

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 14050 - L2 Version 1  
Chandra X-Ray Center

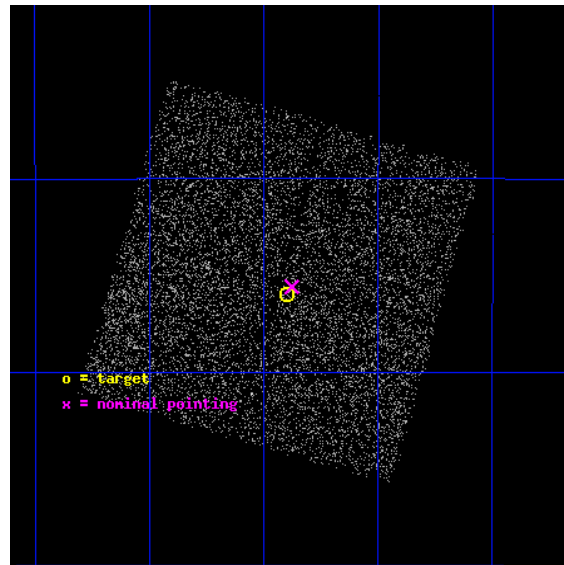
L2 Processing Date : Jun 7 2012

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# 1 Front

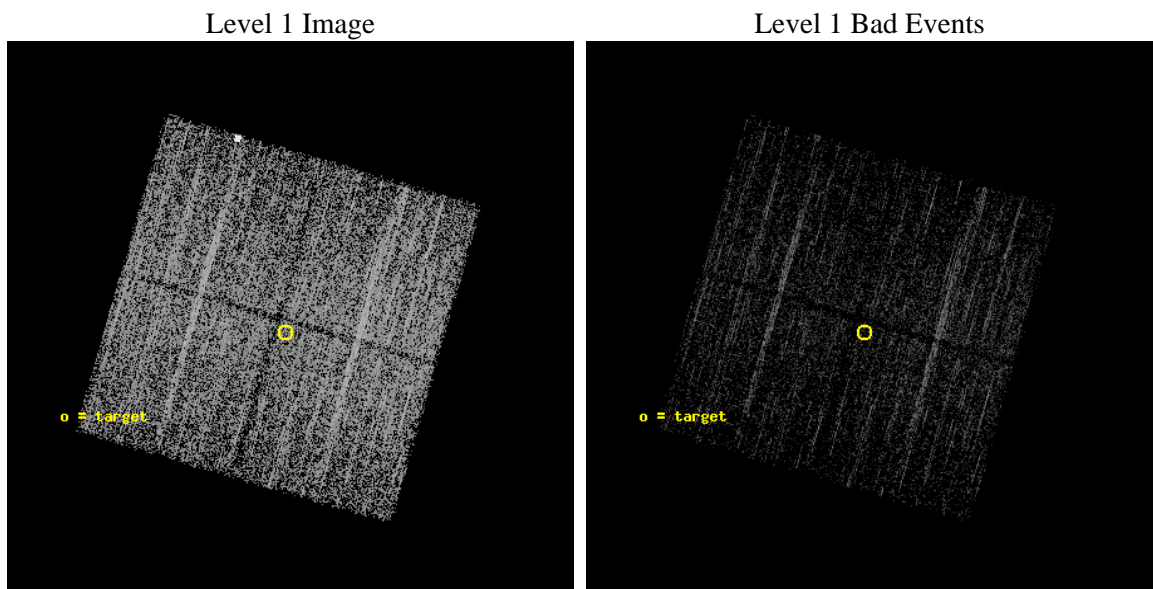
seq_num	901016	Sequence number
obs_id	14050	Observation id
title	BAT, Chandra, NuSTAR and The origin of the Cosmic X-ray Background	&#160
observer	Dr. Marco Ajello	Principal investigator
object	J2242.4-3705	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	340.6	Observer's specified target RA [deg]
dec_targ	-37.1	Observer's specified target Dec [deg]
ra_nom	340.59447917645	Nominal RA [deg]
dec_nom	-37.093223927172	Nominal Dec [deg]
roll_nom	106.06521888377	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5089.5545727015	Sum of GTIs [s]
livetime	5023.0557953335	Livetime [s]
ontime0	5089.4314526916	Sum of GTIs [s]
ontime1	5089.4724926949	Sum of GTIs [s]
ontime2	5089.5135326982	Sum of GTIs [s]
ontime3	5089.5545727015	Sum of GTIs [s]
l2events	11029	Number of level 2 events



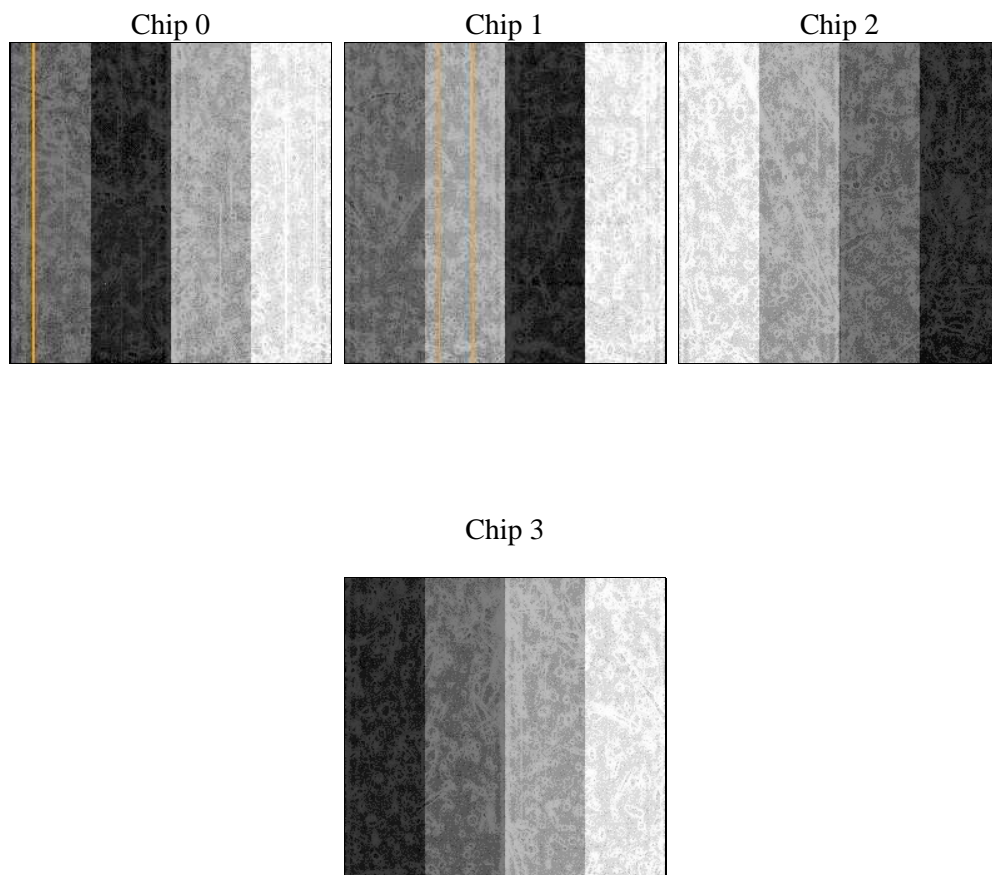
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5089.5545727015	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime0	5089.4314526916	Sum of GTIs [s]
date	2012-06-07T17:26:37	Date and time of file creation	ontime1	5089.4724926949	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5089.5135326982	Sum of GTIs [s]
			ontime3	5089.5545727015	Sum of GTIs [s]
			l1events	106531	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	26524	25197	28936	25874
rejected events	21784	21589	25727	22752
rejected %	82%	85%	88%	87%

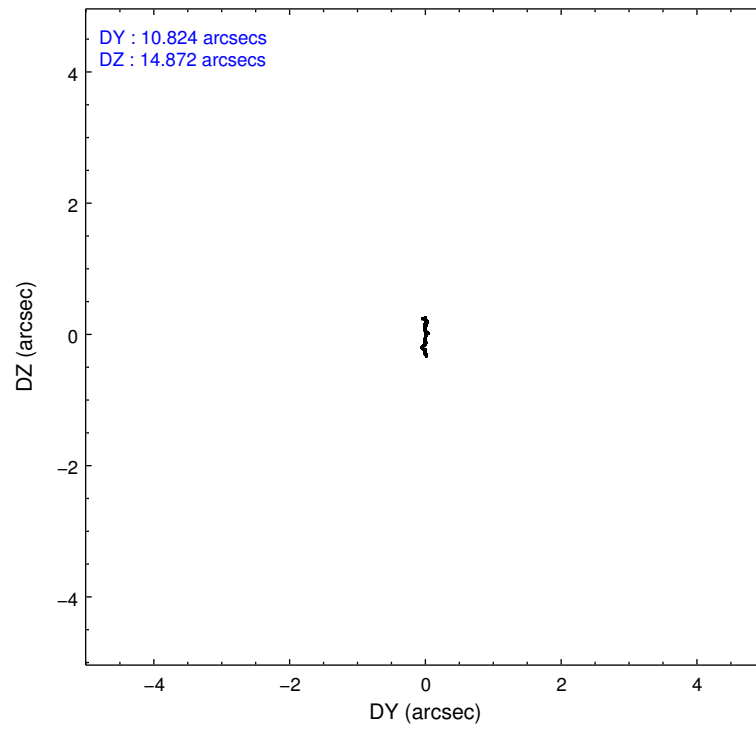
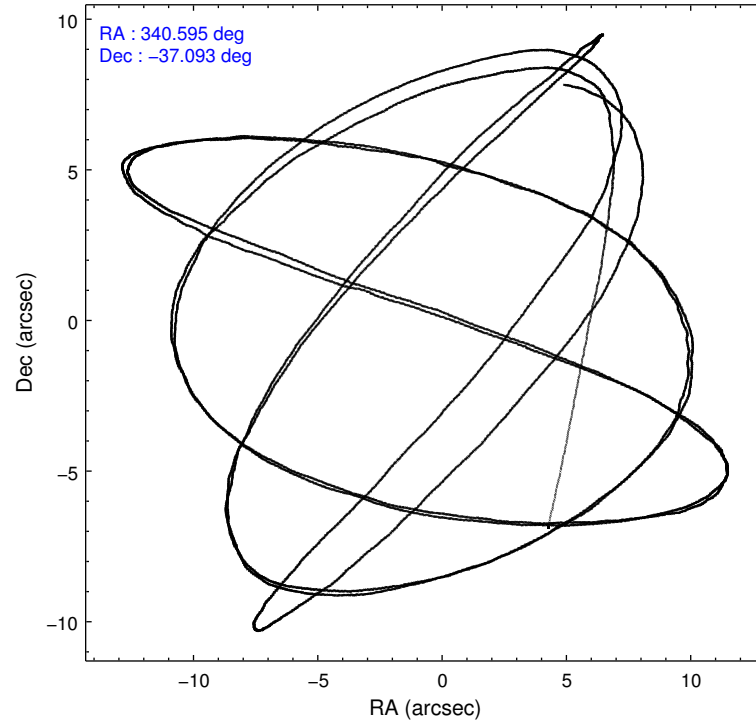
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1042	1300	1153	1079
	3%	5%	3%	4%
grade 1 events	20	15	20	23
	0%	0%	0%	0%
grade 2 events	2318	857	781	679
	8%	3%	2%	2%
grade 3 events	343	365	320	340
	1%	1%	1%	1%
grade 4 events	337	338	328	345
	1%	1%	1%	1%
grade 5 events	1300	1420	1240	1401
	4%	5%	4%	5%
grade 6 events	709	756	628	683
	2%	3%	2%	2%
grade 7 events	20455	20146	24466	21324
	77%	79%	84%	82%

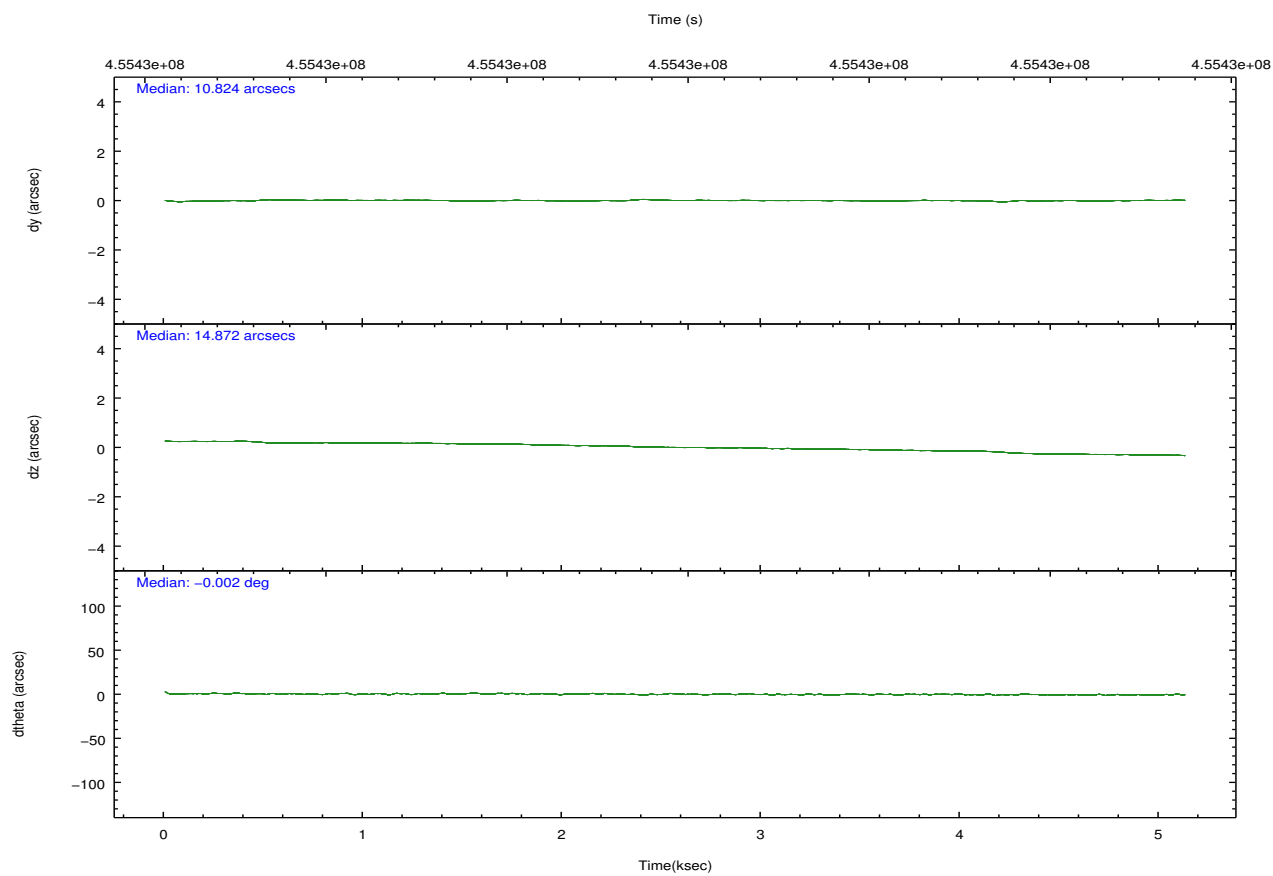
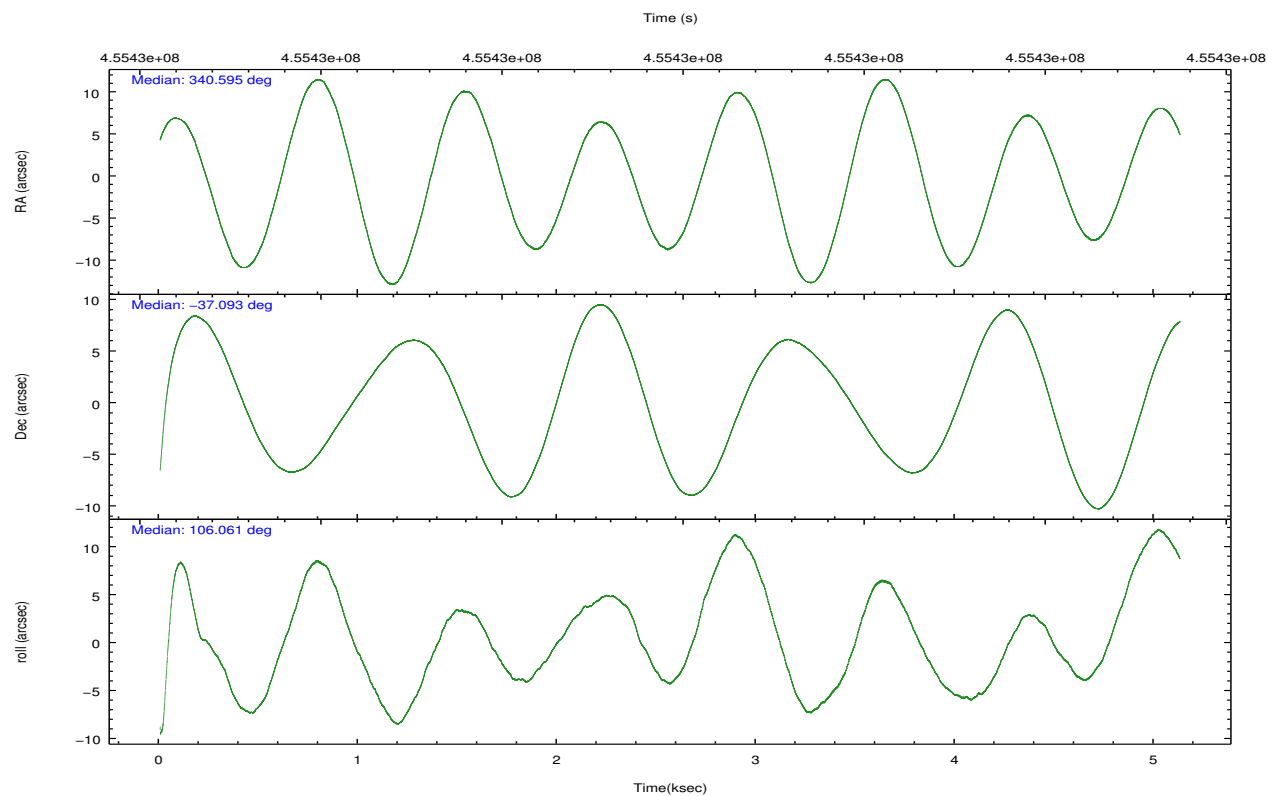


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	340.619360	340.594479176453	Subarray requested	NONE	NONE
[deg] Pointing Dec	-37.112247	-37.09322392717237	Alternating exposures requested	N	N
[deg] Pointing Roll	105.871589	106.0652188837729	[s] Primary exposure time	0.000000	3.1
[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)	455426503.184000	455425358.36639			
Observation start date	2012-06-07T03:20:37	2012-06-07T03:02:38			
[s] Observation end time (MET)	455431503.184000	455432342.20426			
Observation end date	2012-06-07T04:43:57	2012-06-07T04:59:02			
Read mode	TIMED	TIMED			

## 2.3 Aspect



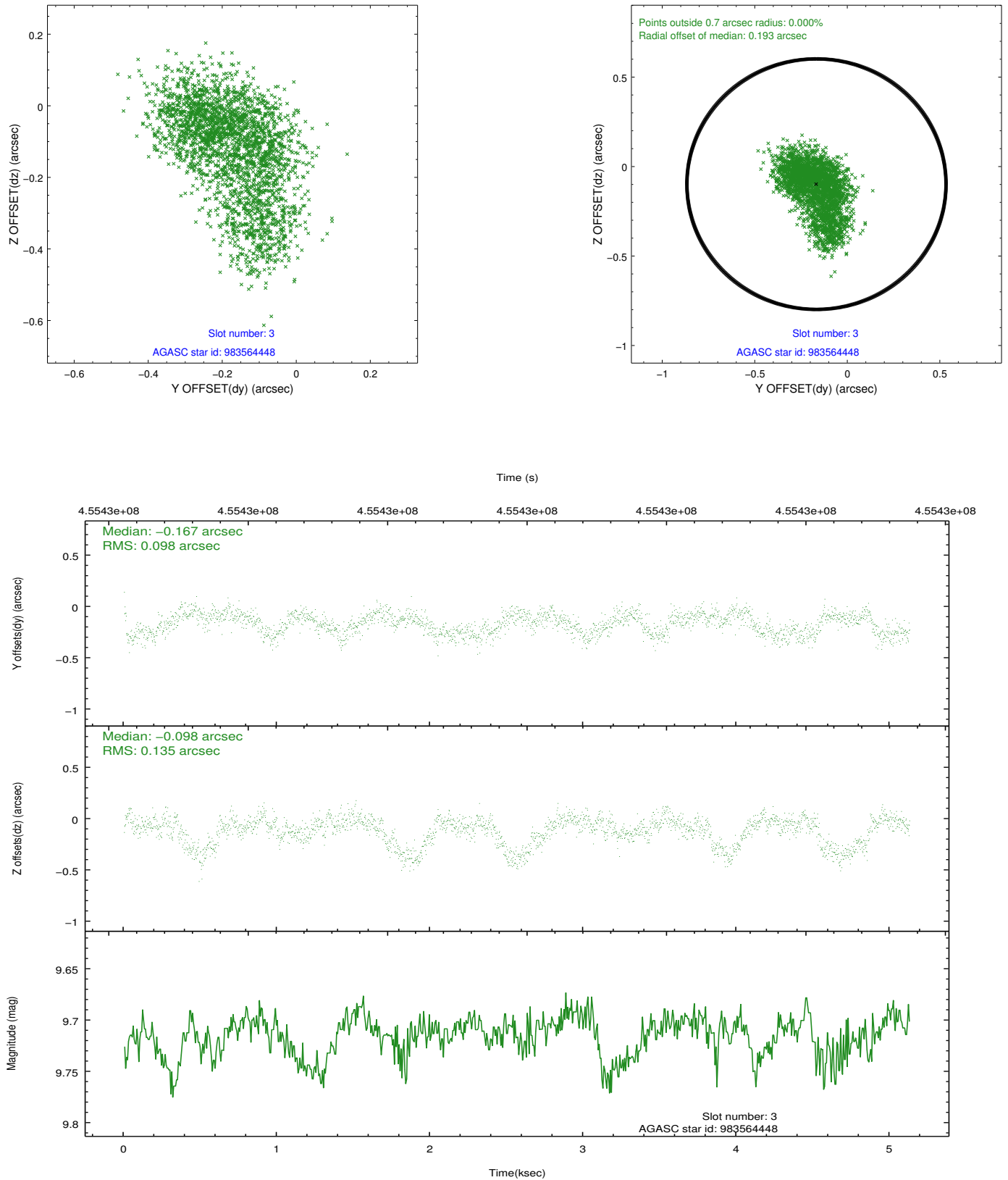


### Slot Statistics

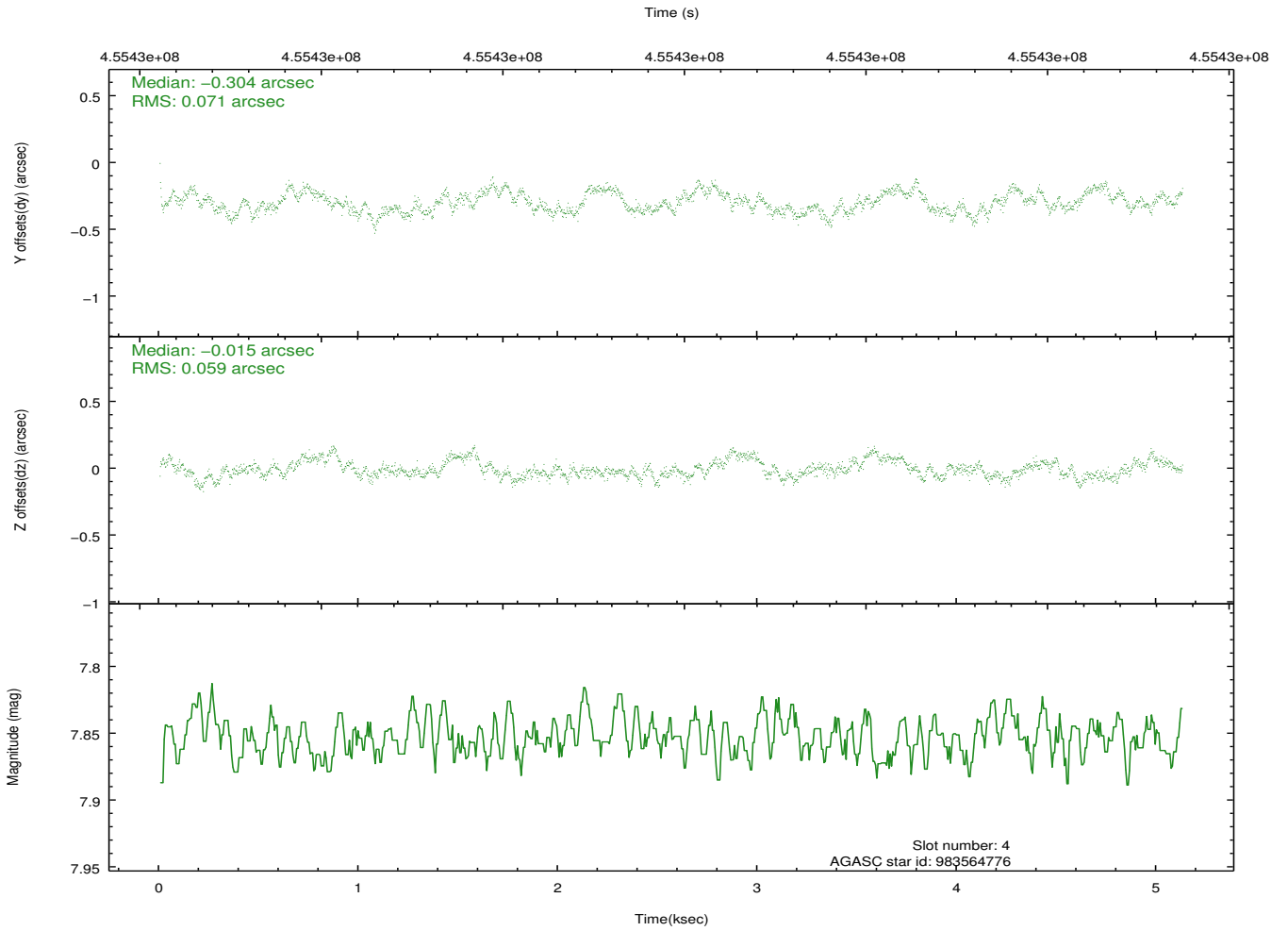
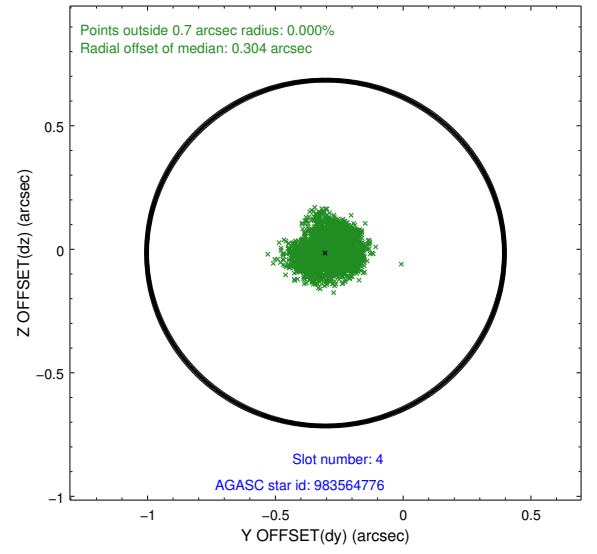
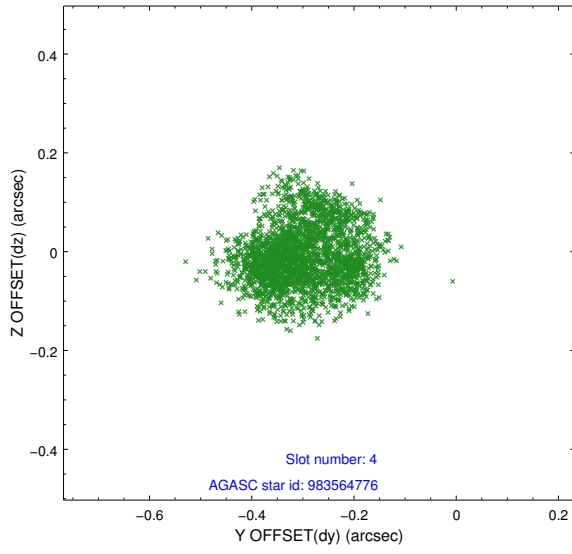
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.03	1250	0.053	-0.018	0.009	0.015	0.000000	0.000000	928.81	-838.48
1	FID	ACIS-I-5	7.01	1251	-0.200	0.061	0.006	0.010	0.000000	0.000000	-1818.91	1058.48
2	FID	ACIS-I-6	7.02	1251	0.055	0.027	0.009	0.014	0.000000	0.000000	393.05	1704.30
3	GUIDE	983564448	9.71	2499	-0.167	-0.098	0.172	0.305	340.692773	-36.868914	784.56	-442.59
4	GUIDE	983564776	7.85	2502	-0.304	-0.015	0.103	0.148	340.691364	-37.345545	-864.28	31.65
5	GUIDE	983565368	9.64	2492	0.215	-0.010	0.140	0.231	341.408253	-37.119215	-652.51	-2168.43
6	GUIDE	983566360	10.14	2500	0.173	0.160	0.284	0.432	340.089067	-37.350947	-415.87	1695.55
7	GUIDE	1049106144	7.65	2501	0.112	-0.005	0.091	0.143	340.768668	-37.670529	-2050.37	140.34

## 2.4 Star Slots

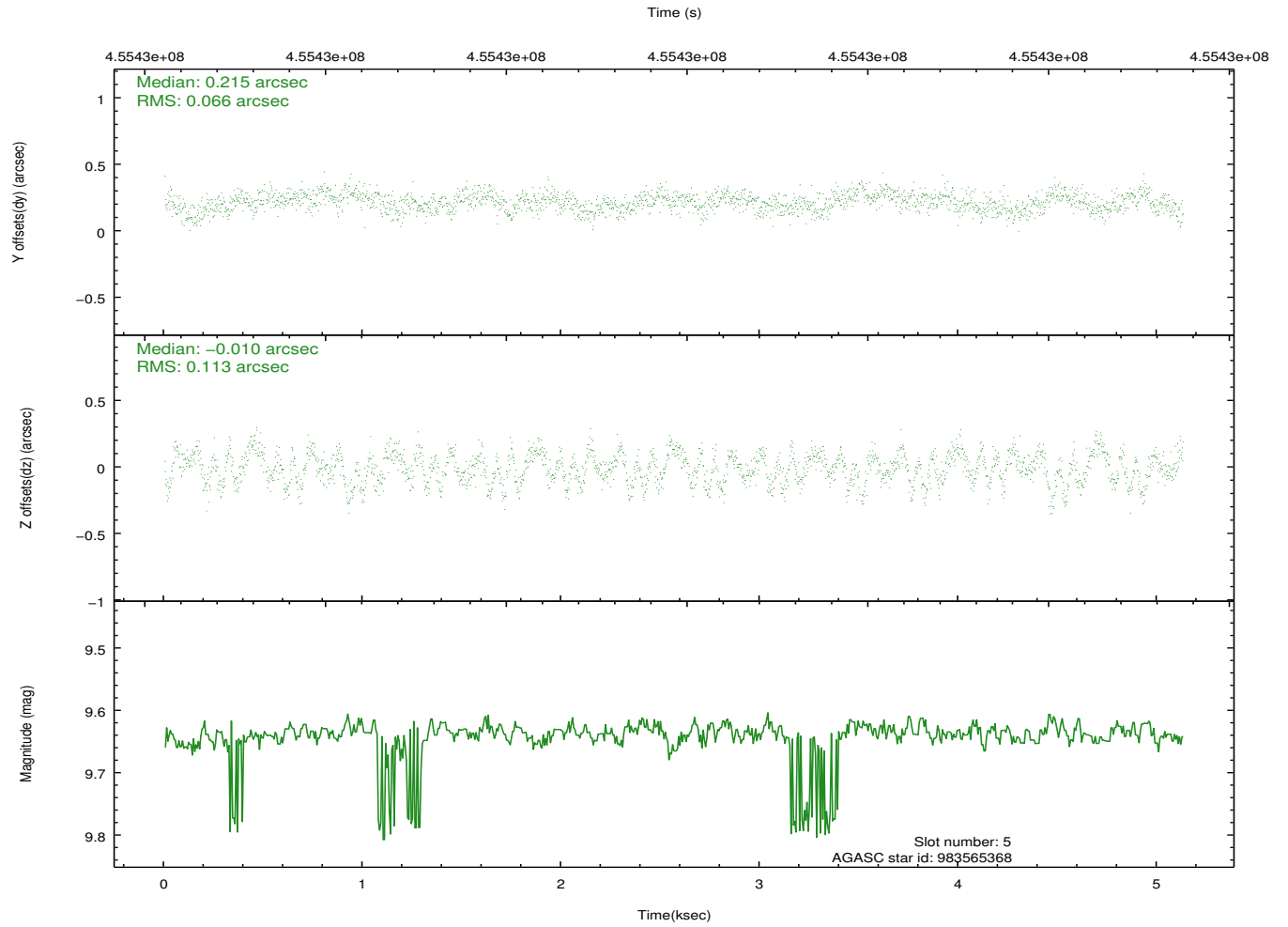
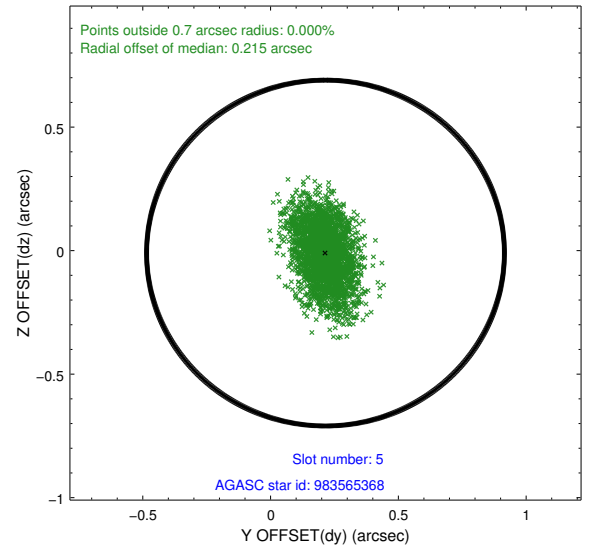
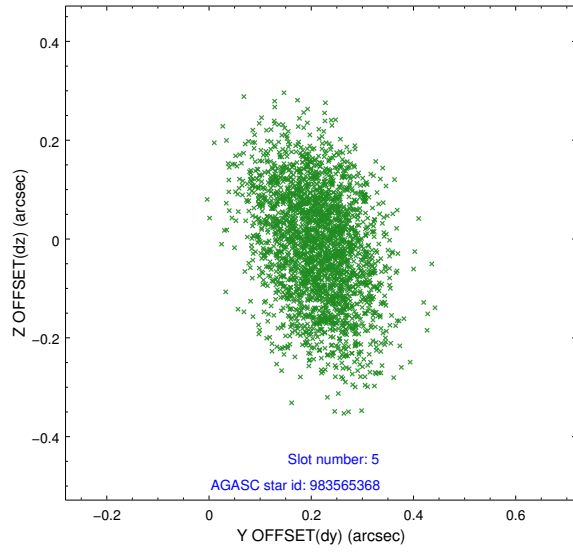
### 2.4.1 Slot 3



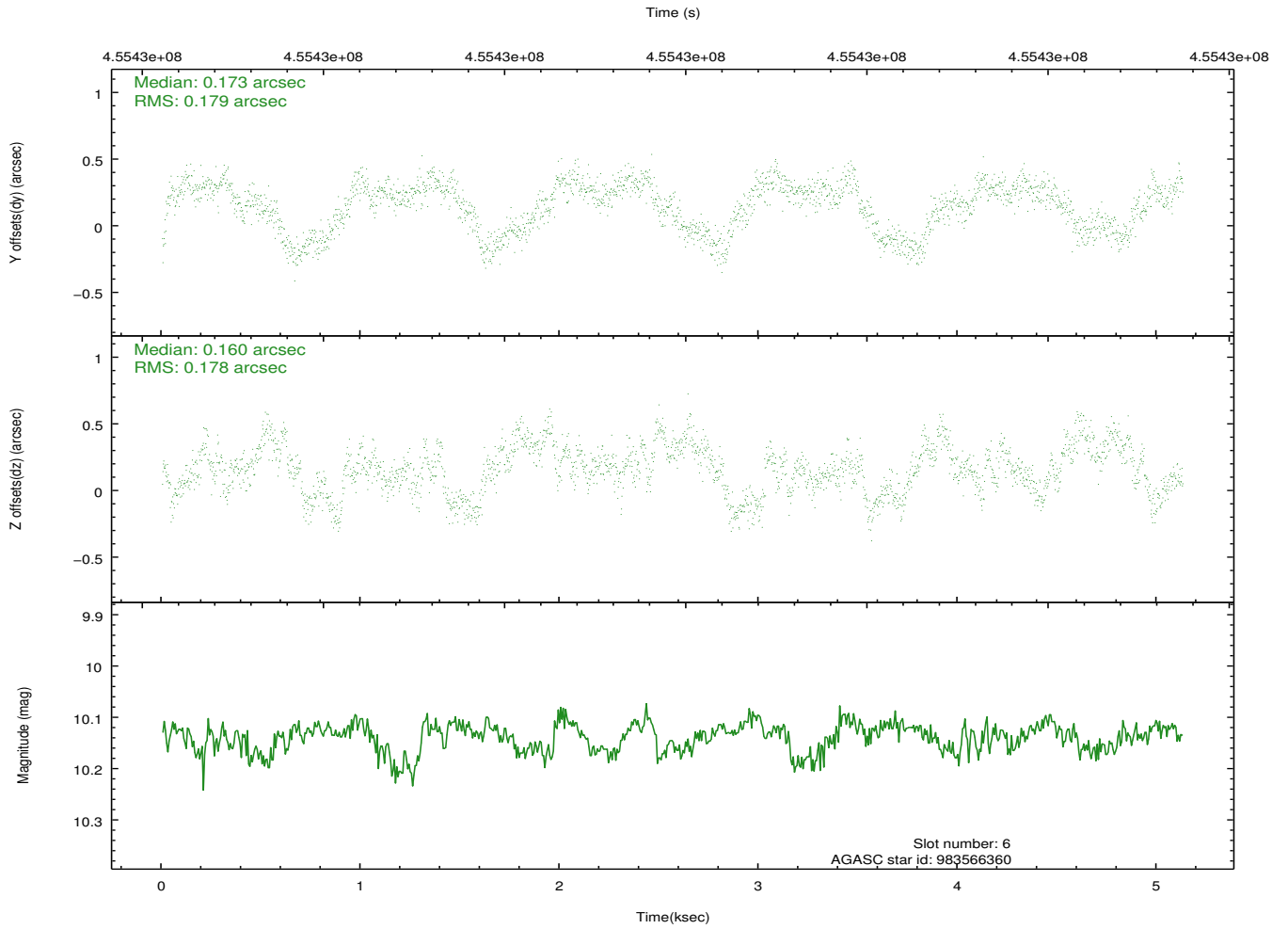
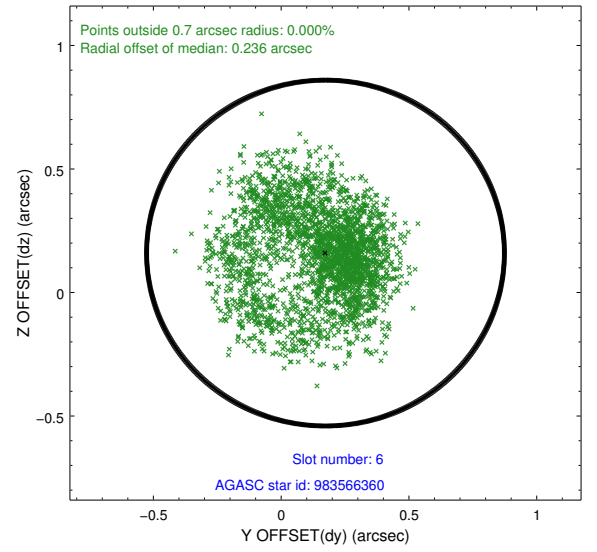
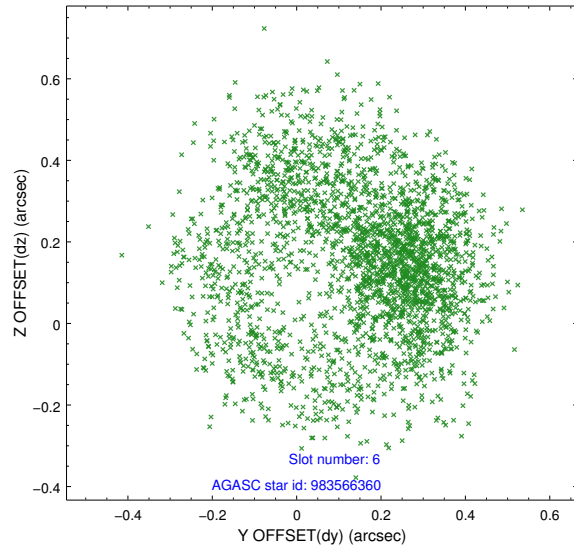
## 2.4.2 Slot 4



### 2.4.3 Slot 5

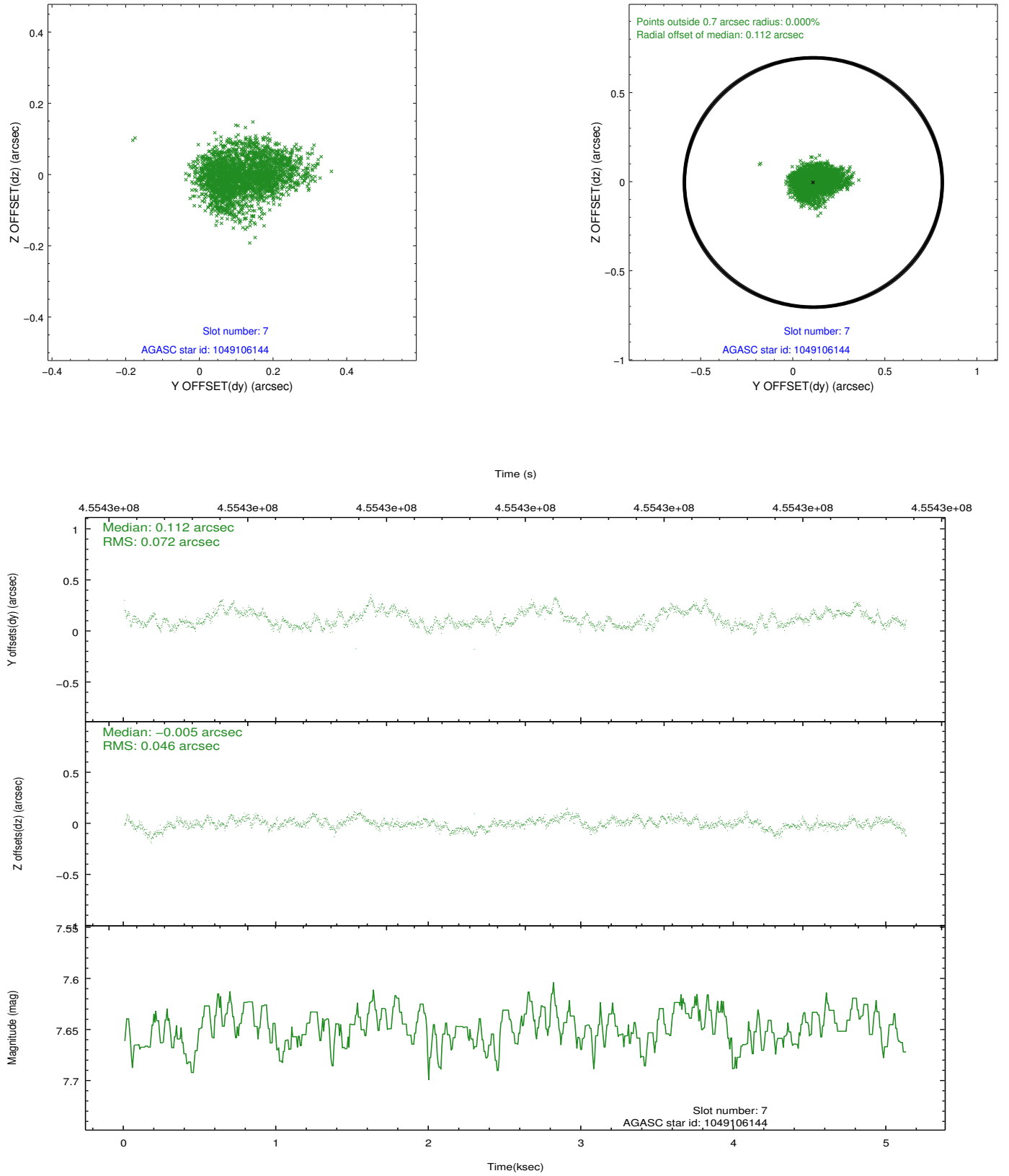


## 2.4.4 Slot 6



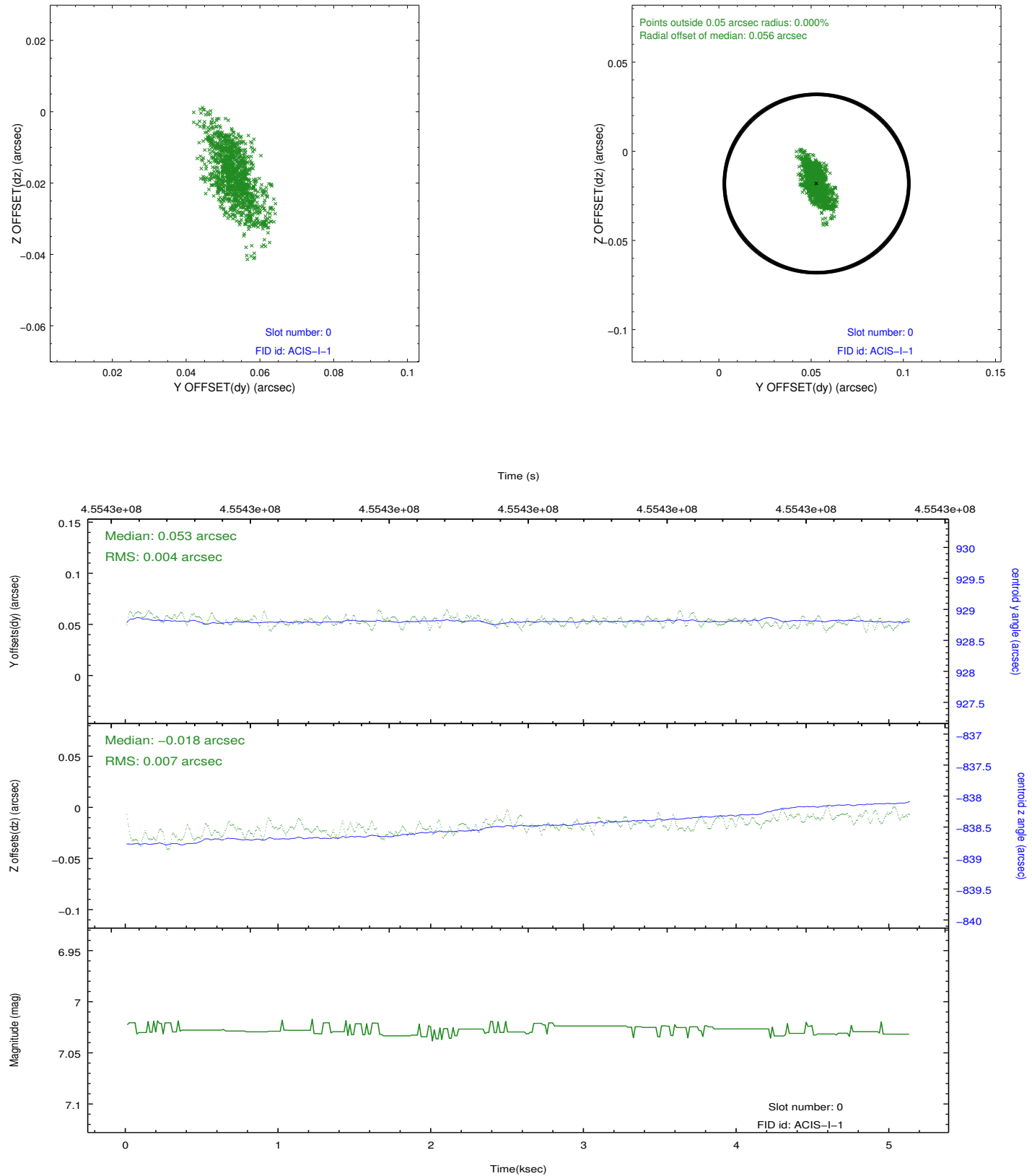


## 2.4.5 Slot 7

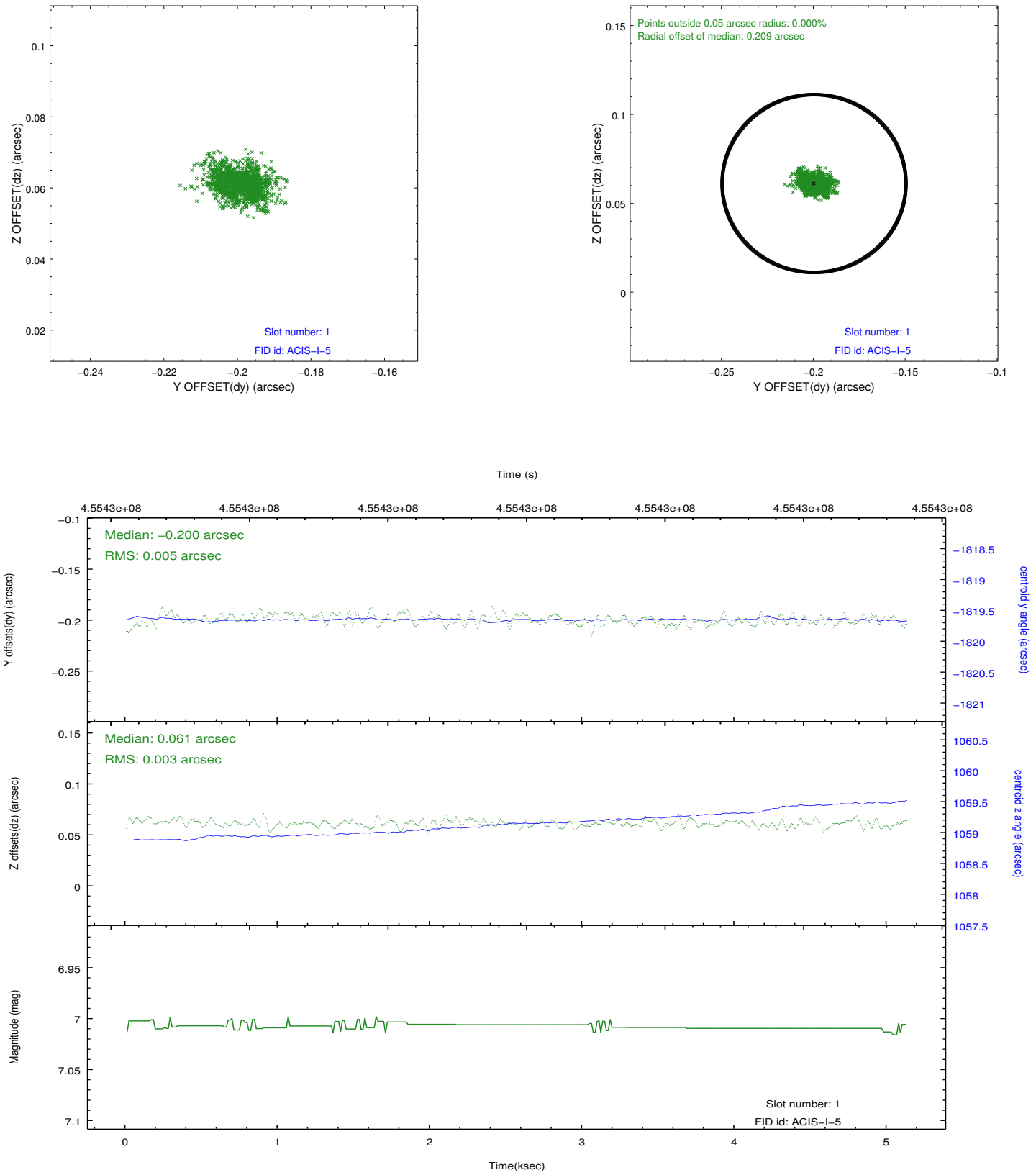


## 2.5 FID Slots

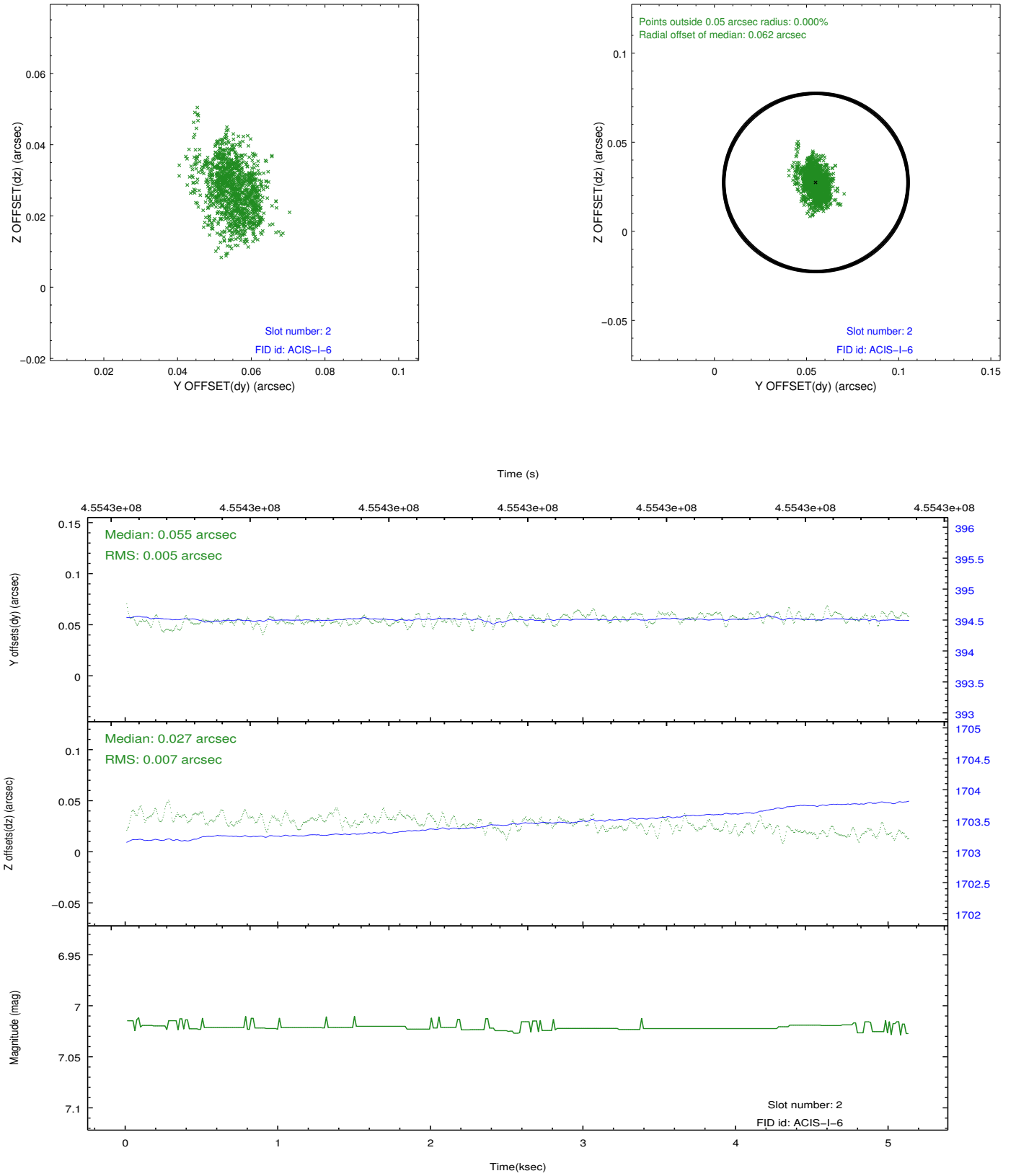
### 2.5.1 Slot 0



## 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)	2012.06.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0895545727015

### **A.2 Comments**