

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 881 - L2 Version 4  
Chandra X-Ray Center

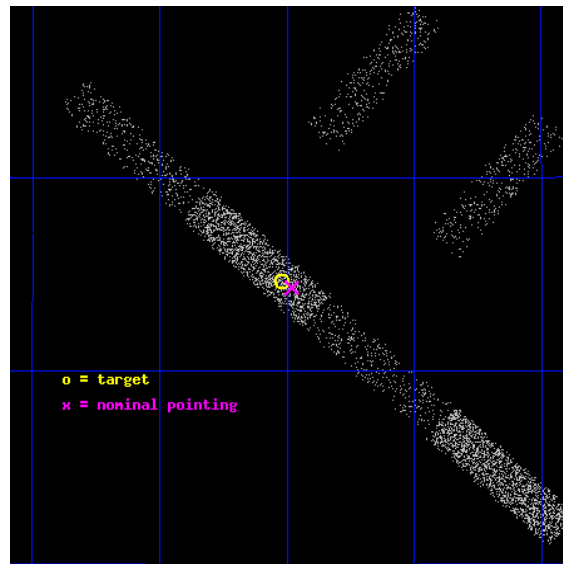
L2 Processing Date : Aug 29 2012

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# 1 Front

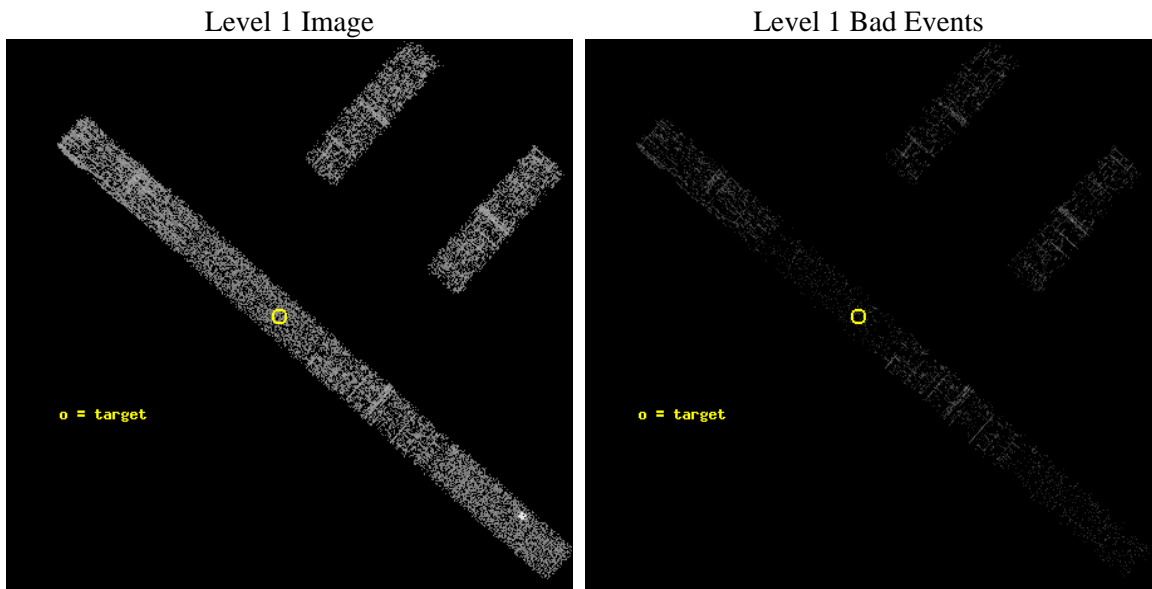
seq_num	700186	Sequence number
obs_id	881	Observation id
title	SURVEY OF RADIO QUIET $Z > 4$ QUASARS	Proposal title
observer	Dr. Jill Bechtold	Principal investigator
object	PSS 1443+2724	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	220.88	Observer's specified target RA [deg]
dec_targ	27.410278	Observer's specified target Dec [deg]
ra_nom	220.87026422211	Nominal RA [deg]
dec_nom	27.404996112532	Nominal Dec [deg]
roll_nom	221.24998032508	Nominal Roll [deg]
revision	4	Processing version of data
ontime	2251.6999877989	Sum of GTIs [s]
liveltime	2170.712671404	Livetime [s]
ontime2	2251.6999877989	Sum of GTIs [s]
ontime3	2251.6999877989	Sum of GTIs [s]
ontime5	2251.6999877989	Sum of GTIs [s]
ontime6	2251.6999877989	Sum of GTIs [s]
ontime7	2251.6999877989	Sum of GTIs [s]
ontime8	2251.6999877989	Sum of GTIs [s]
l2events	5309	Number of level 2 events



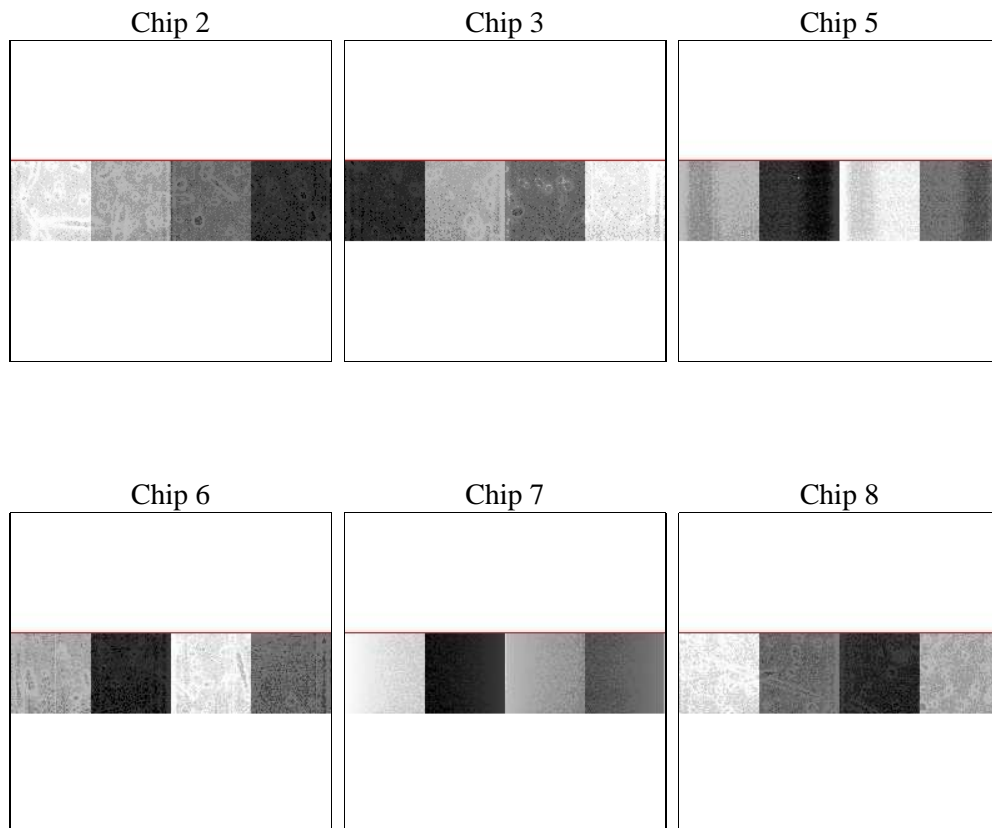
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2100.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2251.6999877989	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime2	2251.6999877989	Sum of GTIs [s]
date	2012-08-29T05:28:13	Date and time of file creation	ontime3	2251.6999877989	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	2251.6999877989	Sum of GTIs [s]
			ontime6	2251.6999877989	Sum of GTIs [s]
			ontime7	2251.6999877989	Sum of GTIs [s]
			ontime8	2251.6999877989	Sum of GTIs [s]
			l1events	37967	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	6005	5358	7482	5780	5169	8173
rejected events	5493	4924	3867	5285	3317	6776
rejected %	91%	91%	51%	91%	64%	82%

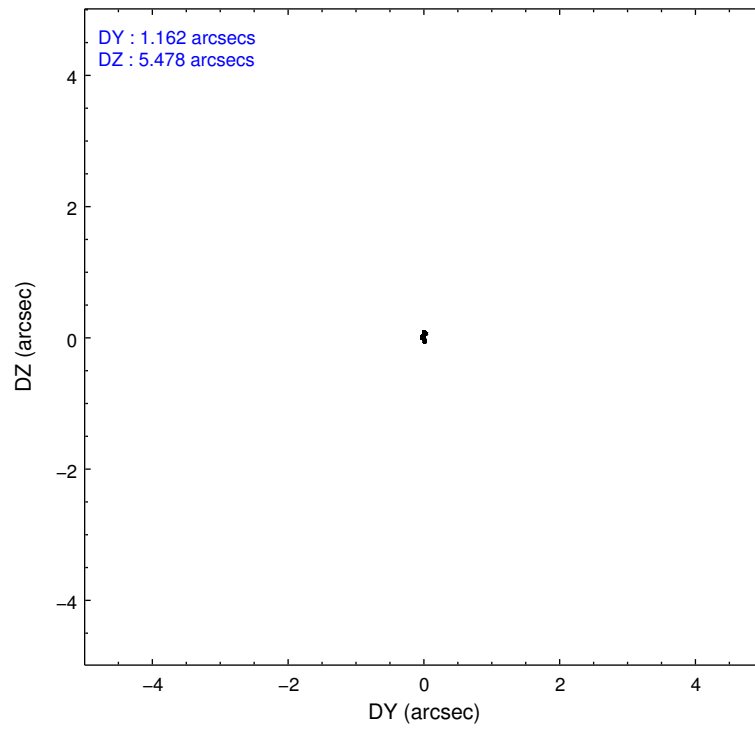
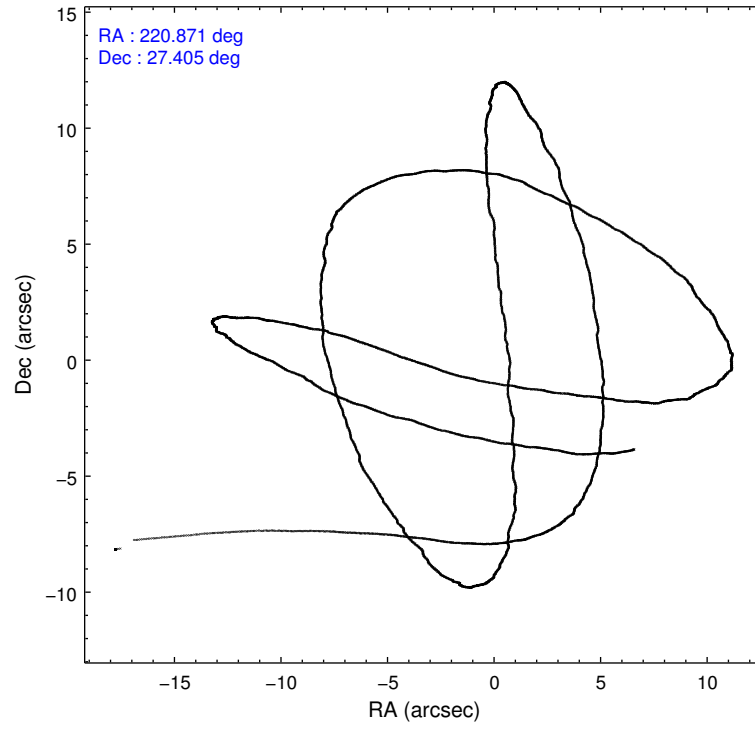
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	205	220	2139	214	257	480
	3%	4%	28%	3%	4%	5%
grade 1 events	2	2	8	3	9	5
	0%	0%	0%	0%	0%	0%
grade 2 events	139	105	774	119	501	301
	2%	1%	10%	2%	9%	3%
grade 3 events	91	62	175	88	227	273
	1%	1%	2%	1%	4%	3%
grade 4 events	91	64	186	77	274	244
	1%	1%	2%	1%	5%	2%
grade 5 events	154	131	486	162	486	223
	2%	2%	6%	2%	9%	2%
grade 6 events	122	98	1224	100	1073	418
	2%	1%	16%	1%	20%	5%
grade 7 events	5201	4676	2490	5017	2342	6229
	86%	87%	33%	86%	45%	76%

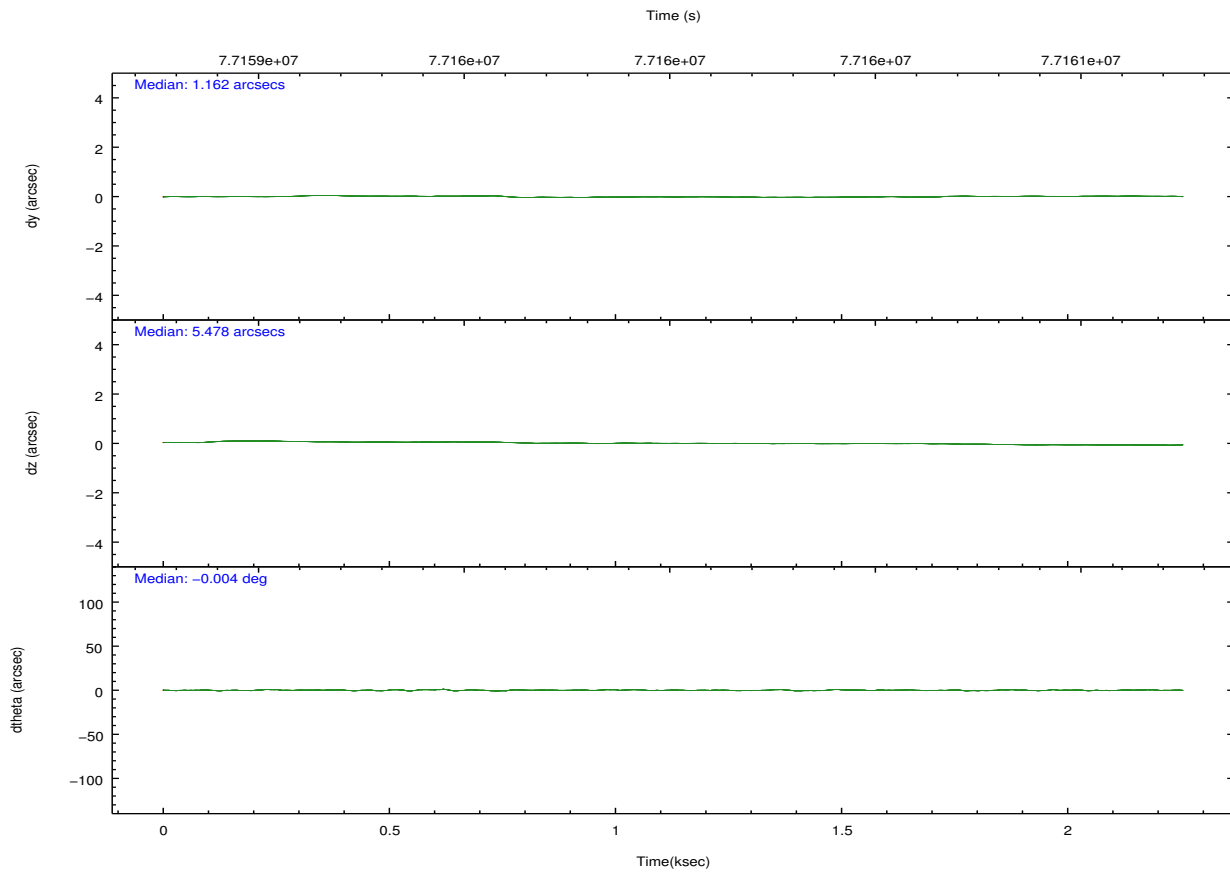
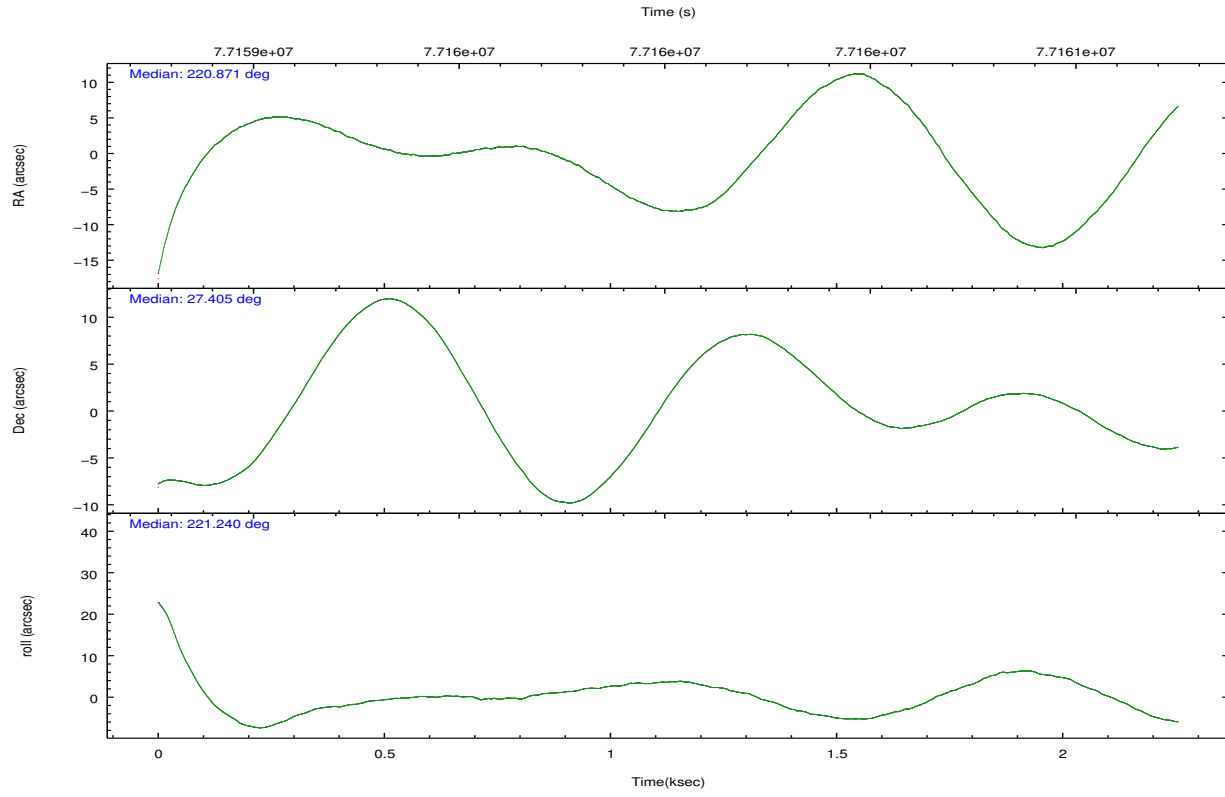
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-235678	ACIS-235678
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	220.880152	220.8702642221084
[deg] Pointing Dec	27.431176	27.40499611253187
[deg] Pointing Roll	221.088696	221.2499803250813
[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)	77159034.184000	77157928.241843
Observation start date	2000-06-12T01:02:50	2000-06-12T00:45:28
[s] Observation end time (MET)	77161134.184000	77161730.991983
Observation end date	2000-06-12T01:37:50	2000-06-12T01:48:50
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	1.1

## 2.3 Aspect



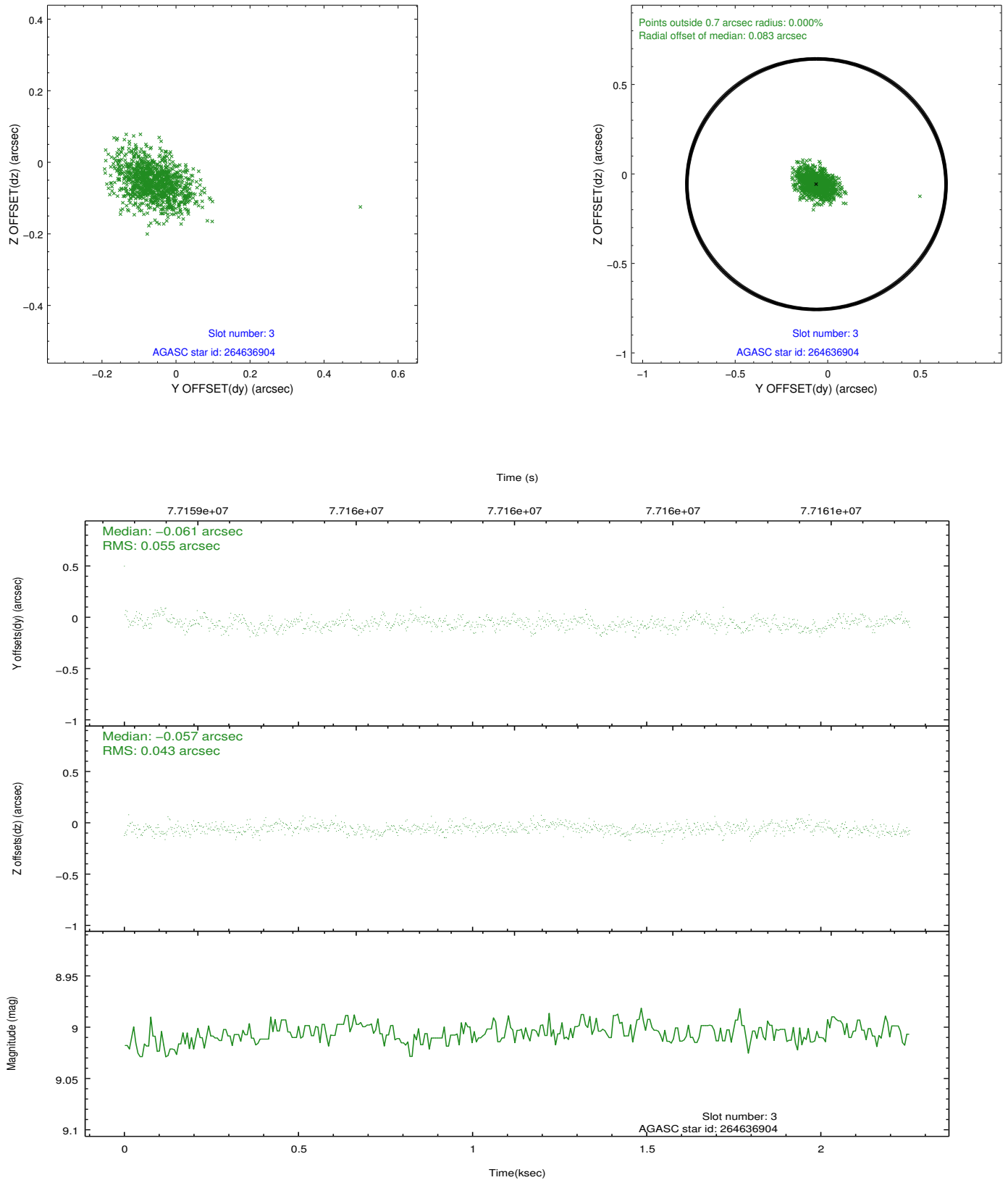


### Slot Statistics

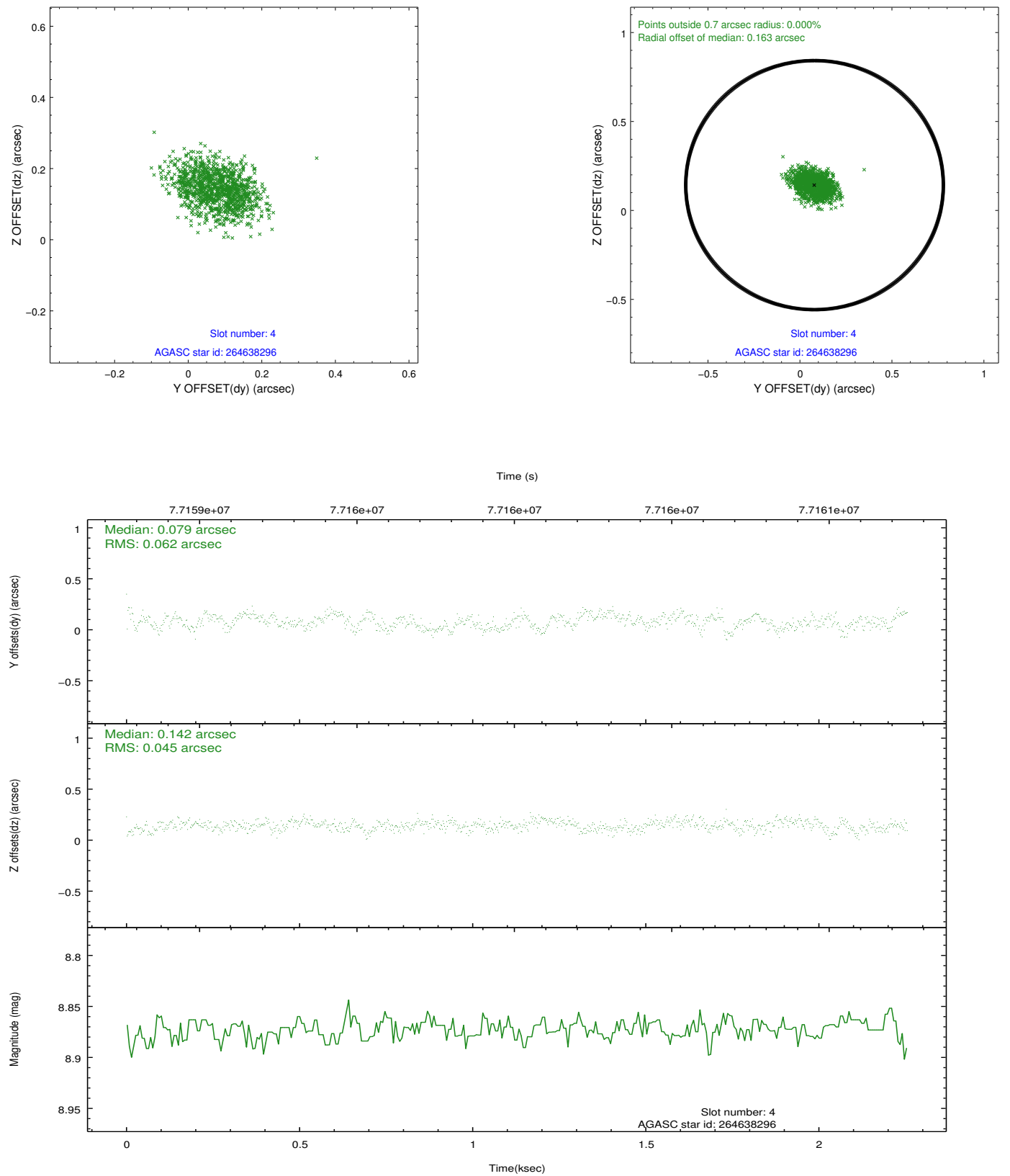
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	551	-0.040	0.005	0.007	0.011	0.000000	0.000000	-753.78	-1726.56
1	FID	ACIS-S-4	7.20	551	-0.006	0.018	0.005	0.010	0.000000	0.000000	2158.22	178.98
2	FID	ACIS-S-5	7.24	551	0.014	-0.014	0.006	0.010	0.000000	0.000000	-1802.86	175.88
3	GUIDE	264636904	9.01	1101	-0.061	-0.057	0.073	0.121	220.998351	27.490347	-424.81	86.97
4	GUIDE	264638296	8.87	1101	0.079	0.142	0.082	0.132	220.848978	26.656462	1907.88	2036.40
5	GUIDE	264513352	9.42	1101	-0.023	-0.025	0.076	0.122	220.202369	27.481672	1510.01	-1562.40
6	GUIDE	264504680	9.35	1101	0.071	-0.024	0.093	0.151	220.145400	27.400174	1840.31	-1465.99
7	GUIDE	264900360	9.48	1100	-0.061	-0.038	0.101	0.155	220.409593	27.788824	283.25	-1959.13

## 2.4 Star Slots

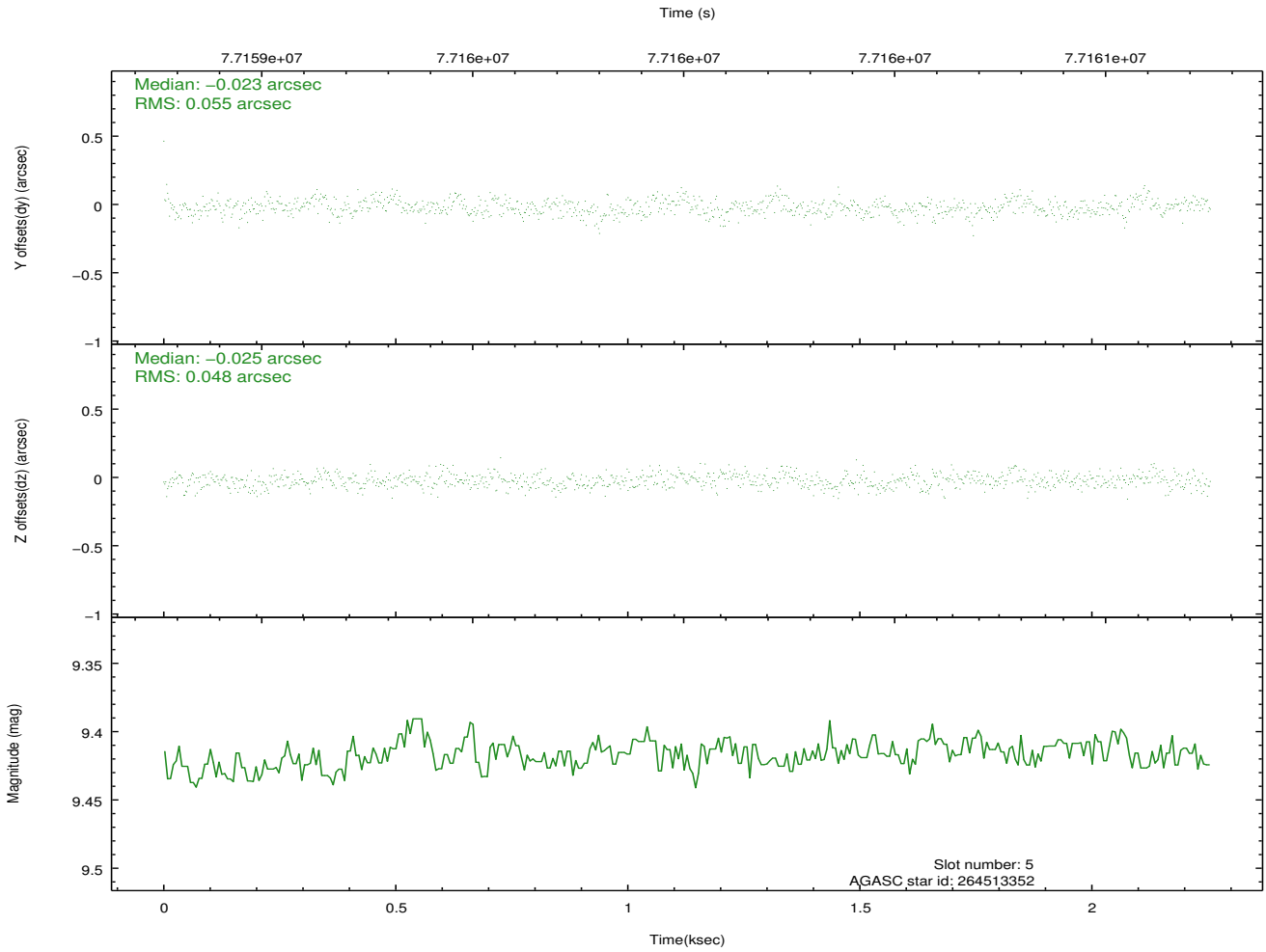
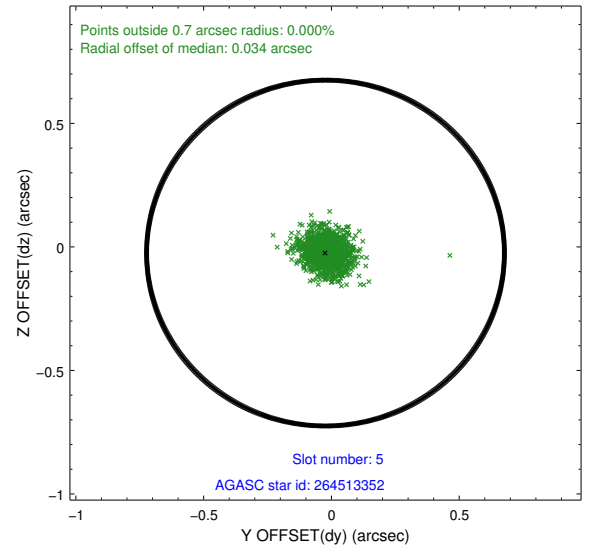
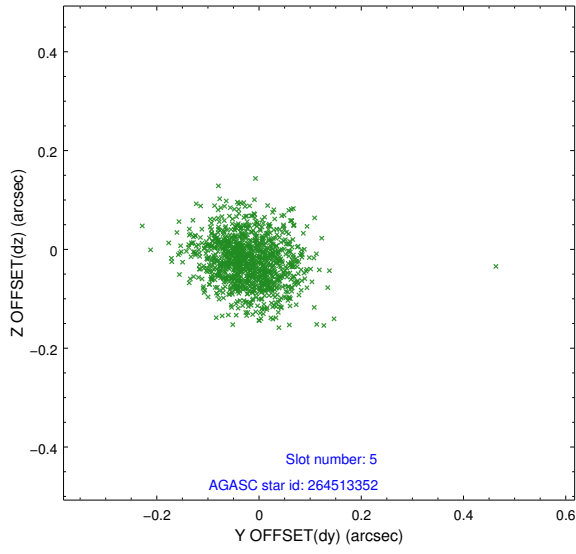
### 2.4.1 Slot 3



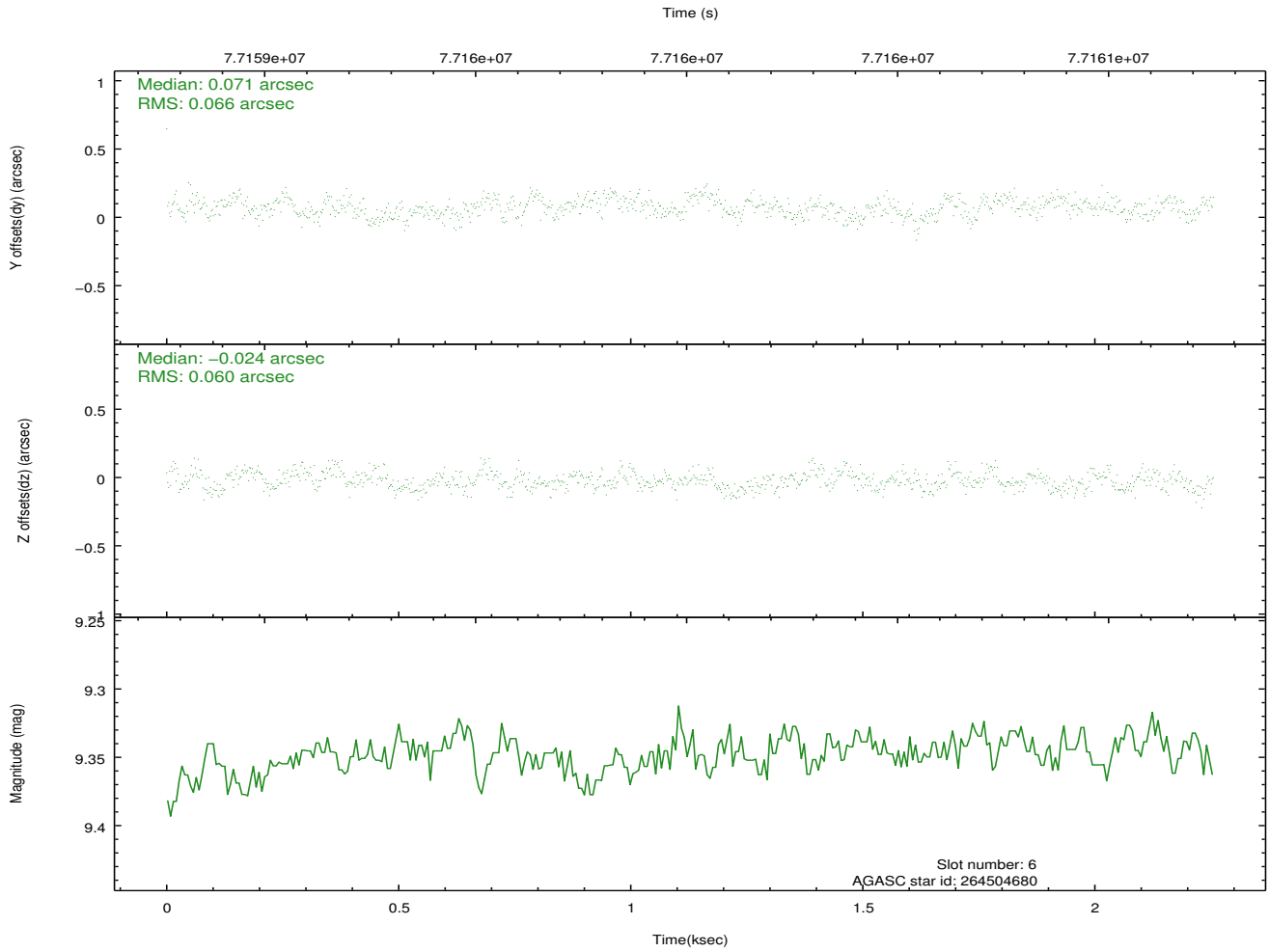
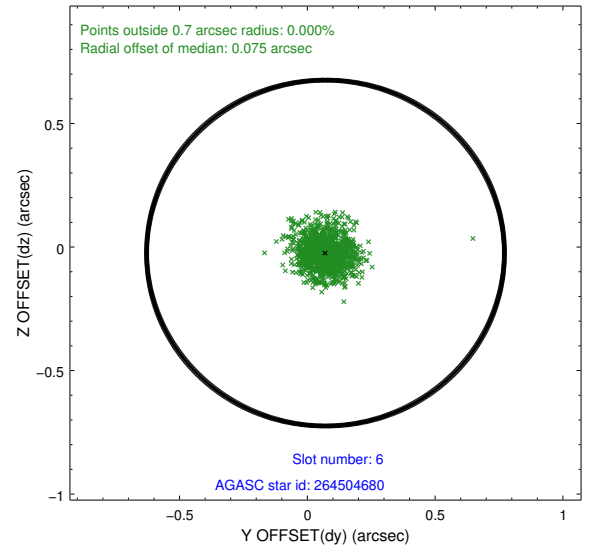
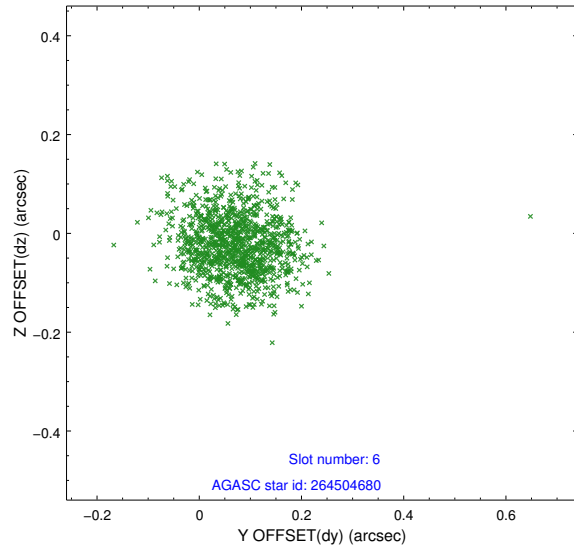
## 2.4.2 Slot 4



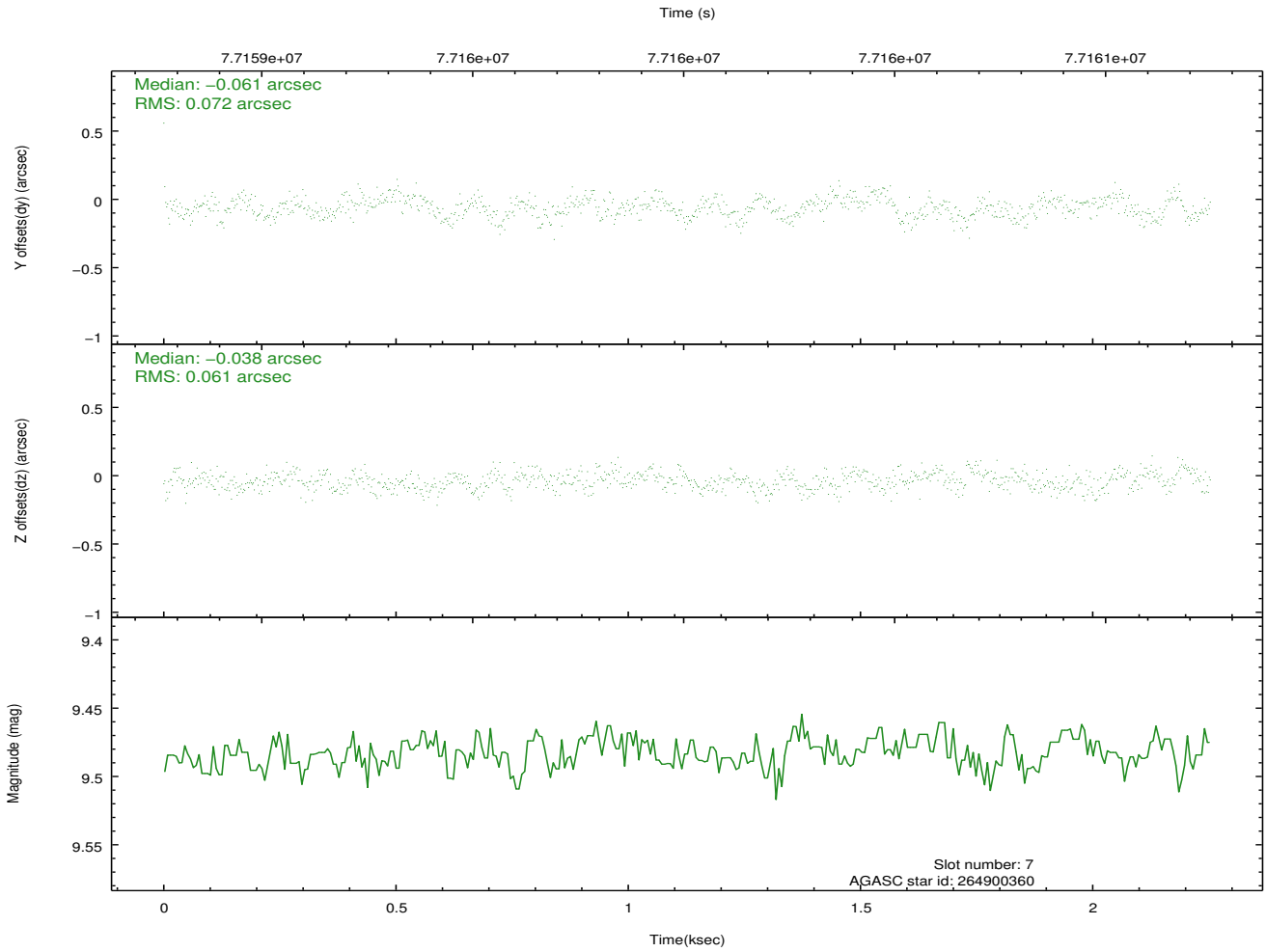
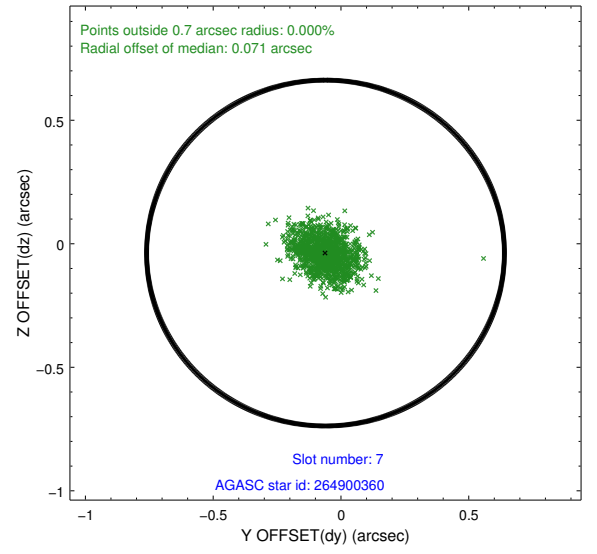
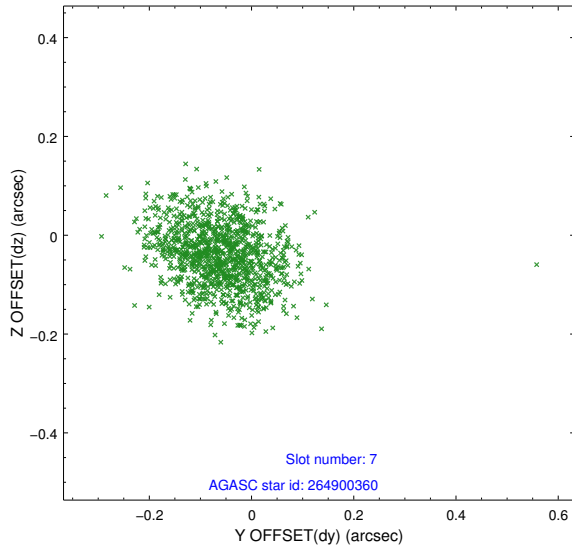
### 2.4.3 Slot 5



## 2.4.4 Slot 6

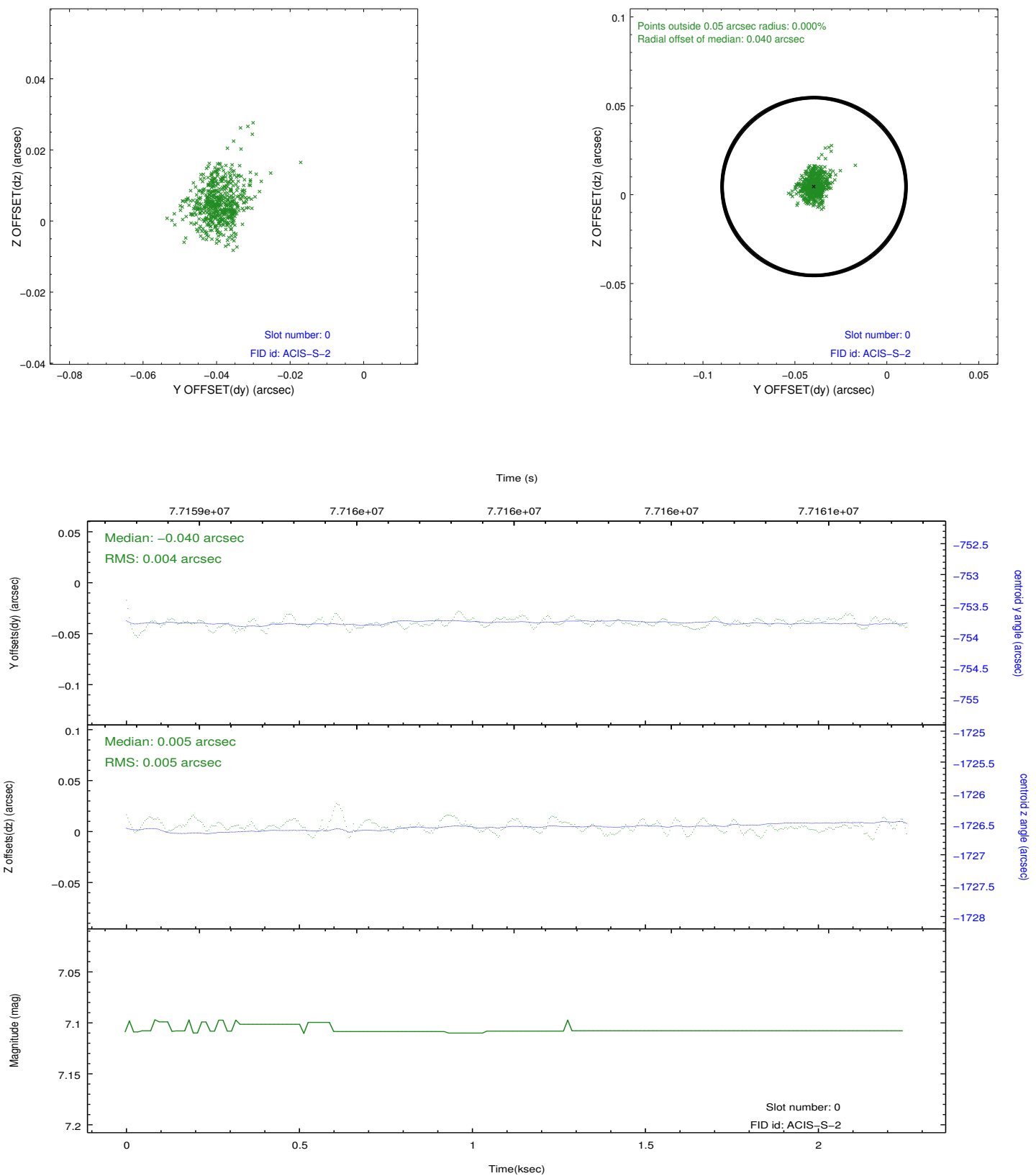


## 2.4.5 Slot 7

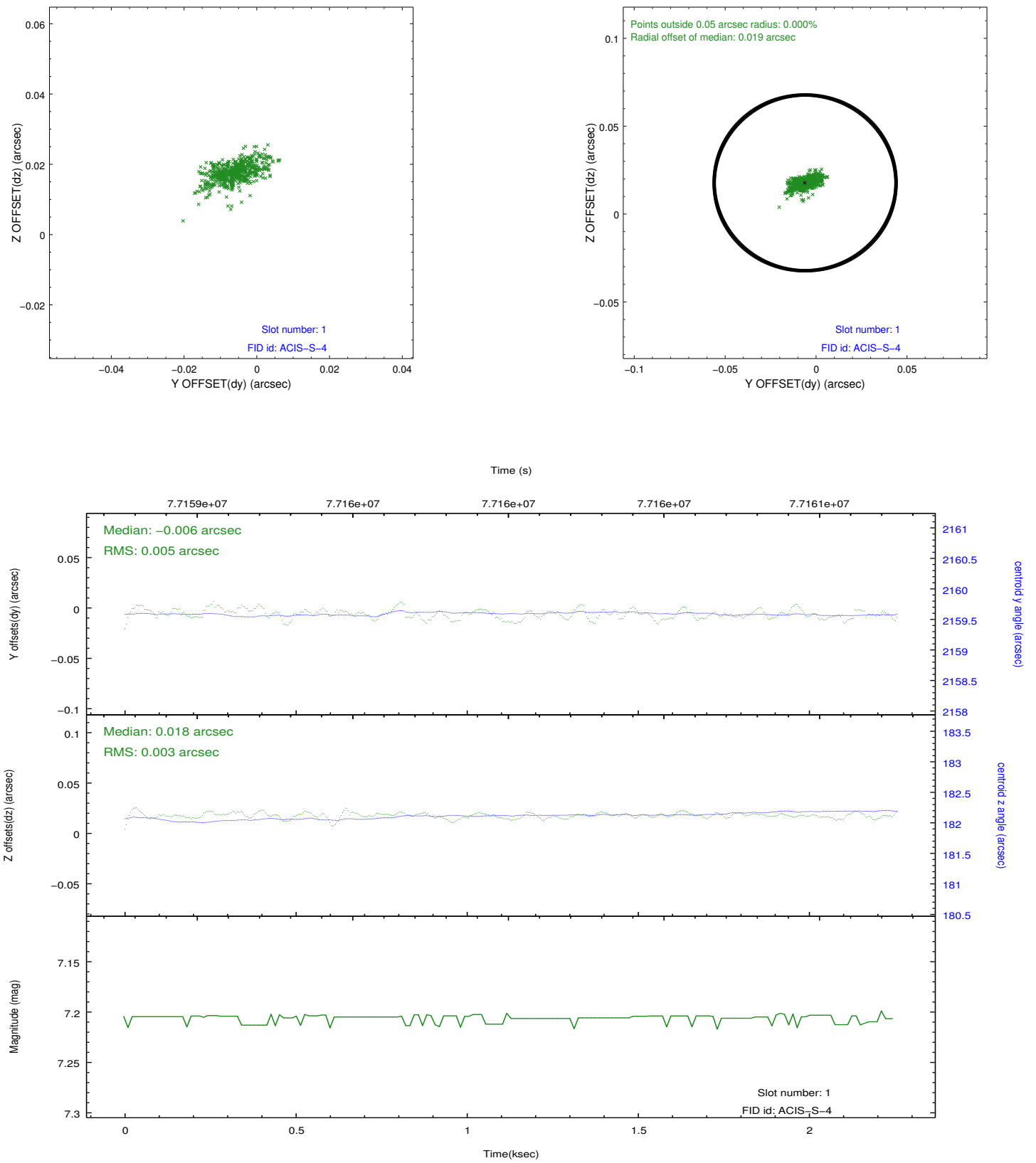


## 2.5 FID Slots

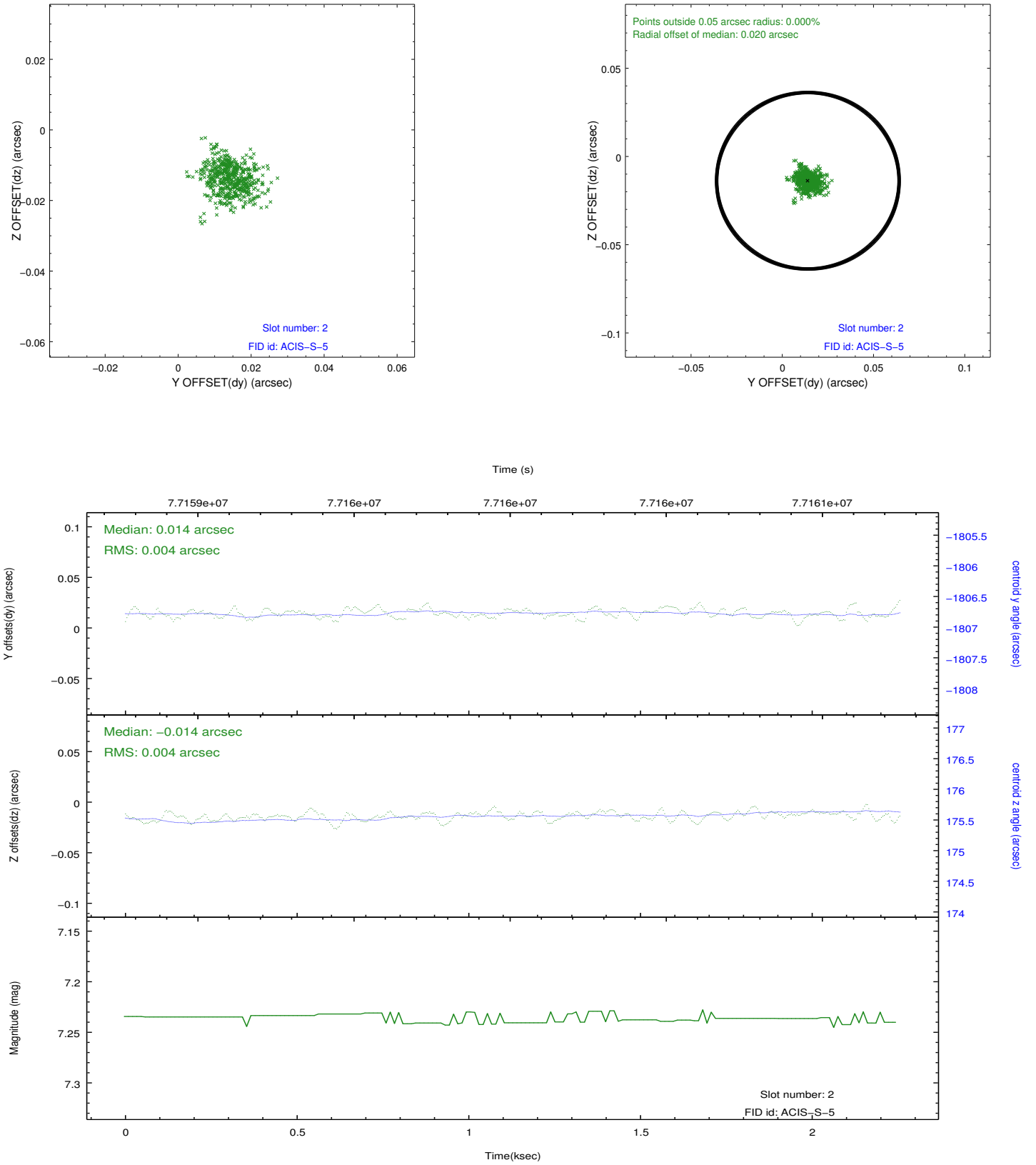
### 2.5.1 Slot 0



## 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)	2012.08.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.252

### A.2 Comments