

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 13983 - L2 Version 1  
Chandra X-Ray Center

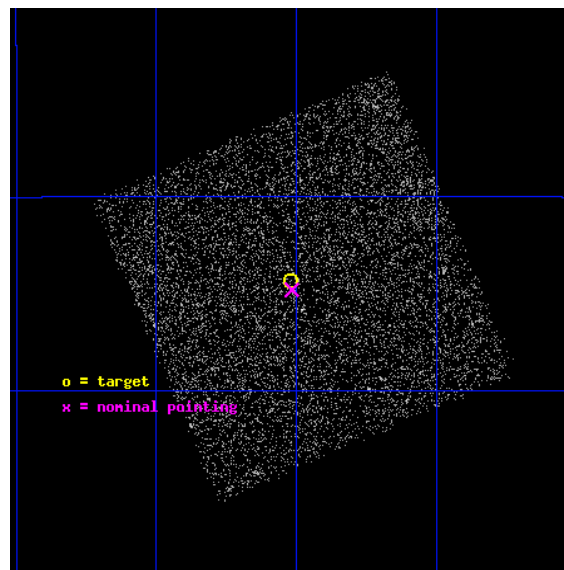
L2 Processing Date : Jun 6 2012

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# 1 Front

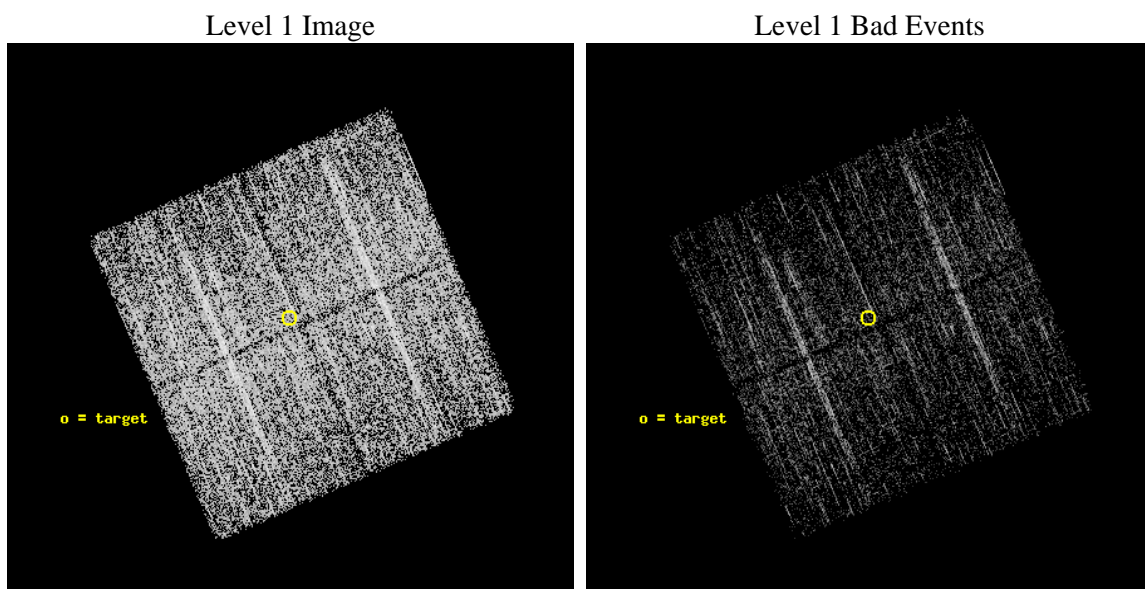
seq_num	702704	Sequence number
obs_id	13983	Observation id
title	Chandra observations of the faintest hard X-ray sources in the SIX survey	Proposal title
observer	Dr Eugenio Bottacini	Principal investigator
object	six-18	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	221.005	Observer's specified target RA [deg]
dec_targ	-12.238611	Observer's specified target Dec [deg]
ra_nom	221.00410377141	Nominal RA [deg]
dec_nom	-12.246609429929	Nominal Dec [deg]
roll_nom	246.70063580972	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5090.1244964004	Sum of GTIs [s]
livetime	5023.6182725597	Livetime [s]
ontime0	5090.0013763905	Sum of GTIs [s]
ontime1	5090.0424163938	Sum of GTIs [s]
ontime2	5090.0834563971	Sum of GTIs [s]
ontime3	5090.1244964004	Sum of GTIs [s]
l2events	11480	Number of level 2 events



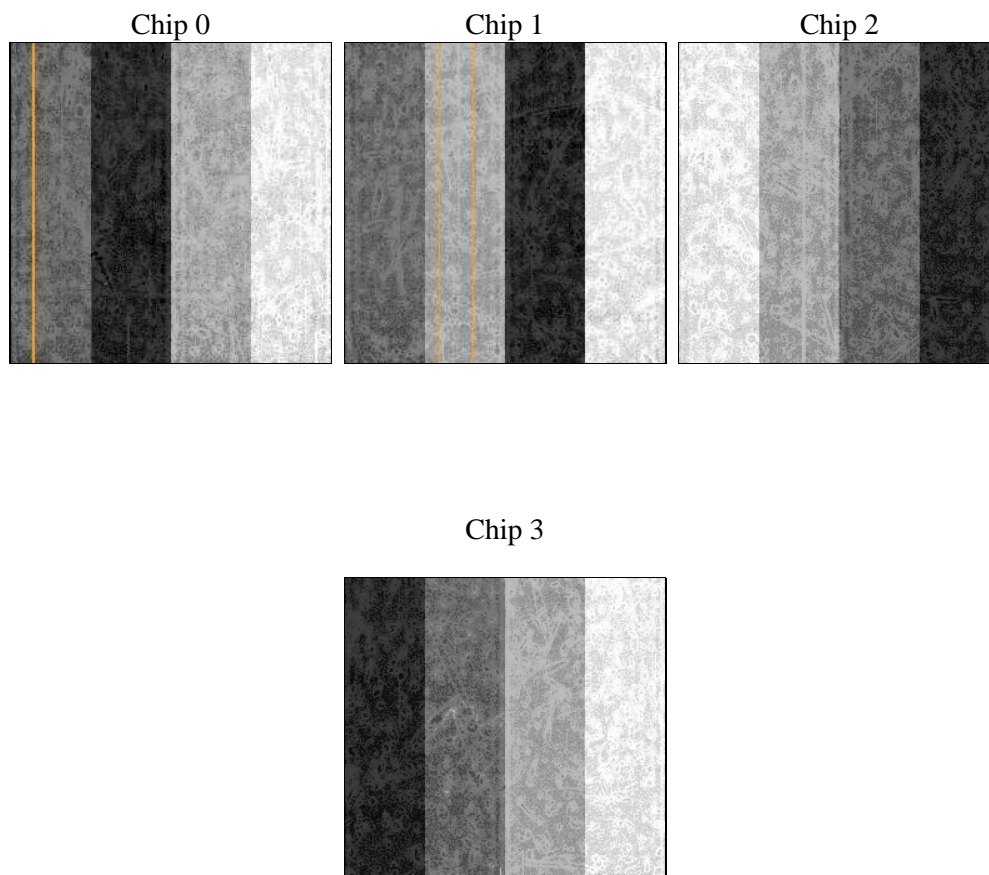
## 2 OBI

### 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	5090.1244964004	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime0	5090.0013763905	Sum of GTIs [s]
date	2012-06-06T14:51:06	Date and time of file creation	ontime1	5090.0424163938	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5090.0834563971	Sum of GTIs [s]
			ontime3	5090.1244964004	Sum of GTIs [s]
			l1events	108857	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	25759	28112	27318	27668
rejected events	22381	24308	23946	24521
rejected %	86%	86%	87%	88%

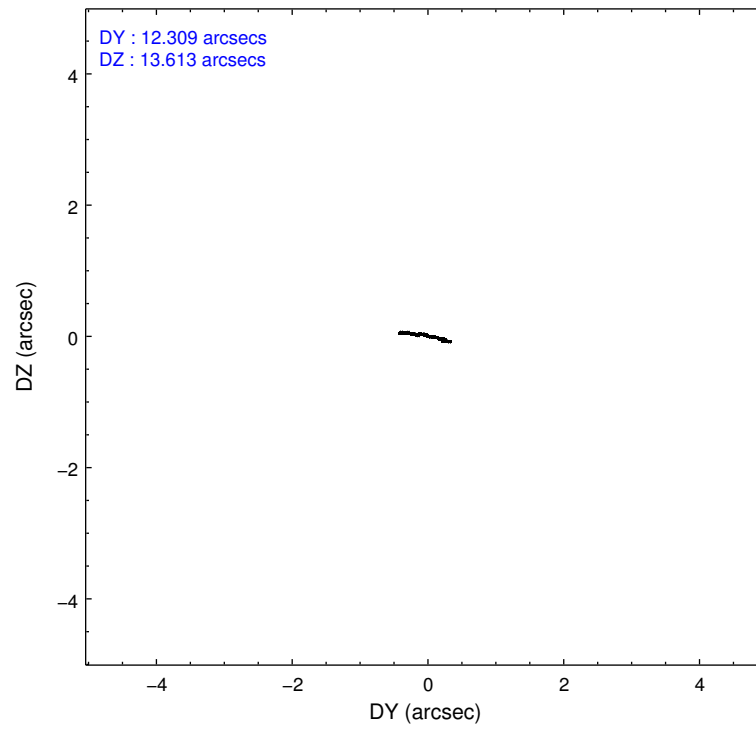
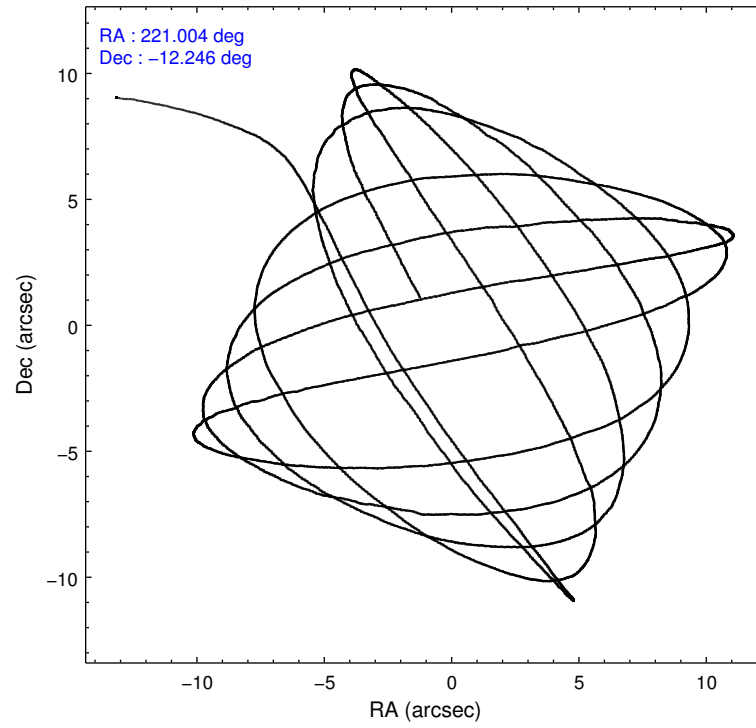
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1218	1330	1234	1110
	4%	4%	4%	4%
grade 1 events	17	17	15	17
	0%	0%	0%	0%
grade 2 events	844	930	840	669
	3%	3%	3%	2%
grade 3 events	373	377	333	332
	1%	1%	1%	1%
grade 4 events	310	387	344	359
	1%	1%	1%	1%
grade 5 events	1284	1387	1196	1510
	4%	4%	4%	5%
grade 6 events	634	782	622	678
	2%	2%	2%	2%
grade 7 events	21079	22902	22734	22993
	81%	81%	83%	83%

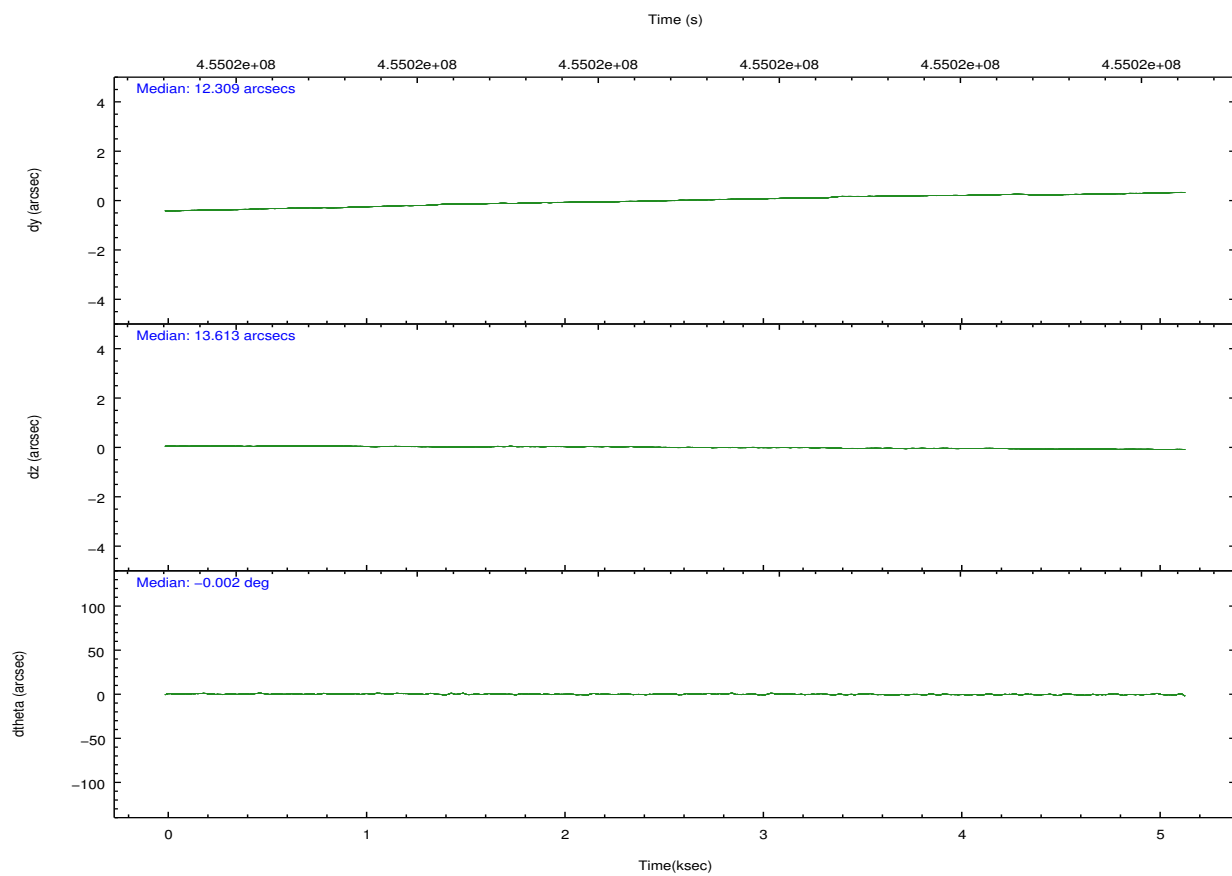
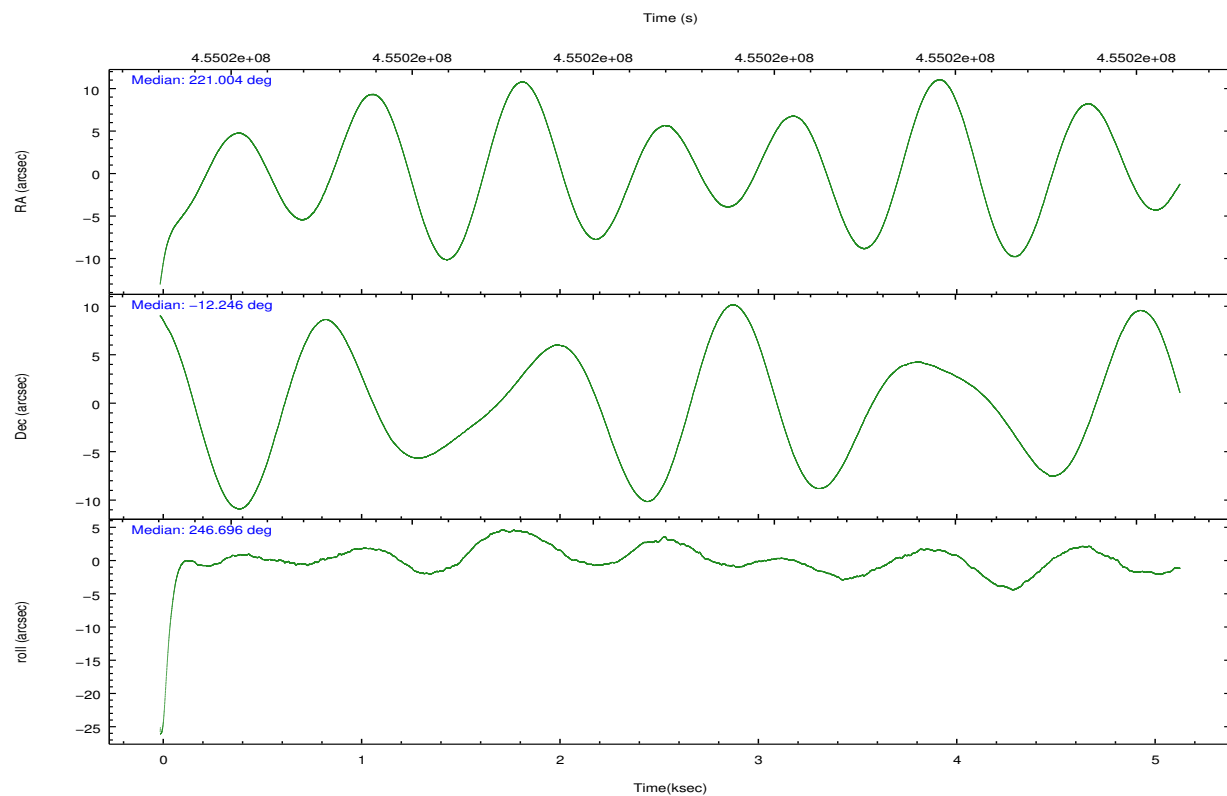


## 2.2 Compared Parameters

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	221.000738	221.0041037714115	Subarray requested	NONE	NONE
[deg] Pointing Dec	-12.219347	-12.24660942992888	Alternating exposures requested	N	N
[deg] Pointing Roll	246.491288	246.7006358097189	[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)	455016990.184000	455015907.23213			
Observation start date	2012-06-02T09:35:24	2012-06-02T09:18:27			
[s] Observation end time (MET)	455021990.184000	455023429.70753			
Observation end date	2012-06-02T10:58:44	2012-06-02T11:23:49			
Read mode	TIMED	TIMED			

## 2.3 Aspect



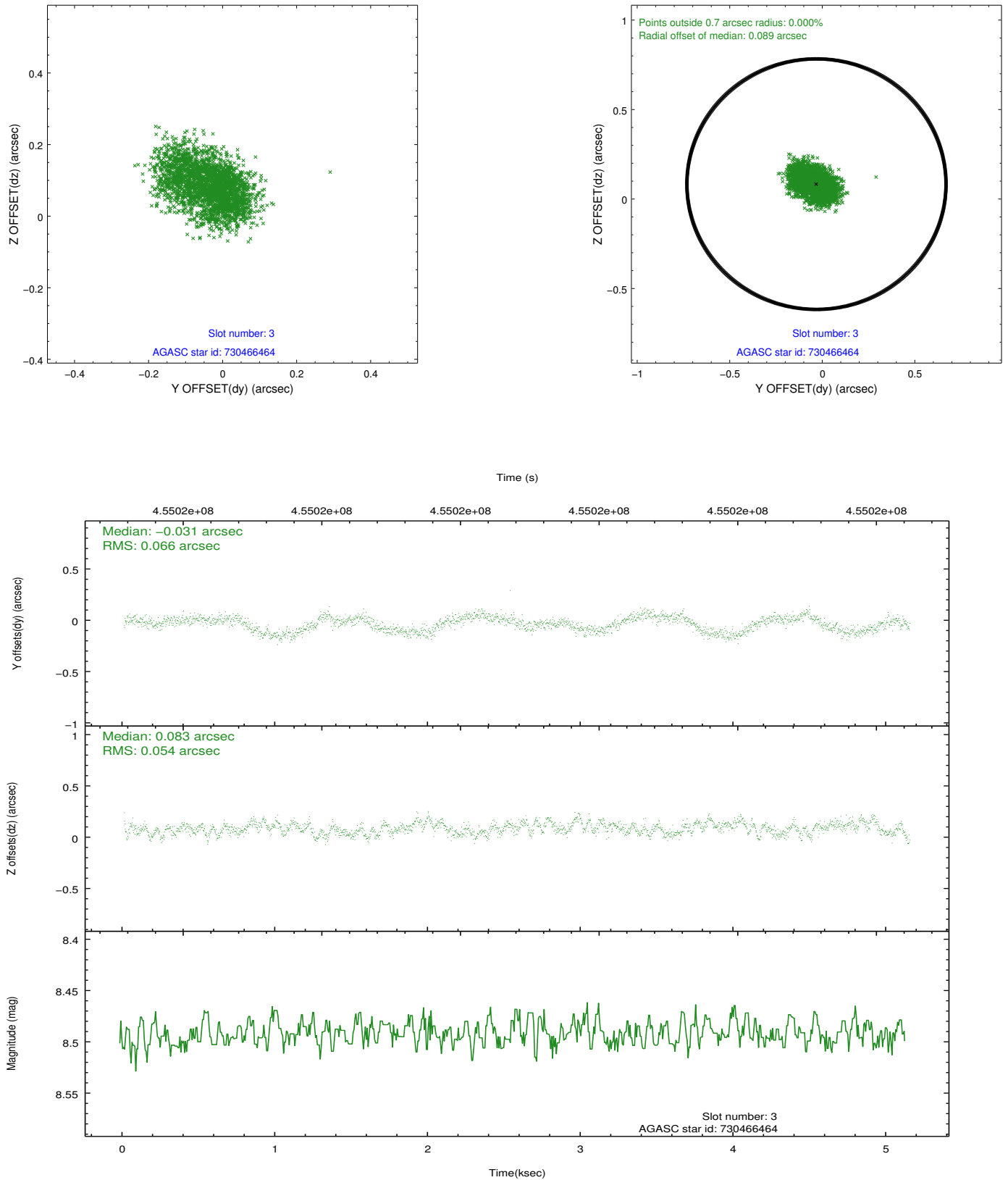


### Slot Statistics

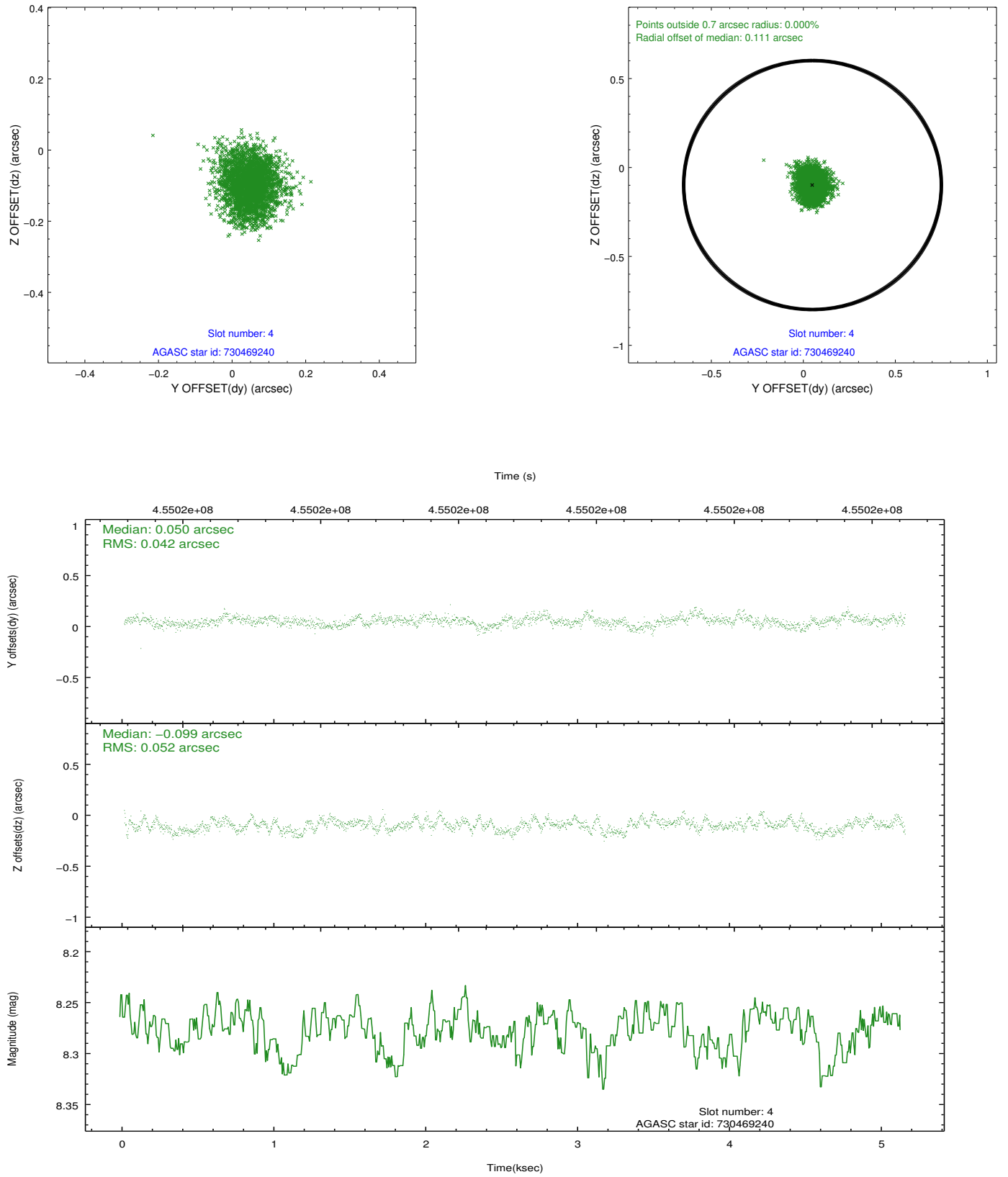
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.00	1254	0.049	0.009	0.009	0.016	0.000000	0.000000	927.29	-837.16
1	FID	ACIS-I-5	7.00	1254	-0.187	0.066	0.008	0.014	0.000000	0.000000	-1820.41	1059.78
2	FID	ACIS-I-6	7.01	1253	0.047	-0.004	0.008	0.012	0.000000	0.000000	391.53	1705.56
3	GUIDE	730466464	8.49	2506	-0.031	0.083	0.092	0.145	221.070095	-11.617341	-2083.83	-640.74
4	GUIDE	730469240	8.28	2509	0.050	-0.099	0.072	0.115	220.584175	-12.154084	370.88	-1438.71
5	GUIDE	730471088	9.03	2509	0.002	-0.064	0.104	0.164	220.890981	-11.616740	-1834.74	-1220.53
6	GUIDE	730472408	6.56	2509	-0.045	0.005	0.055	0.091	220.509452	-12.234906	742.02	-1562.12
7	GUIDE	730472464	8.82	2506	0.028	0.077	0.069	0.111	221.313657	-12.975741	2060.61	2093.07

## 2.4 Star Slots

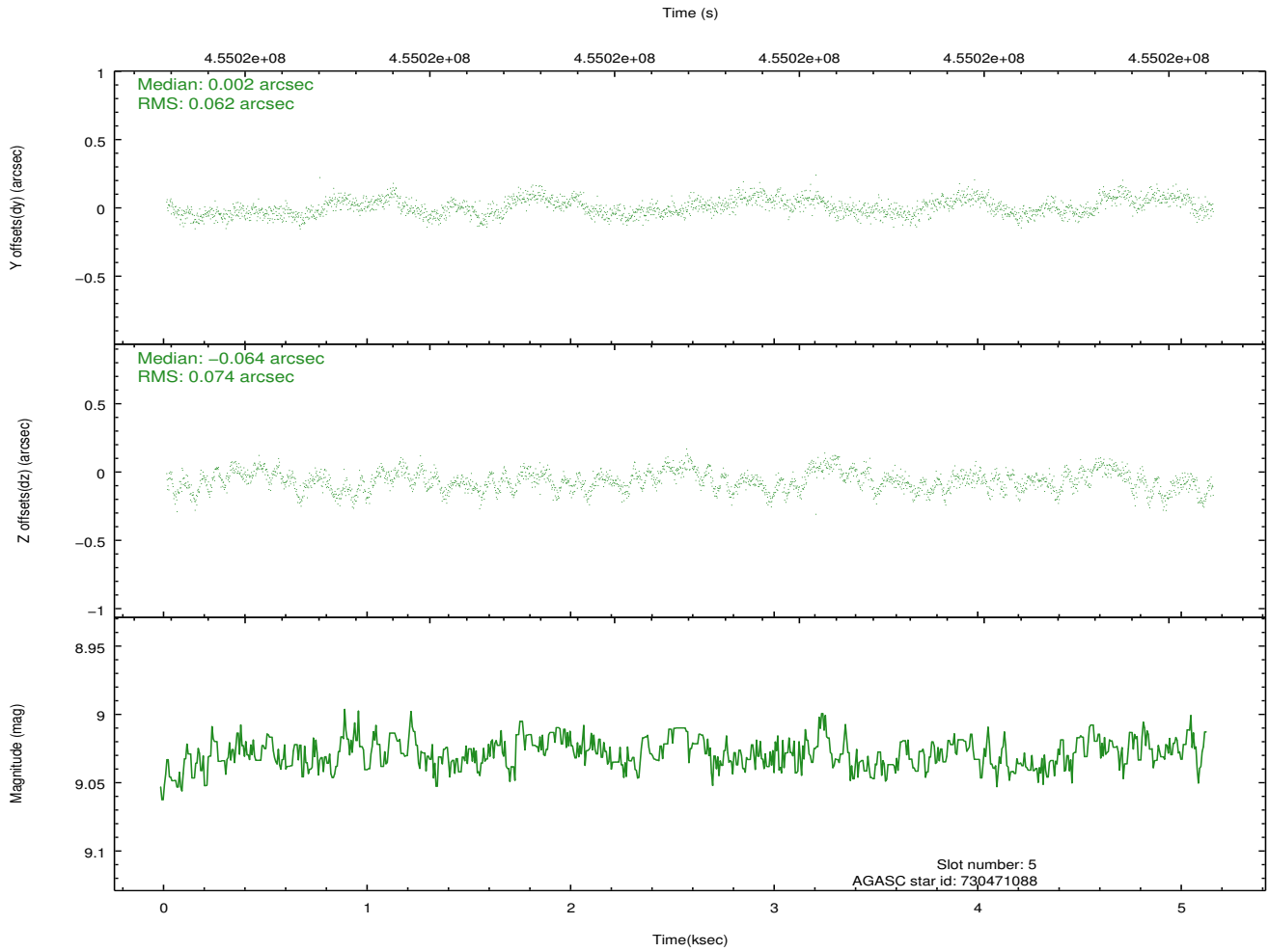
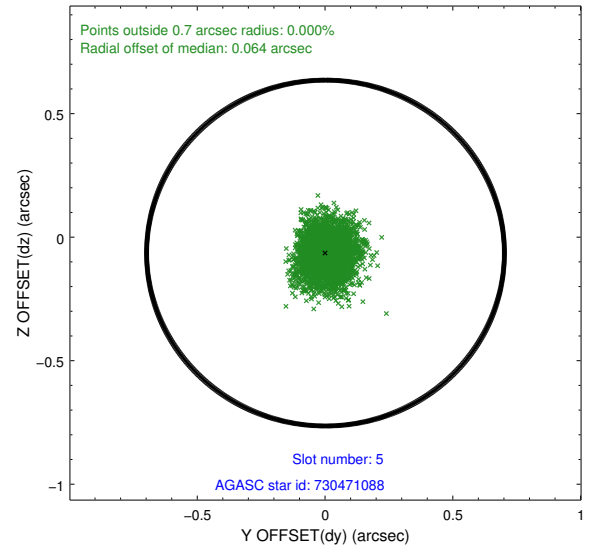
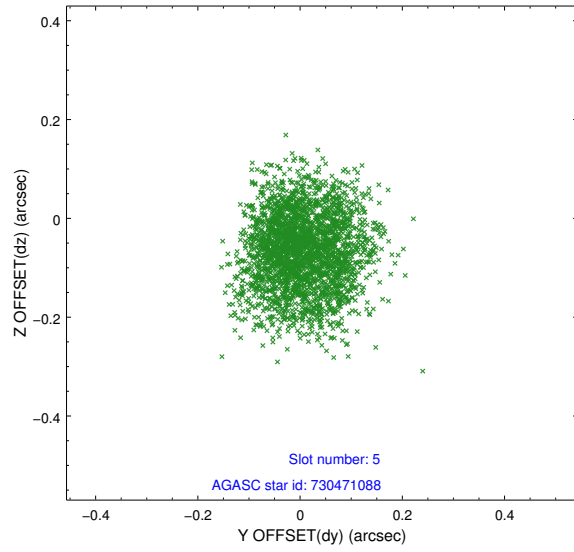
### 2.4.1 Slot 3



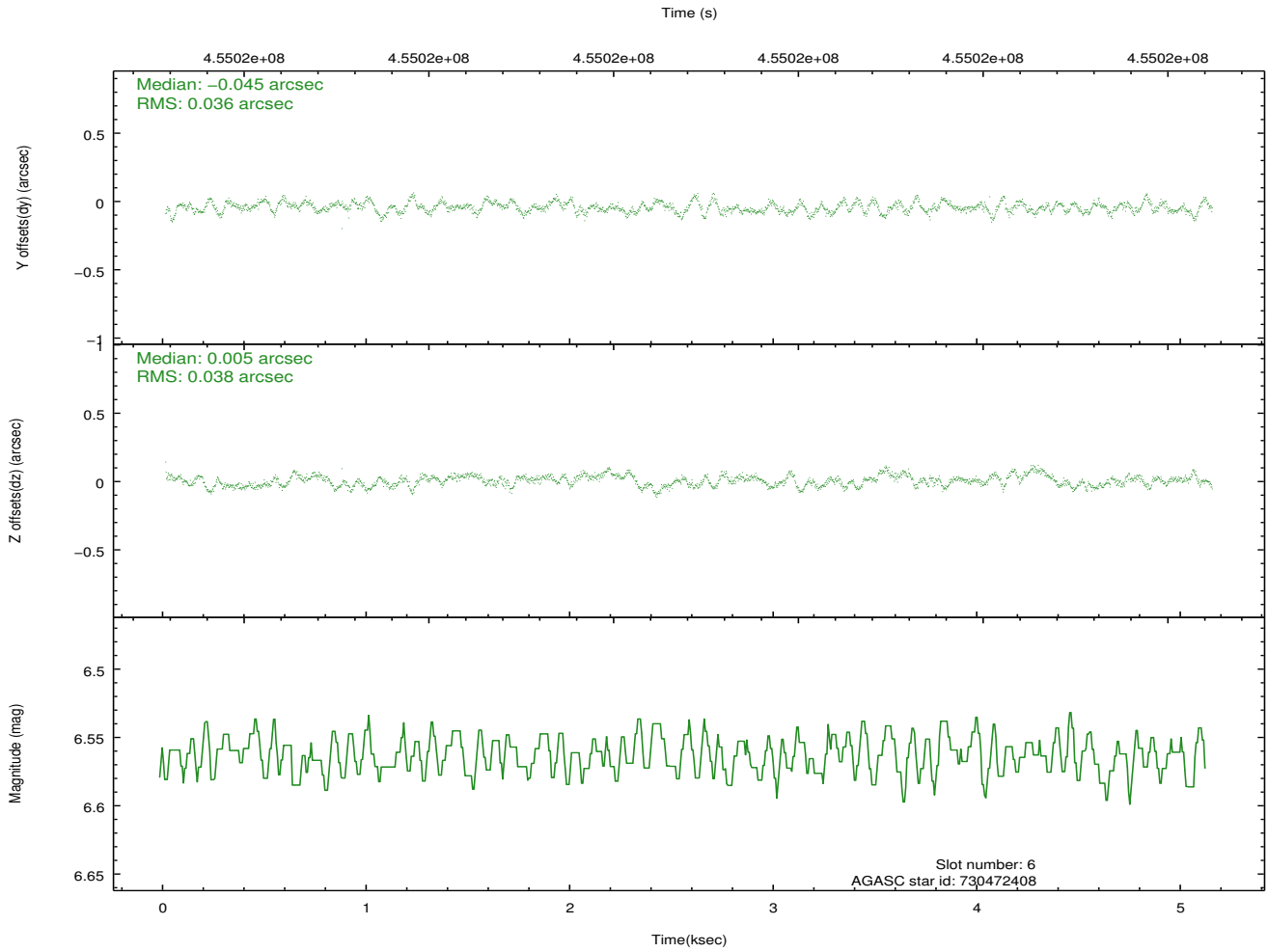
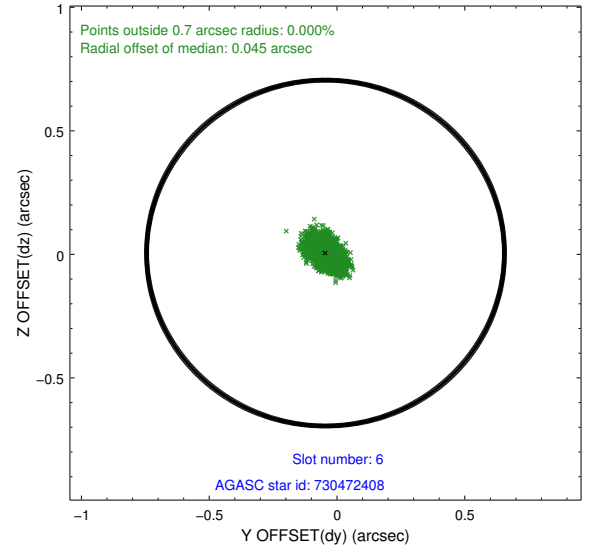
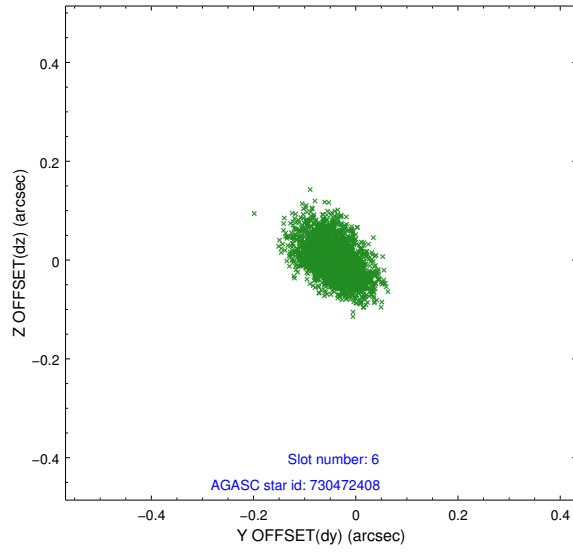
## 2.4.2 Slot 4



### 2.4.3 Slot 5

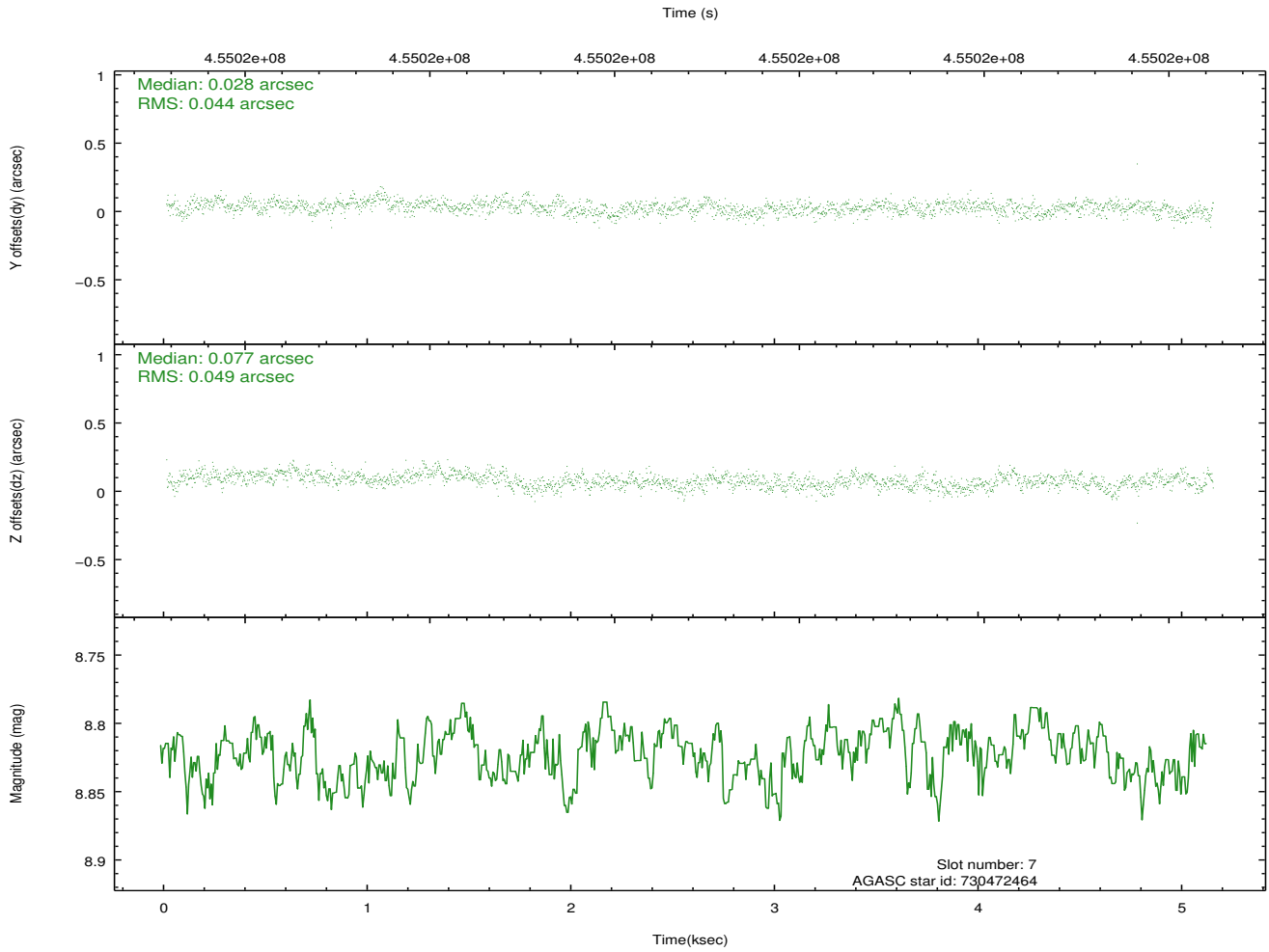
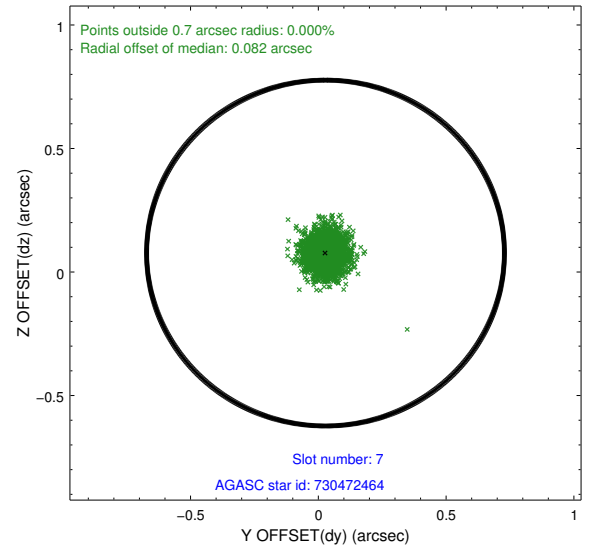
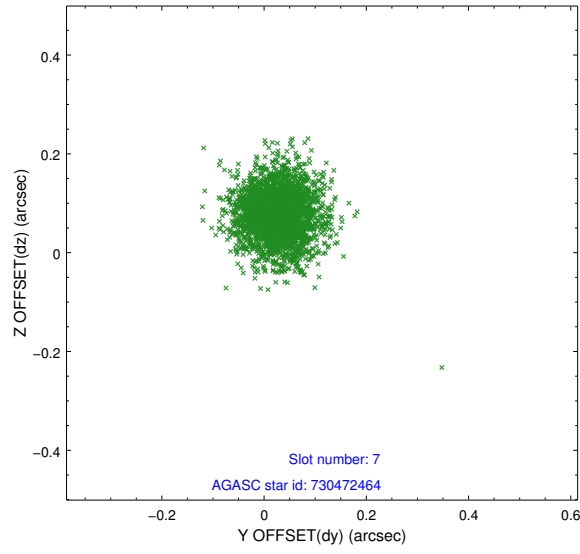


## 2.4.4 Slot 6



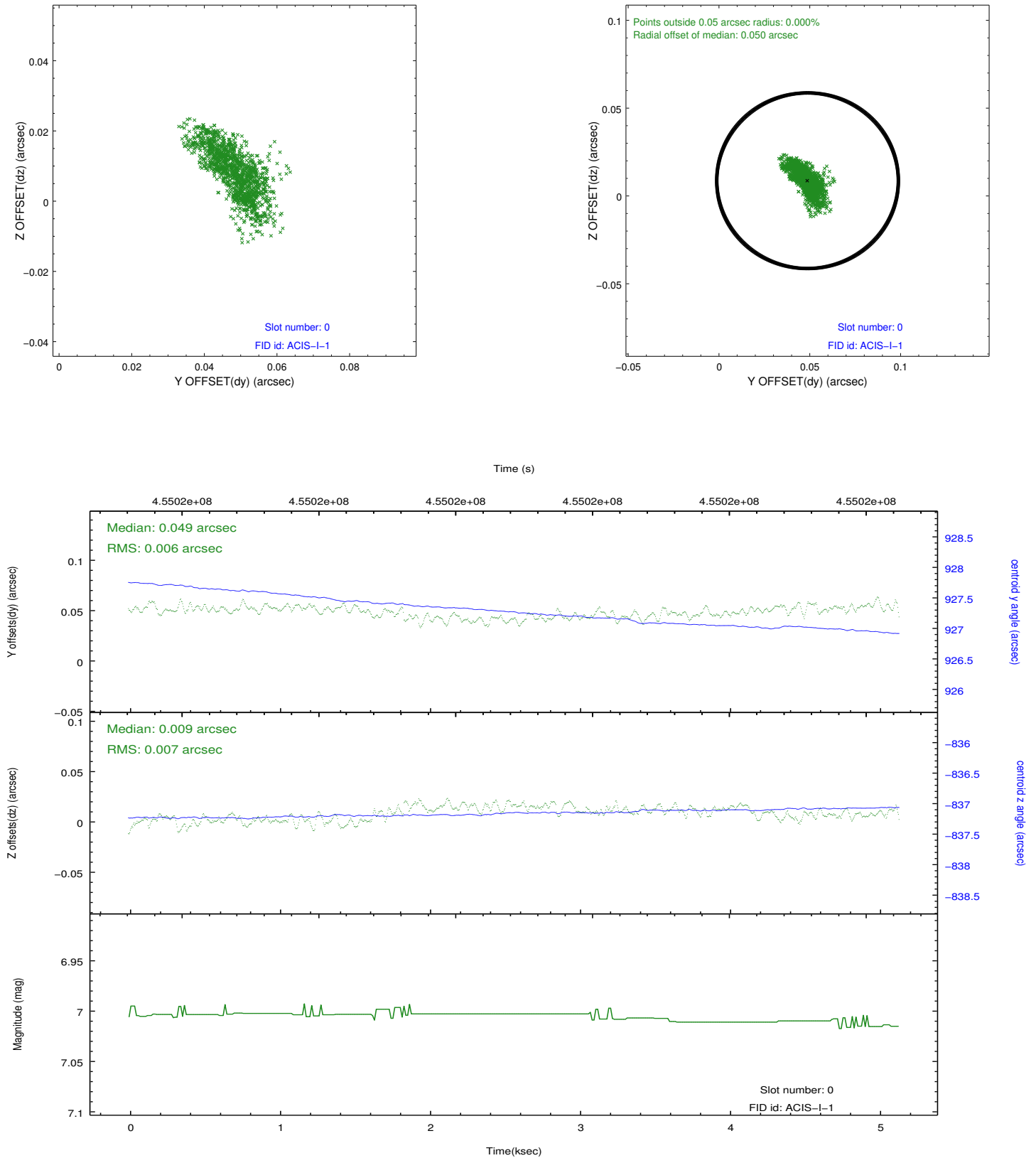


### 2.4.5 Slot 7

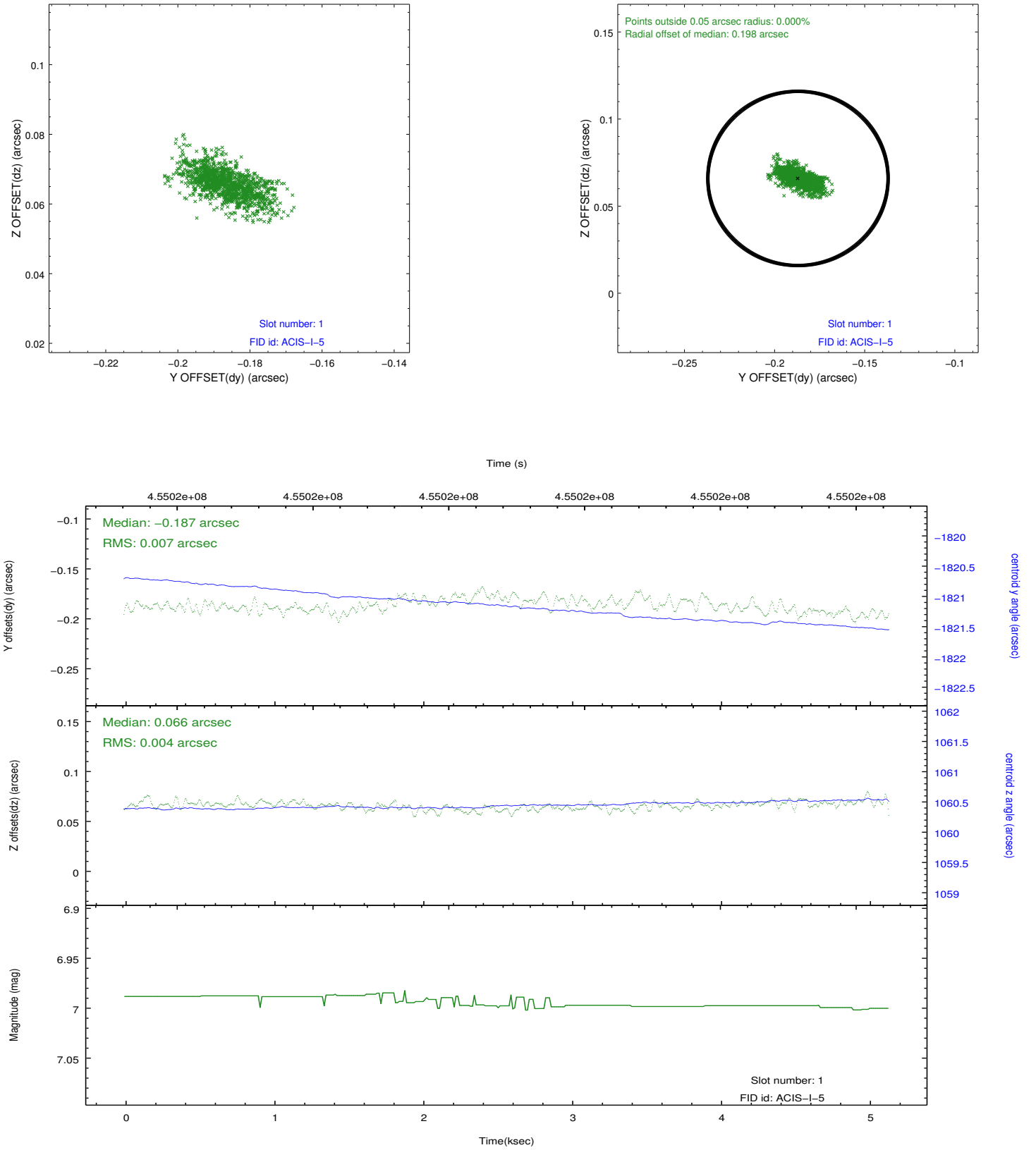


## 2.5 FID Slots

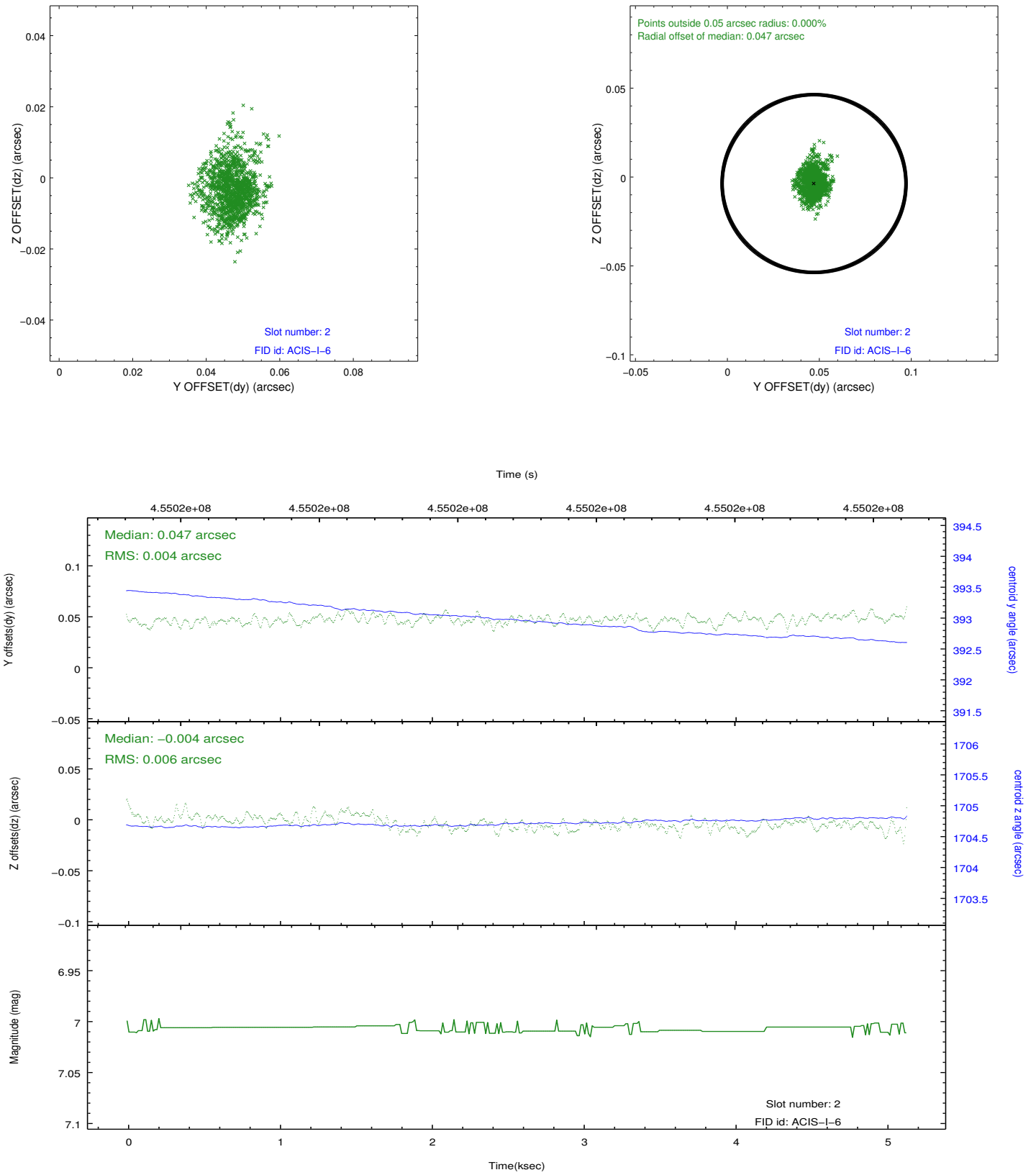
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0901244964004

### A.2 Comments