

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 12848 - L2 Version 2  
Chandra X-Ray Center

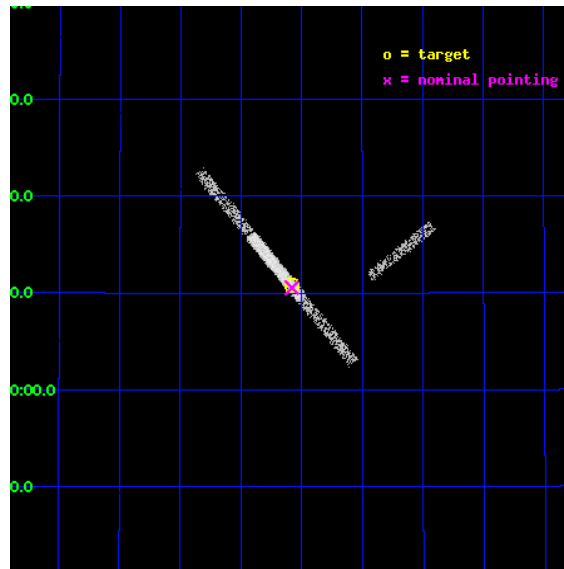
L2 Processing Date : Jul 5 2012

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# 1 Front

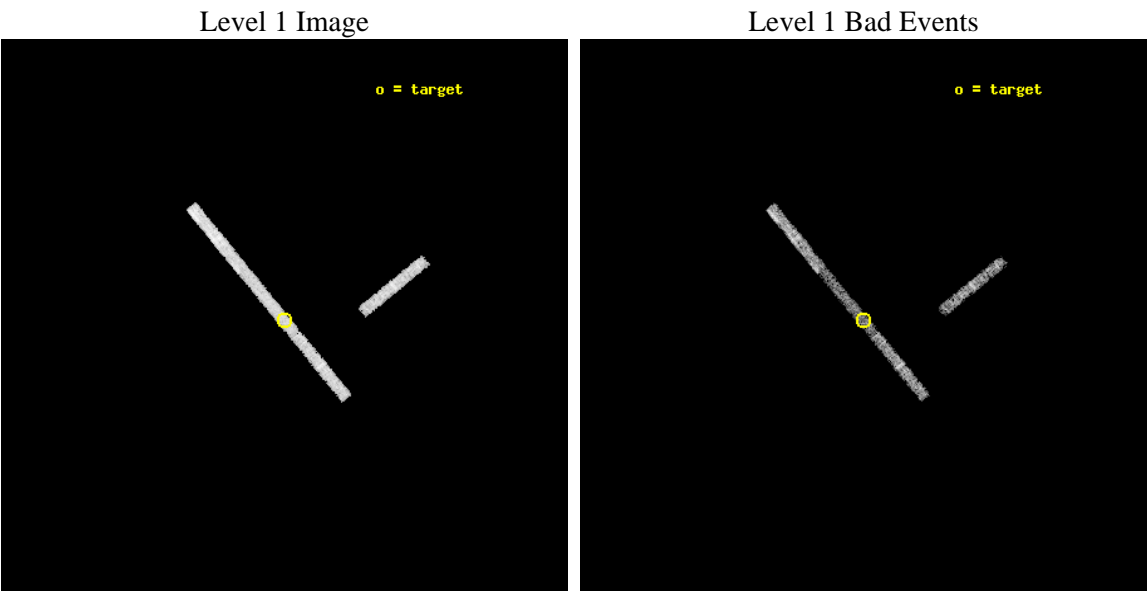
seq_num	702481	Sequence number
obs_id	12848	Observation id
title	X-ray properties of the Youngest Radio Sources	Proposal title
observer	Dr. Aneta Siemiginowska	Principal investigator
object	4C31.04	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	19.895833	Observer's specified target RA [deg]
dec_targ	32.180556	Observer's specified target Dec [deg]
ra_nom	19.895056920442	Nominal RA [deg]
dec_nom	32.175787520354	Nominal Dec [deg]
roll_nom	230.63531048983	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5066.3852757215	Sum of GTIs [s]
livetime	4742.0303965945	Livetime [s]
ontime2	5066.2621557117	Sum of GTIs [s]
ontime6	5066.3442357183	Sum of GTIs [s]
ontime7	5066.3852757215	Sum of GTIs [s]
ontime8	5066.303195715	Sum of GTIs [s]
l2events	4508	Number of level 2 events



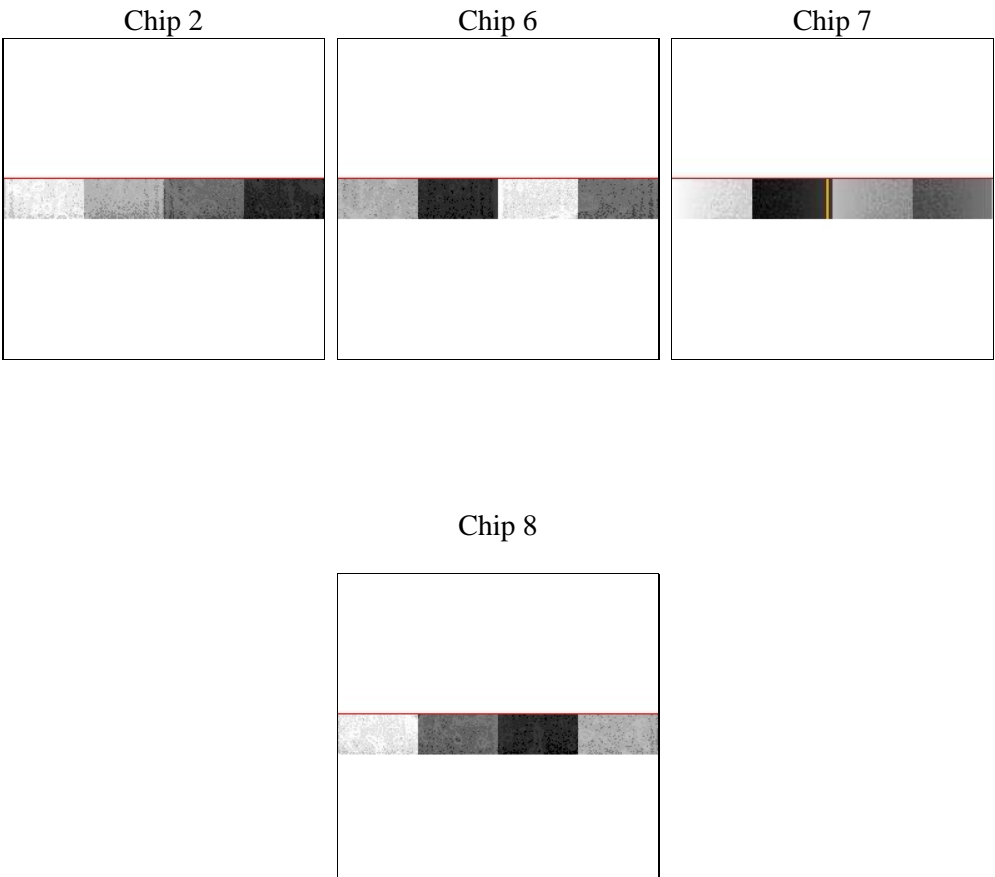
# 2 OBI

## 2.1 OBI

### 2.1.1 Images



### 2.1.2 Bias



Chip 8



A plot with a horizontal axis and a vertical axis. The horizontal axis has a red line. The vertical axis has a red line. The plot shows a horizontal band of gray and black pixels.

### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5066.3852757215	Sum of GTIs [s]
caldsver	4.5.0	&#160	ontime2	5066.2621557117	Sum of GTIs [s]
date	2012-07-05T22:07:39	Date and time of file creation	ontime6	5066.3442357183	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	5066.3852757215	Sum of GTIs [s]
			ontime8	5066.303195715	Sum of GTIs [s]
			l1events	28872	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 6	ccd 7	ccd 8
level 1 events	5933	6555	6360	10024
rejected events	5267	5798	3399	7812
rejected %	88%	88%	53%	77%

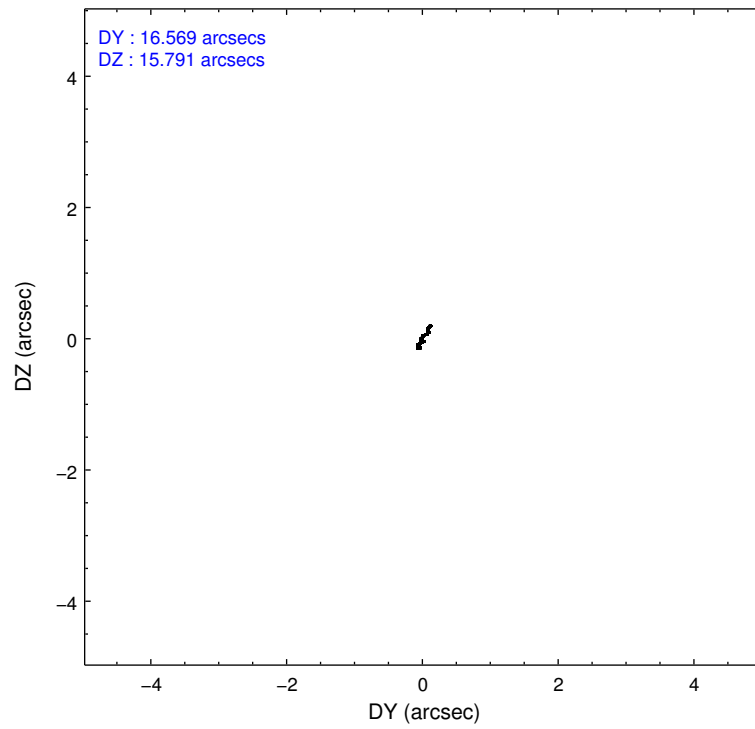
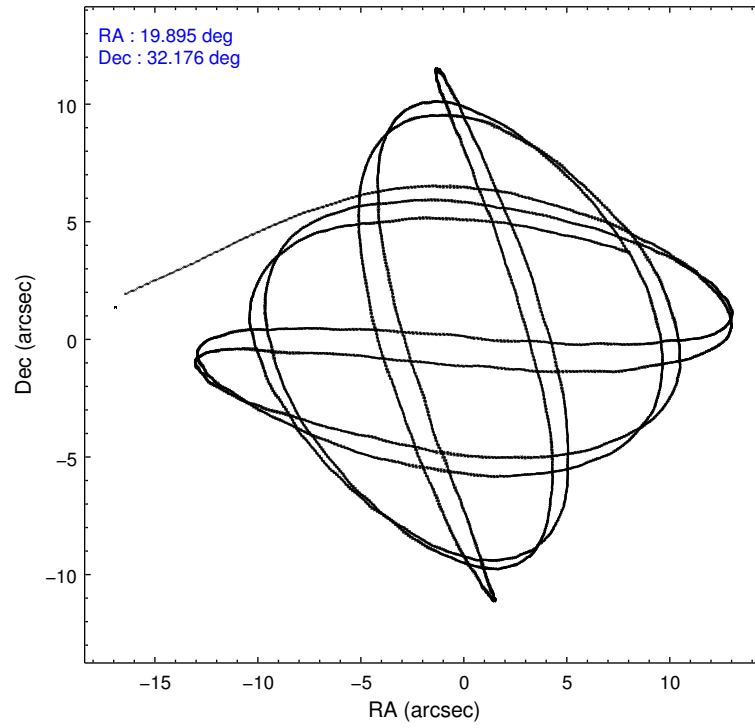
	ccd 2	ccd 6	ccd 7	ccd 8
grade 0 events	195	218	317	558
	3%	3%	4%	5%
grade 1 events	1	3	7	2
	0%	0%	0%	0%
grade 2 events	112	154	580	413
	1%	2%	9%	4%
grade 3 events	122	135	393	296
	2%	2%	6%	2%
grade 4 events	136	122	356	277
	2%	1%	5%	2%
grade 5 events	176	238	650	337
	2%	3%	10%	3%
grade 6 events	102	129	1318	668
	1%	1%	20%	6%
grade 7 events	5089	5556	2739	7473
	85%	84%	43%	74%

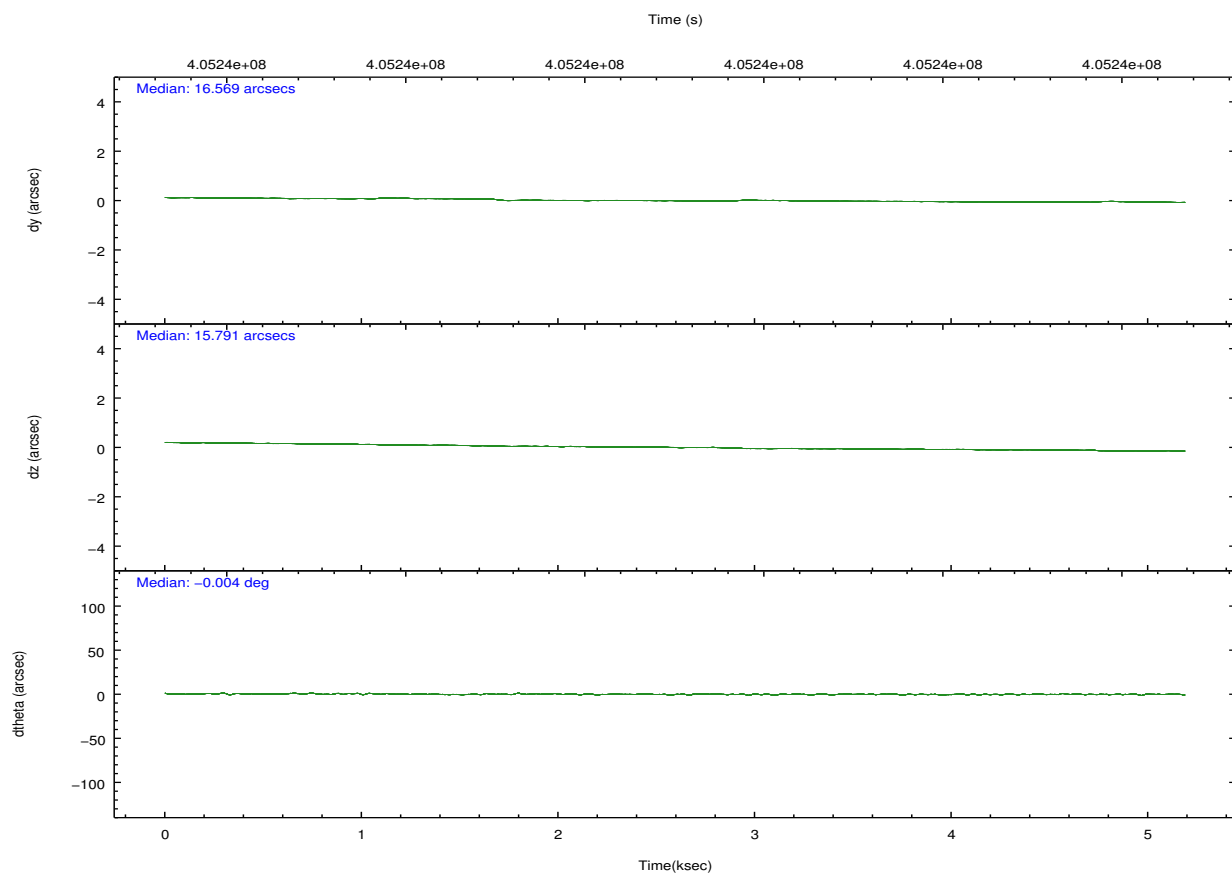
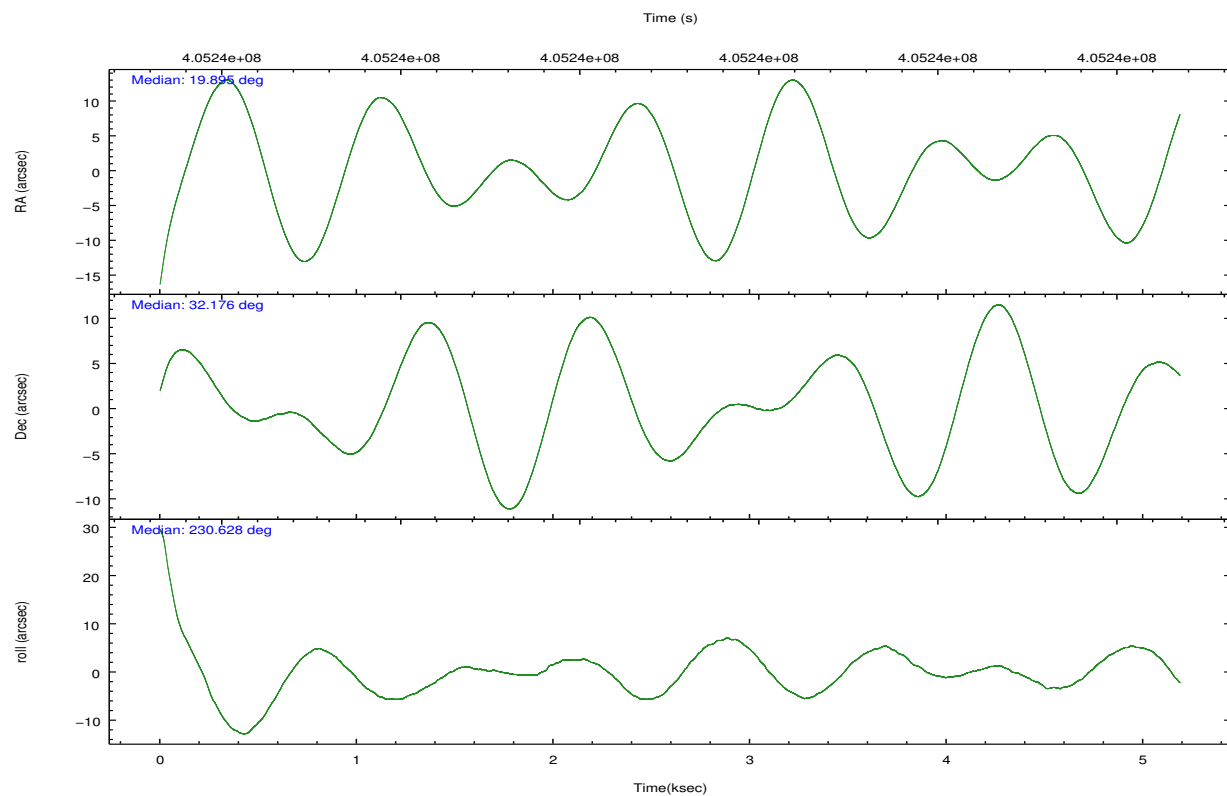


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2678	ACIS-2678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	19.899891	19.89505692044183	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	32.202794	32.17578752035423	Subarray start row	449	449
[deg] Pointing Roll	230.476078	230.635310489828	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	0.6
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	405235101.184000	405233975.81512			
Observation start date	2010-11-04T05:17:15	2010-11-04T04:59:35			
[s] Observation end time (MET)	405240101.184000	405241062.66549			
Observation end date	2010-11-04T06:40:35	2010-11-04T06:57:42			
Read mode	TIMED	TIMED			

## 2.3 Aspect



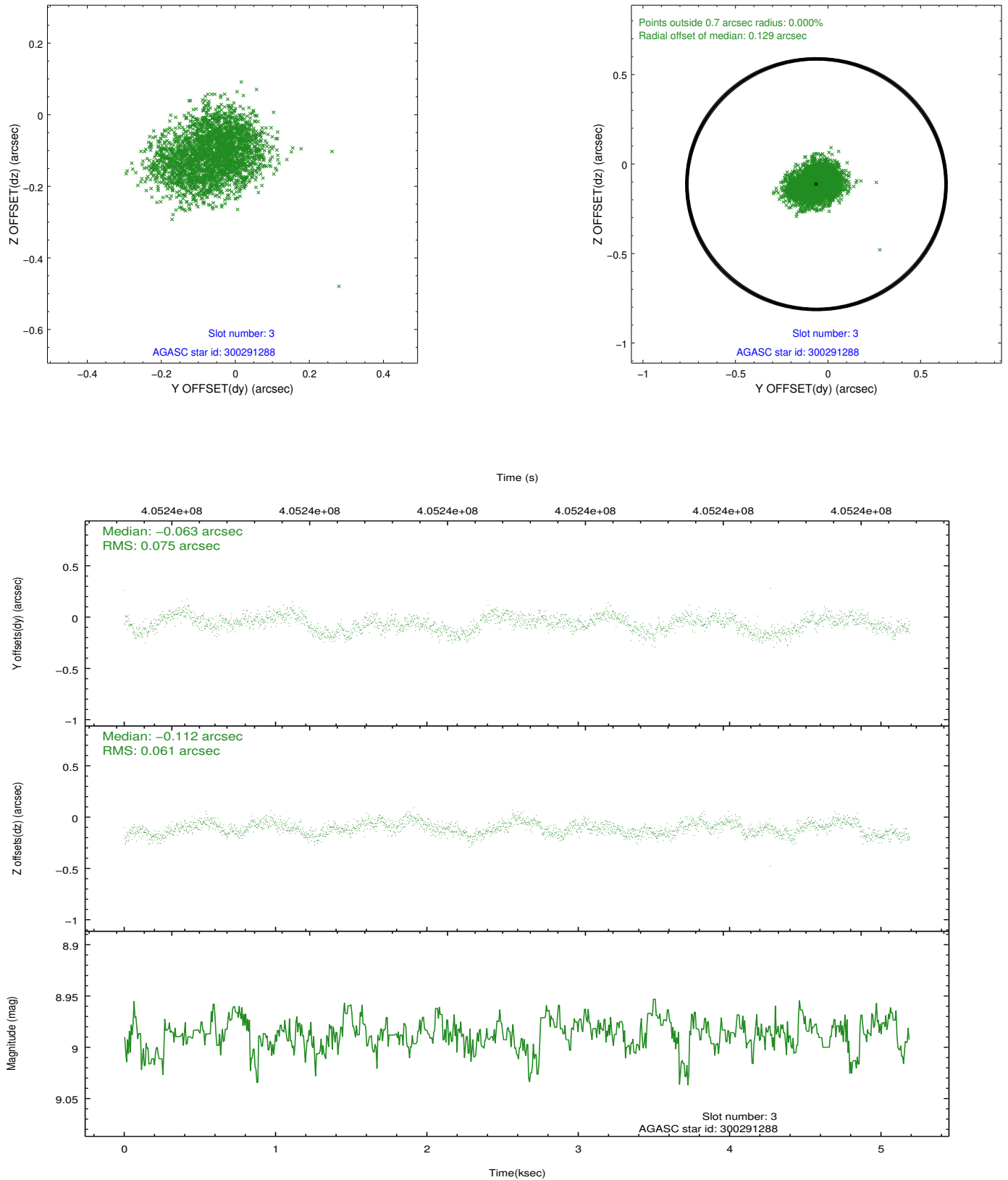


### Slot Statistics

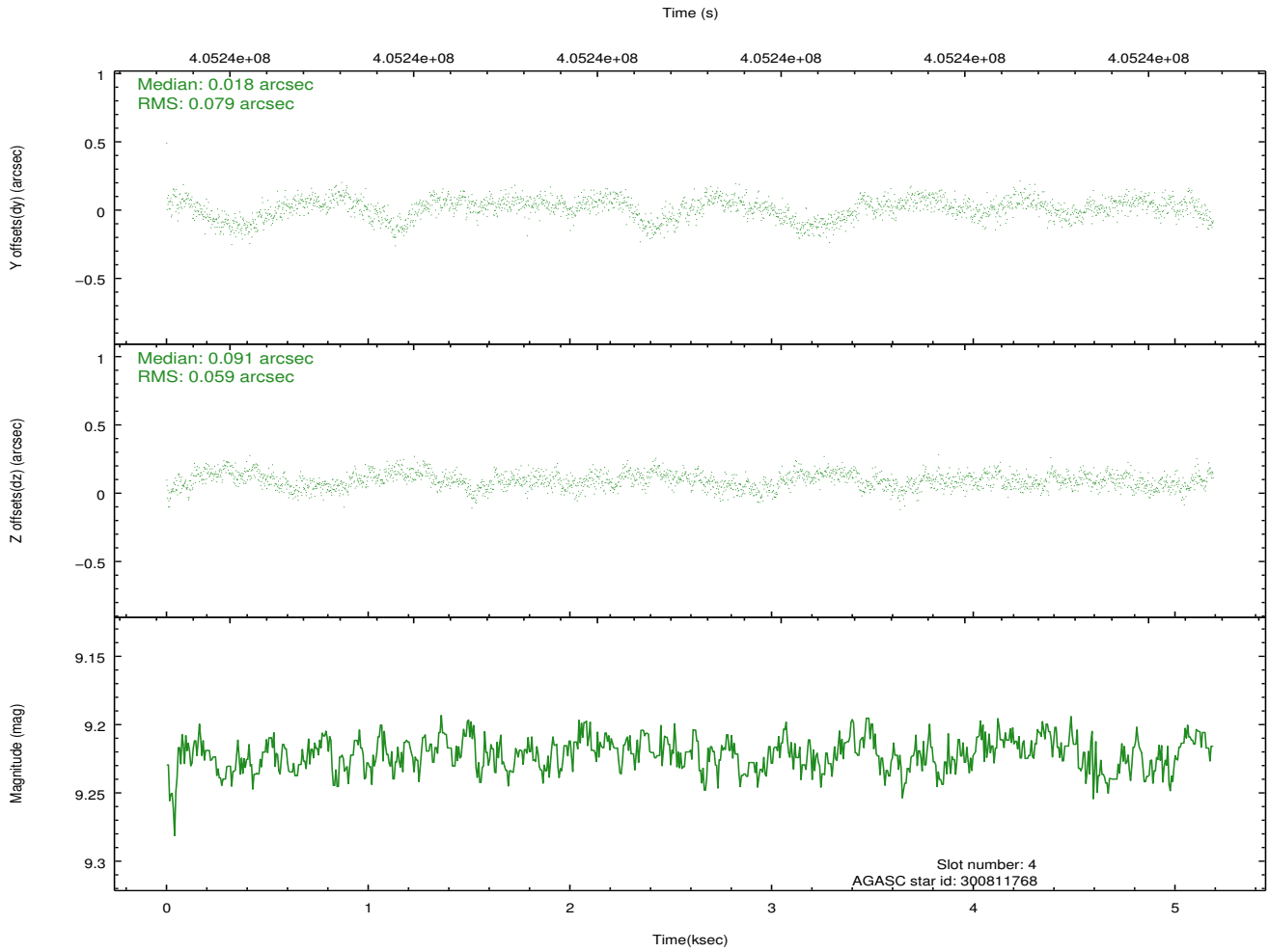
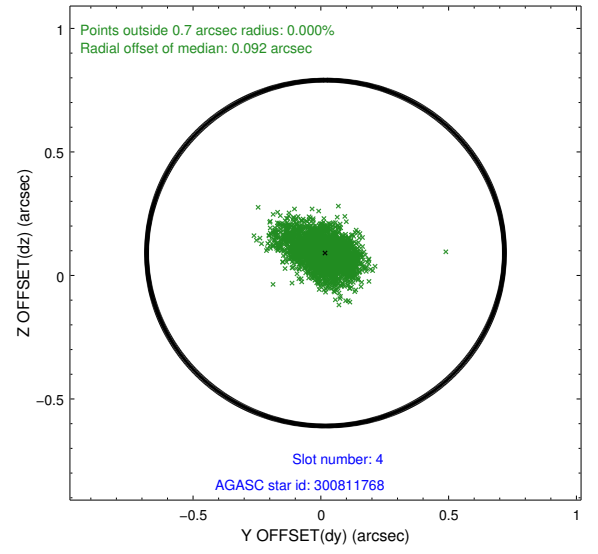
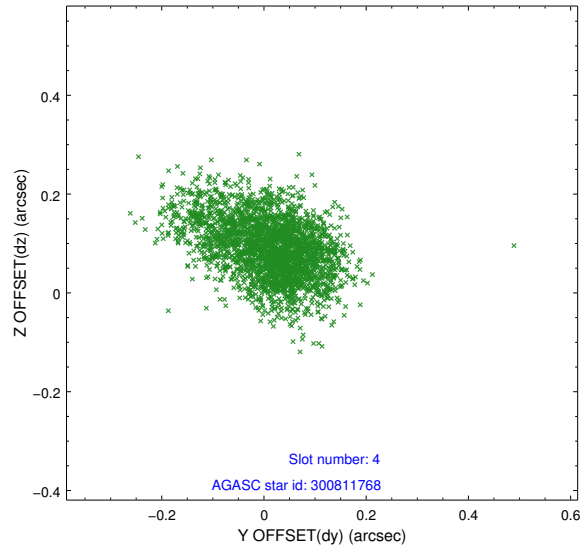
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.93	1266	-0.087	0.004	0.007	0.011	0.000000	0.000000	-769.67	-1737.15
1	FID	ACIS-S-4	7.01	1266	0.157	0.041	0.005	0.009	0.000000	0.000000	2143.30	170.18
2	FID	ACIS-S-5	7.04	1266	-0.101	-0.036	0.006	0.010	0.000000	0.000000	-1821.04	165.08
3	GUIDE	300291288	8.99	2530	-0.063	-0.112	0.105	0.159	19.943634	31.452108	1999.46	1823.84
4	GUIDE	300811768	9.22	2530	0.018	0.091	0.102	0.177	19.362803	32.179824	1103.50	-1211.13
5	GUIDE	300815024	8.76	2528	0.107	0.095	0.076	0.127	19.900003	32.294894	-255.29	-210.22
6	GUIDE	300816152	9.22	2530	0.068	0.089	0.101	0.159	19.800738	32.516688	-679.67	-951.29
7	GUIDE	300288808	8.31	2530	-0.115	-0.161	0.103	0.154	20.065225	31.559378	1464.12	1864.94

## 2.4 Star Slots

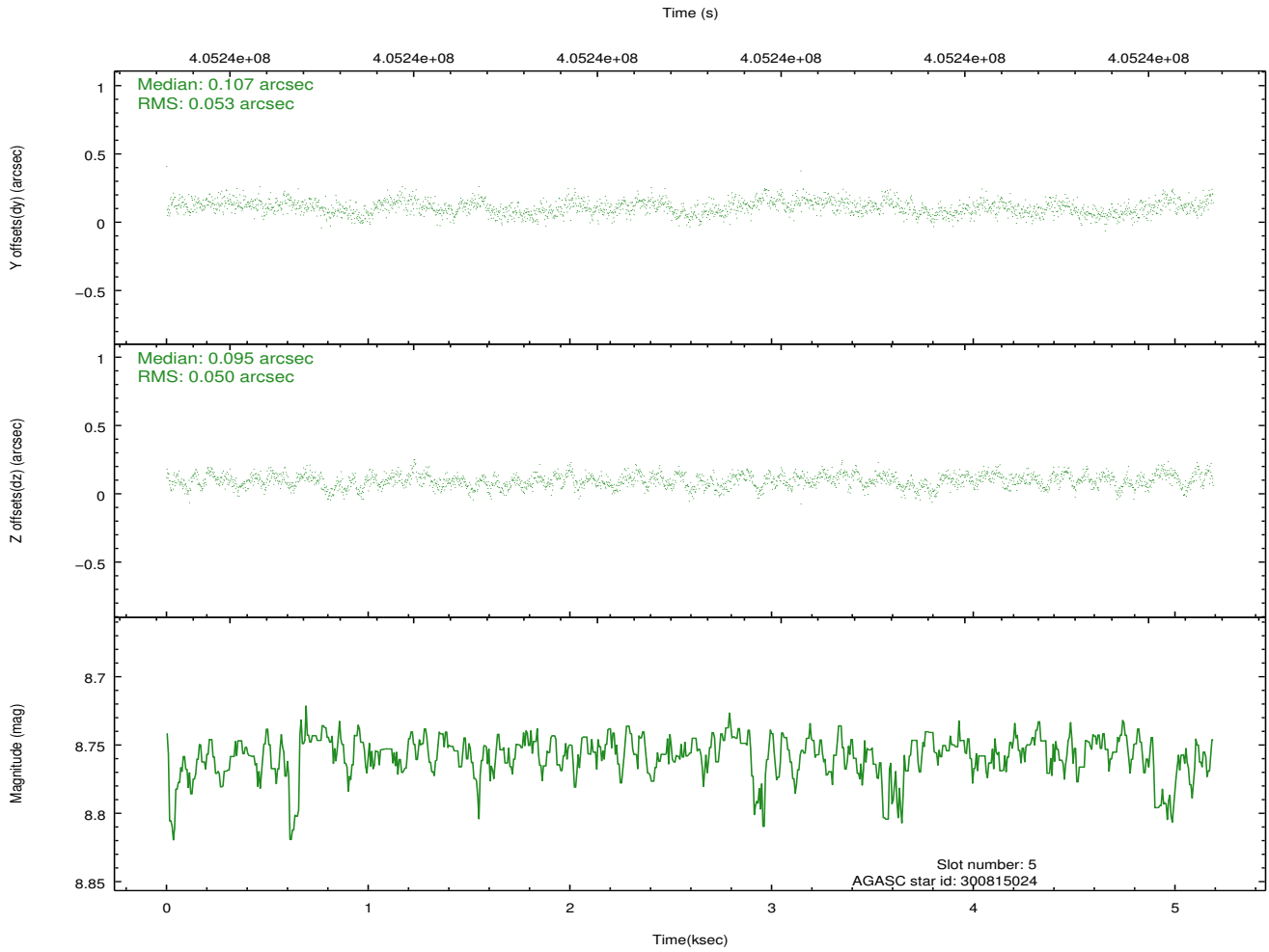
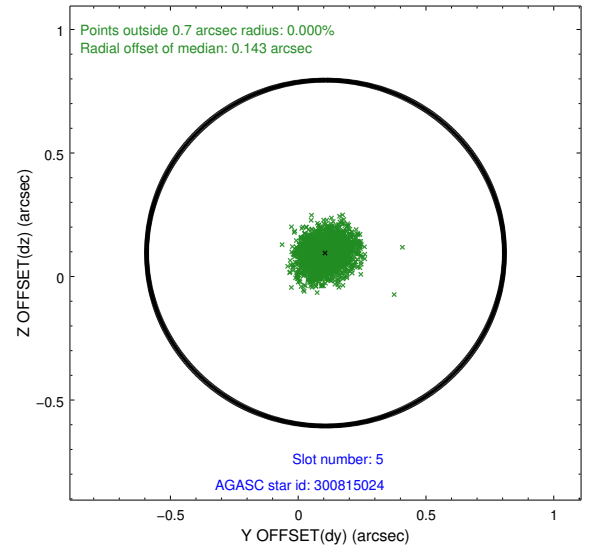
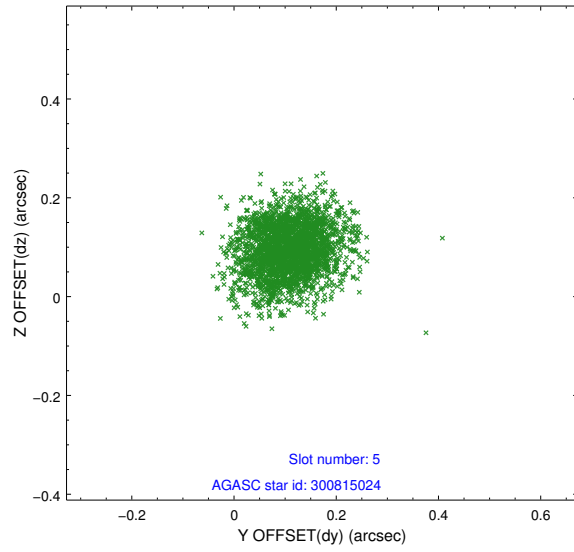
### 2.4.1 Slot 3



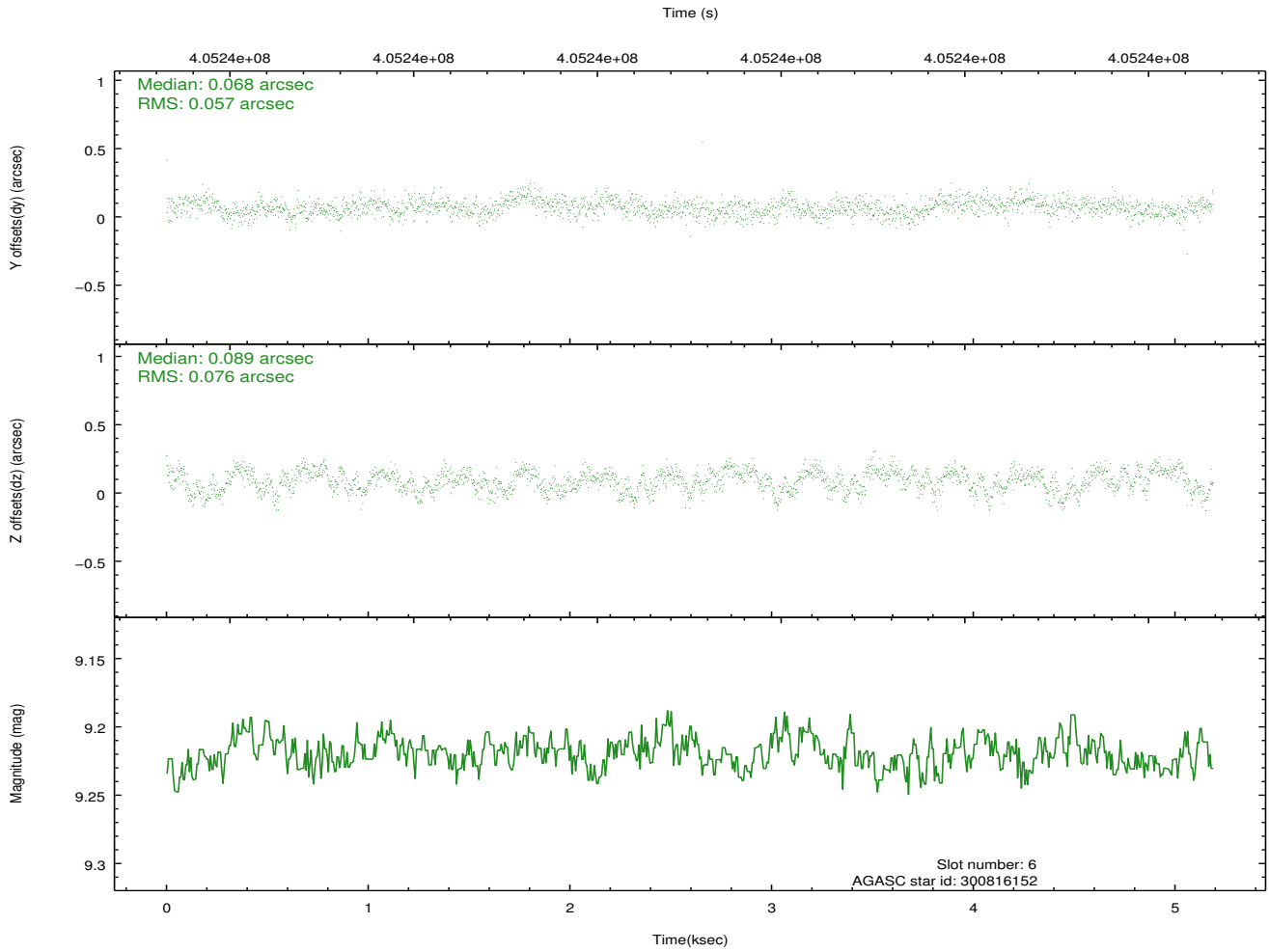
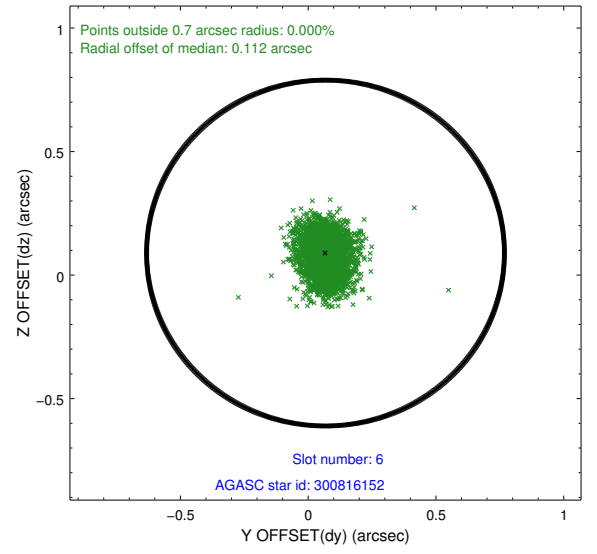
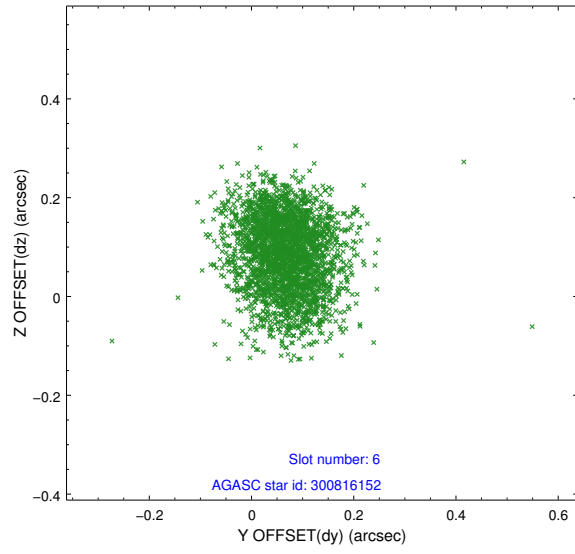
## 2.4.2 Slot 4



### 2.4.3 Slot 5

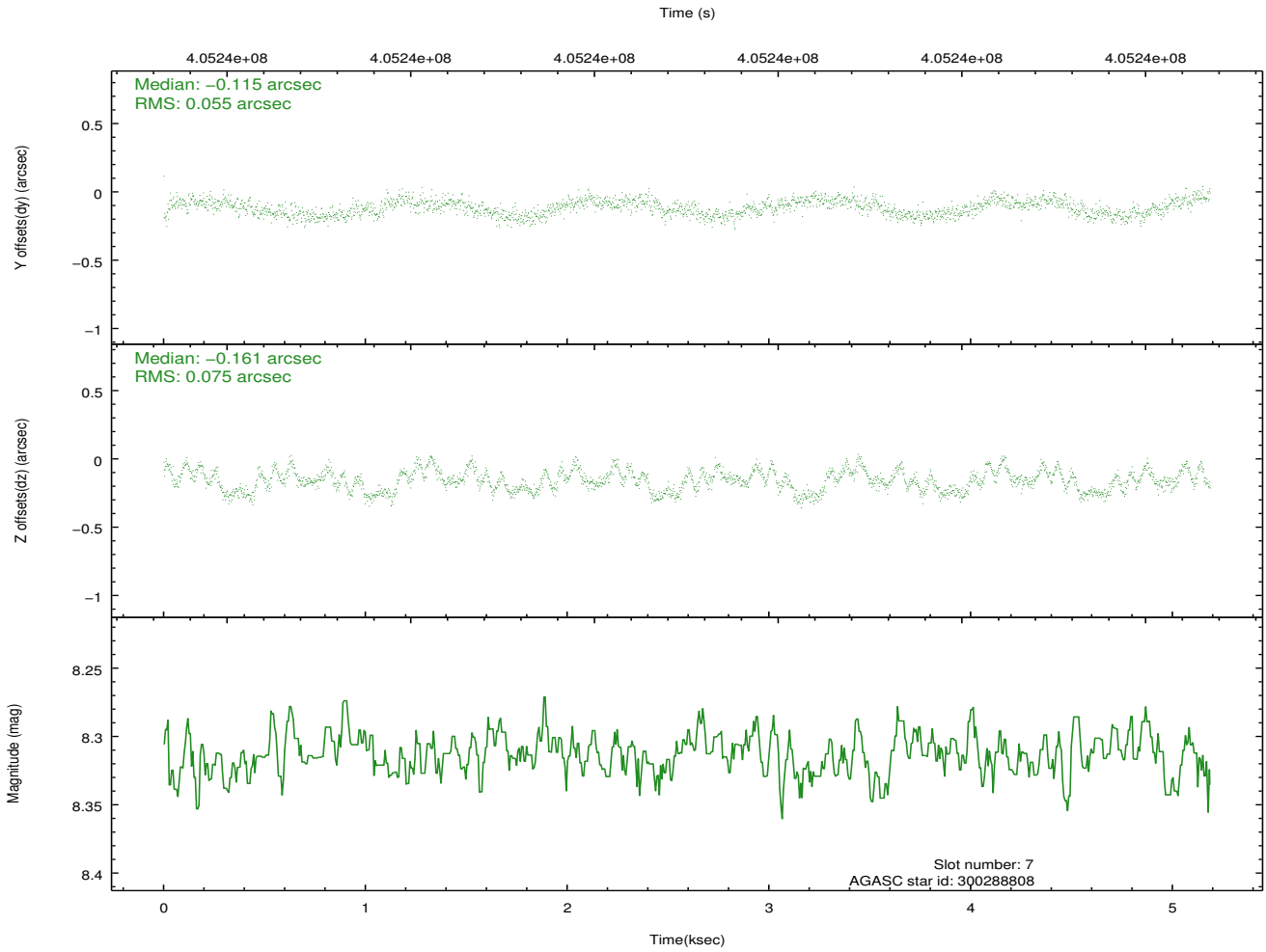
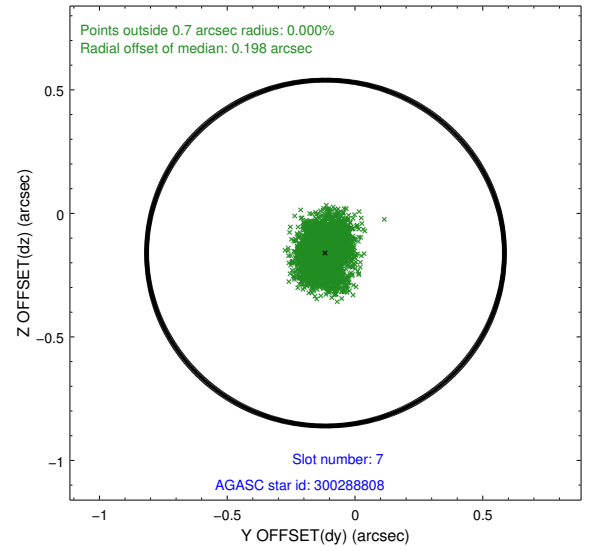
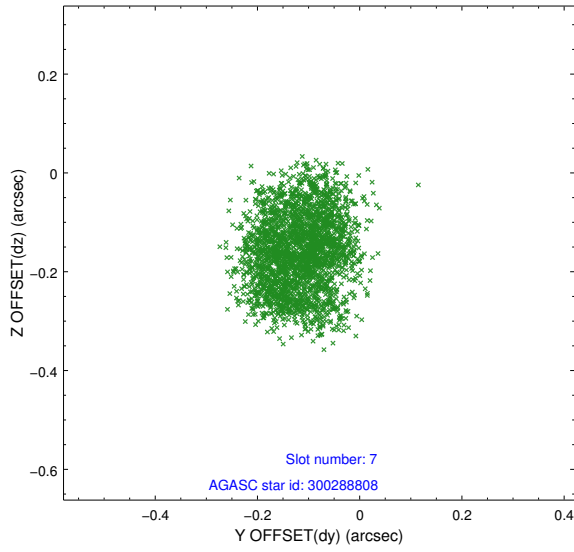


## 2.4.4 Slot 6



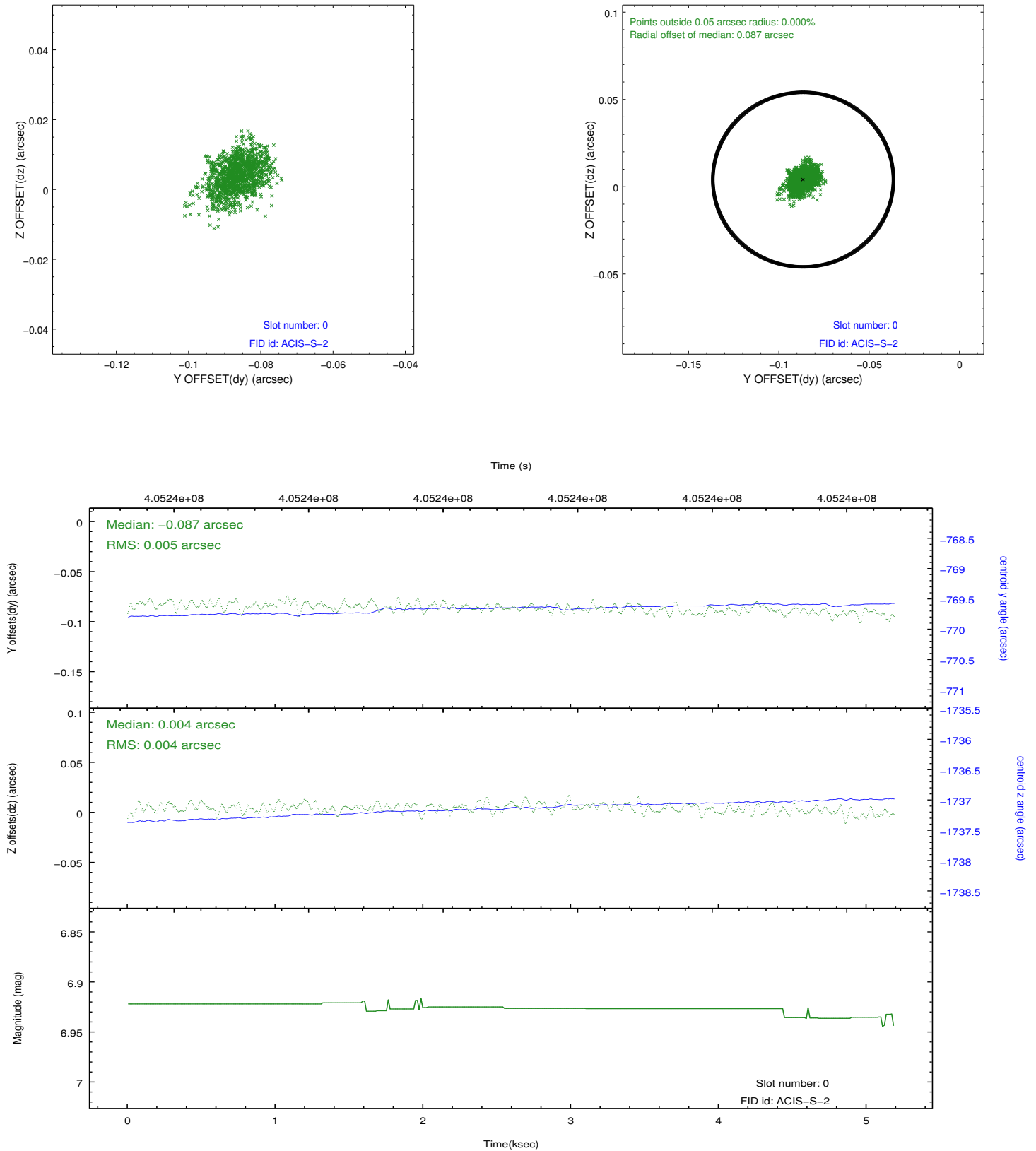


## 2.4.5 Slot 7

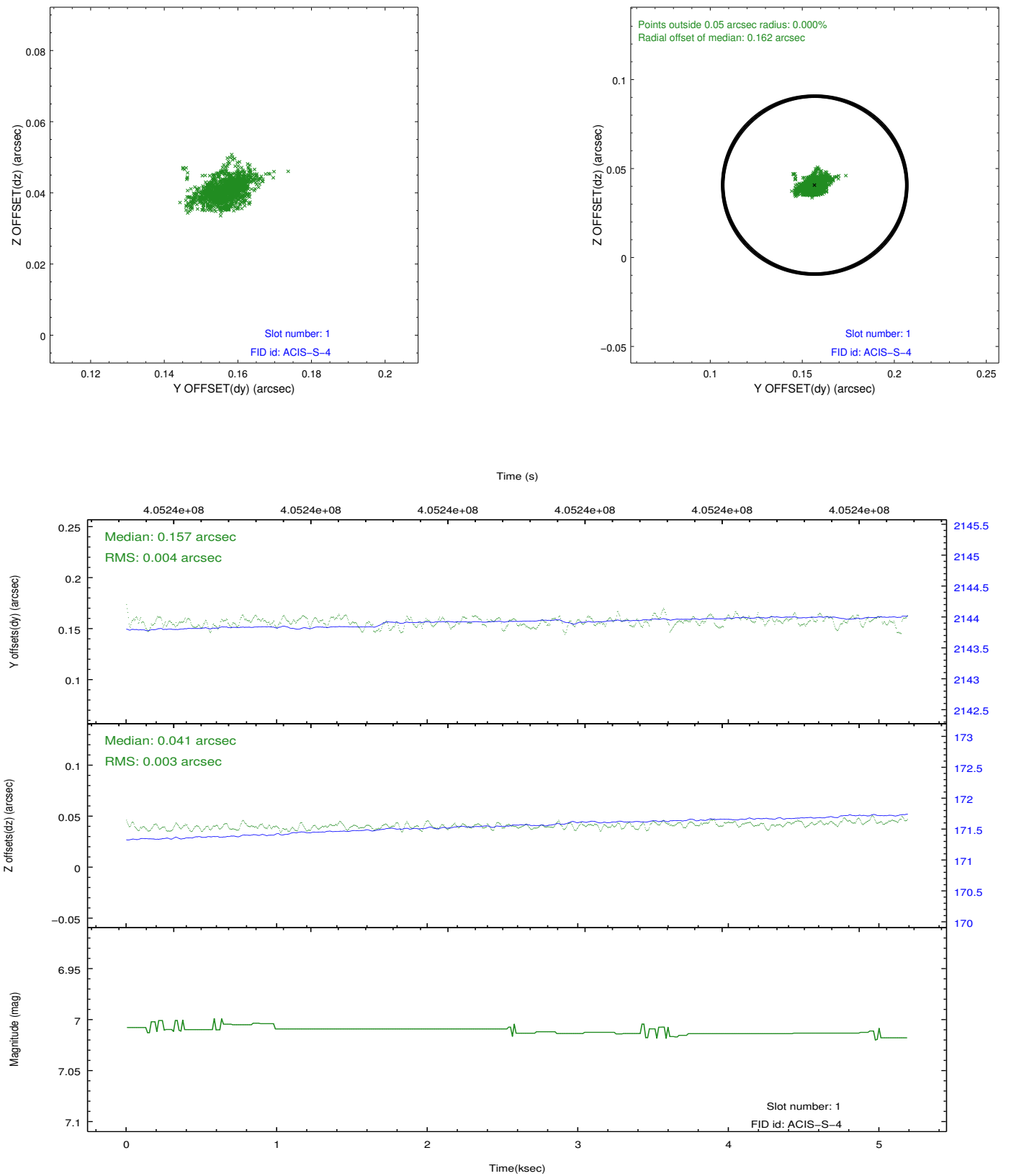


## 2.5 FID Slots

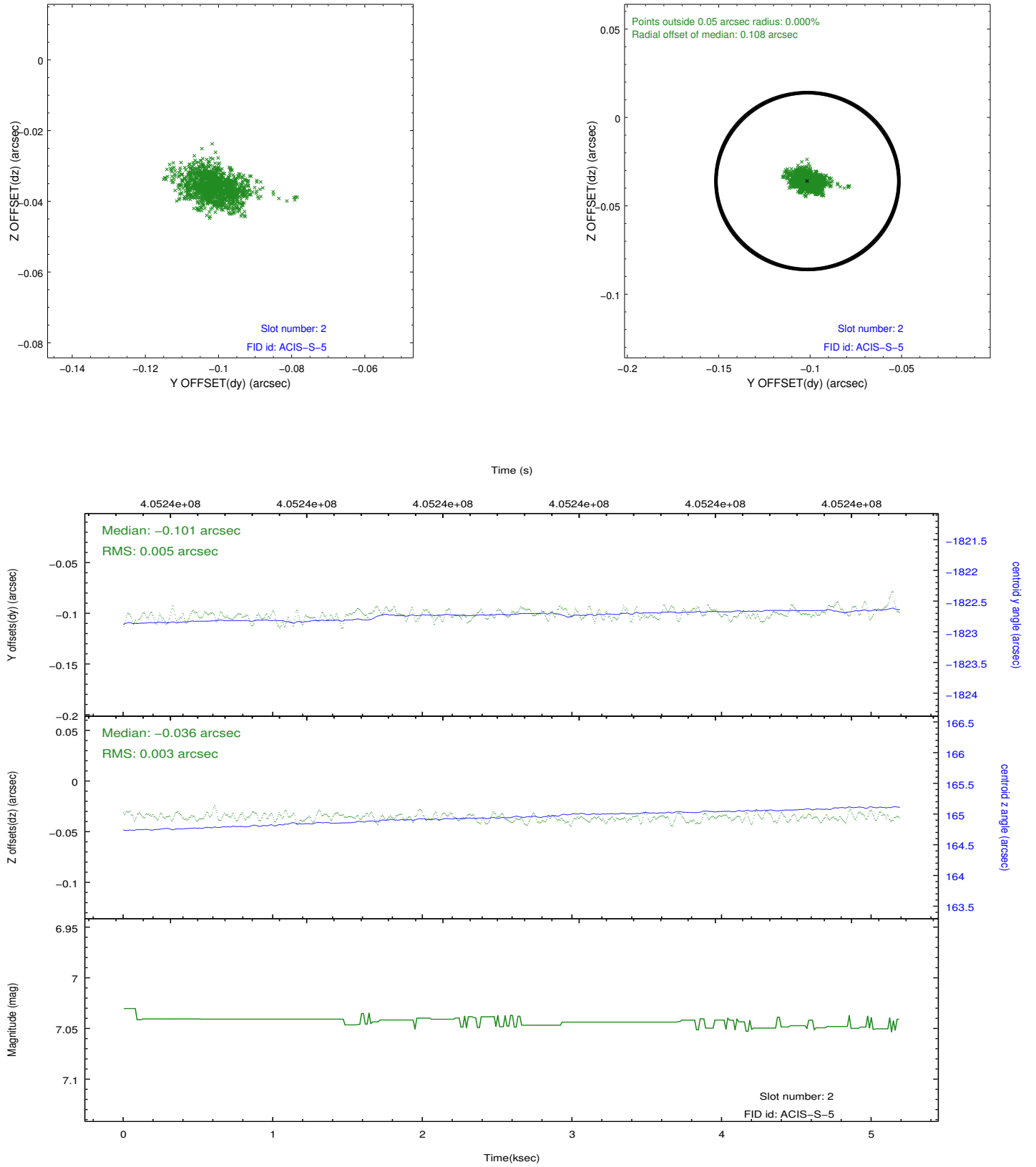
### 2.5.1 Slot 0



## 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)	2012.07.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0663852755427

### **A.2 Comments**