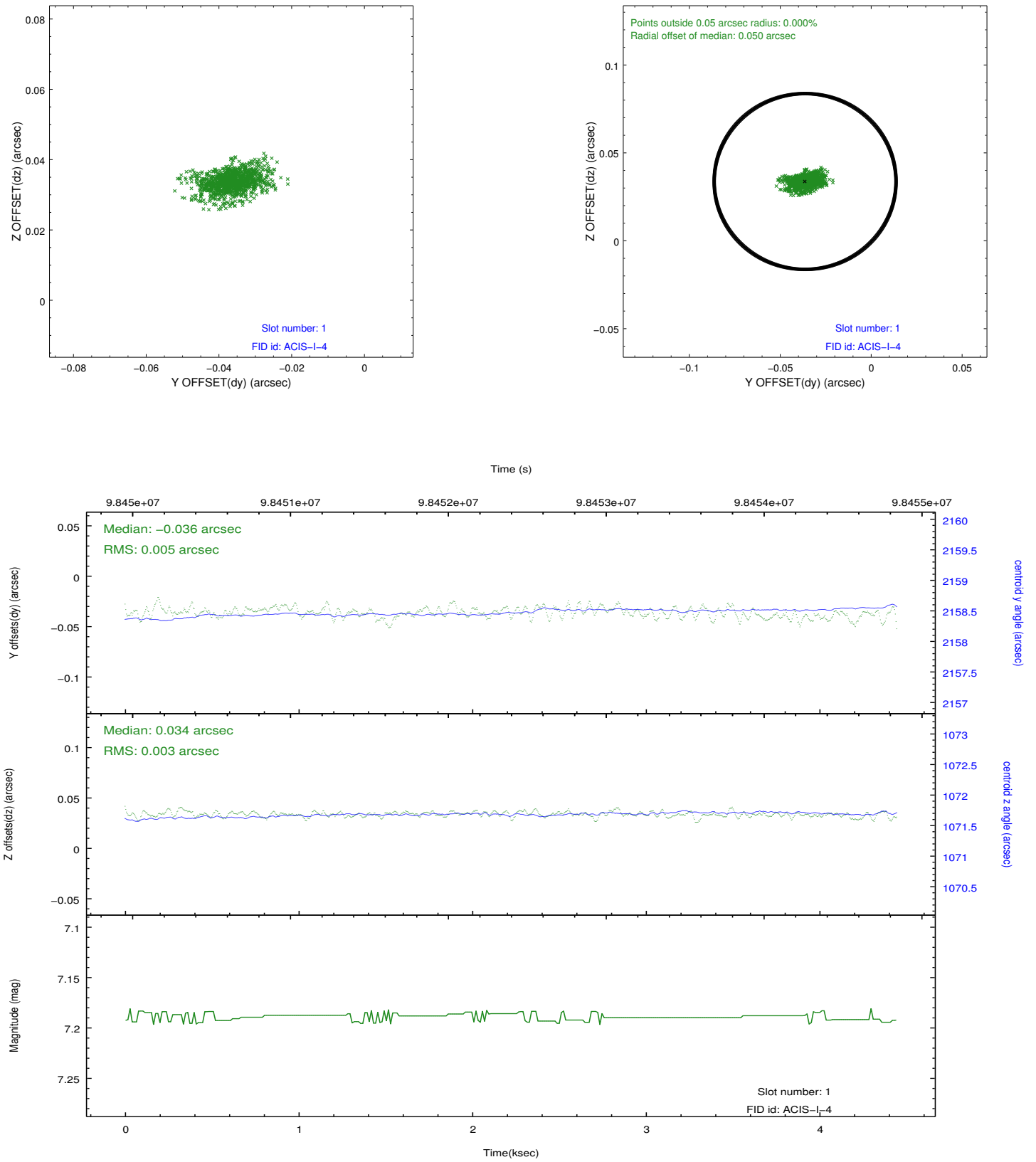


## 2.5 FID Slots

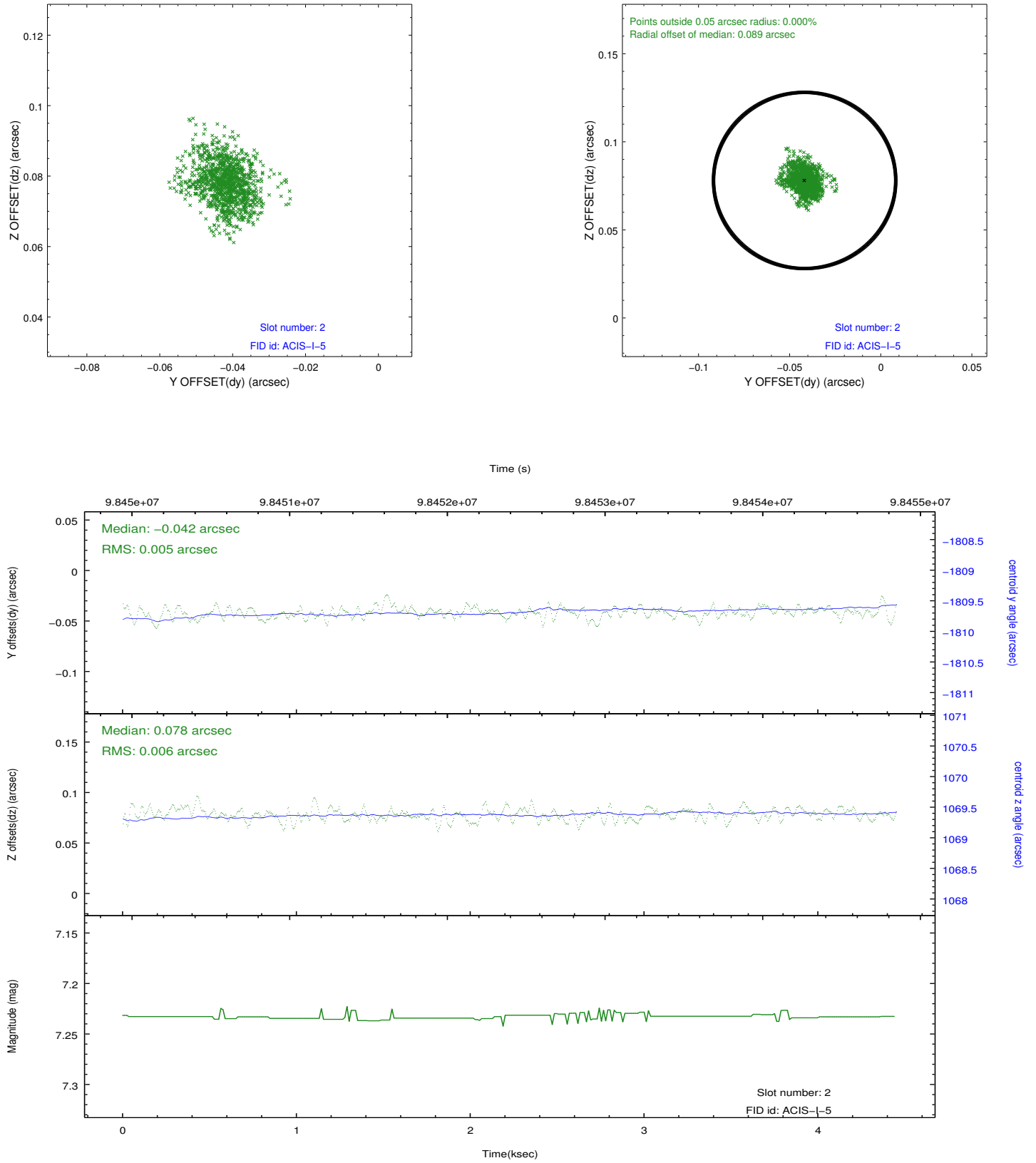
### 2.5.1 Slot 0



## 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)	2012.09.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.435

## A.2 Comments

Charge time: Charge time for this ObsId remains at previous value of 4.435 ks although with the current processing it would have been 4.447 ksec