

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8511 - L2 Version 3  
Chandra X-Ray Center

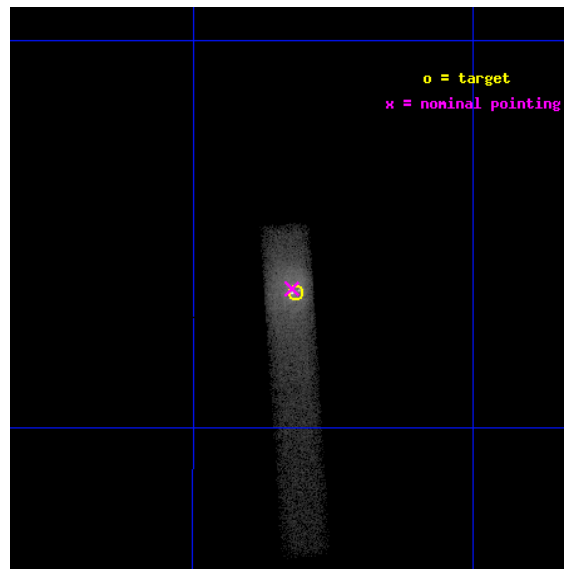
L2 Processing Date : Apr 20 2012

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# 1 Front

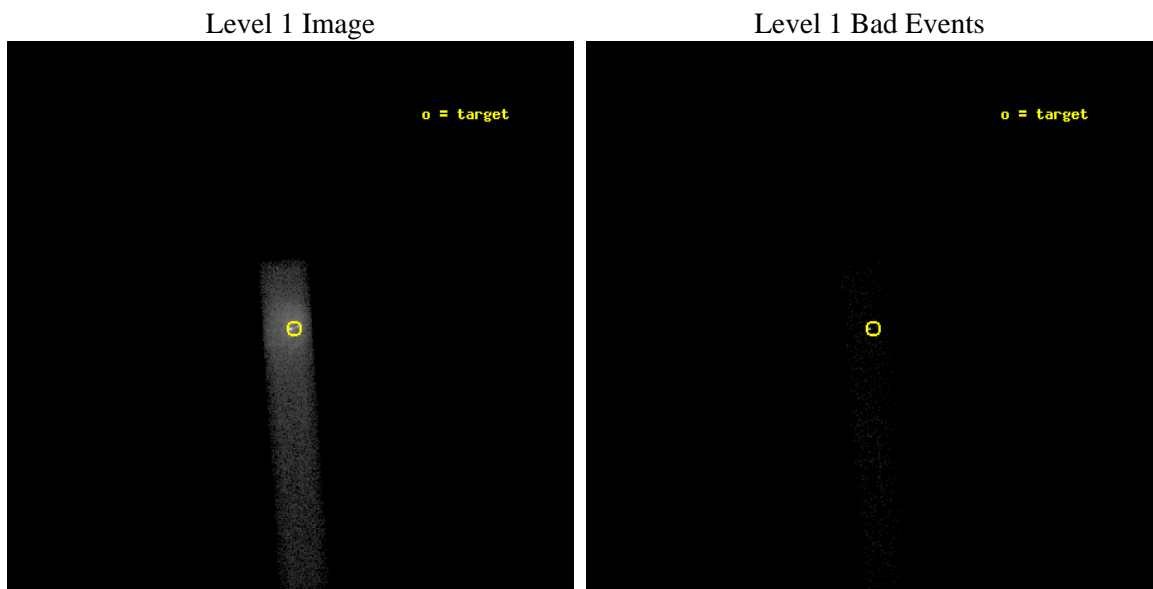
seq_num	701577	Sequence number
obs_id	8511	Observation id
title	Short Timescale X-ray Variability in the M87 Jet: the TeV connection	&#160
observer	Dr. Daniel Harris	Principal investigator
object	M87	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.704167	Observer's specified target RA [deg]
dec_targ	12.391667	Observer's specified target Dec [deg]
ra_nom	187.70585648494	Nominal RA [deg]
dec_nom	12.392940365623	Nominal Dec [deg]
roll_nom	86.156262052641	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5185.5996909142	Sum of GTIs [s]
livetime	4703.0652012644	Livetime [s]
ontime7	5185.5996909142	Sum of GTIs [s]
l2events	58015	Number of level 2 events



## 2 OBI

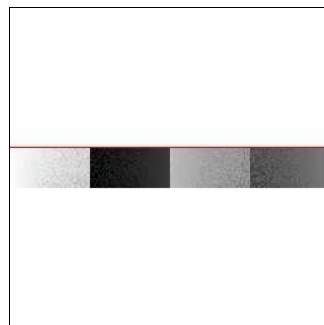
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5185.5996909142	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime7	5185.5996909142	Sum of GTIs [s]
date	2012-04-20T04:24:06	Date and time of file creation	l1events	69662	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	69662
rejected events	11108
rejected %	15%

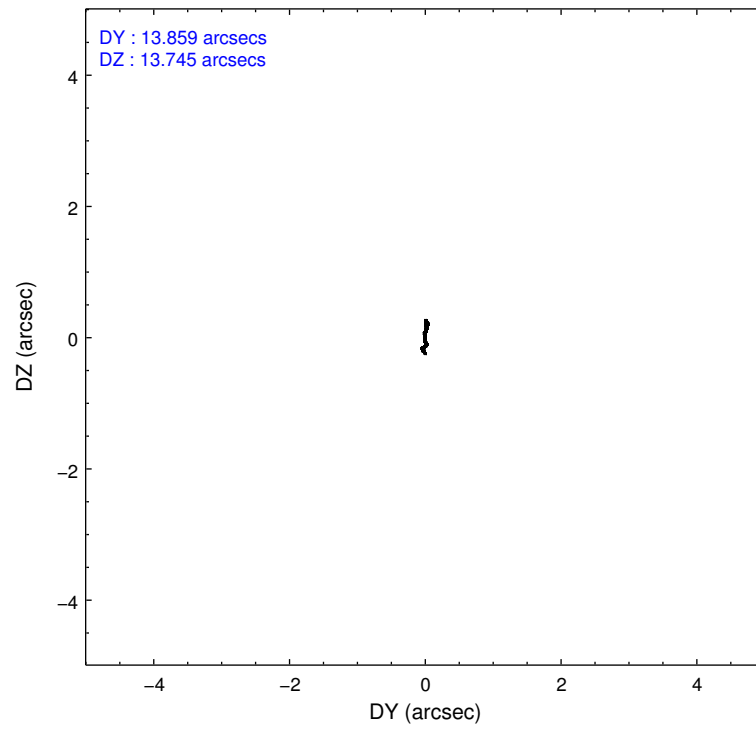
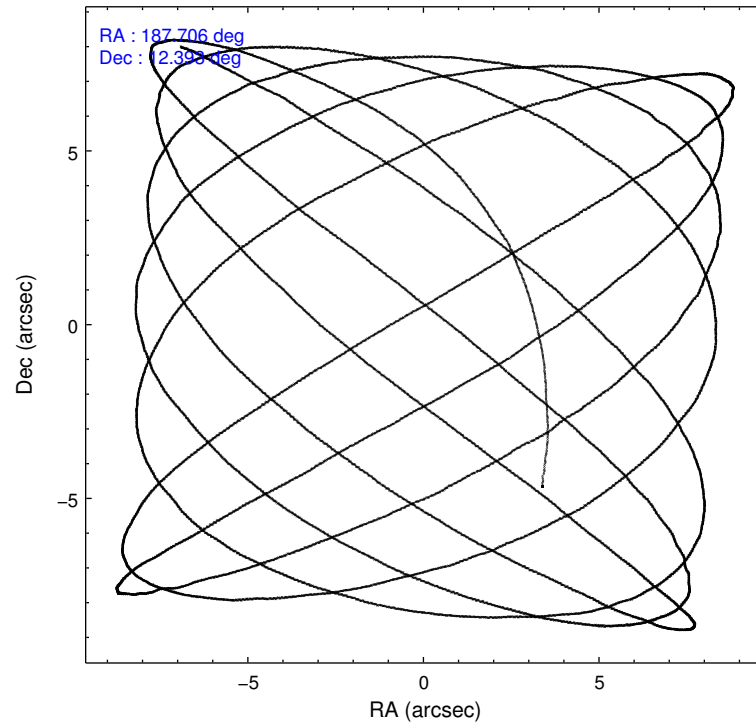
	<b>ccd 7</b>
grade 0 events	17634
	25%
grade 1 events	288
	0%
grade 2 events	15570
	22%
grade 3 events	7235
	10%
grade 4 events	6897
	9%
grade 5 events	2205
	3%
grade 6 events	13605
	19%
grade 7 events	6228
	8%

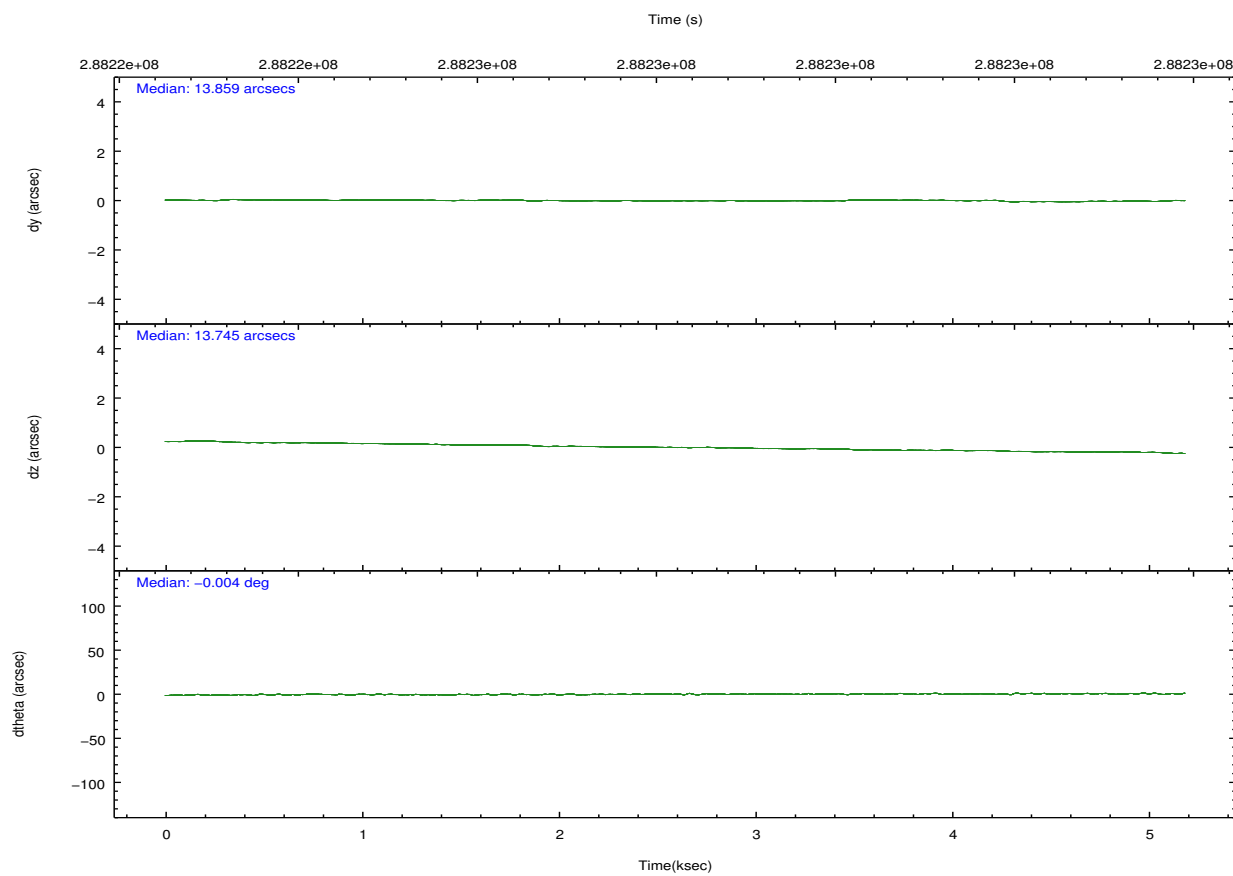
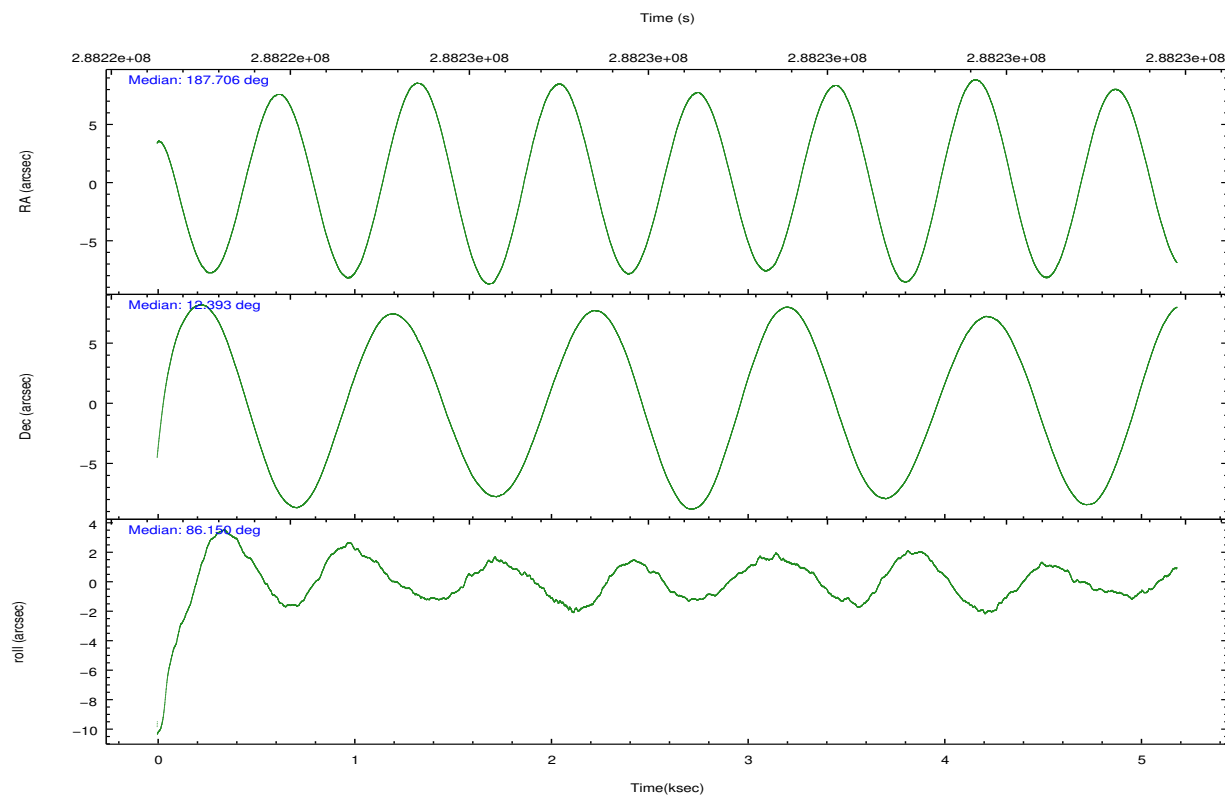


## 2.2 Compared Parameters

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	187.718592	187.705856484942	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	12.368516	12.39294036562259	Subarray start row	449	449
[deg] Pointing Roll	85.996911	86.1562620526413	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)	288224694.184000	288223559.29305			
Observation start date	2007-02-18T22:23:49	2007-02-18T22:05:59			
[s] Observation end time (MET)	288229694.184000	288230387.84338			
Observation end date	2007-02-18T23:47:09	2007-02-18T23:59:47			
Read mode	TIMED	TIMED			

## 2.3 Aspect



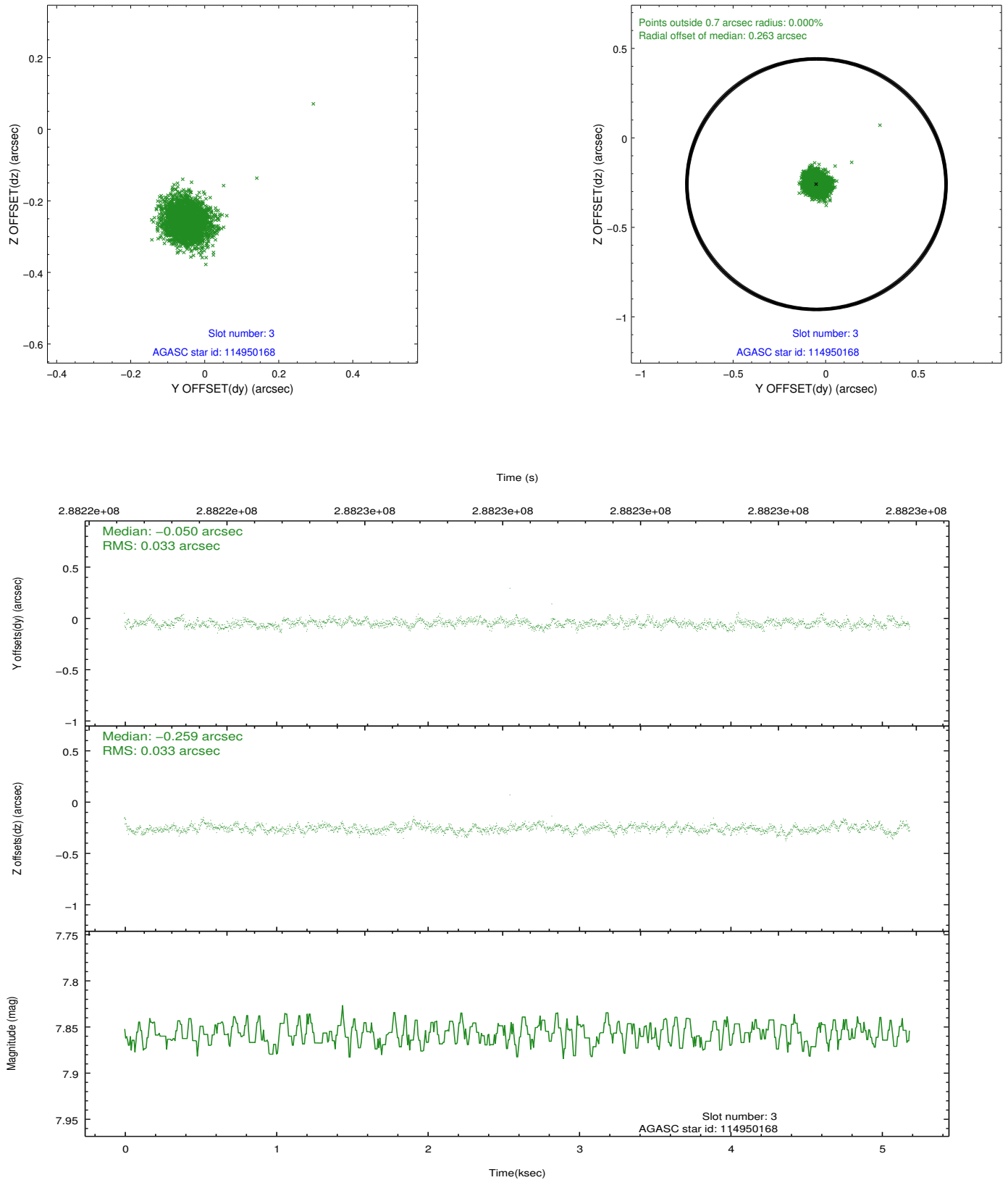


### Slot Statistics

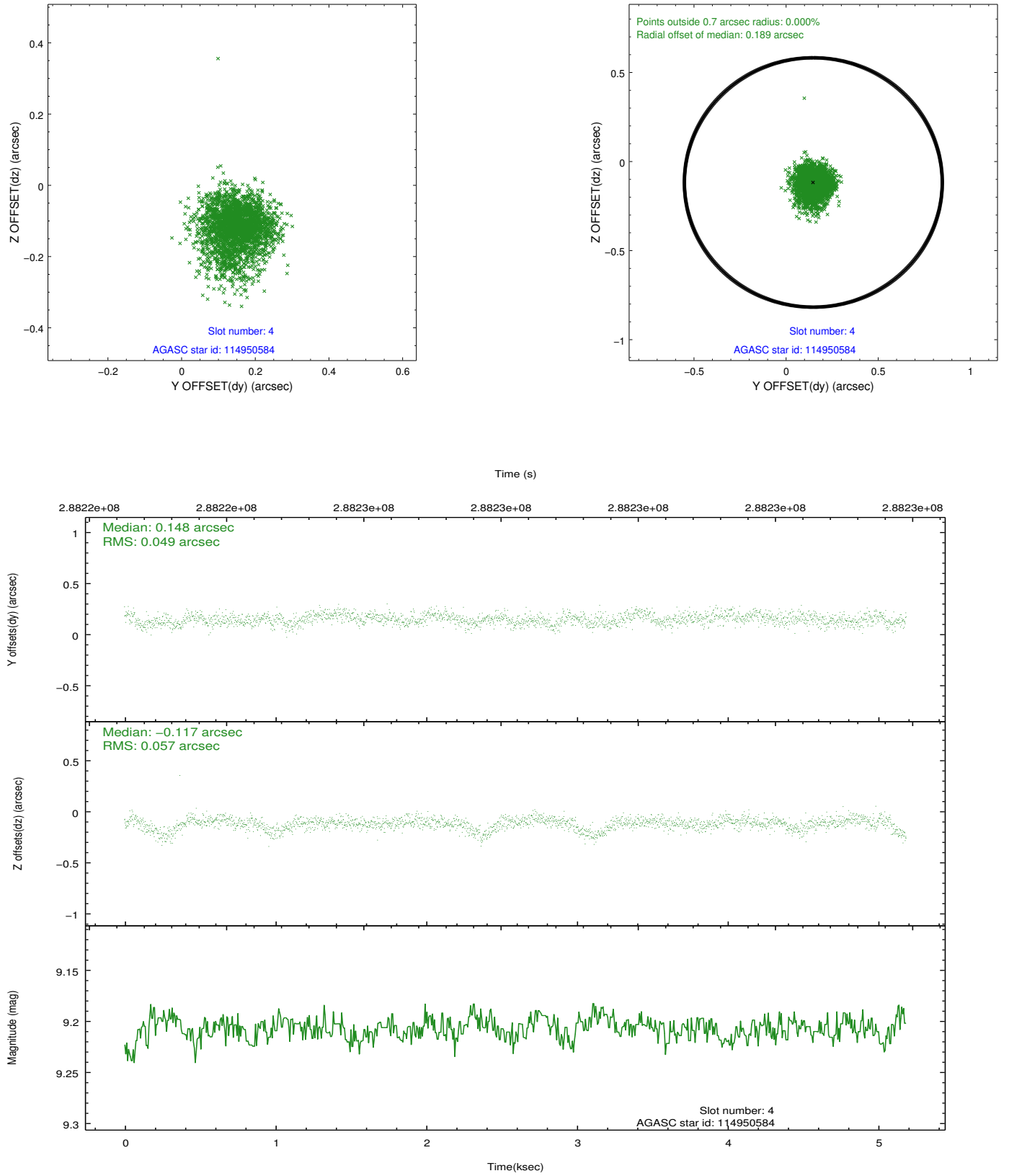
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	1265	-0.049	-0.073	0.008	0.012	0.000000	0.000000	-766.85	-1735.11
1	FID	ACIS-S-4	7.20	1265	0.195	0.043	0.007	0.013	0.000000	0.000000	2146.14	172.26
2	FID	ACIS-S-5	7.23	1265	-0.177	0.038	0.007	0.012	0.000000	0.000000	-1818.32	167.28
3	GUIDE	114950168	7.86	2531	-0.050	-0.259	0.049	0.080	187.143398	12.117441	-1041.39	1956.47
4	GUIDE	114950584	9.21	2530	0.148	-0.117	0.080	0.130	187.487323	11.827248	-2000.86	677.77
5	GUIDE	114952824	8.57	2531	-0.091	-0.195	0.062	0.102	187.703904	12.486727	419.86	81.79
6	GUIDE	114955056	8.32	2531	0.067	0.433	0.076	0.117	187.914001	12.127854	-815.78	-745.92
7	GUIDE	114955568	7.53	2530	-0.080	0.143	0.054	0.092	187.061916	11.826551	-2105.87	2172.19

## 2.4 Star Slots

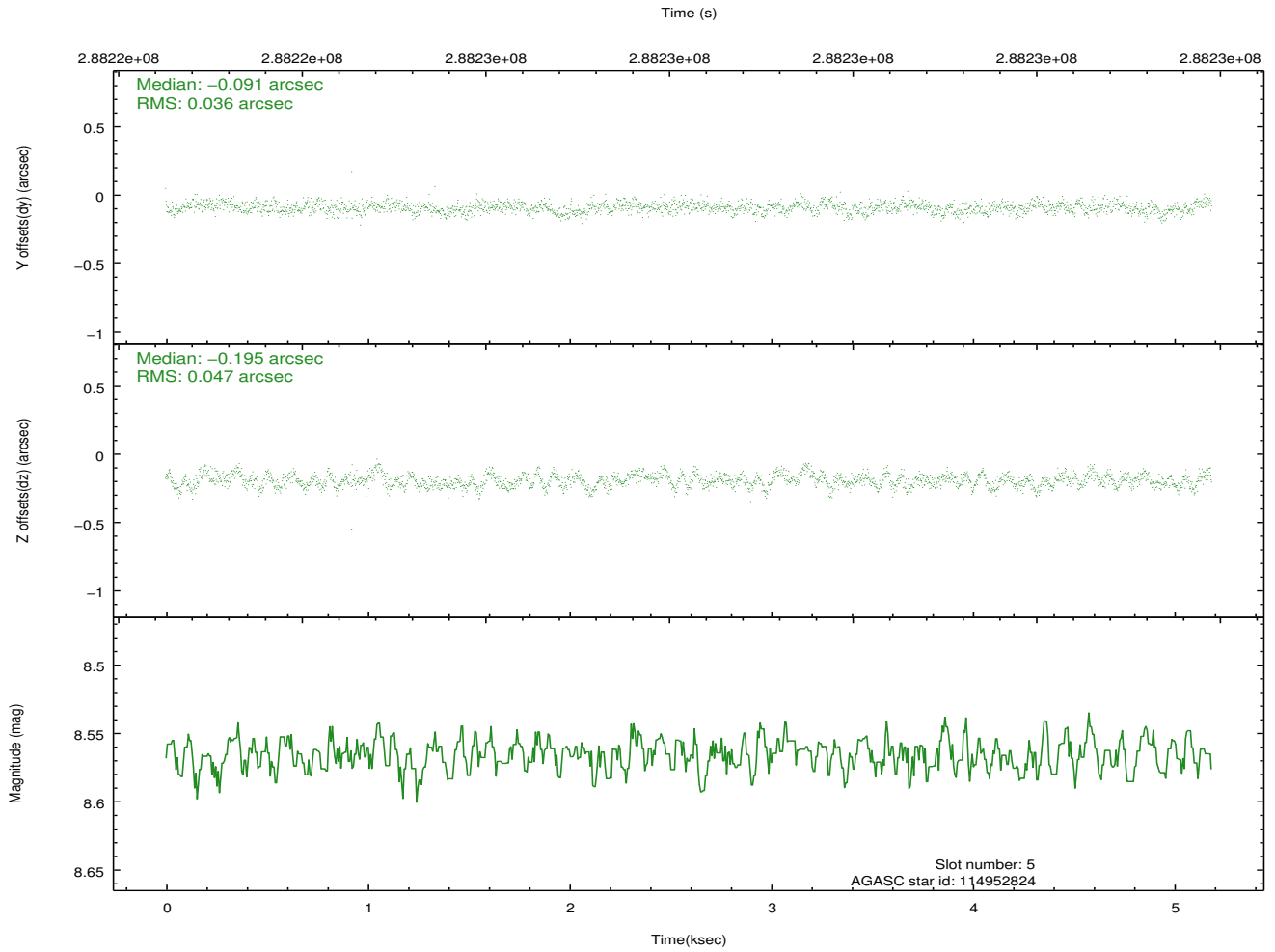
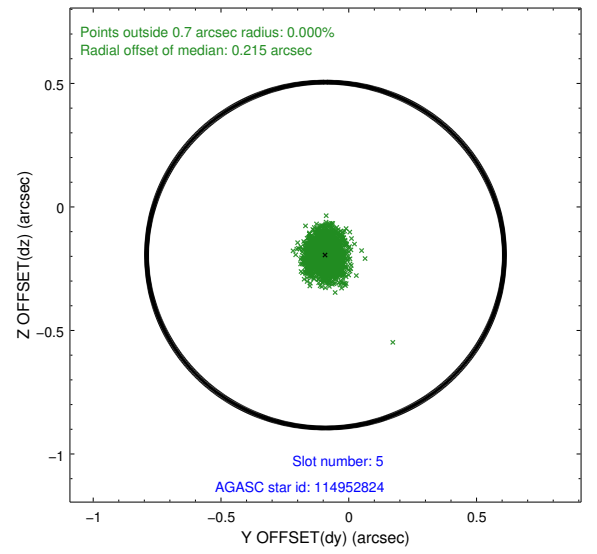
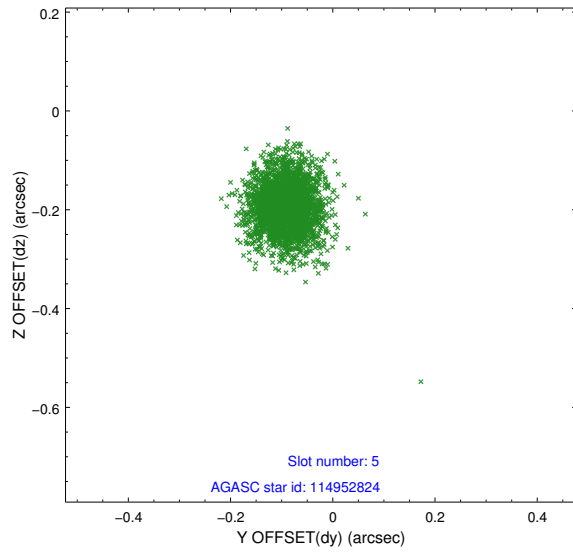
### 2.4.1 Slot 3



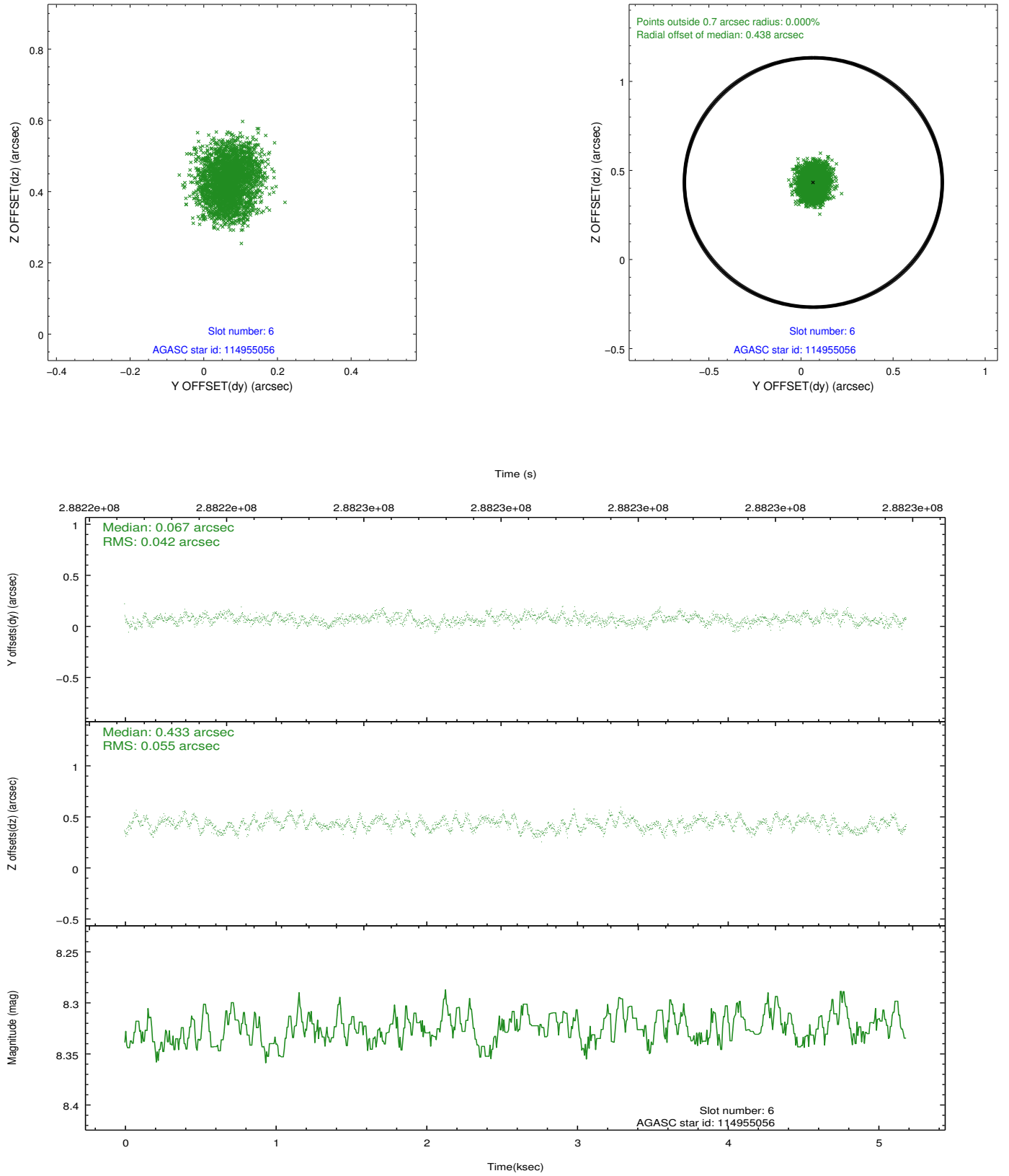
## 2.4.2 Slot 4



### 2.4.3 Slot 5

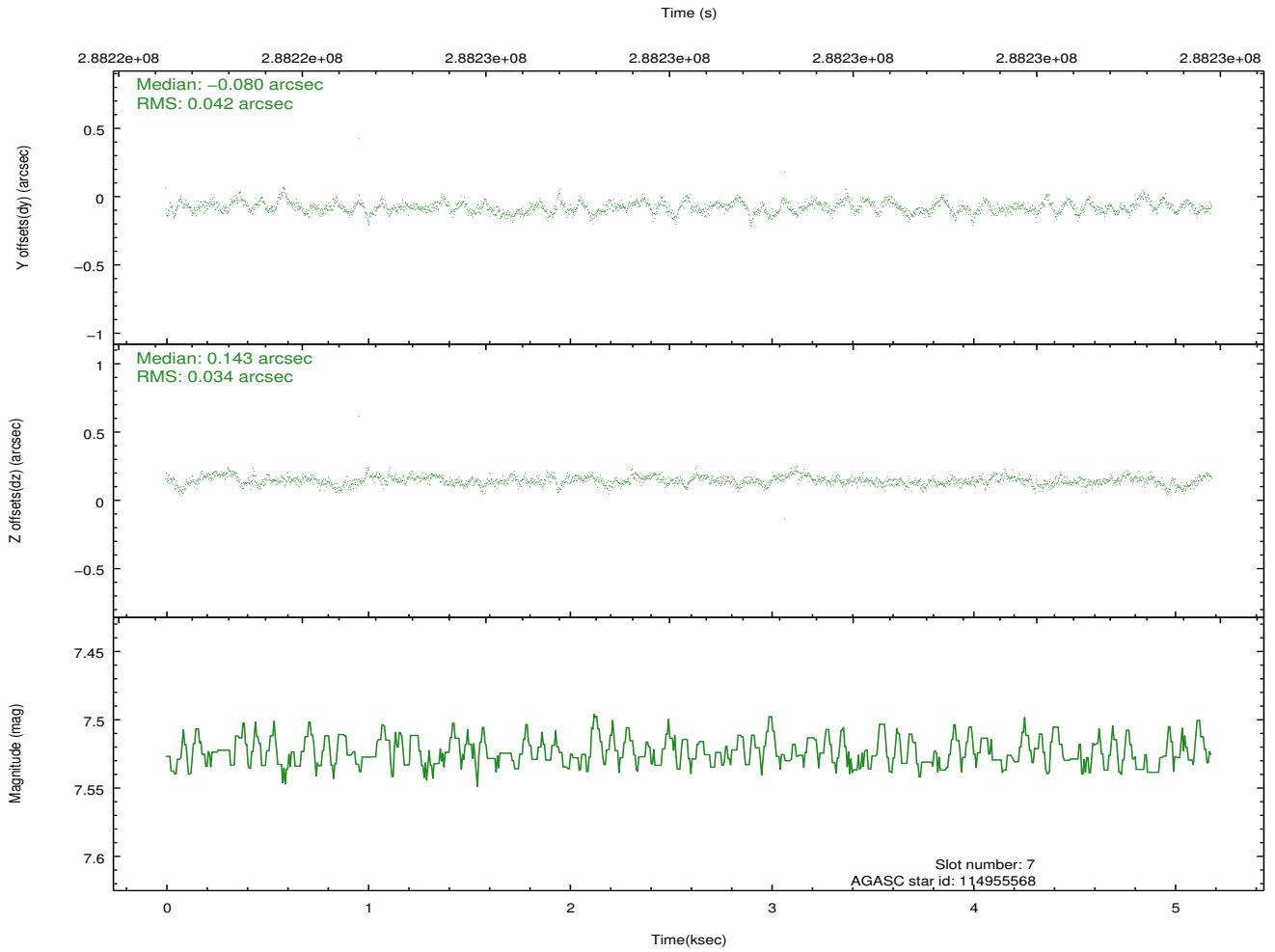
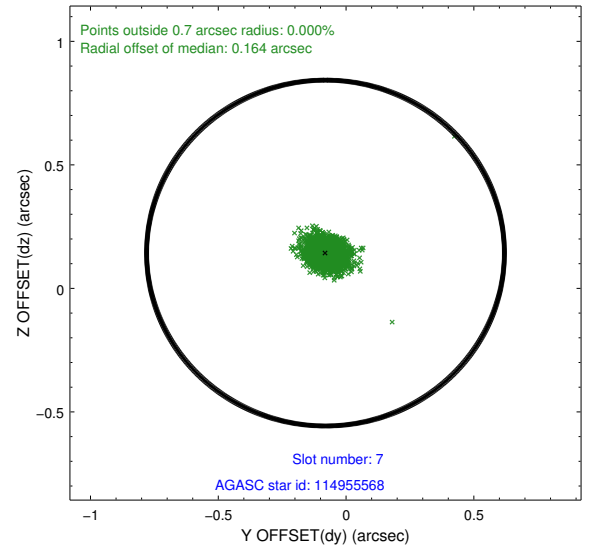
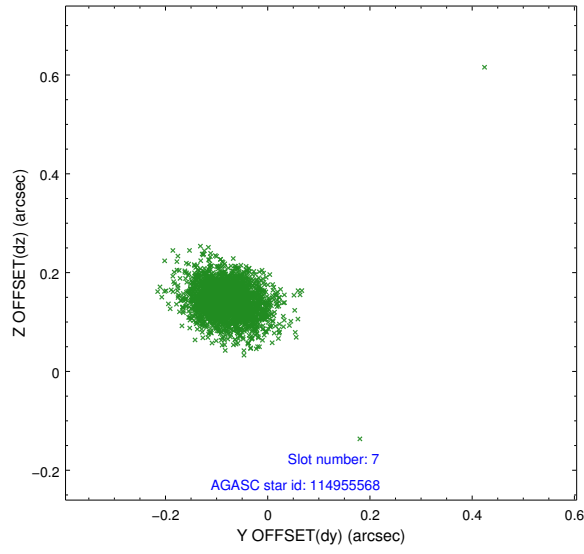


## 2.4.4 Slot 6



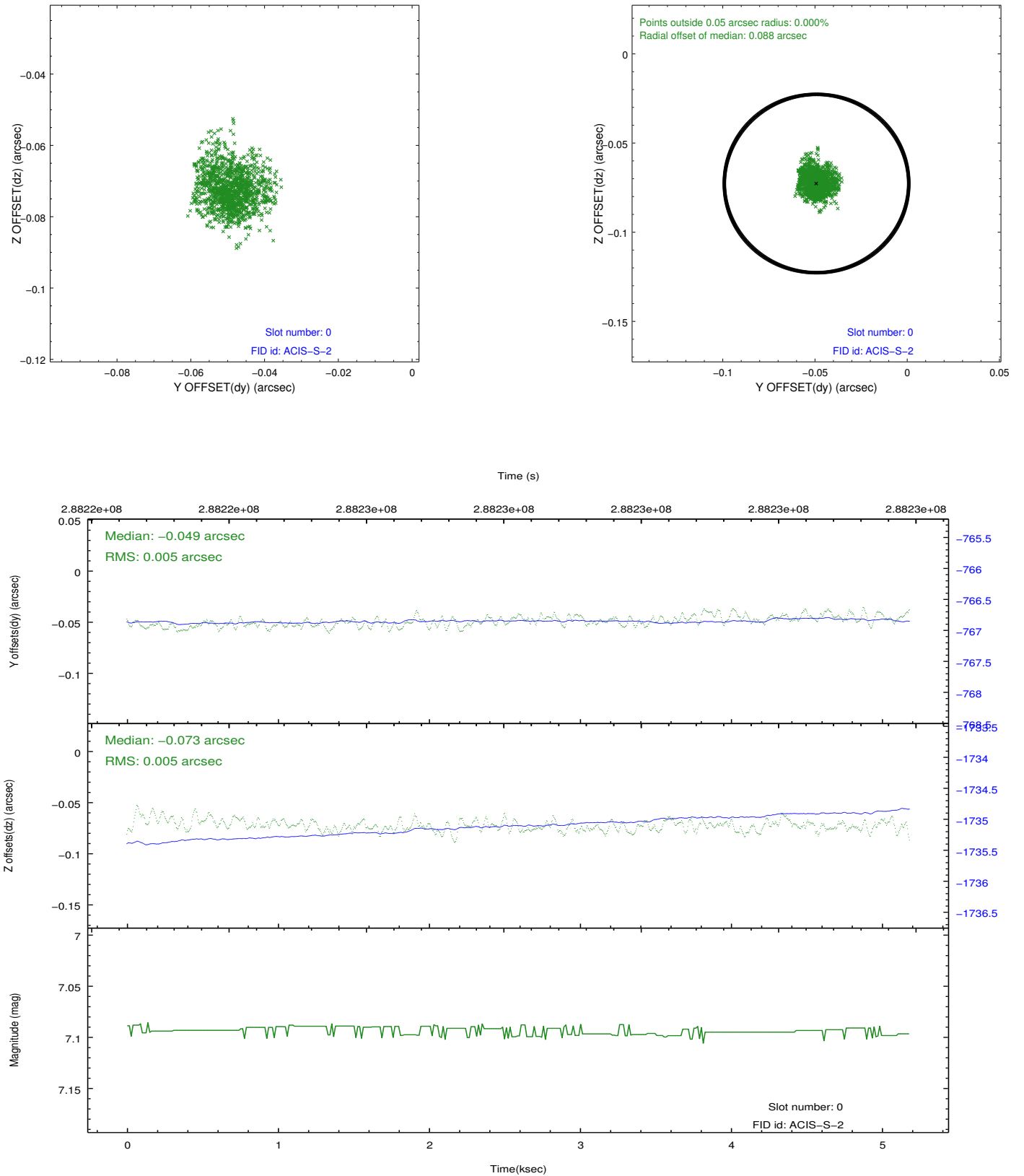


## 2.4.5 Slot 7

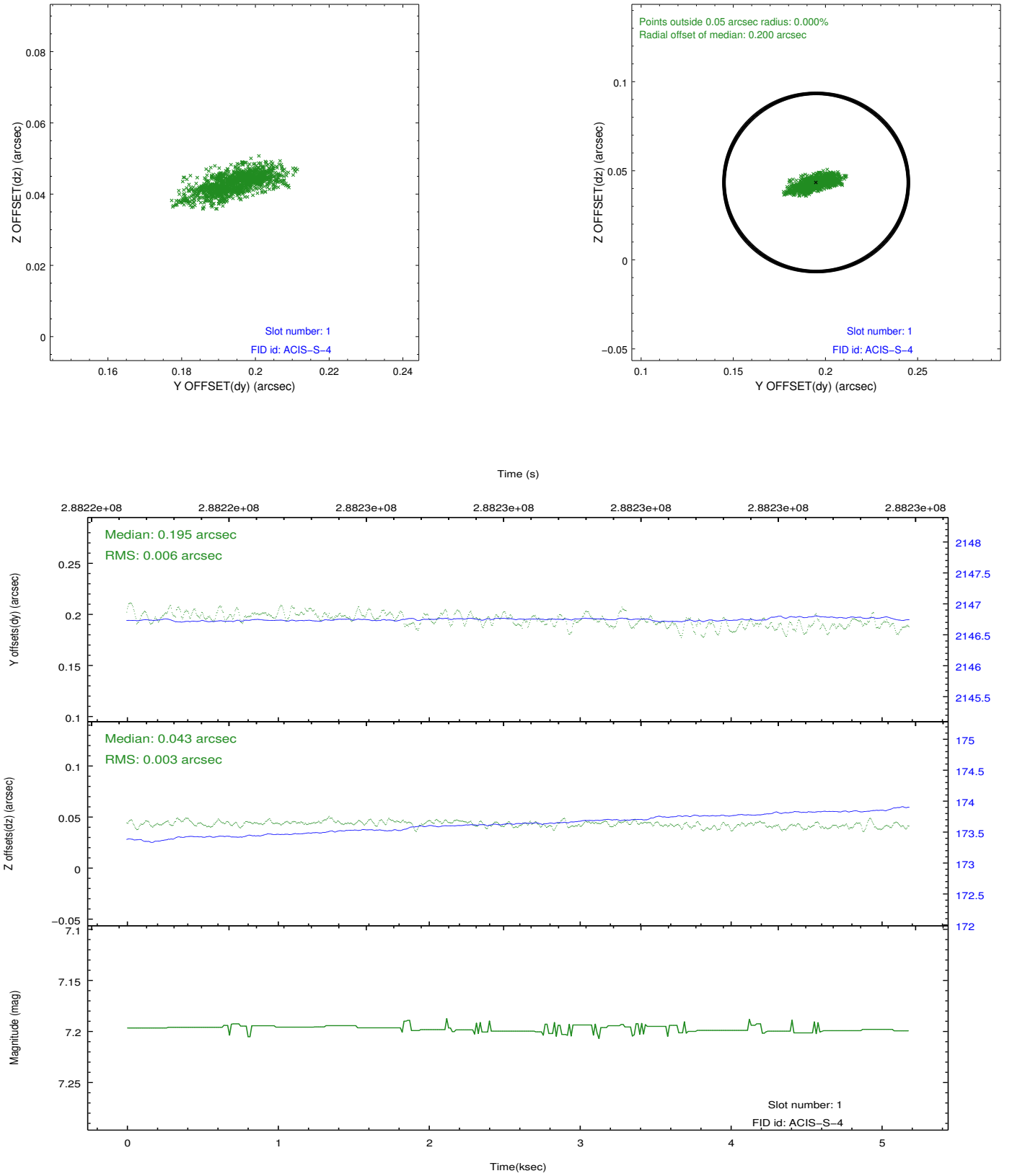


## 2.5 FID Slots

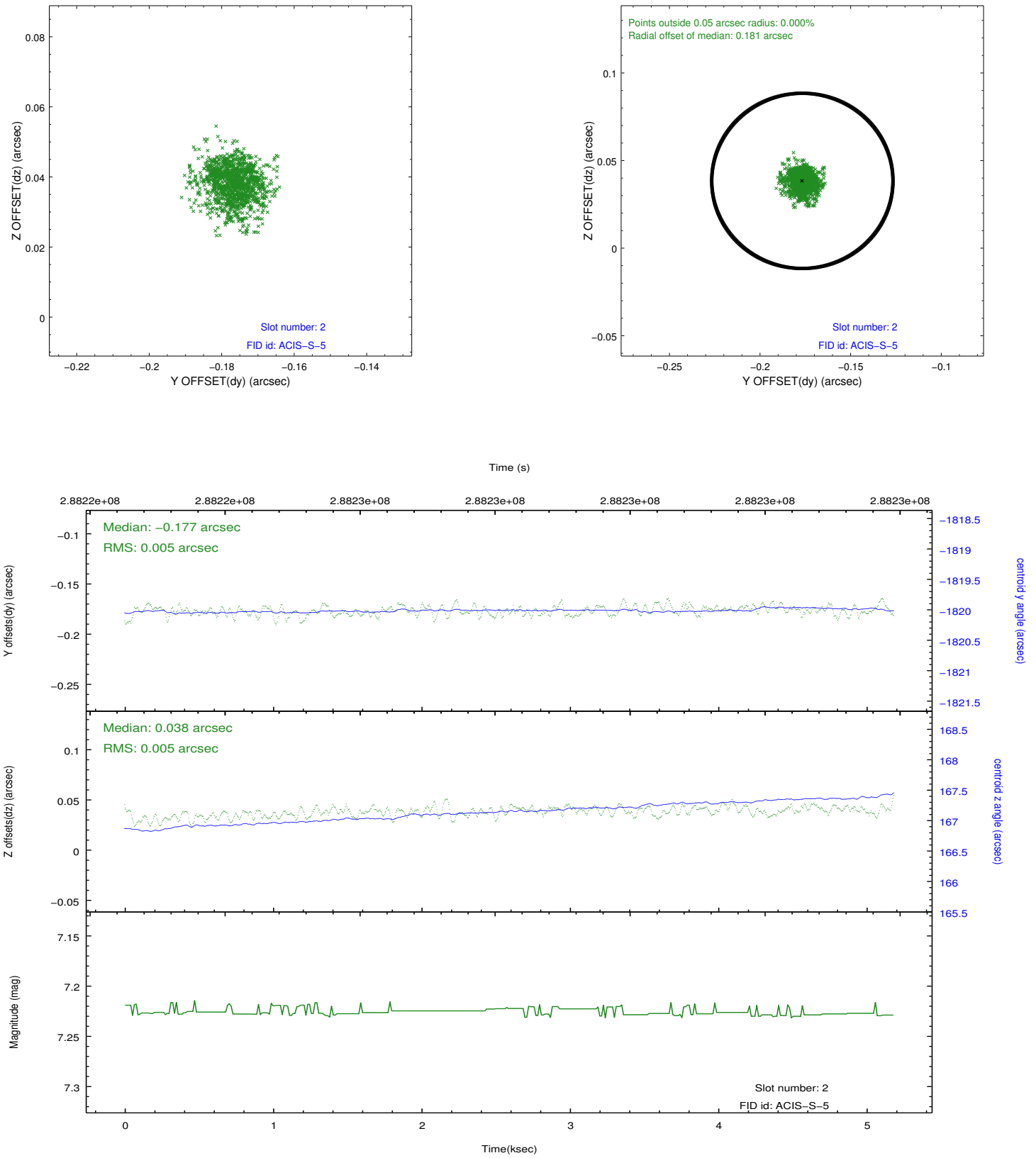
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.04.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.18559969

### A.2 Comments