

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9993 - L2 Version 2  
Chandra X-Ray Center

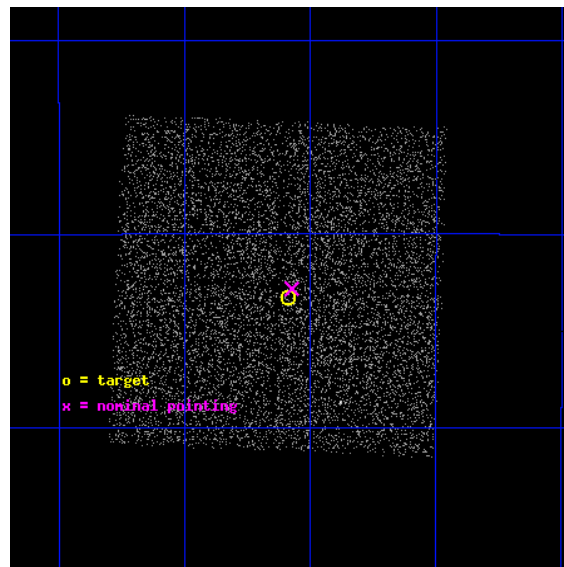
L2 Processing Date : Jun 1 2012

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# 1 Front

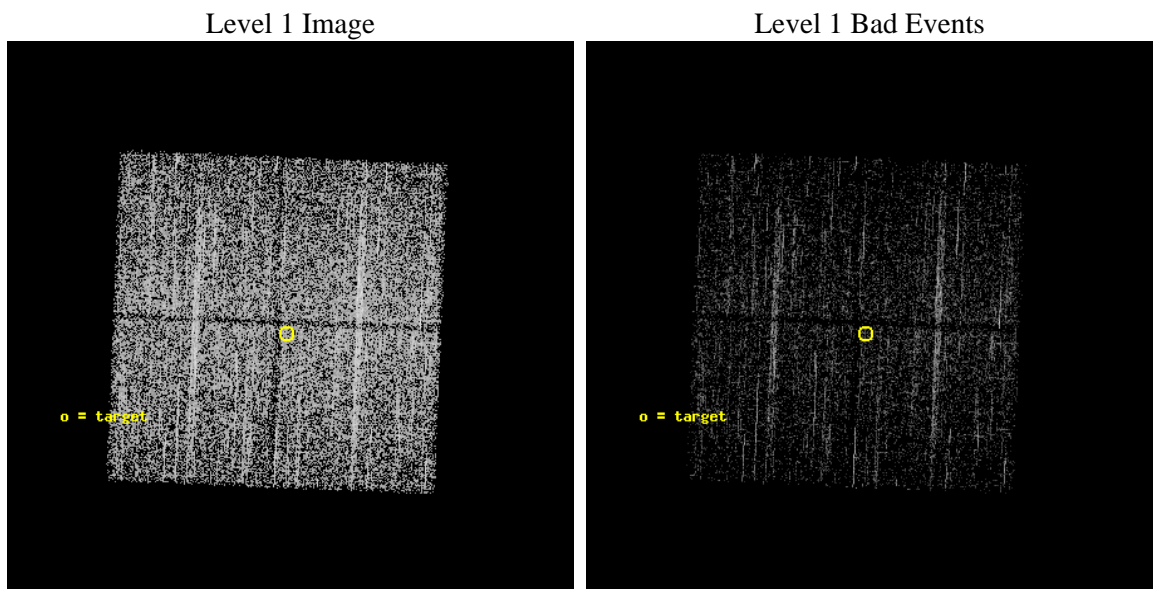
seq_num	400957	Sequence number
obs_id	9993	Observation id
title	Completing the Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS3-10	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	264.271542	Observer's specified target RA [deg]
dec_targ	-28.721333	Observer's specified target Dec [deg]
ra_nom	264.26847958549	Nominal RA [deg]
dec_nom	-28.713830723441	Nominal Dec [deg]
roll_nom	92.392439058948	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2185.5000168085	Sum of GTIs [s]
livetime	2156.9448501472	Livetime [s]
ontime0	2185.5000168085	Sum of GTIs [s]
ontime1	2185.5000168085	Sum of GTIs [s]
ontime2	2185.5000168085	Sum of GTIs [s]
ontime3	2185.5000168085	Sum of GTIs [s]
l2events	10775	Number of level 2 events



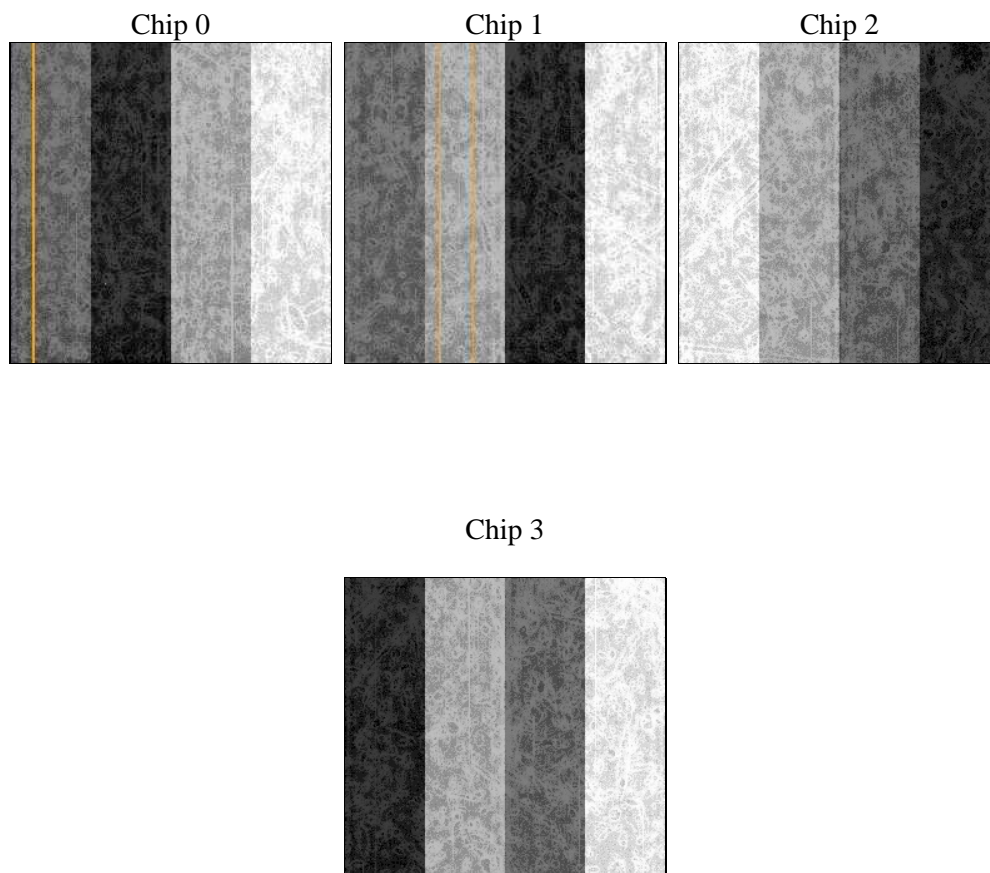
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2185.5000168085	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2185.5000168085	Sum of GTIs [s]
date	2012-06-01T05:47:57	Date and time of file creation	ontime1	2185.5000168085	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2185.5000168085	Sum of GTIs [s]
			ontime3	2185.5000168085	Sum of GTIs [s]
			l1events	101540	Number of level 1 events

### 2.1.4 Events

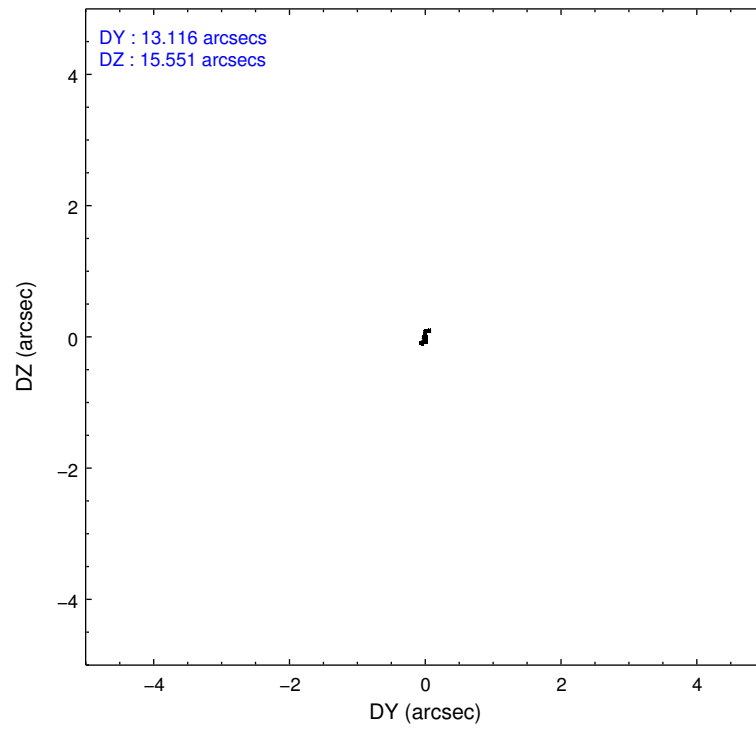
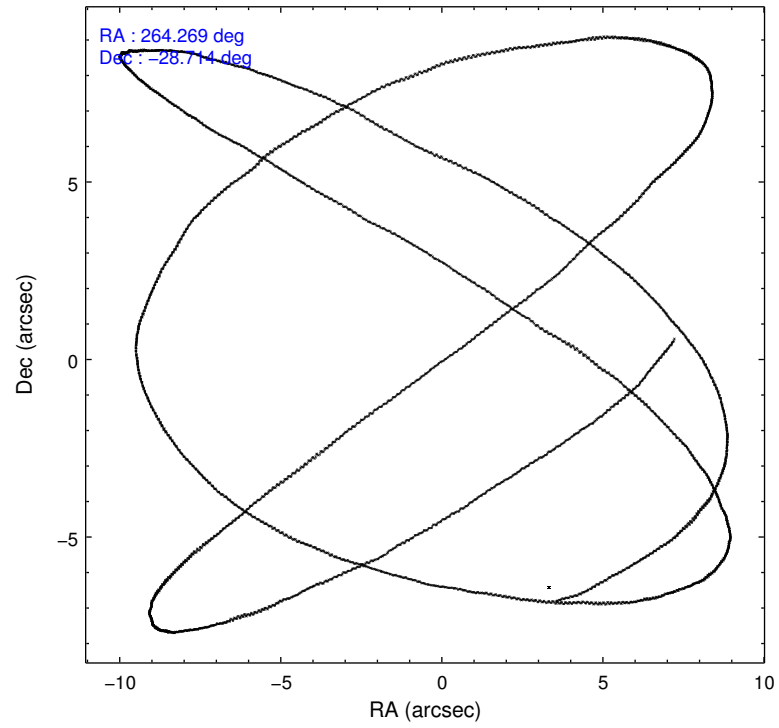
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	24759	24610	25924	26247
rejected events	21690	21487	22837	23123
rejected %	87%	87%	88%	88%

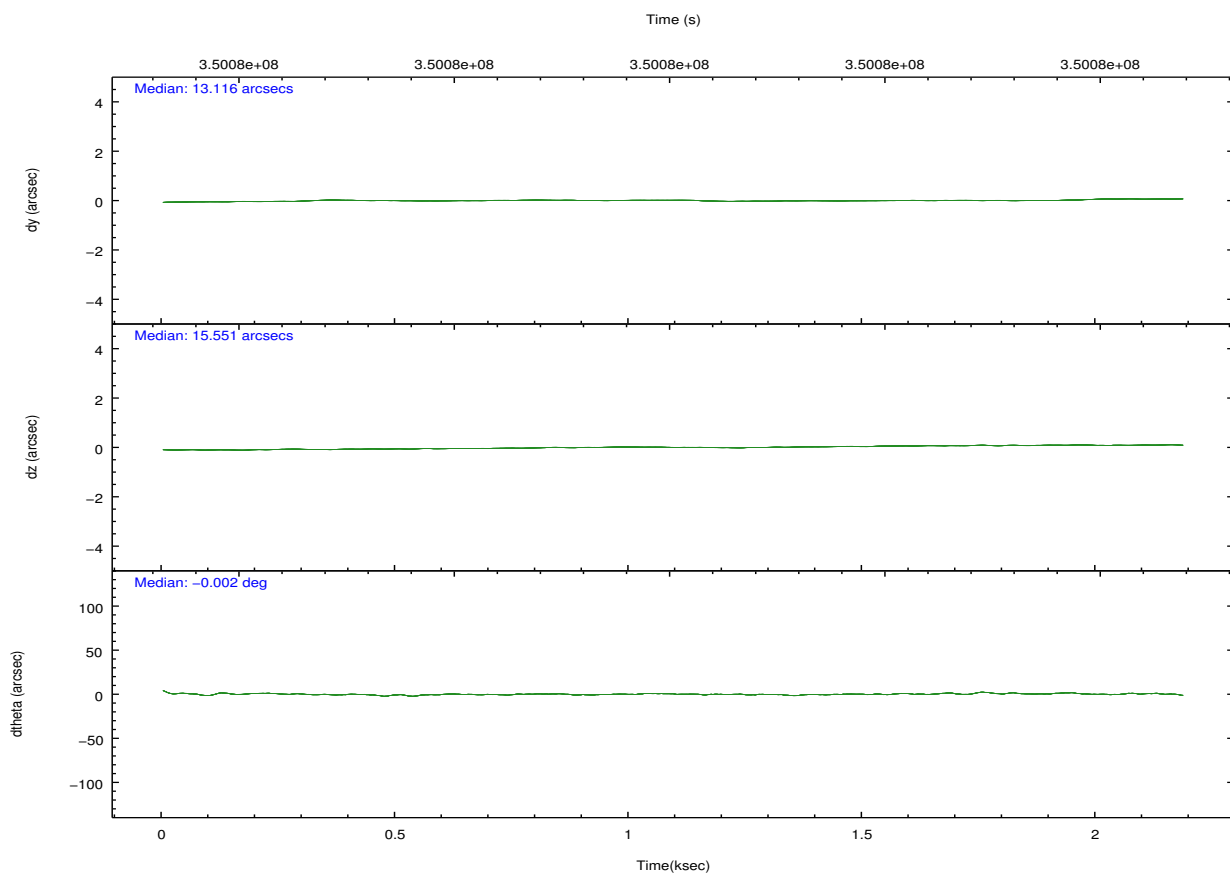
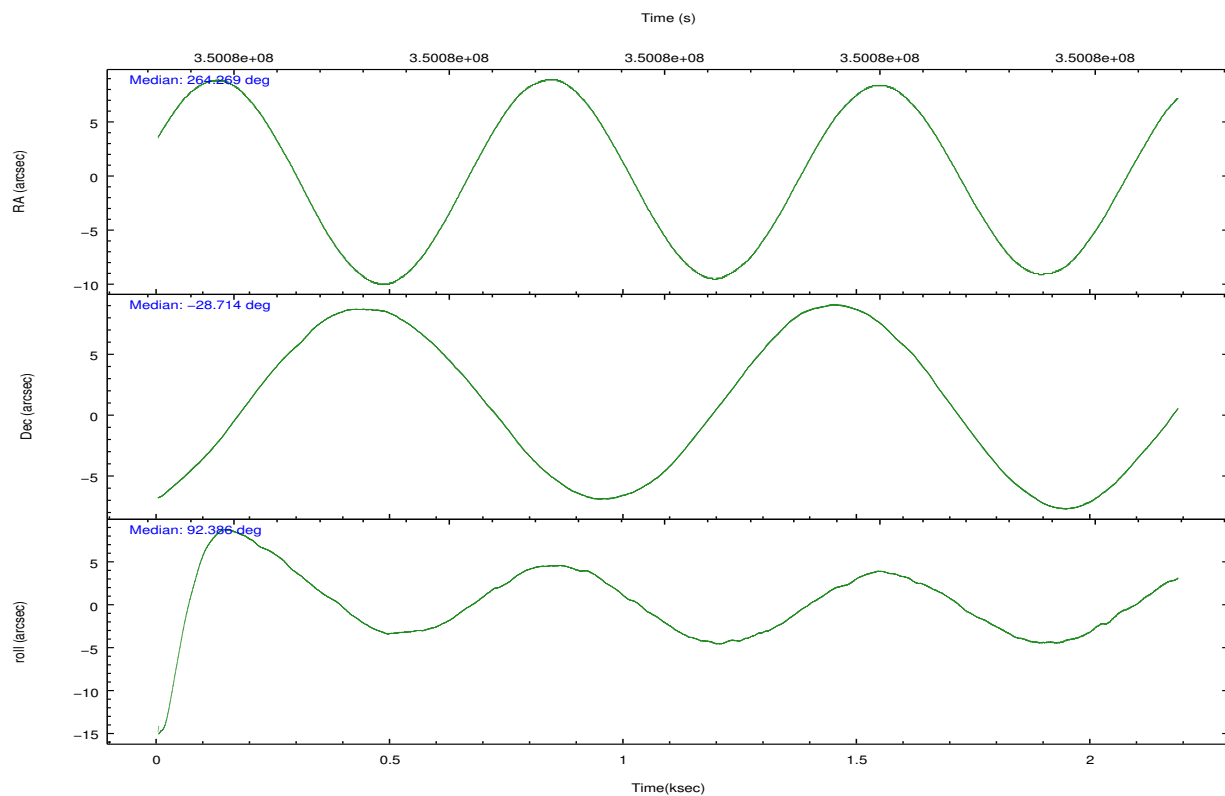
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1593	1439	1678	1691
	6%	5%	6%	6%
grade 1 events	16	18	14	8
	0%	0%	0%	0%
grade 2 events	767	808	740	656
	3%	3%	2%	2%
grade 3 events	300	345	313	322
	1%	1%	1%	1%
grade 4 events	293	305	303	329
	1%	1%	1%	1%
grade 5 events	1059	1084	1049	1239
	4%	4%	4%	4%
grade 6 events	598	684	501	601
	2%	2%	1%	2%
grade 7 events	20133	19927	21326	21401
	81%	80%	82%	81%

## 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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	264.285346	264.2684795854938	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.736888	-28.71383072344073	Alternating exposures requested	N	N
[deg] Pointing Roll	92.191893	92.39243905894826	[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)	350082108.184000	350081732.43003			
Observation start date	2009-02-03T21:00:42	2009-02-03T20:55:32			
[s] Observation end time (MET)	350084108.184000	350084242.65516			
Observation end date	2009-02-03T21:34:02	2009-02-03T21:37:22			
Read mode	TIMED	TIMED			

## 2.3 Aspect



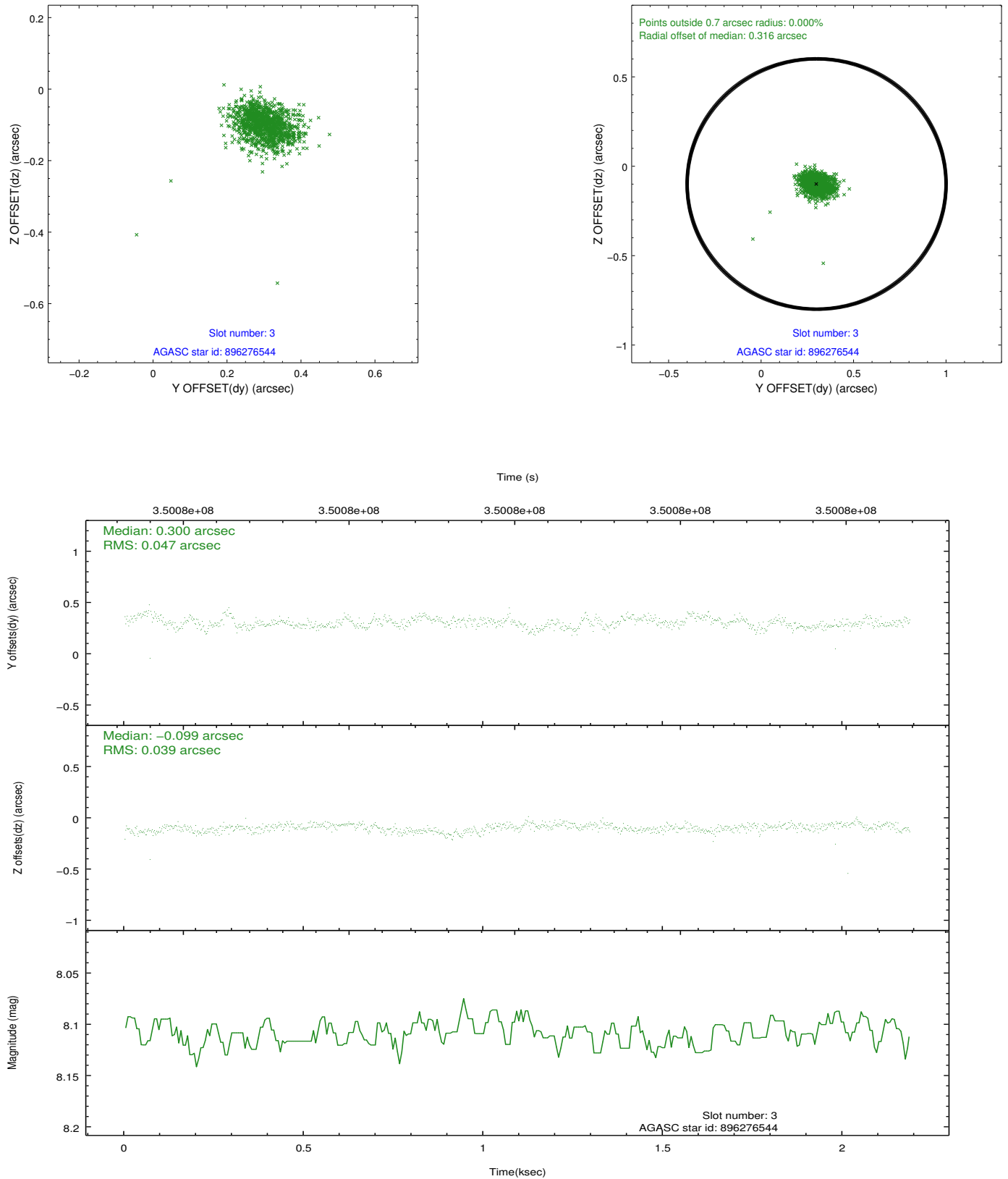


### Slot Statistics

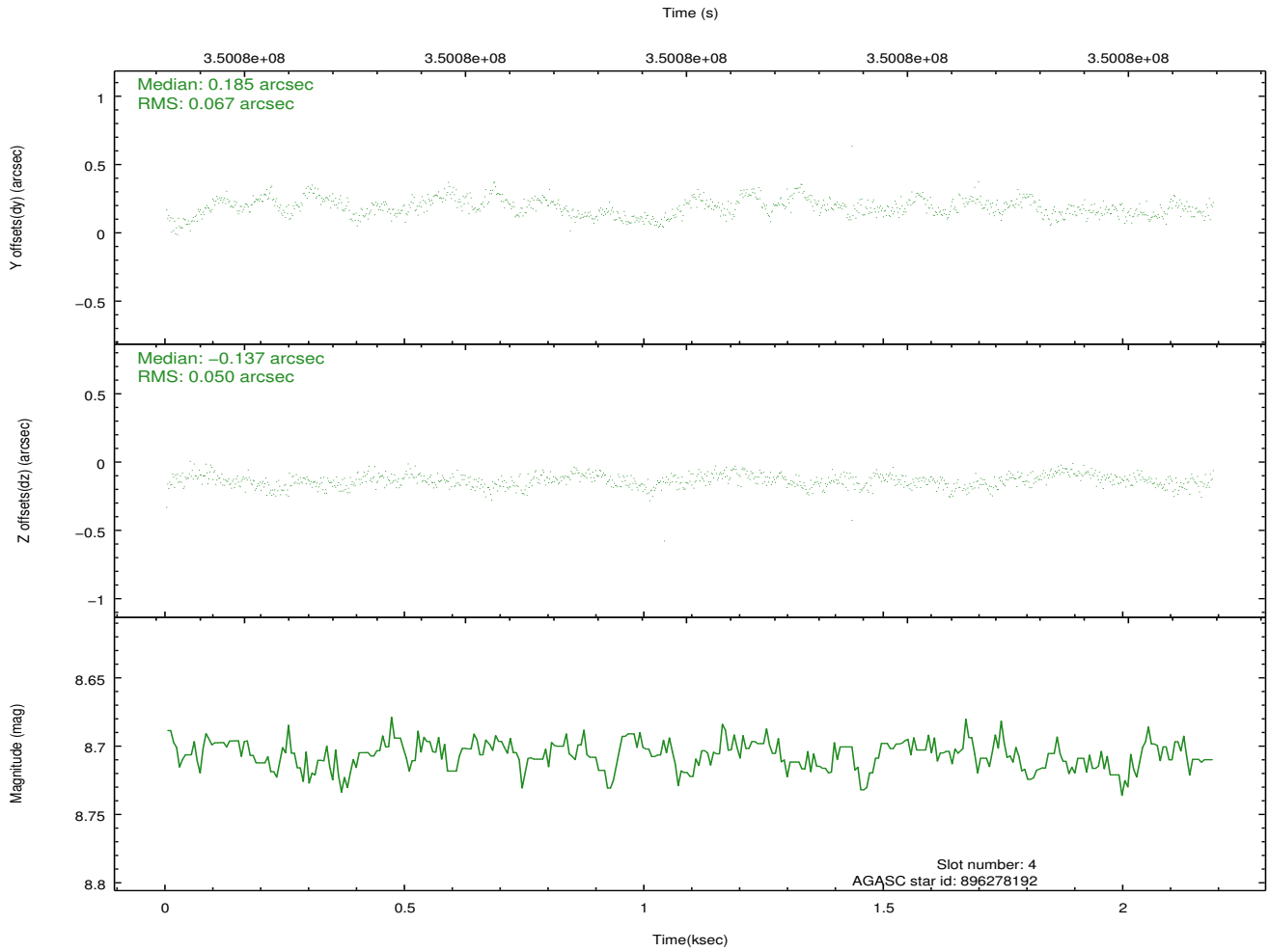
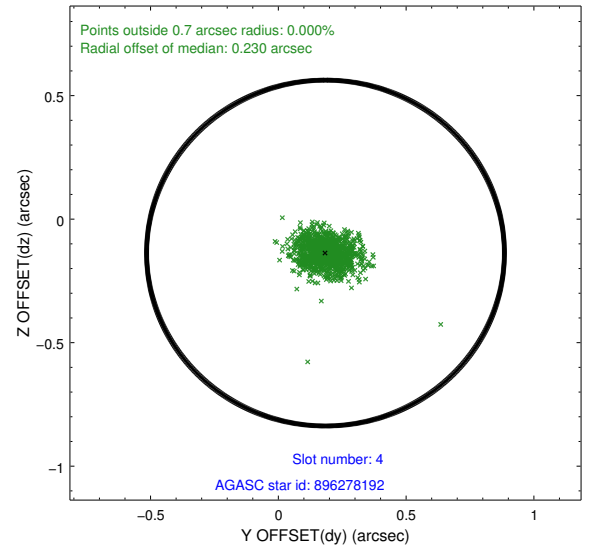
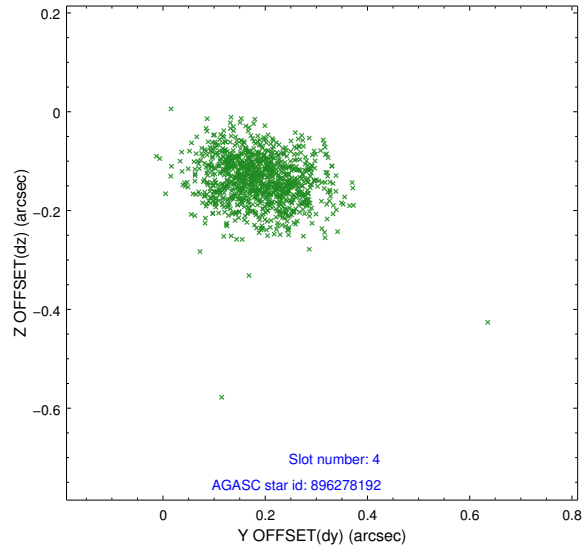
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.00	533	-0.017	-0.032	0.010	0.017	0.000000	0.000000	926.38	-839.19
1	FID	ACIS-I-4	6.93	533	0.162	0.054	0.008	0.014	0.000000	0.000000	2148.25	1059.20
2	FID	ACIS-I-5	7.00	533	-0.243	0.048	0.007	0.014	0.000000	0.000000	-1818.02	1060.42
3	GUIDE	896276544	8.11	1067	0.300	-0.099	0.060	0.101	263.666616	-29.255819	-1797.04	2013.51
4	GUIDE	896278192	8.71	1064	0.185	-0.137	0.086	0.142	263.596121	-29.333327	-2070.52	2245.69
5	GUIDE	896405048	8.29	1066	-0.134	0.135	0.065	0.114	264.482575	-28.152230	2077.24	-703.44
6	GUIDE	896405616	7.85	1066	-0.051	0.241	0.060	0.098	264.752771	-28.412560	1109.10	-1522.94
7	GUIDE	896402712	8.06	1066	-0.306	-0.135	0.055	0.088	263.793333	-28.203661	1975.78	1485.41

## 2.4 Star Slots

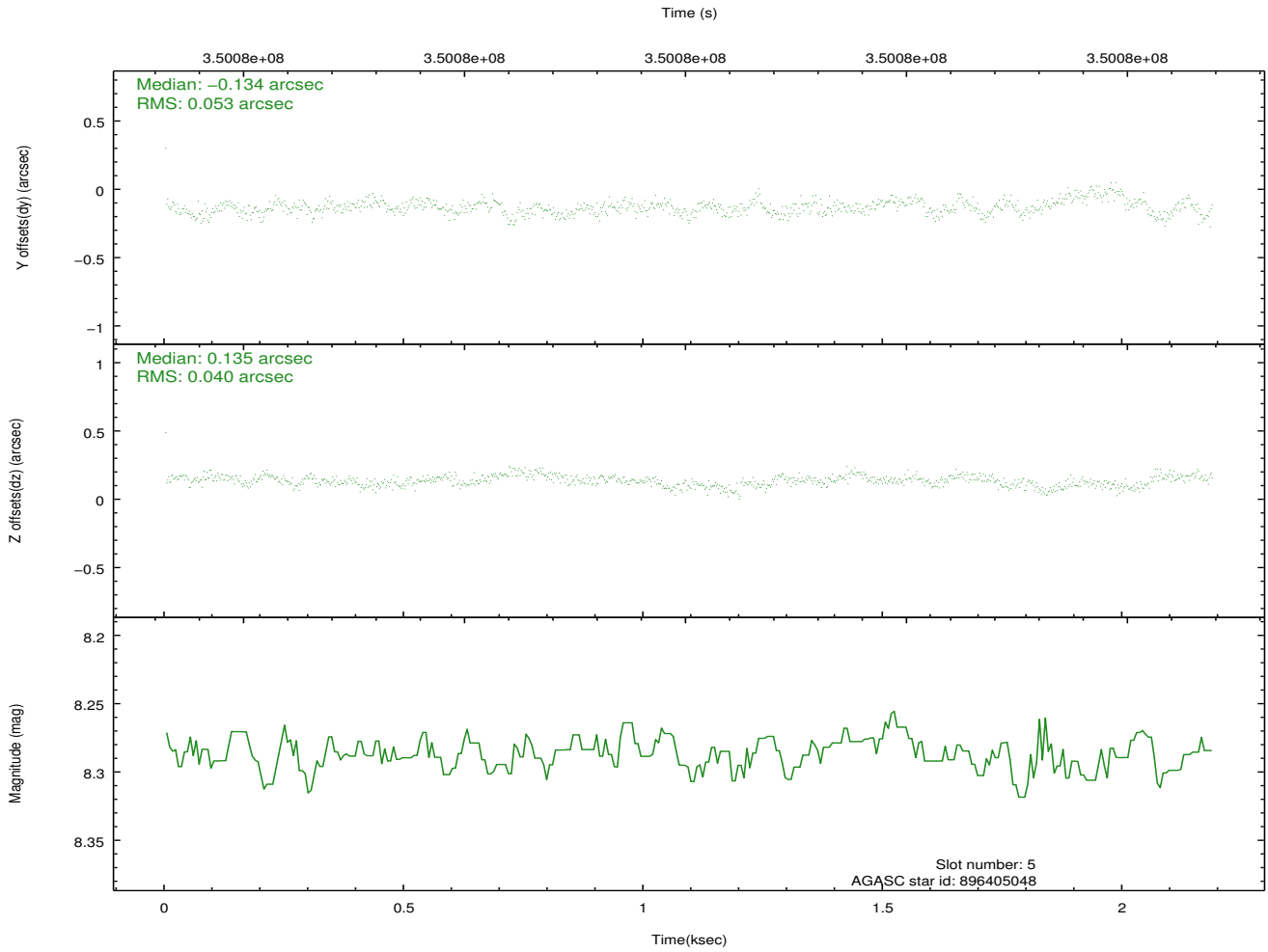
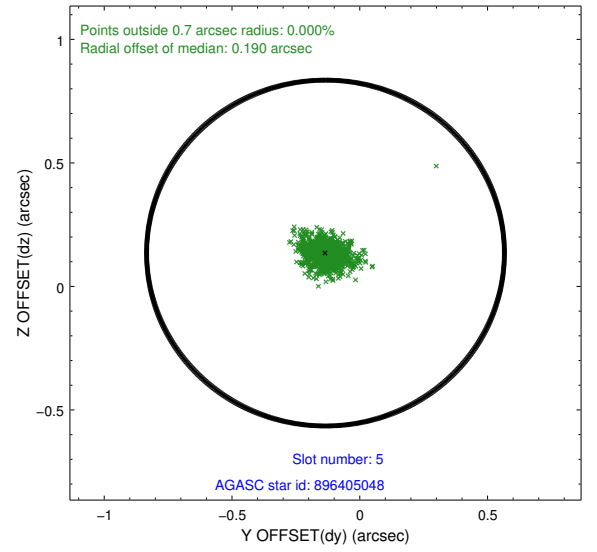
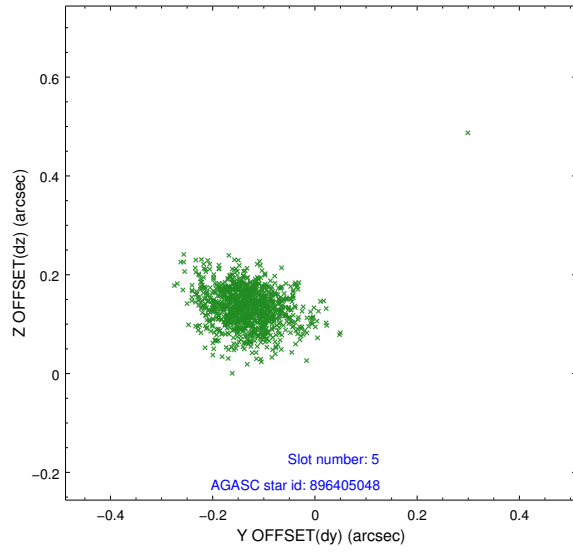
### 2.4.1 Slot 3



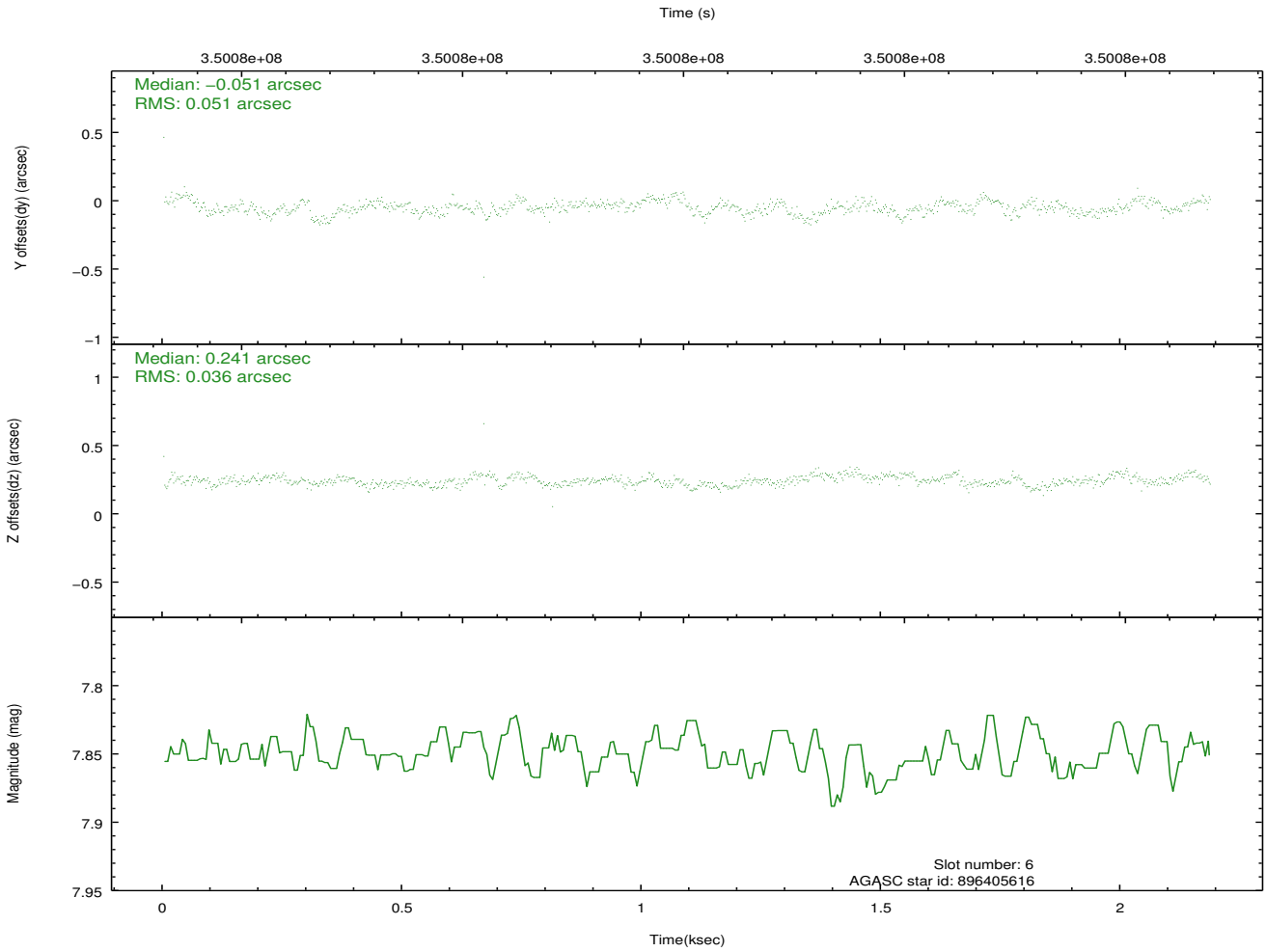
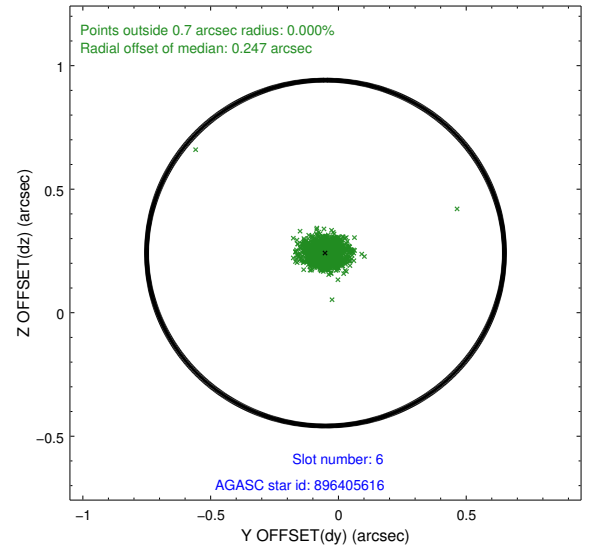
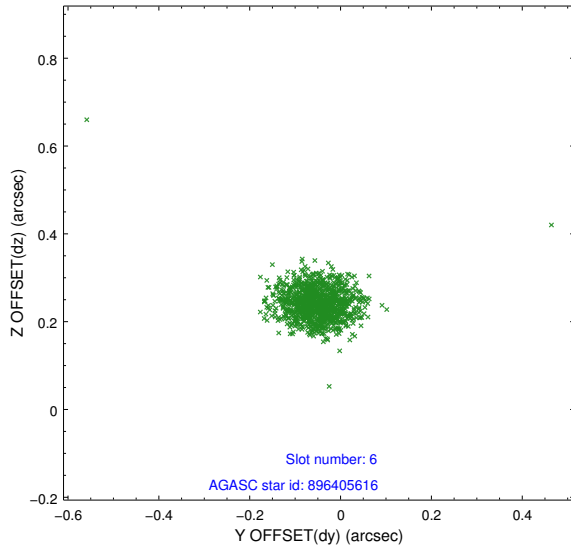
## 2.4.2 Slot 4



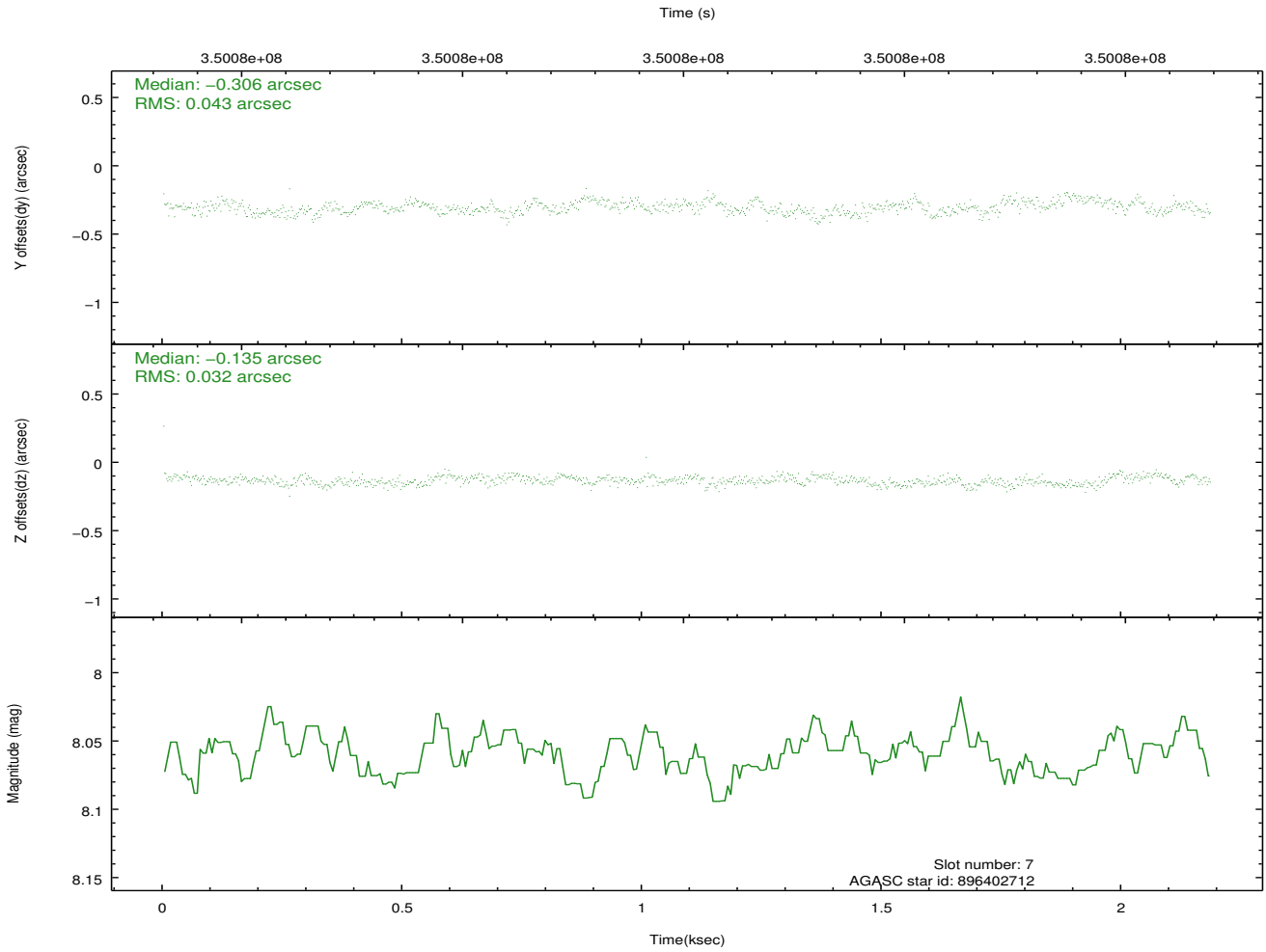
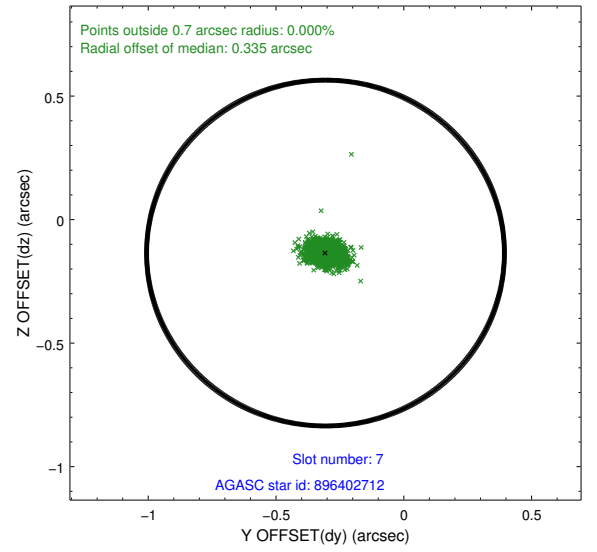
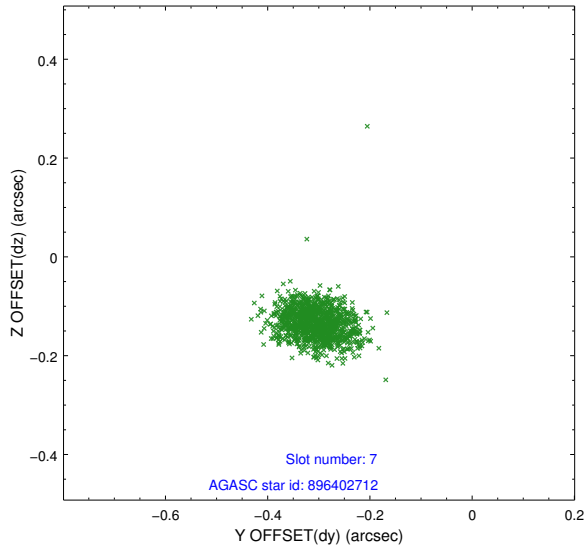
### 2.4.3 Slot 5



## 2.4.4 Slot 6

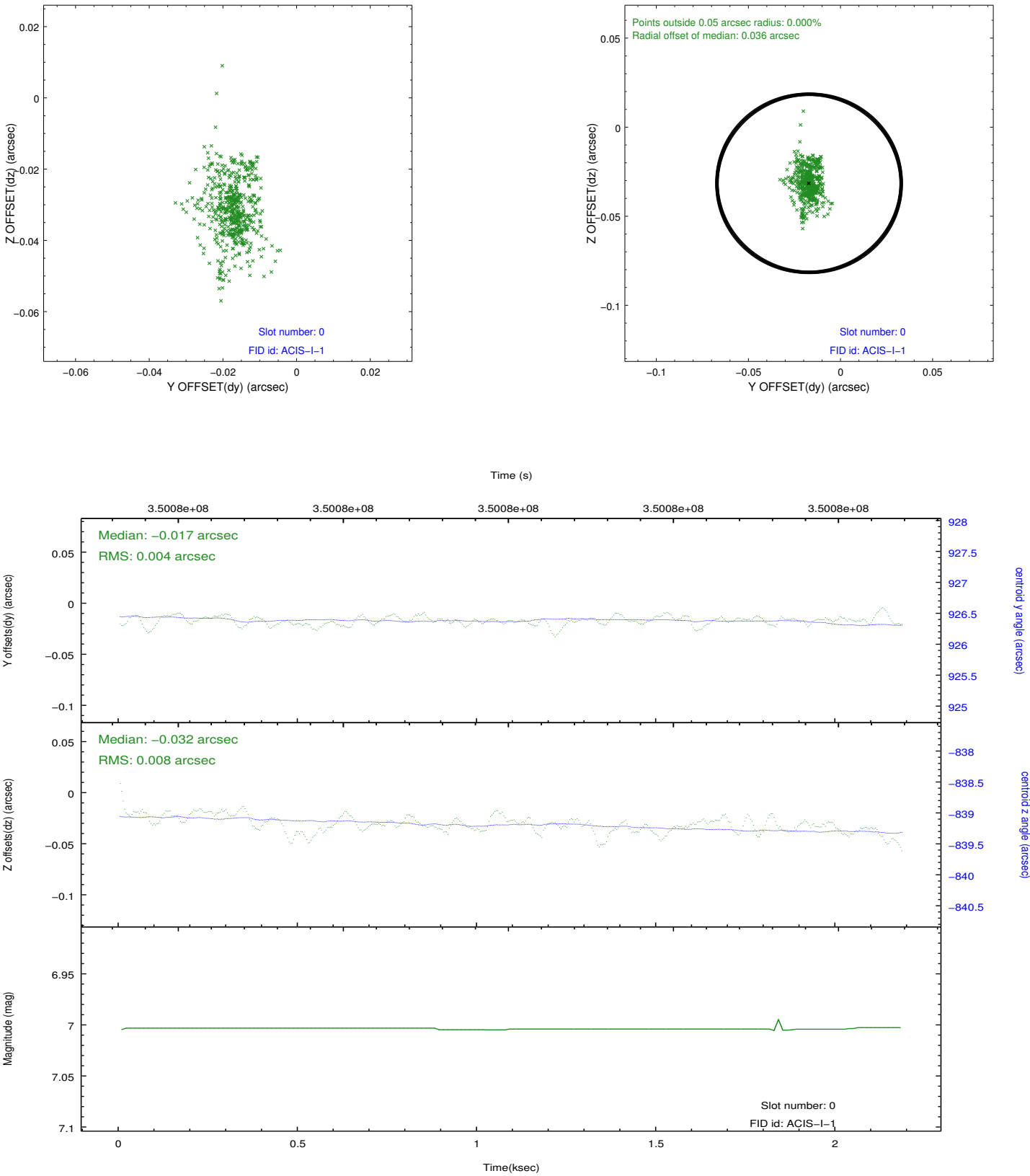


## 2.4.5 Slot 7

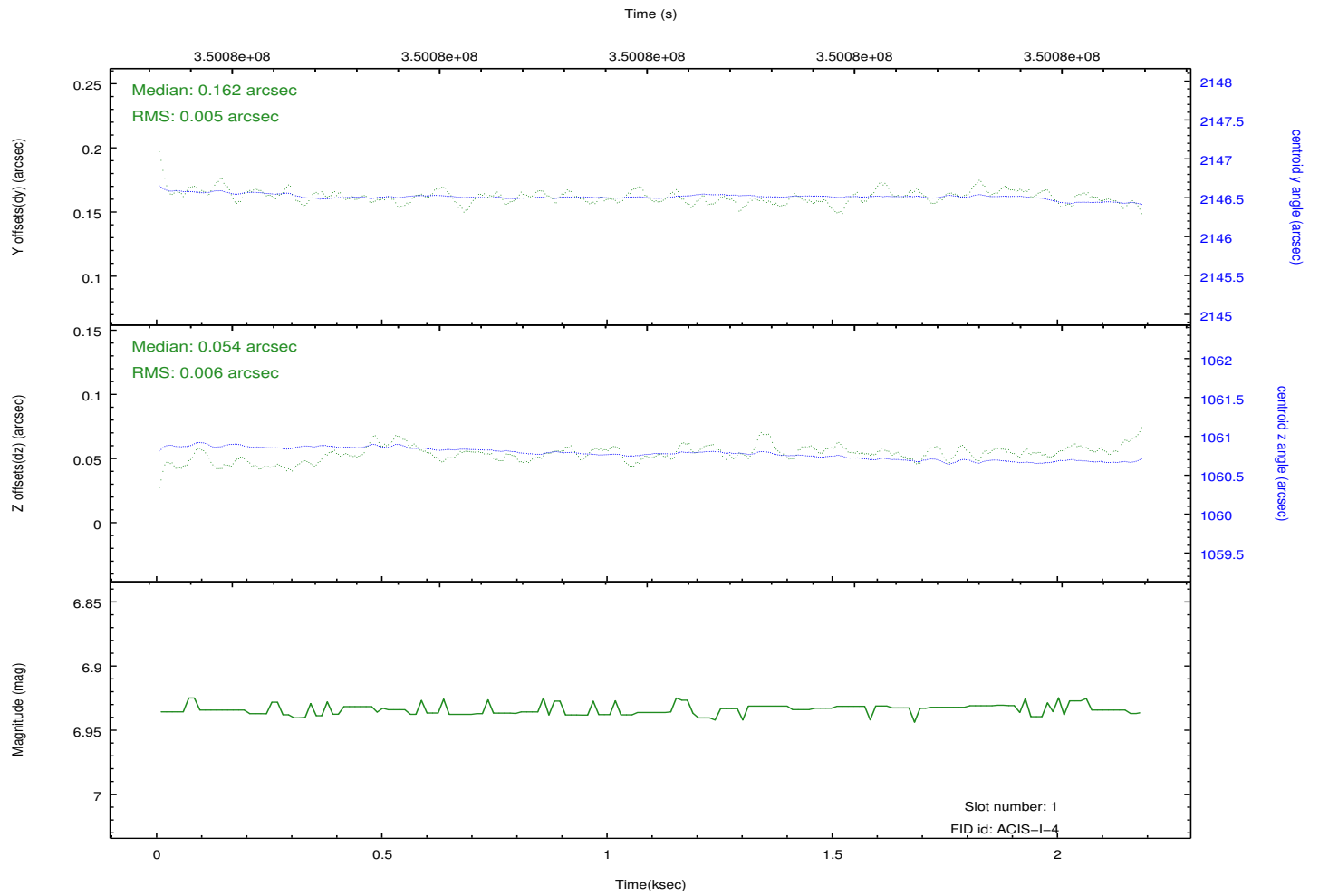
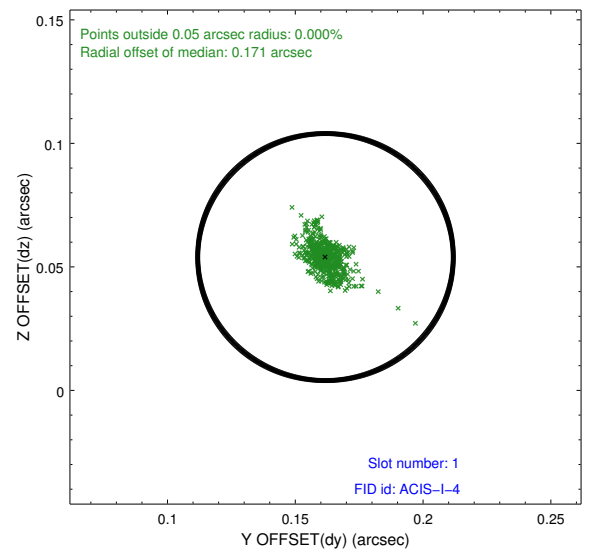
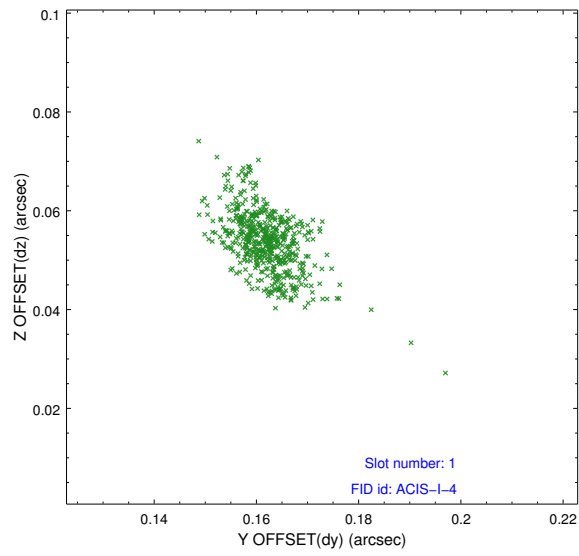


# 2.5 FID Slots

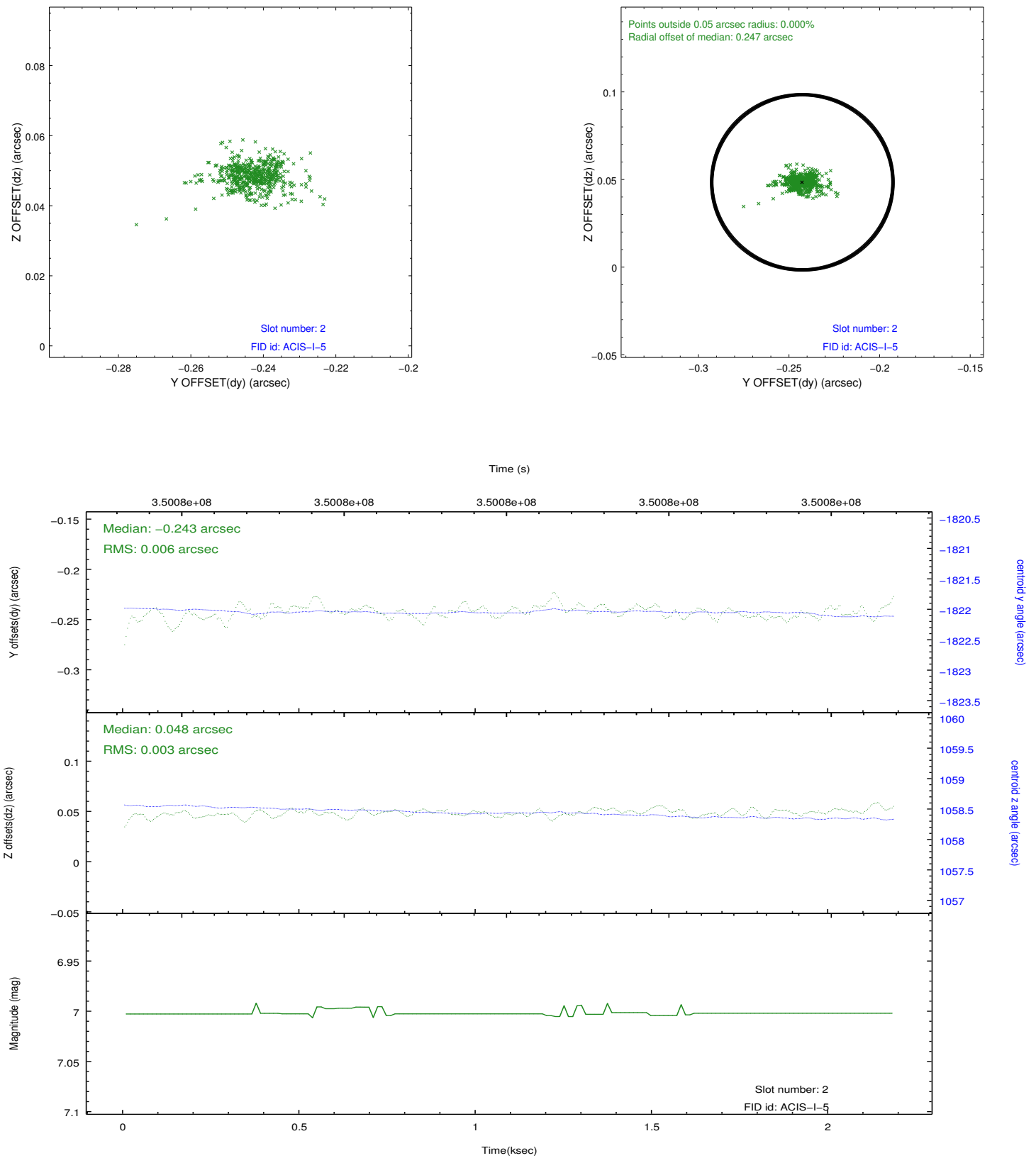
## 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.06.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18550001

### A.2 Comments