

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 13895 - L2 Version 1  
Chandra X-Ray Center

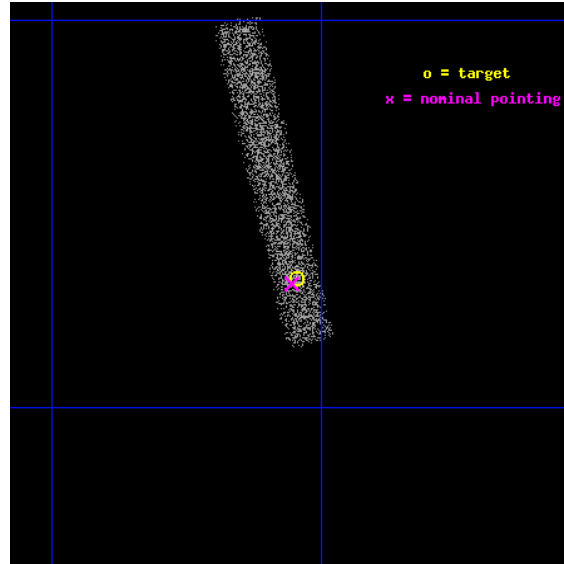
L2 Processing Date : Jul 10 2012

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# 1 Front

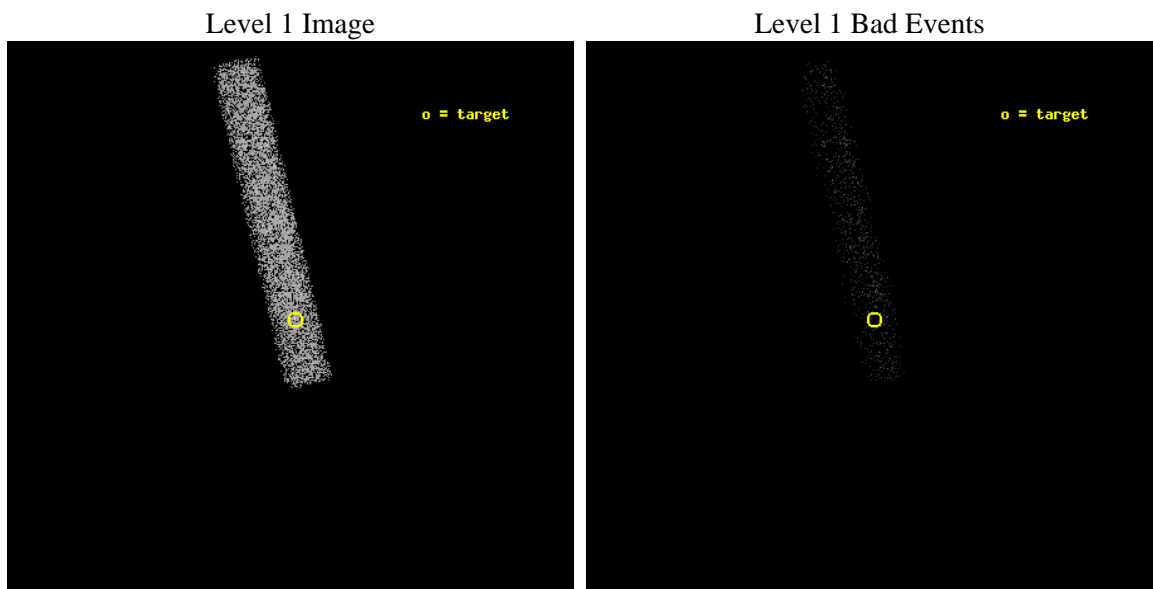
seq_num	702620	Sequence number
obs_id	13895	Observation id
title	CHANDRA SURVEY OF DUAL ACTIVATION IN HARD X-RAY SELECTED MERGING AGN HOSTS	Proposal title
observer	Dr. Richard Mushotzky	Principal investigator
object	NGC 3588	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	168.51125	Observer's specified target RA [deg]
dec_targ	20.388611	Observer's specified target Dec [deg]
ra_nom	168.51351487819	Nominal RA [deg]
dec_nom	20.386470506337	Nominal Dec [deg]
roll_nom	256.75591524254	Nominal Roll [deg]
revision	1	Processing version of data
ontime	11069.999340177	Sum of GTIs [s]
livetime	10039.905079065	Livetime [s]
ontime7	11069.999340177	Sum of GTIs [s]
l2events	5471	Number of level 2 events



## 2 OBI

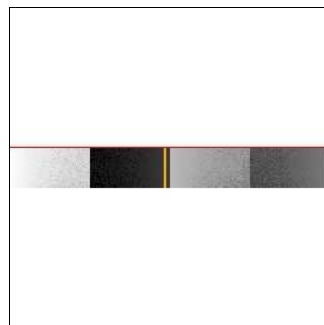
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	11000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	11069.999340177	Sum of GTIs [s]
caldsver	4.5.0	&#160	ontime7	11069.999340177	Sum of GTIs [s]
date	2012-07-10T10:24:31	Date and time of file creation	l1events	10932	Number of level 1 events
revision	1	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	10932
rejected events	5212
rejected %	47%

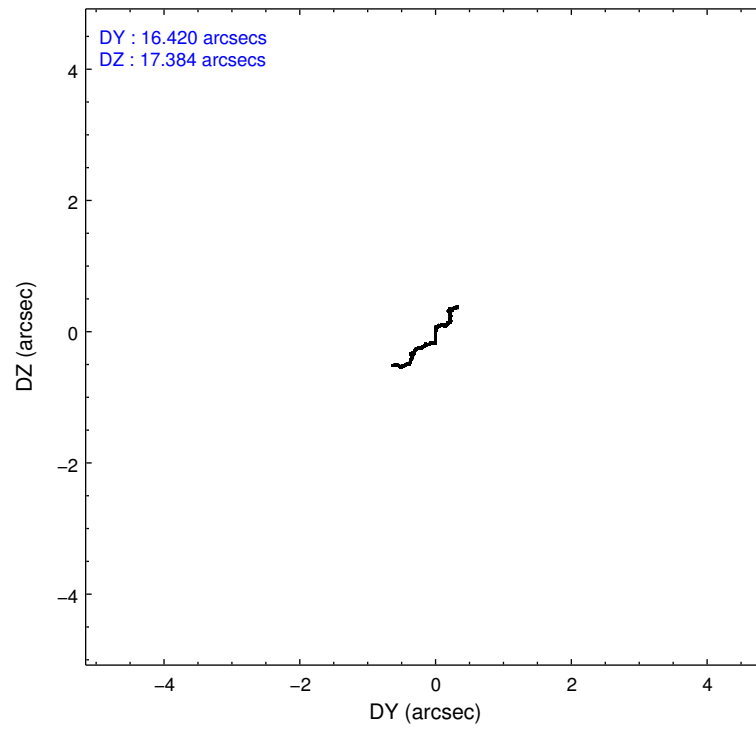
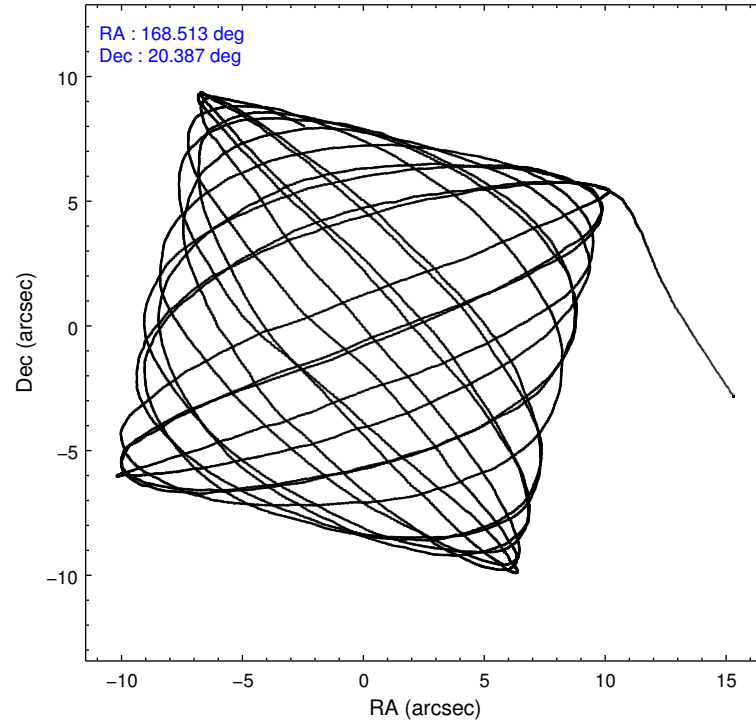
	<b>ccd 7</b>
grade 0 events	623
	5%
grade 1 events	20
	0%
grade 2 events	1105
	10%
grade 3 events	736
	6%
grade 4 events	757
	6%
grade 5 events	1165
	10%
grade 6 events	2499
	22%
grade 7 events	4027
	36%

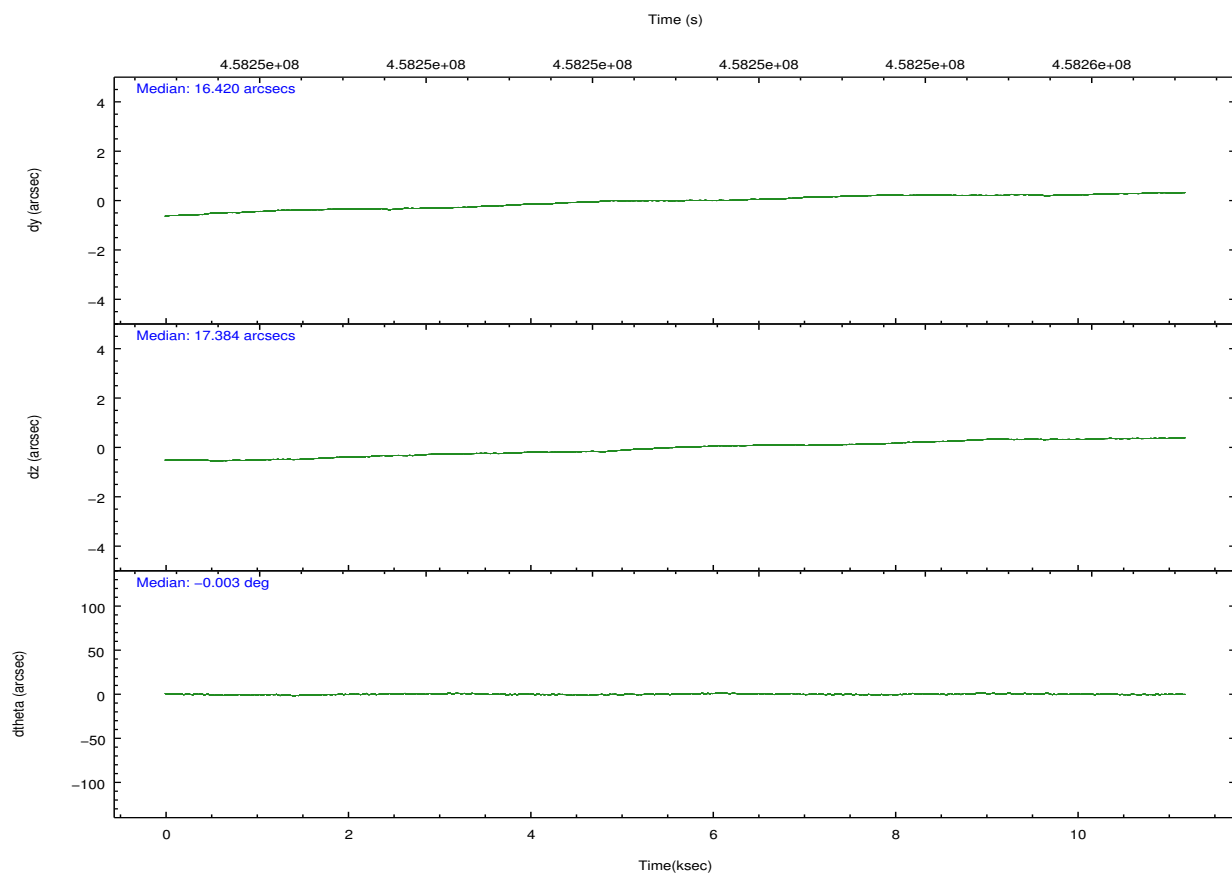
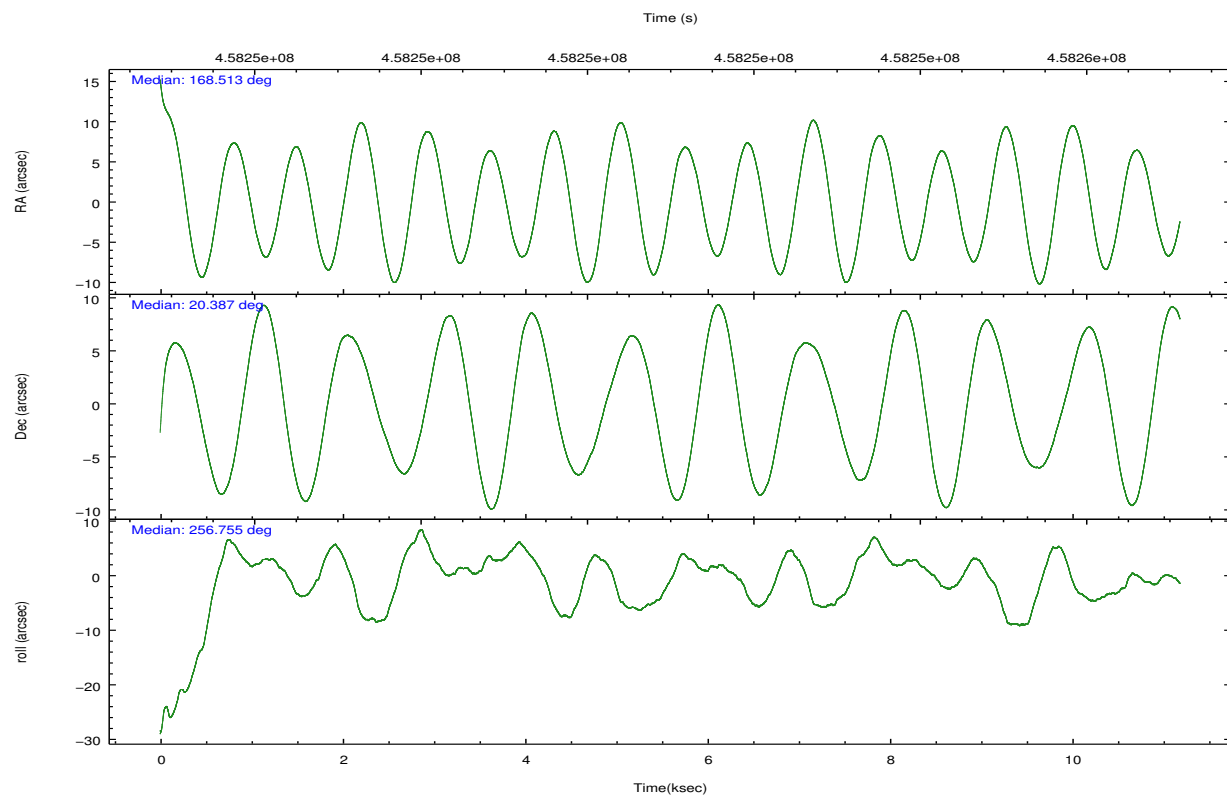


## 2.2 Compared Parameters

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	168.504713	168.5135148781891	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	20.412522	20.38647050633716	Subarray start row	449	449
[deg] Pointing Roll	256.602367	256.7559152425395	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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	458245580.184000	458244683.54173			
Observation start date	2012-07-09T18:25:13	2012-07-09T18:11:23			
[s] Observation end time (MET)	458256580.184000	458256954.84238			
Observation end date	2012-07-09T21:28:33	2012-07-09T21:35:54			
Read mode	TIMED	TIMED			

## 2.3 Aspect



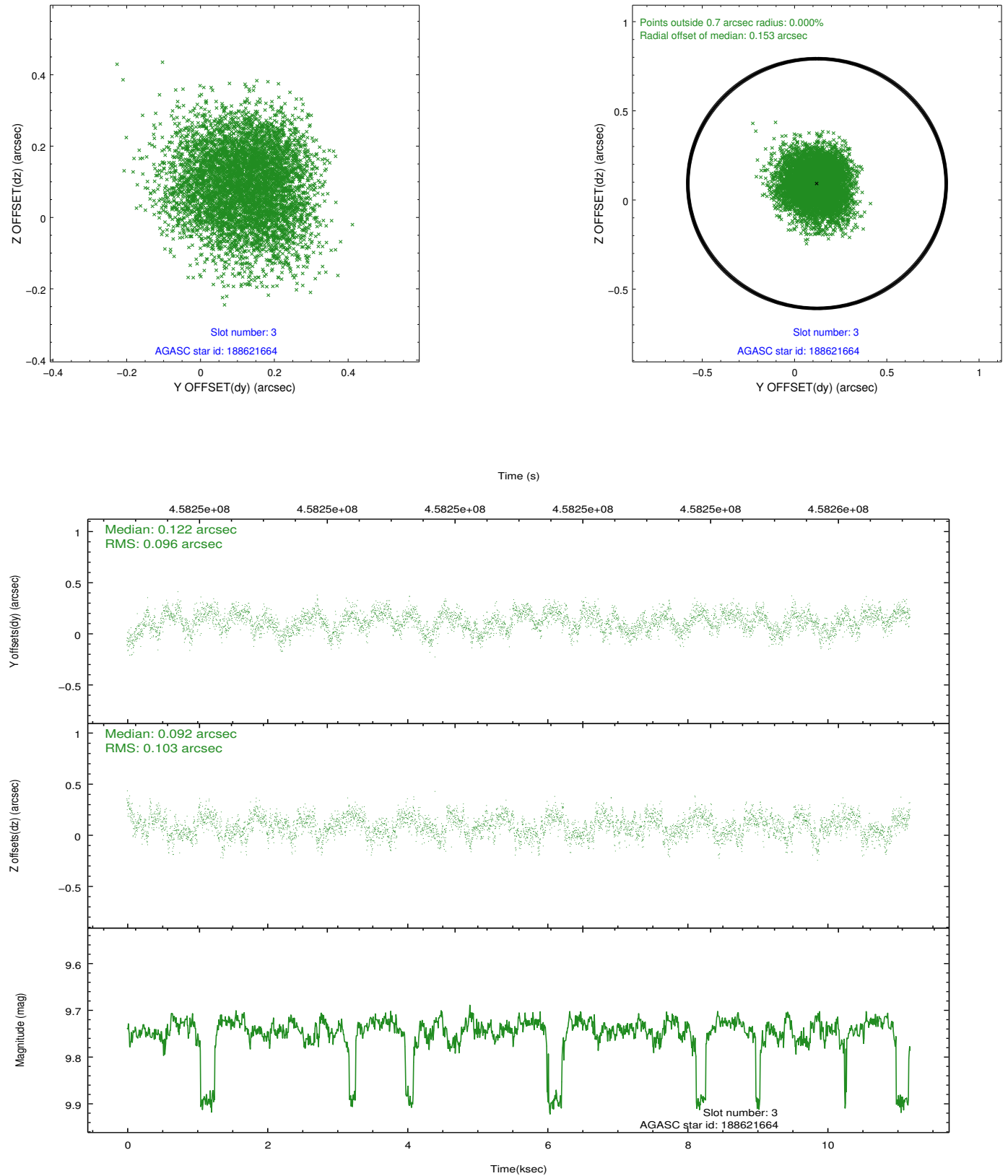


### Slot Statistics

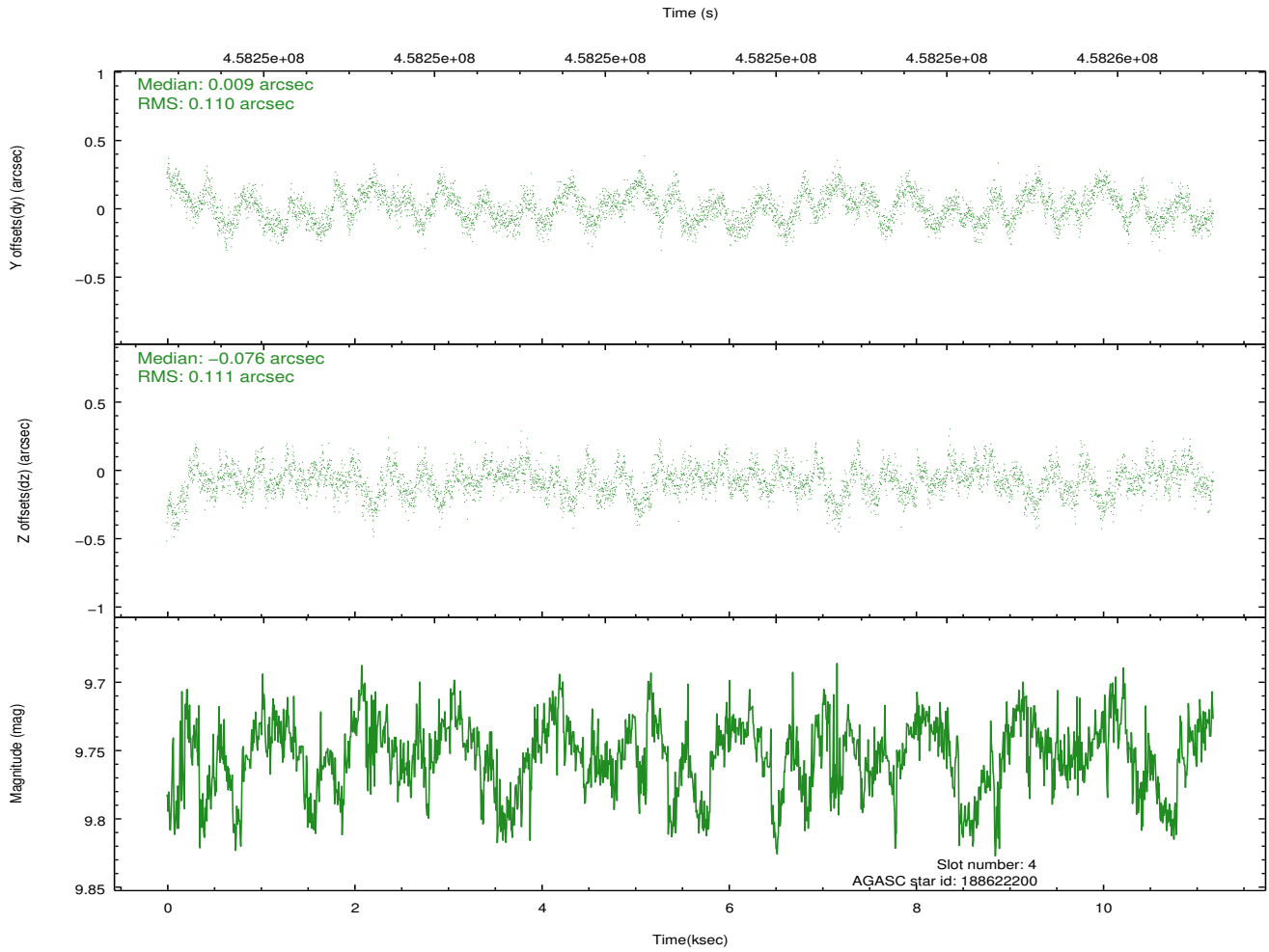
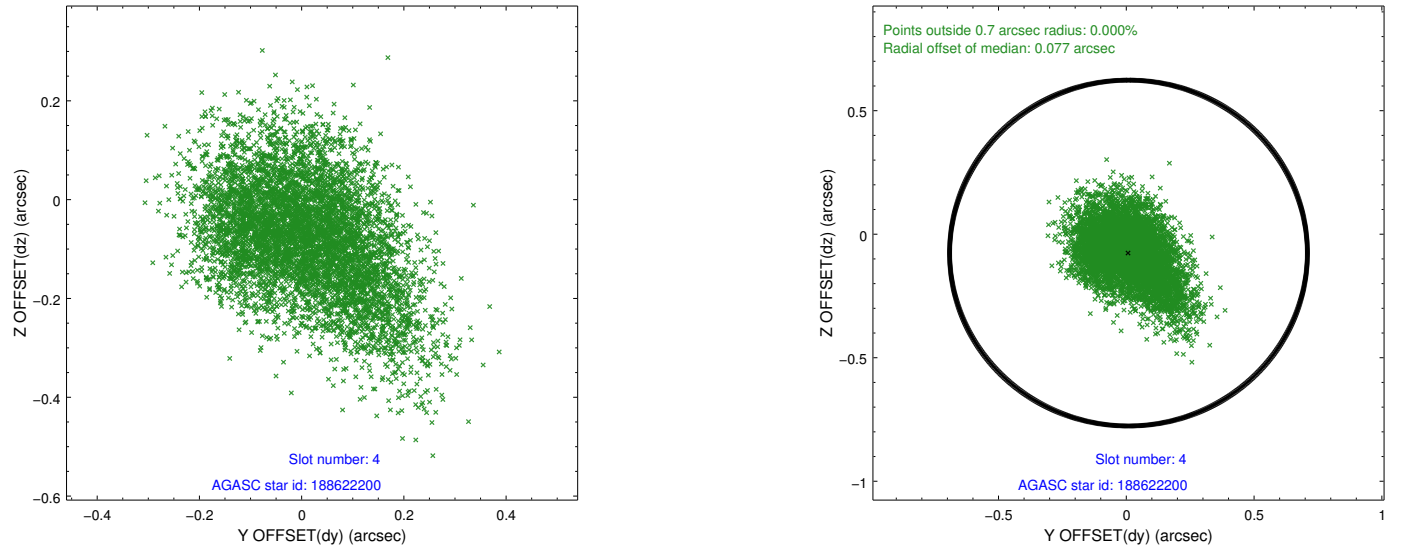
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.92	2728	-0.086	-0.039	0.013	0.023	0.000000	0.000000	-769.50	-1738.79
1	FID	ACIS-S-4	7.00	2728	0.197	0.052	0.006	0.011	0.000000	0.000000	2143.89	169.24
2	FID	ACIS-S-5	7.03	2728	-0.141	-0.004	0.013	0.023	0.000000	0.000000	-1821.77	163.46
3	GUIDE	188621664	9.74	5425	0.122	0.092	0.153	0.236	168.376550	20.587114	-510.97	-564.82
4	GUIDE	188622200	9.75	5448	0.009	-0.076	0.165	0.272	169.044589	20.366555	-263.91	1810.01
5	GUIDE	188622856	10.13	5436	-0.098	0.027	0.263	0.420	168.993109	20.913304	-2136.58	1179.91
6	GUIDE	188625328	9.59	5390	0.017	0.055	0.160	0.249	168.317377	19.993443	1614.05	-266.93
7	GUIDE	188629200	7.28	5455	-0.039	-0.117	0.072	0.127	168.601811	20.030830	1261.09	637.79

## 2.4 Star Slots

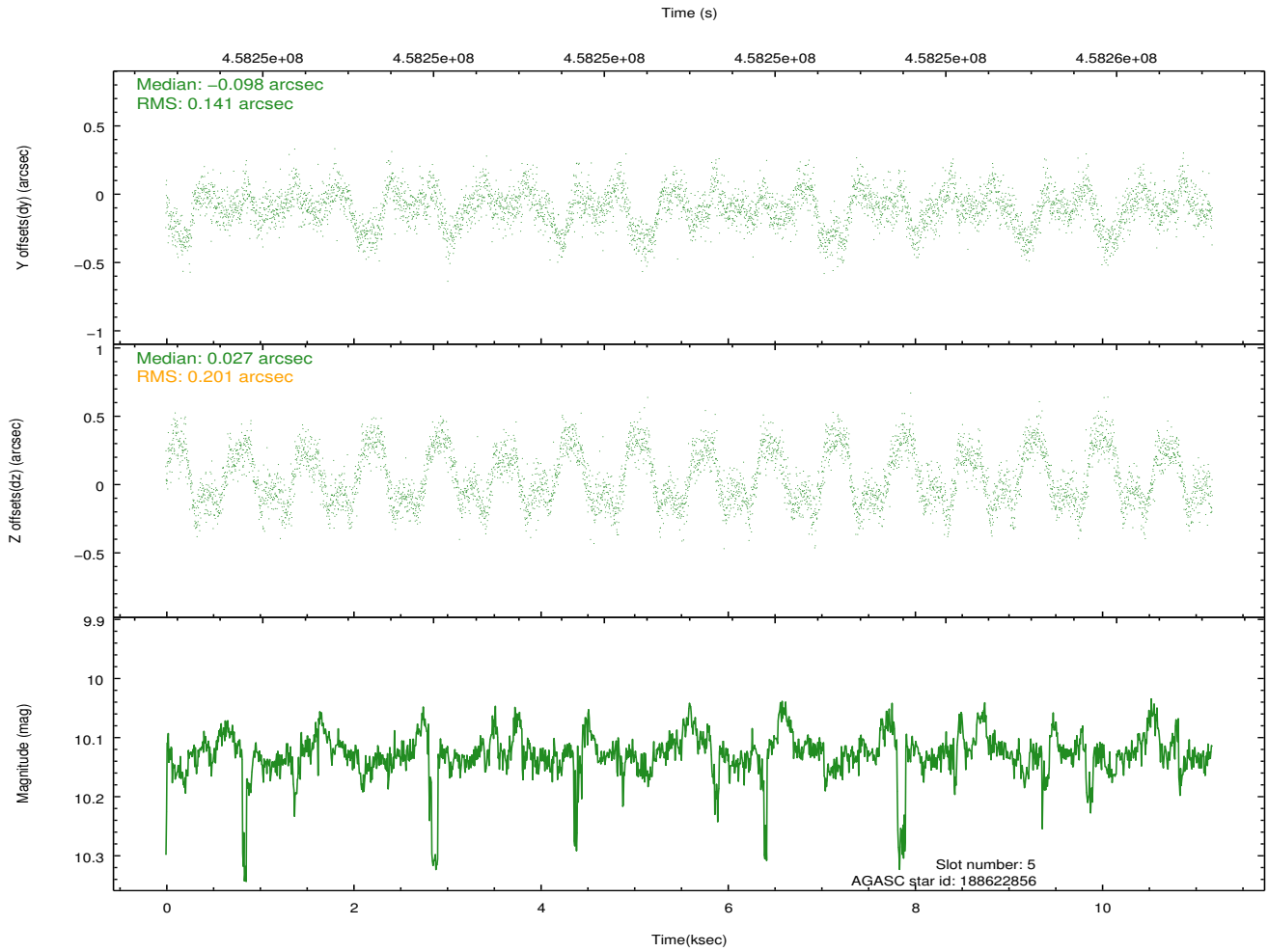
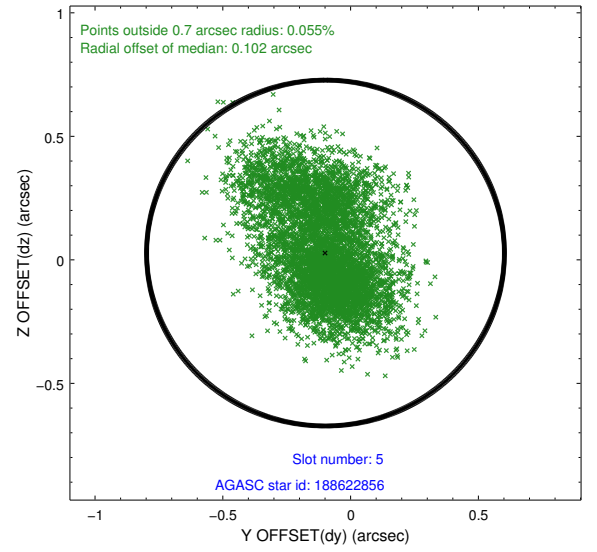
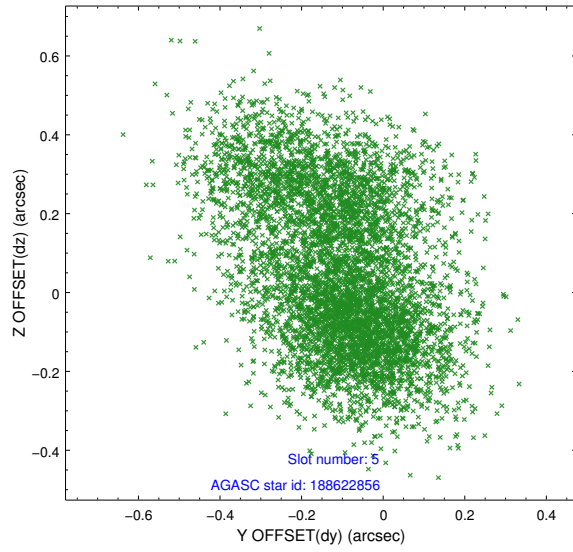
### 2.4.1 Slot 3



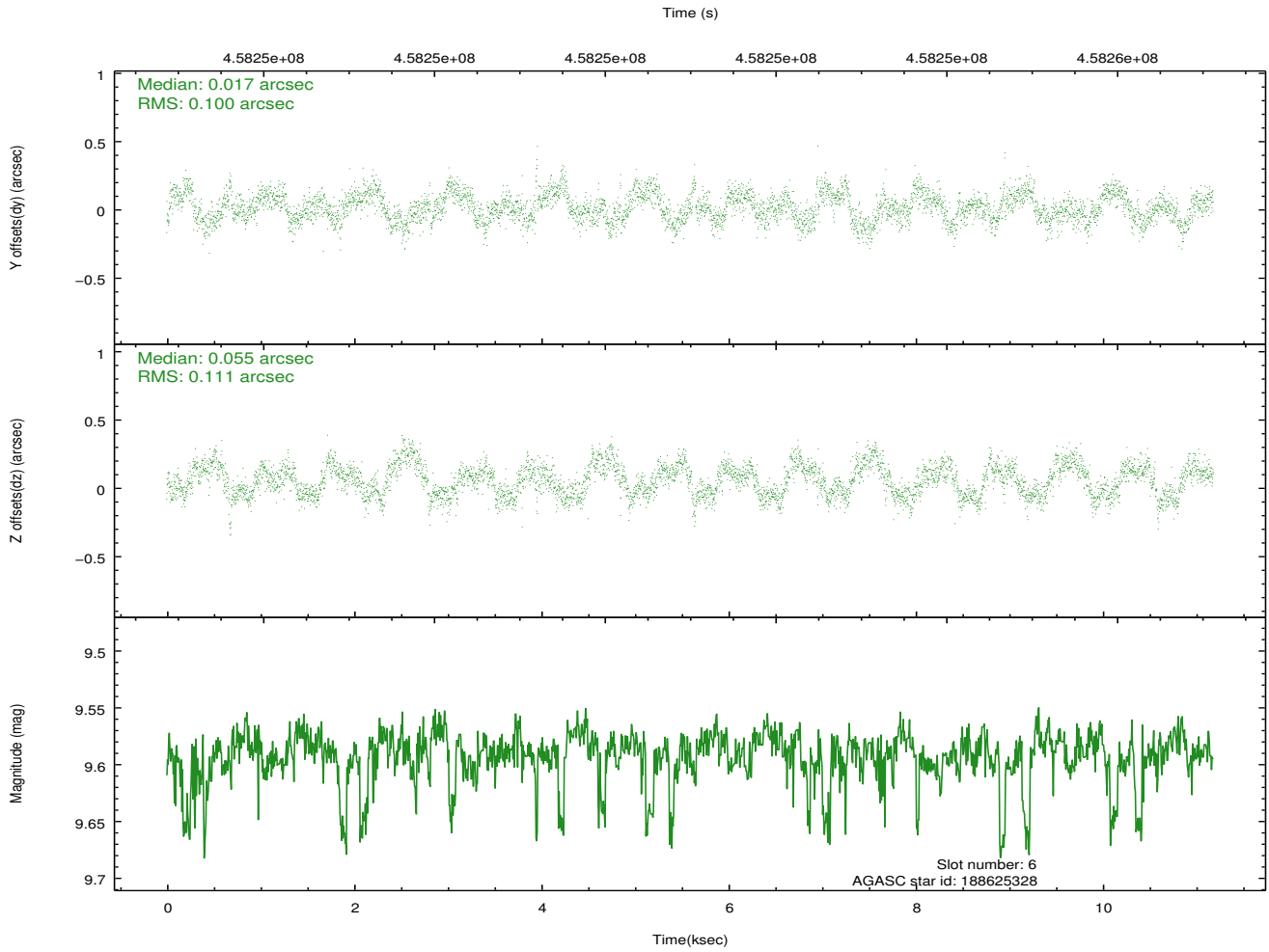
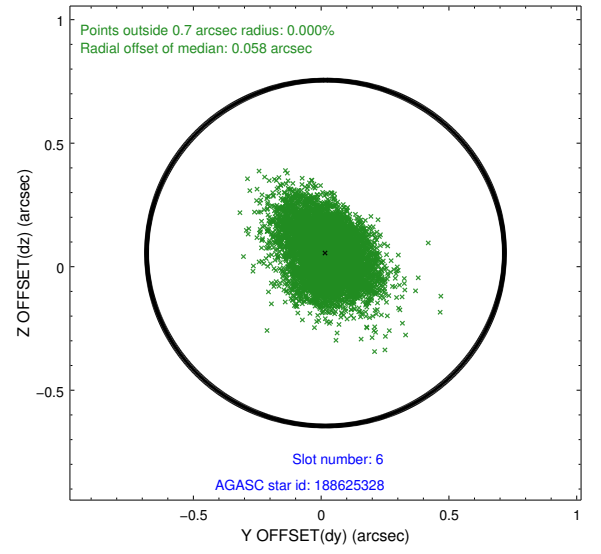
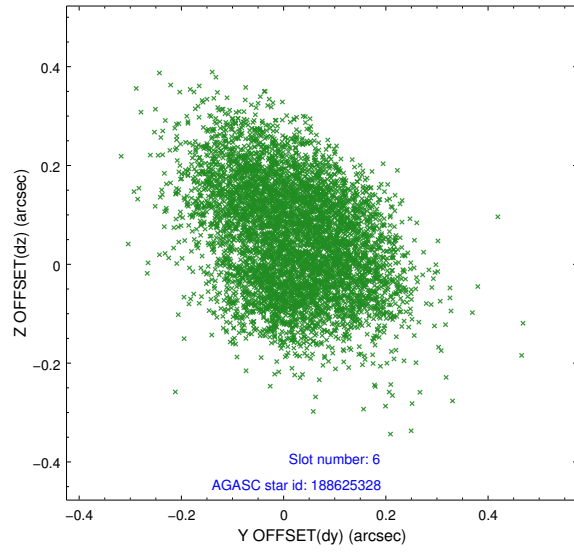
## 2.4.2 Slot 4



### 2.4.3 Slot 5

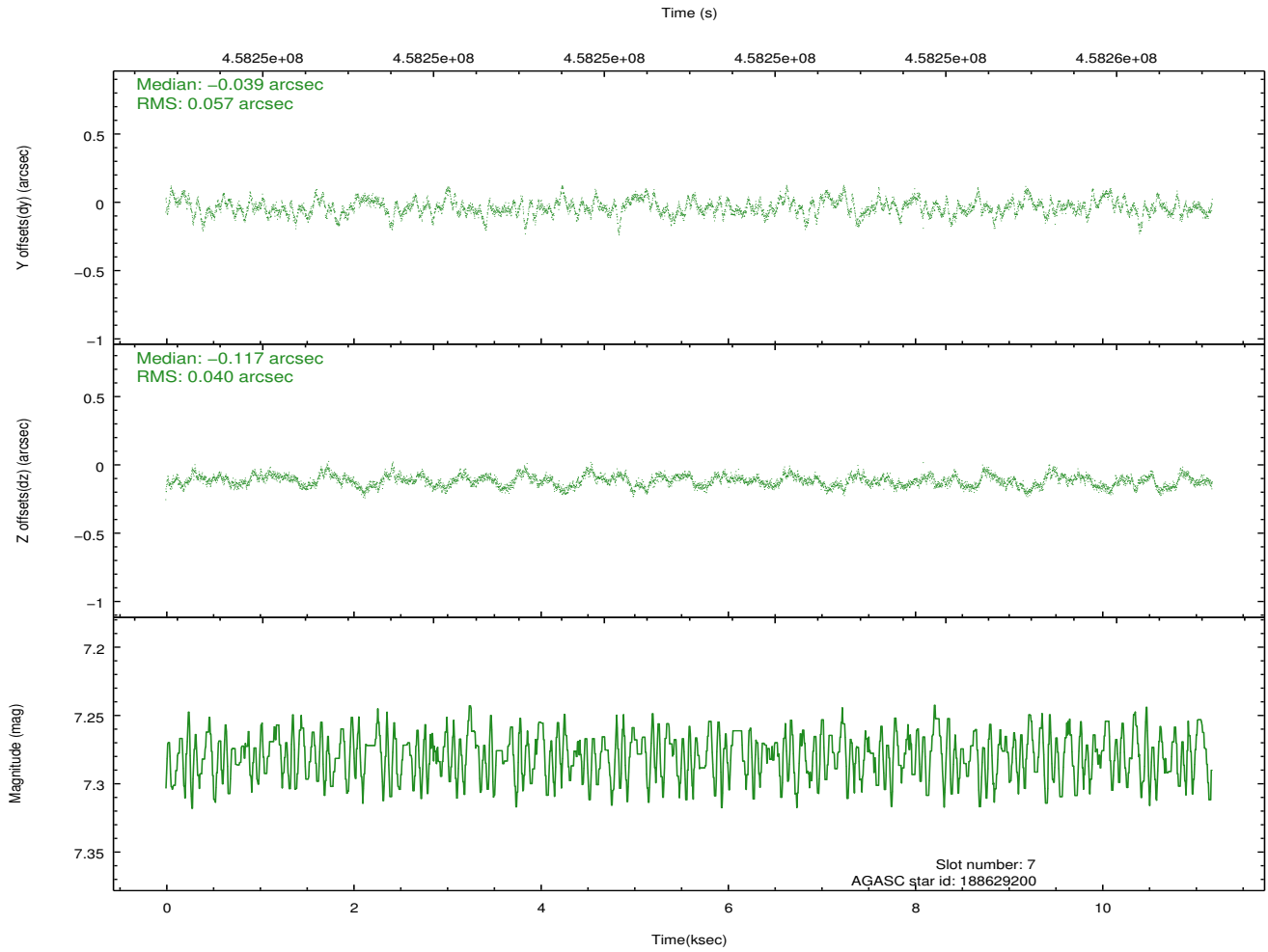
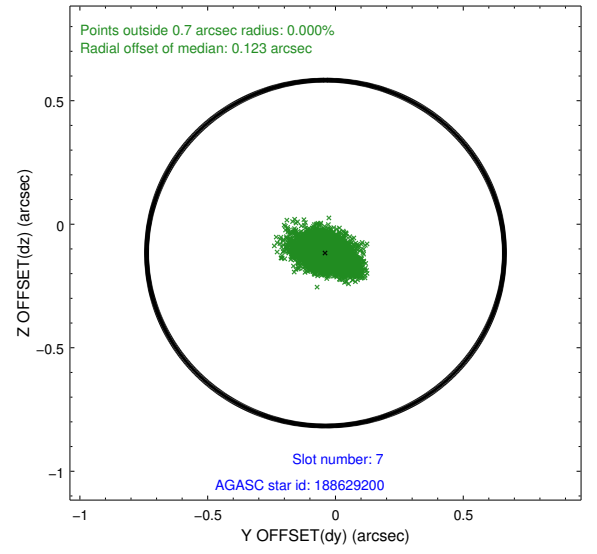
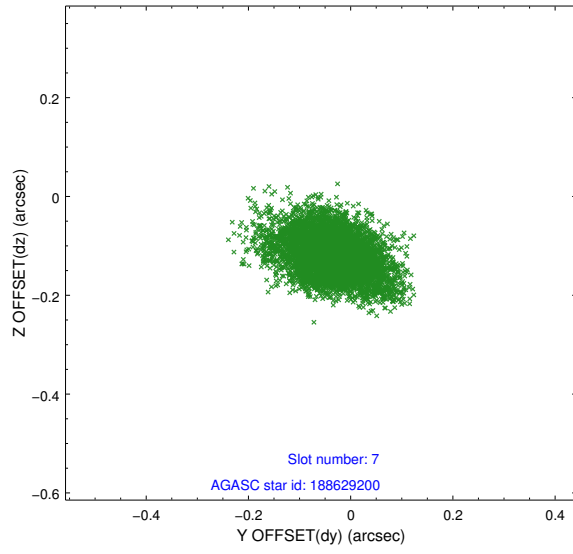


## 2.4.4 Slot 6



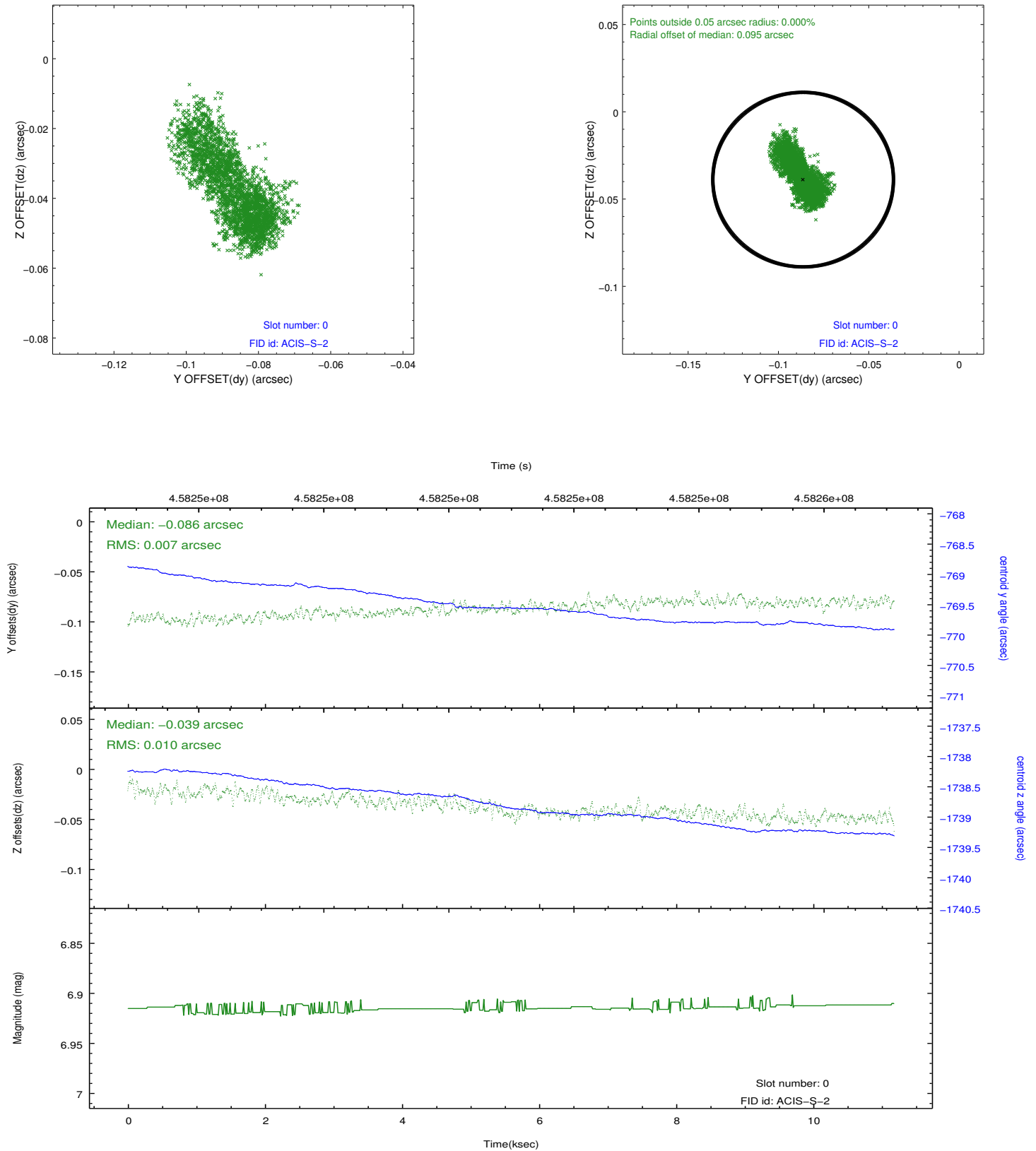


## 2.4.5 Slot 7

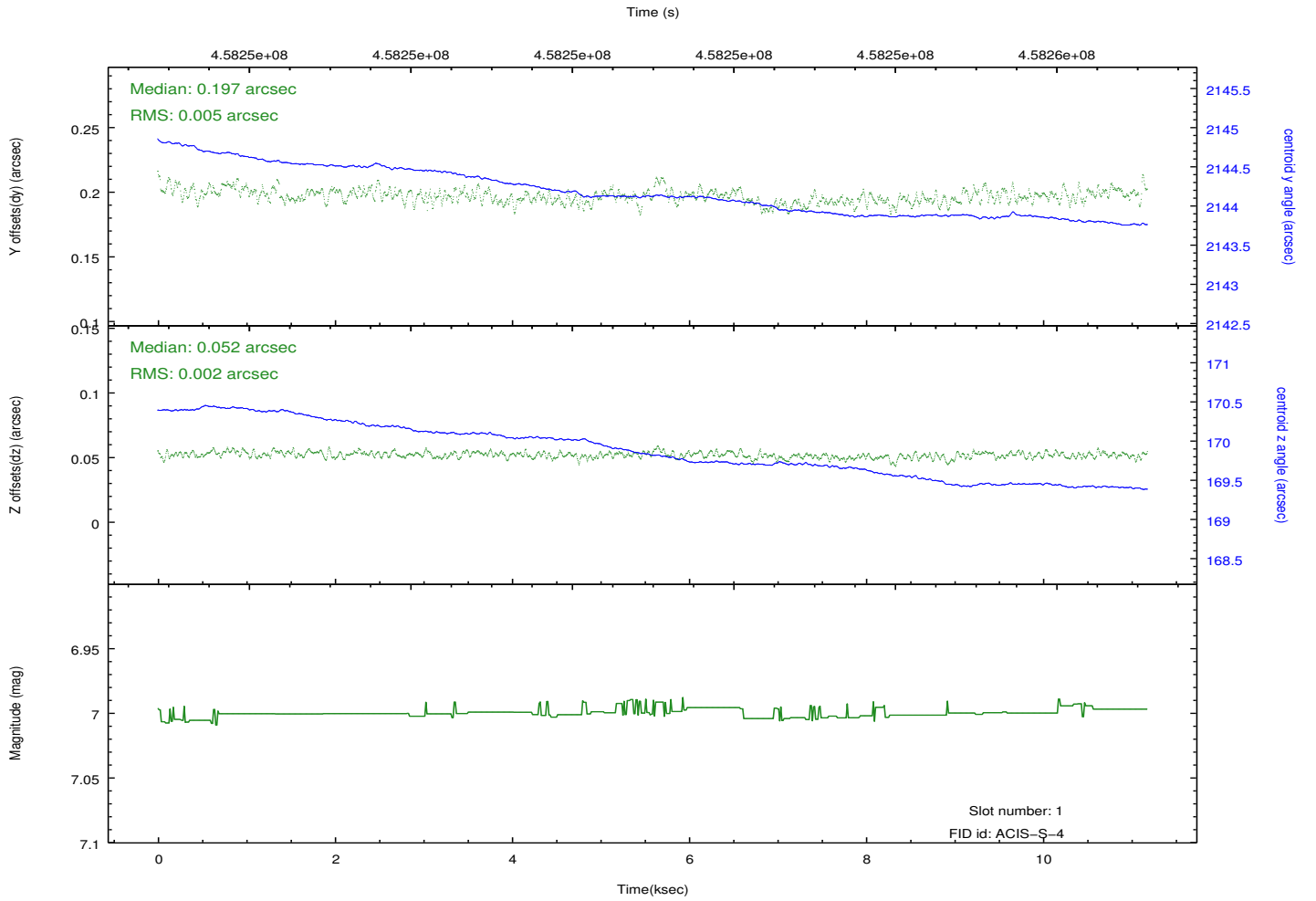
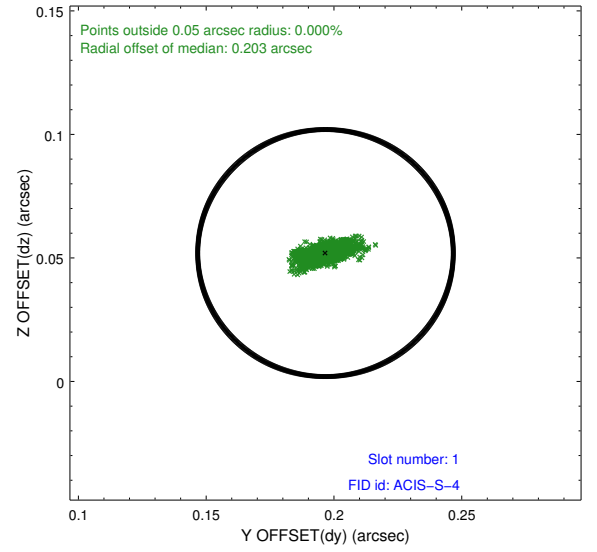
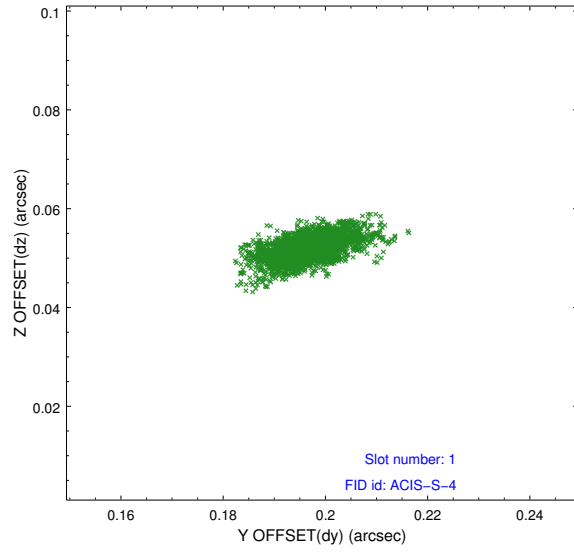


## 2.5 FID Slots

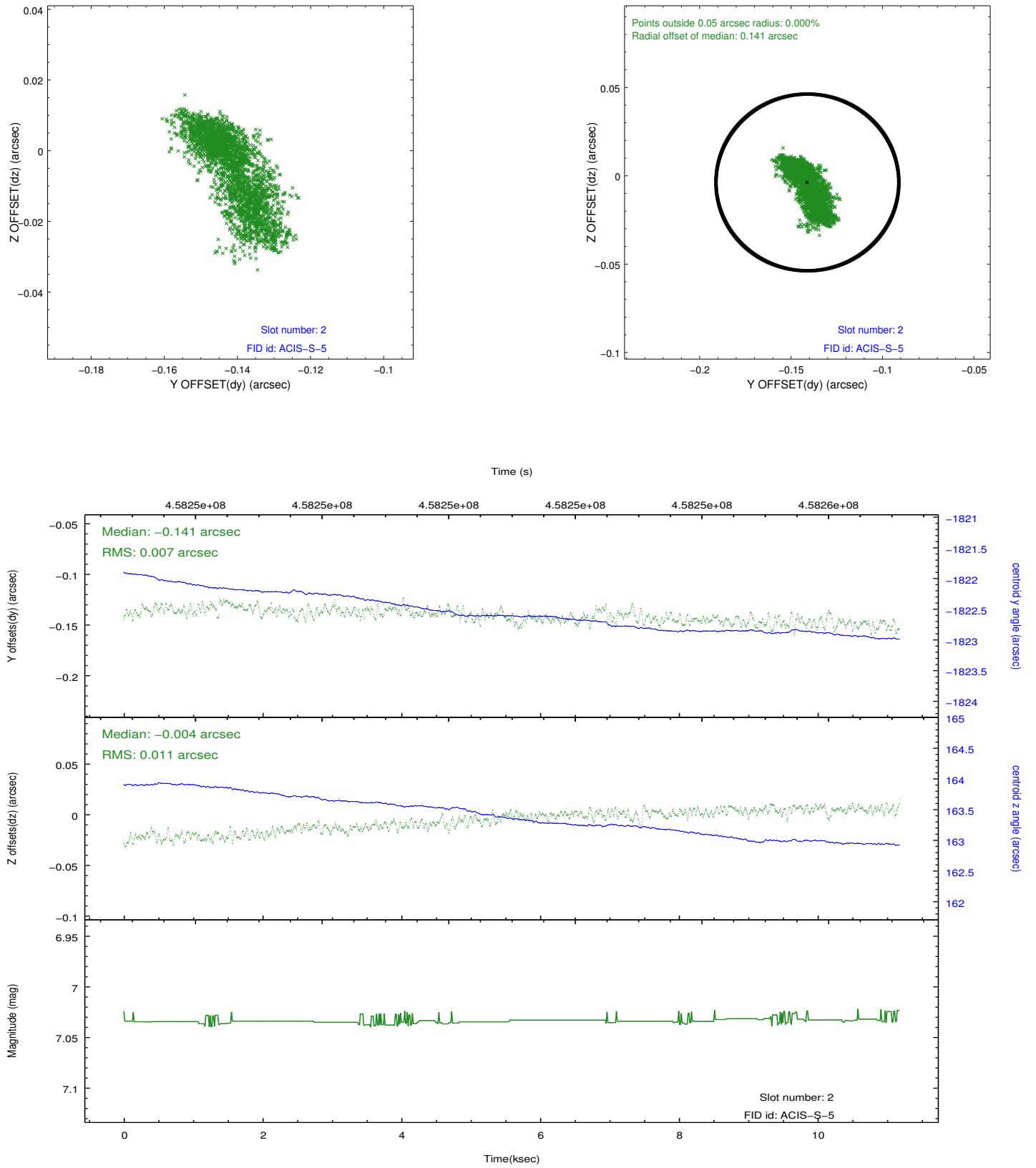
### 2.5.1 Slot 0



## 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)	2012.07.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.069999340177

### **A.2 Comments**