

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13569 - L2 Version 2  
Chandra X-Ray Center

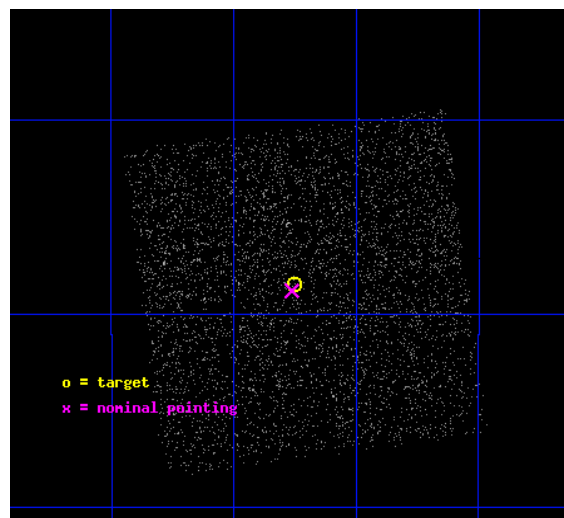
L2 Processing Date : Feb 25 2012

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# 1 Front

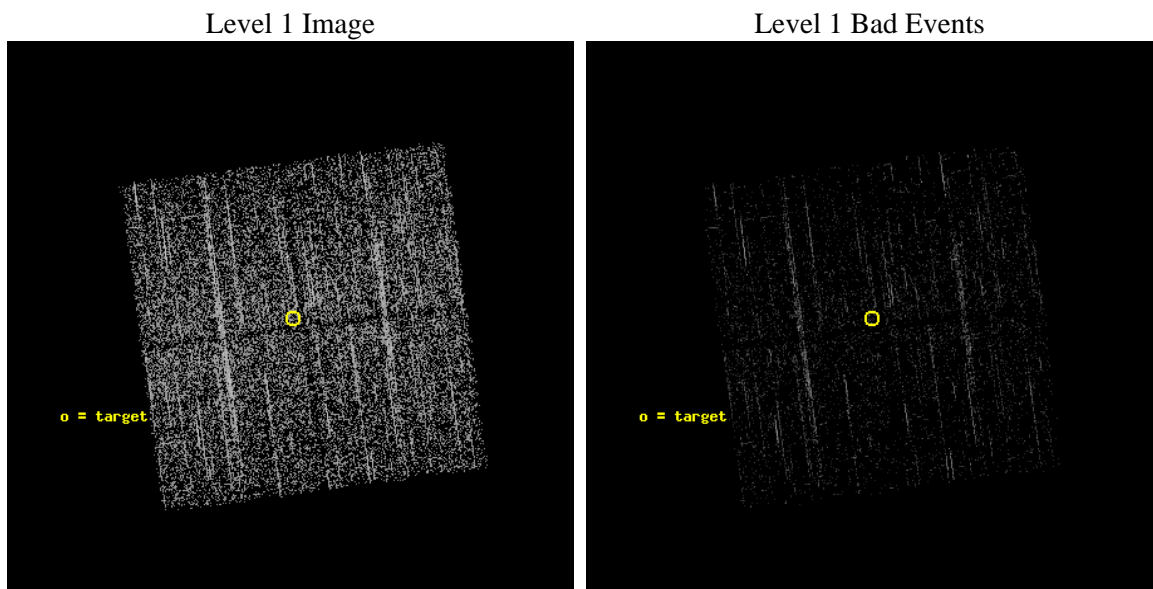
seq_num	401345	Sequence number
obs_id	13569	Observation id
title	Completing the Galactic Bulge Survey: categorizing the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr P Jonker	Principal investigator
object	GBS13-4	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.313725	Observer's specified target RA [deg]
dec_targ	-31.307992	Observer's specified target Dec [deg]
ra_nom	267.3157537773	Nominal RA [deg]
dec_nom	-31.313660289257	Nominal Dec [deg]
roll_nom	262.38336400648	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1971.6000151634	Sum of GTIs [s]
livetime	1945.8396094945	Livetime [s]
ontime0	1971.6000151634	Sum of GTIs [s]
ontime1	1971.6000151634	Sum of GTIs [s]
ontime2	1971.6000151634	Sum of GTIs [s]
ontime3	1971.6000151634	Sum of GTIs [s]
l2events	5213	Number of level 2 events



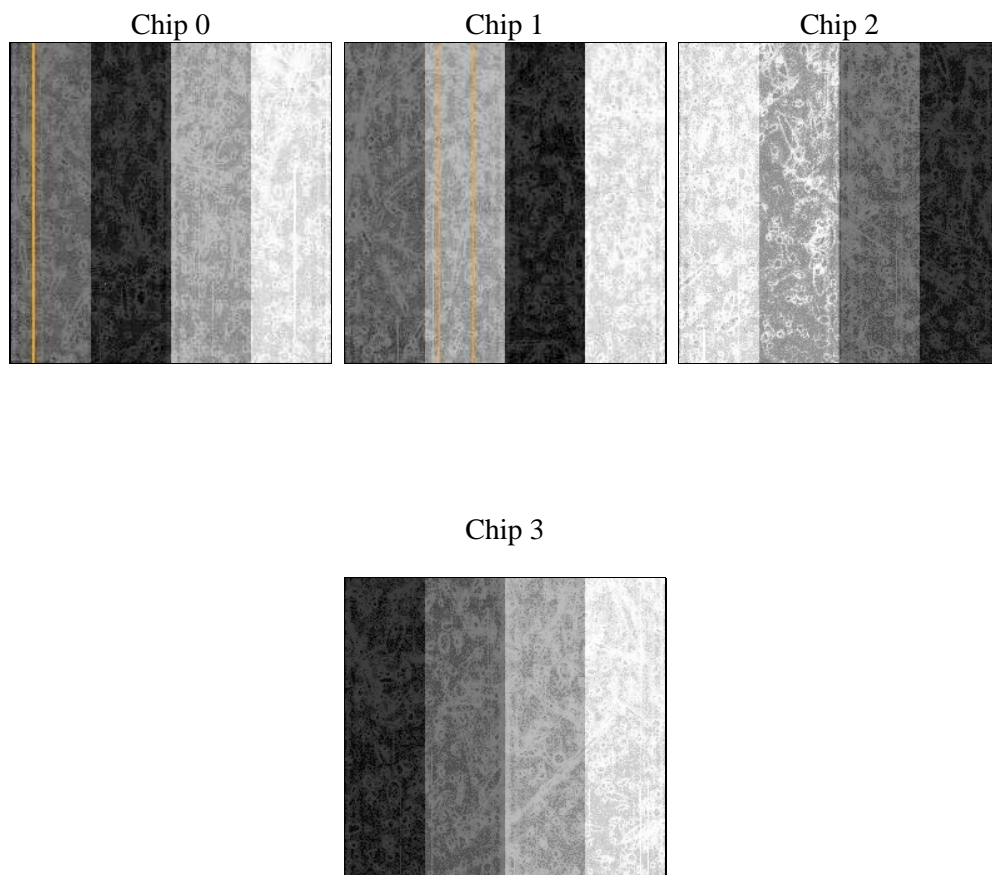
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2180.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	1971.6000151634	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	1971.6000151634	Sum of GTIs [s]
date	2012-02-26T01:10:16	Date and time of file creation	ontime1	1971.6000151634	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	1971.6000151634	Sum of GTIs [s]
			ontime3	1971.6000151634	Sum of GTIs [s]
			l1events	45099	Number of level 1 events

### 2.1.4 Events

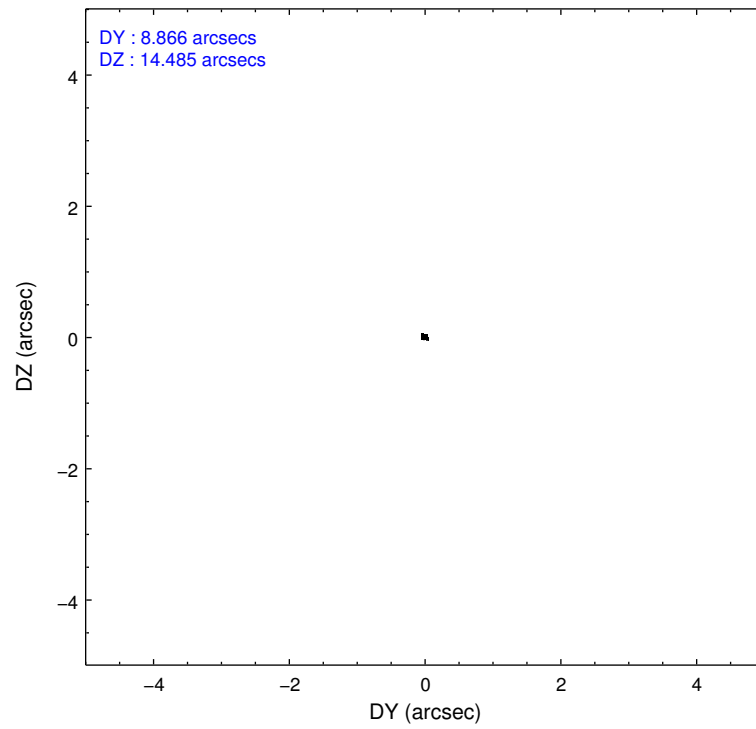
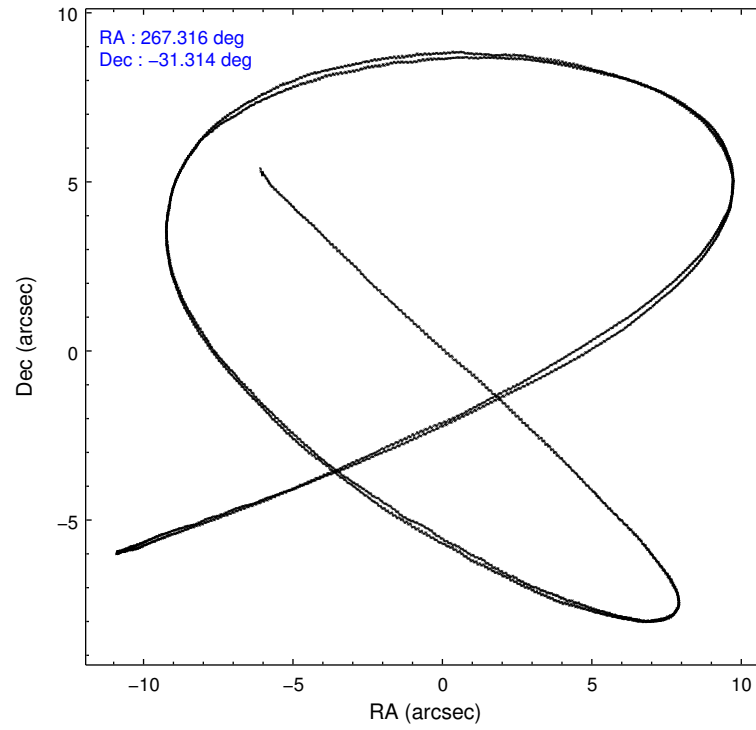
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	10409	11762	11458	11470
rejected events	9006	10107	10022	9814
rejected %	86%	85%	87%	85%

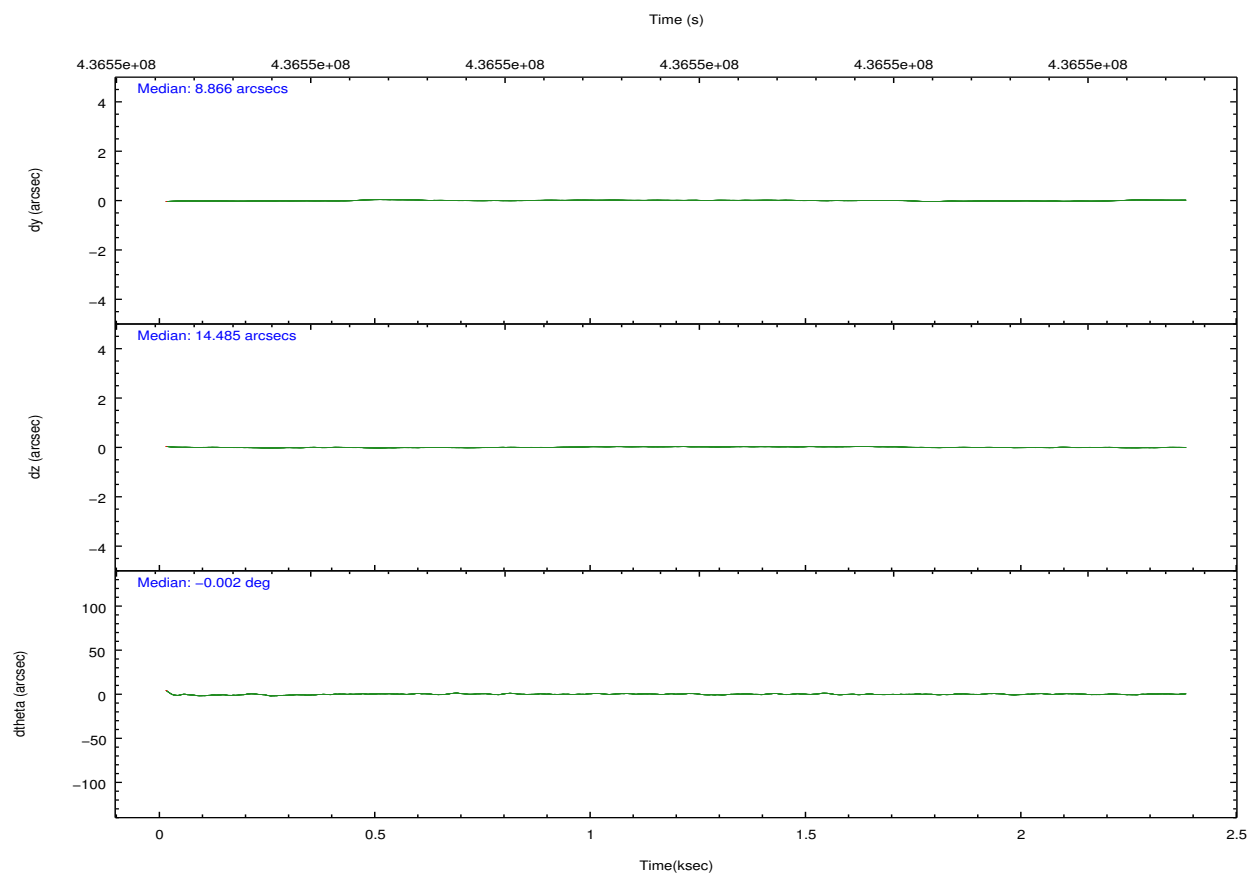
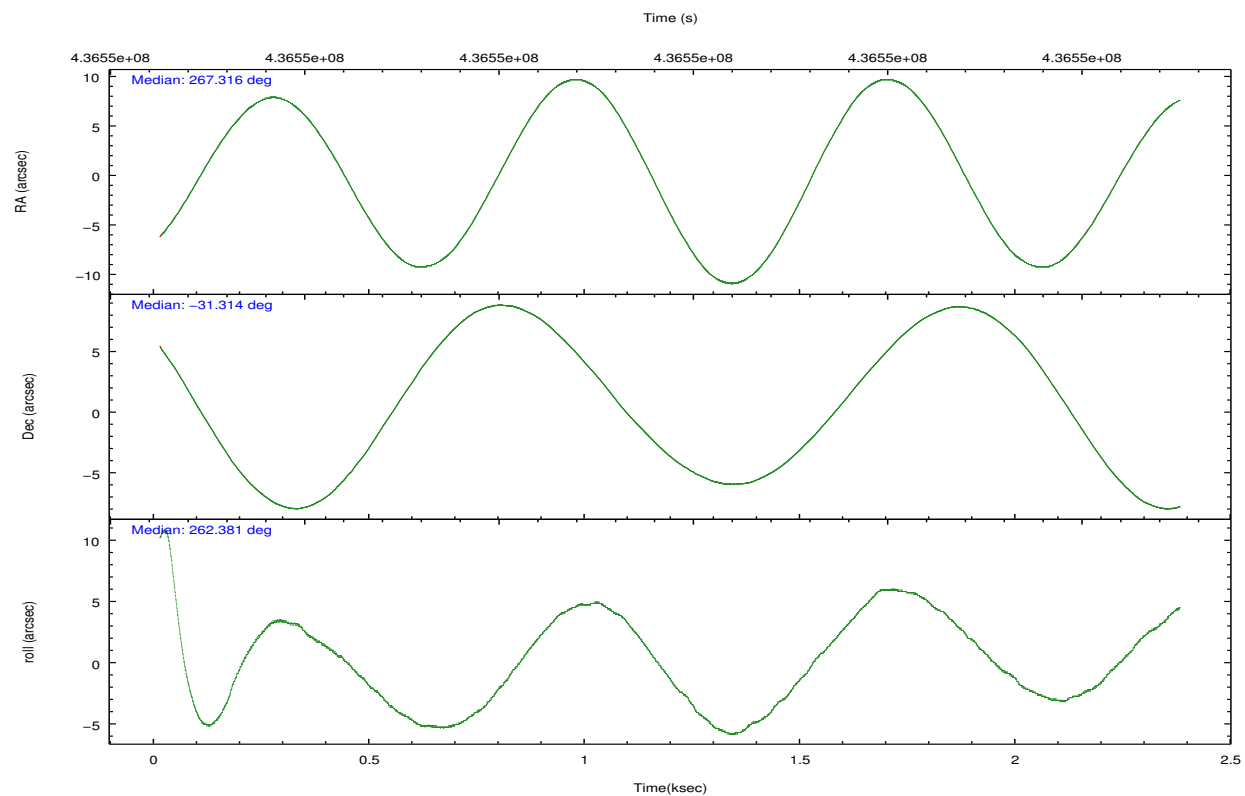
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	499	623	552	776
	4%	5%	4%	6%
grade 1 events	13	7	7	6
	0%	0%	0%	0%
grade 2 events	370	351	323	323
	3%	2%	2%	2%
grade 3 events	134	165	135	149
	1%	1%	1%	1%
grade 4 events	130	154	131	148
	1%	1%	1%	1%
grade 5 events	545	555	511	582
	5%	4%	4%	5%
grade 6 events	273	368	300	264
	2%	3%	2%	2%
grade 7 events	8445	9539	9499	9222
	81%	81%	82%	80%

## 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	267.303332	267.3157537777275	Subarray requested	NONE	NONE
[deg] Pointing Dec	-31.288098	-31.3136602892568	Alternating exposures requested	N	N
[deg] Pointing Roll	262.168143	262.3833640064828	[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)	436548459.184000	436548082.53333			
Observation start date	2011-11-01T15:26:33	2011-11-01T15:21:22			
[s] Observation end time (MET)	436550639.184000	436550773.15847			
Observation end date	2011-11-01T16:02:53	2011-11-01T16:06:13			
Read mode	TIMED	TIMED			

## 2.3 Aspect





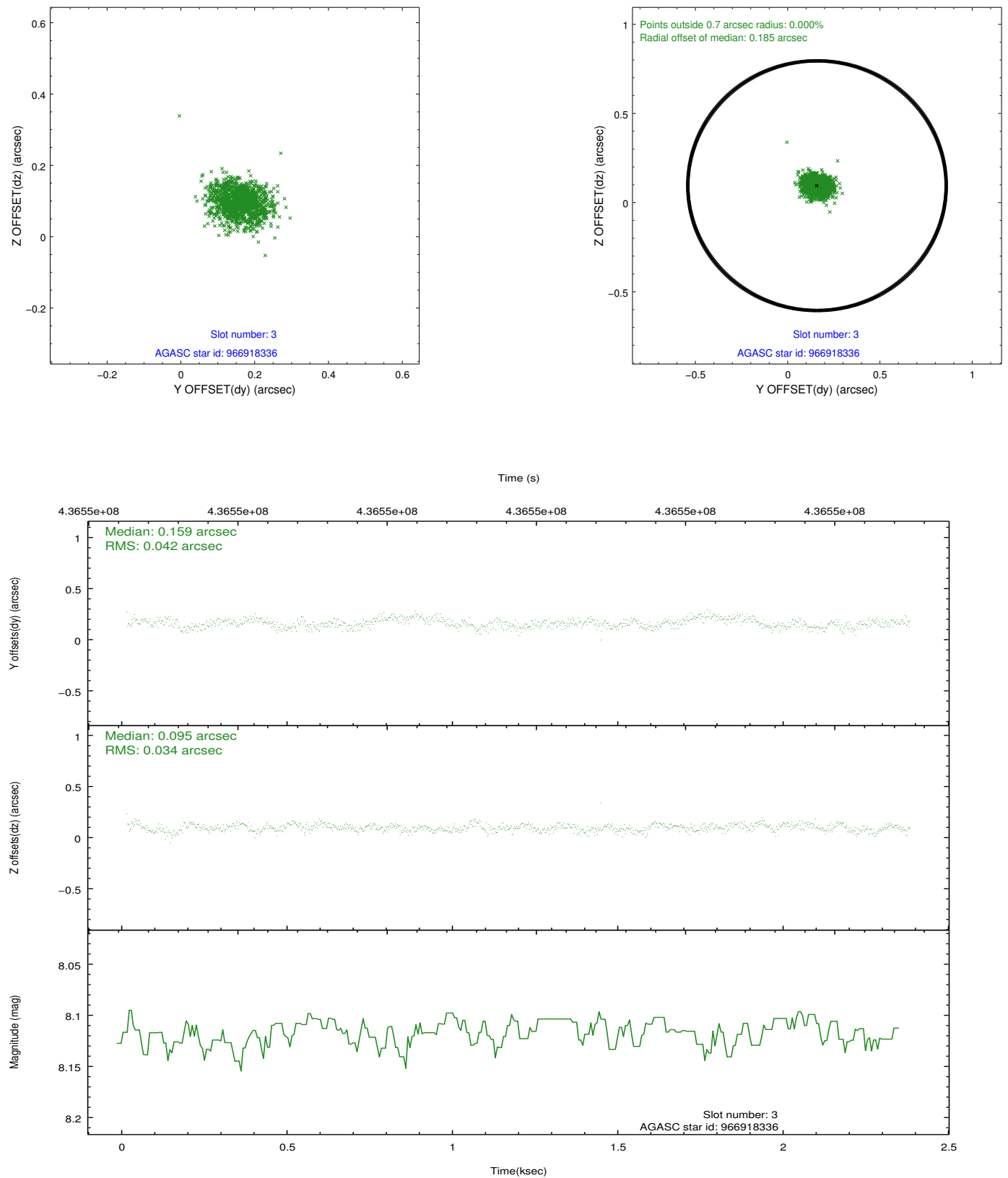
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.02	578	0.015	-0.005	0.008	0.015	0.000000	0.000000	930.78	-838.08
1	FID	ACIS-I-4	6.94	578	0.158	0.020	0.007	0.012	0.000000	0.000000	2152.49	1060.38
2	FID	ACIS-I-5	7.00	578	-0.271	0.056	0.006	0.010	0.000000	0.000000	-1813.99	1061.36
3	GUIDE	966918336	8.12	1156	0.159	0.095	0.058	0.092	267.709998	-30.955430	-1355.36	1080.77
4	GUIDE	966918400	7.34	1156	-0.225	-0.095	0.058	0.094	267.537101	-30.960086	-1269.06	554.75
5	GUIDE	966924408	8.93	1156	0.049	0.003	0.096	0.151	266.982893	-30.897884	-1256.61	-1171.63
6	GUIDE	967060832	9.31	1156	-0.127	0.144	0.101	0.167	267.800373	-31.675183	1174.92	1698.00
7	GUIDE	967451816	9.26	1155	0.145	-0.152	0.128	0.193	267.266669	-31.901374	2203.94	191.30

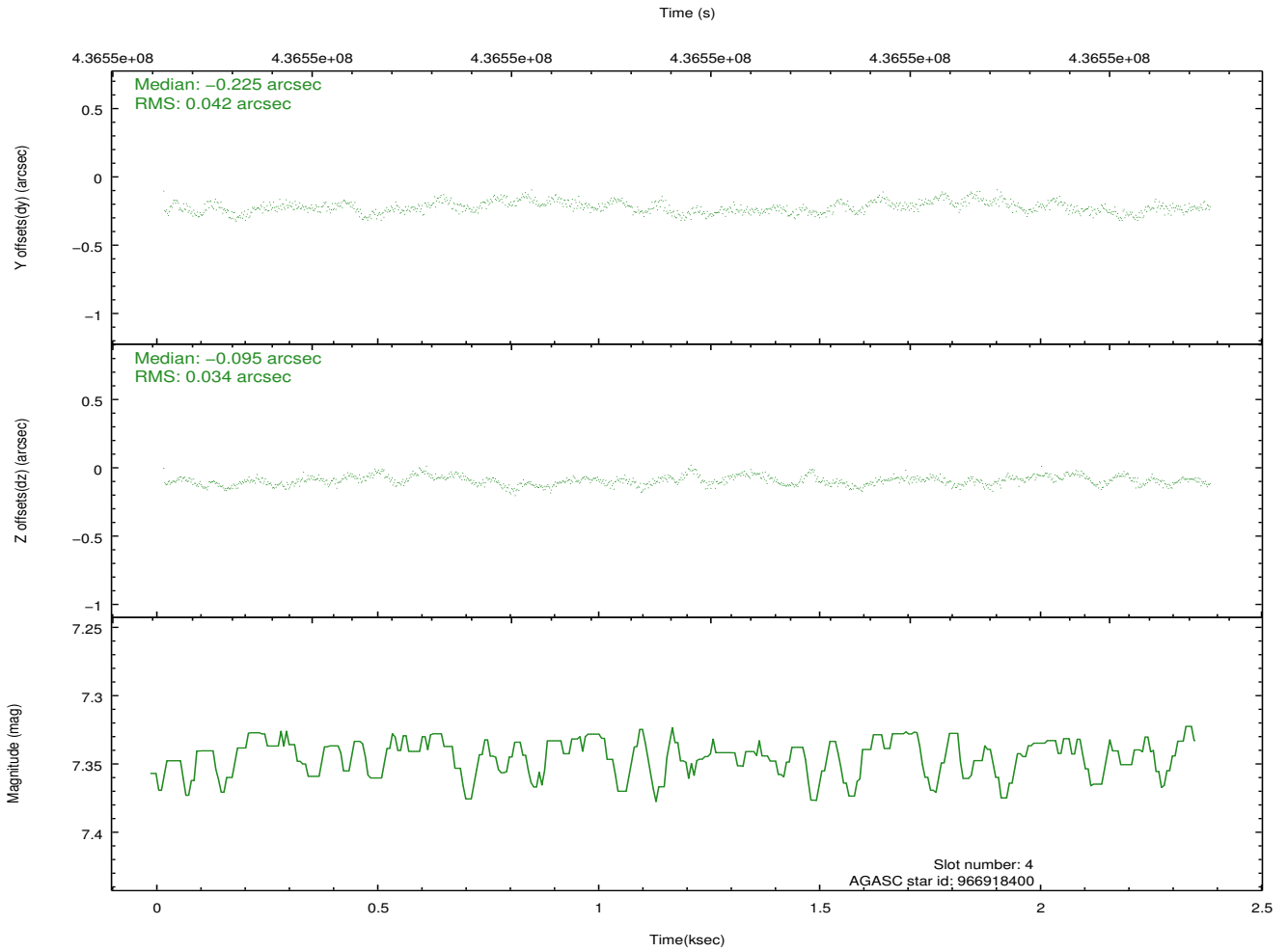
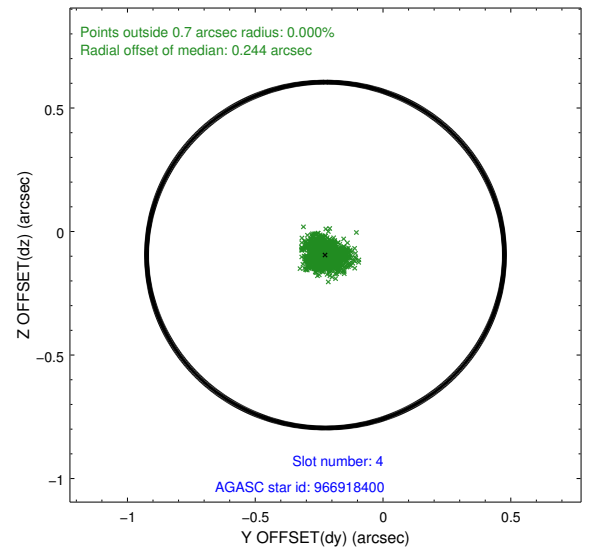
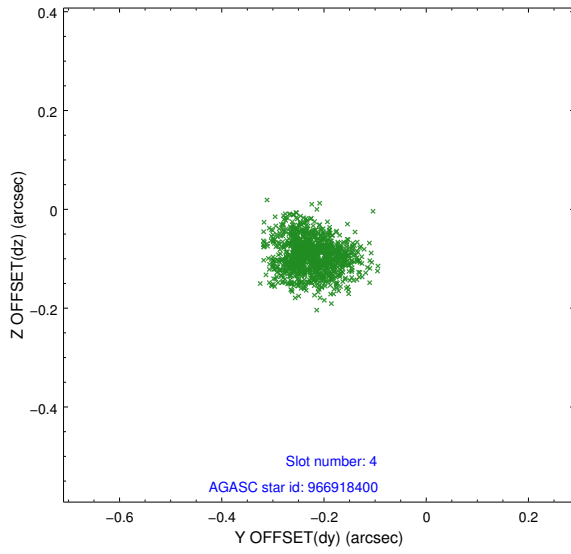


## 2.4 Star Slots

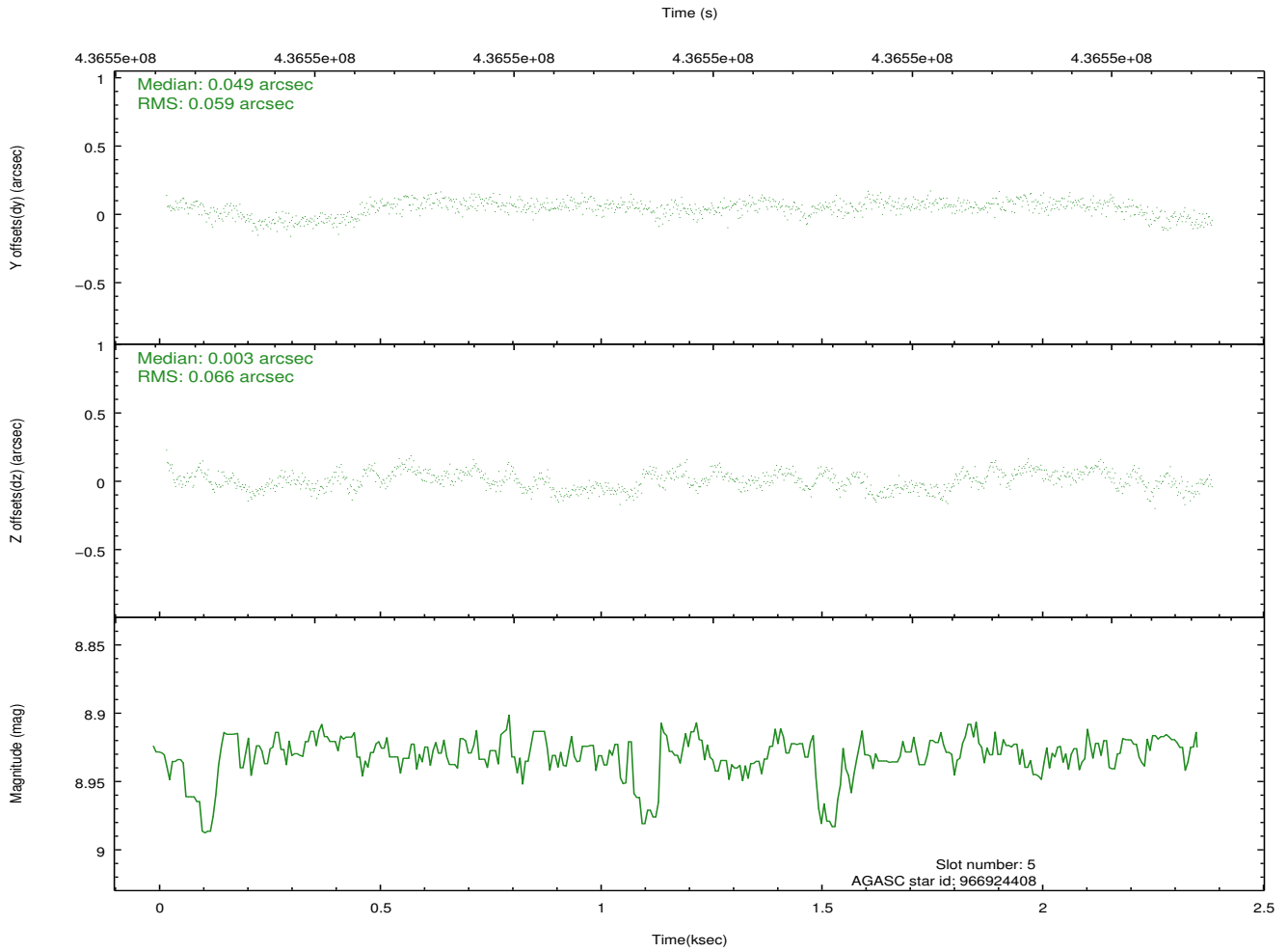
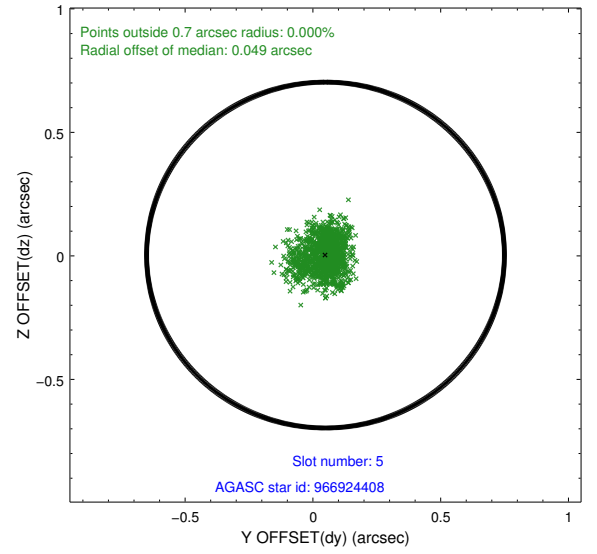
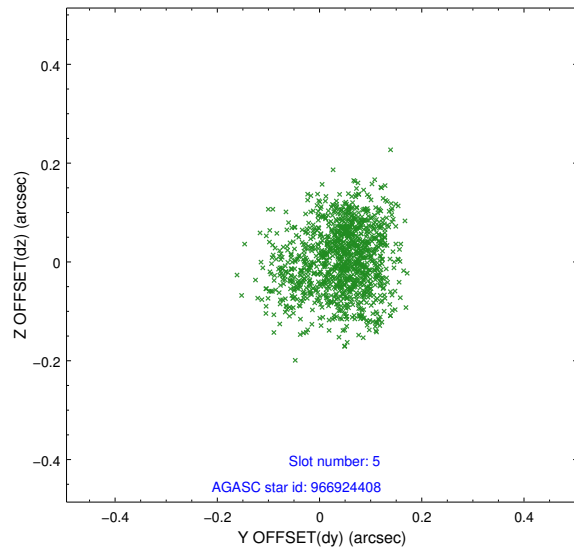
### 2.4.1 Slot 3



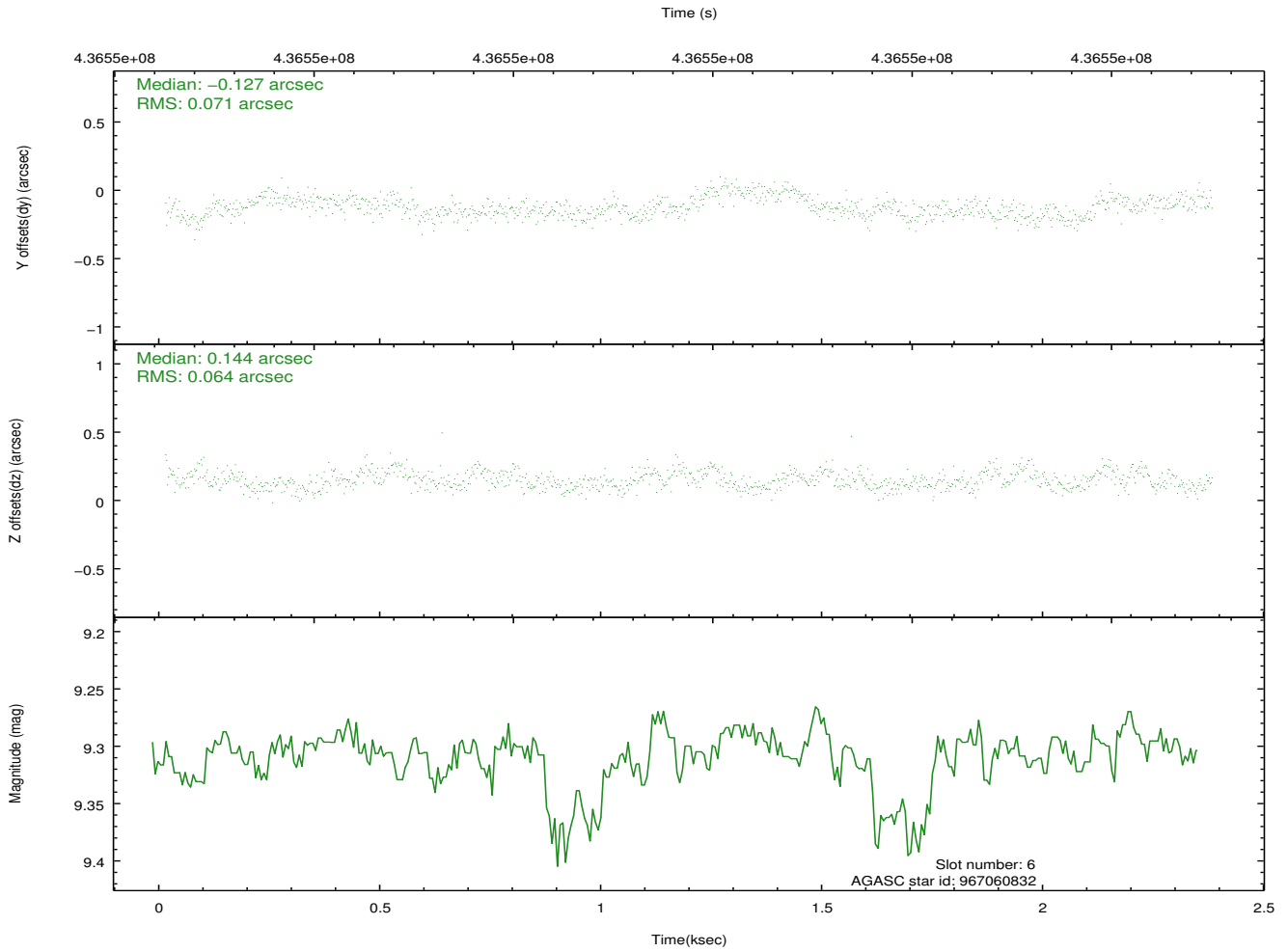
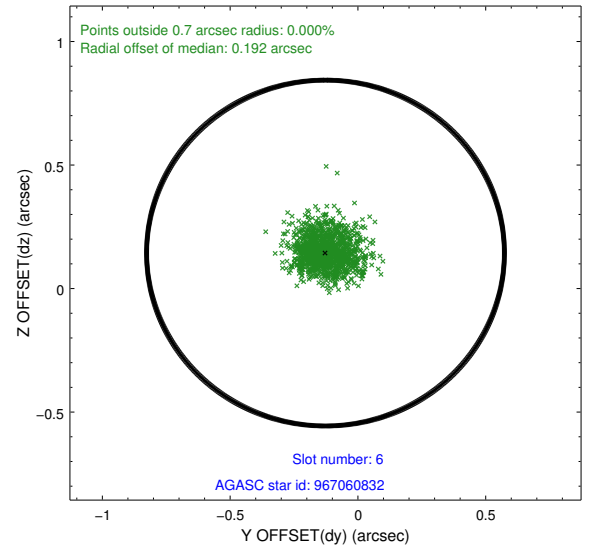
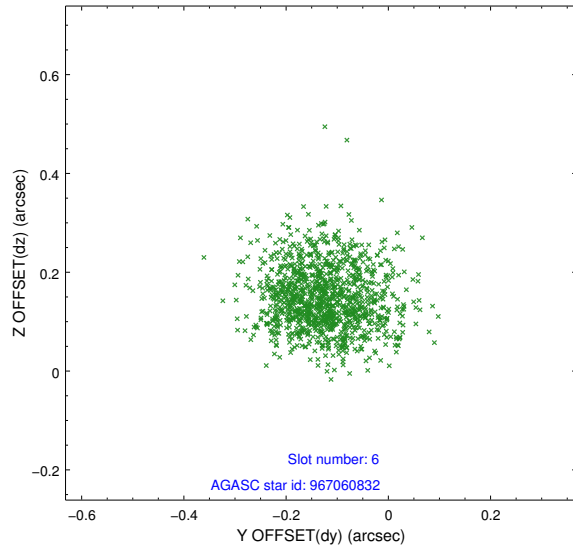
## 2.4.2 Slot 4



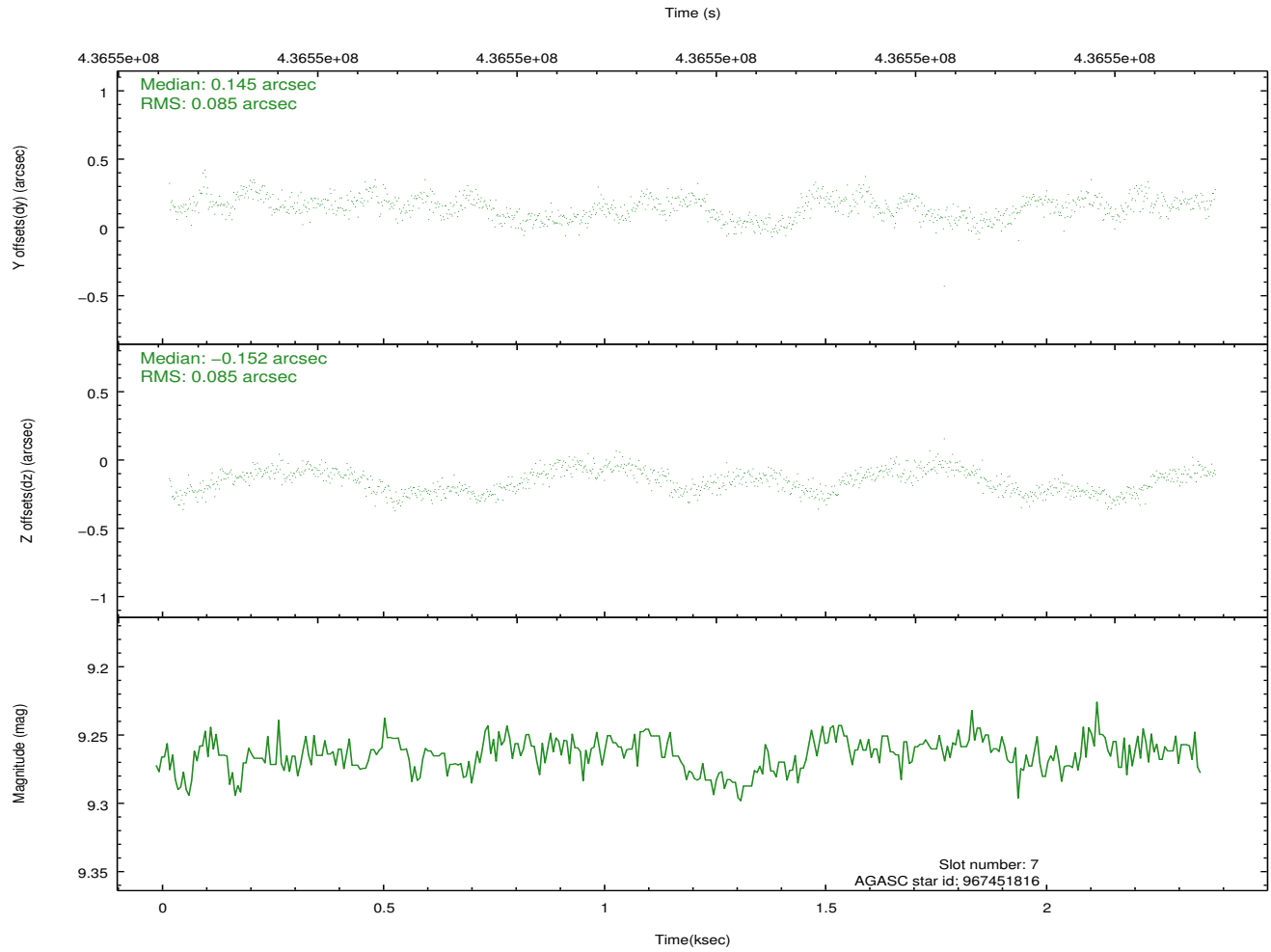
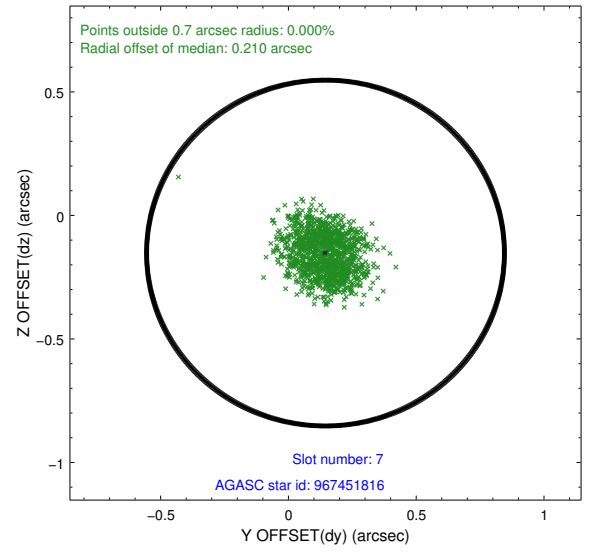
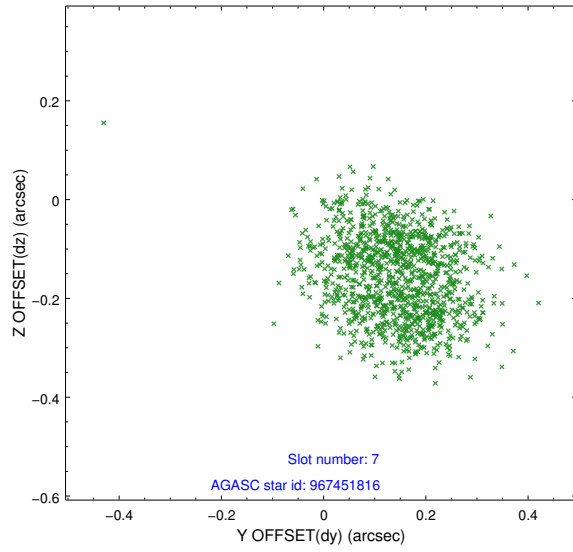
### 2.4.3 Slot 5



## 2.4.4 Slot 6

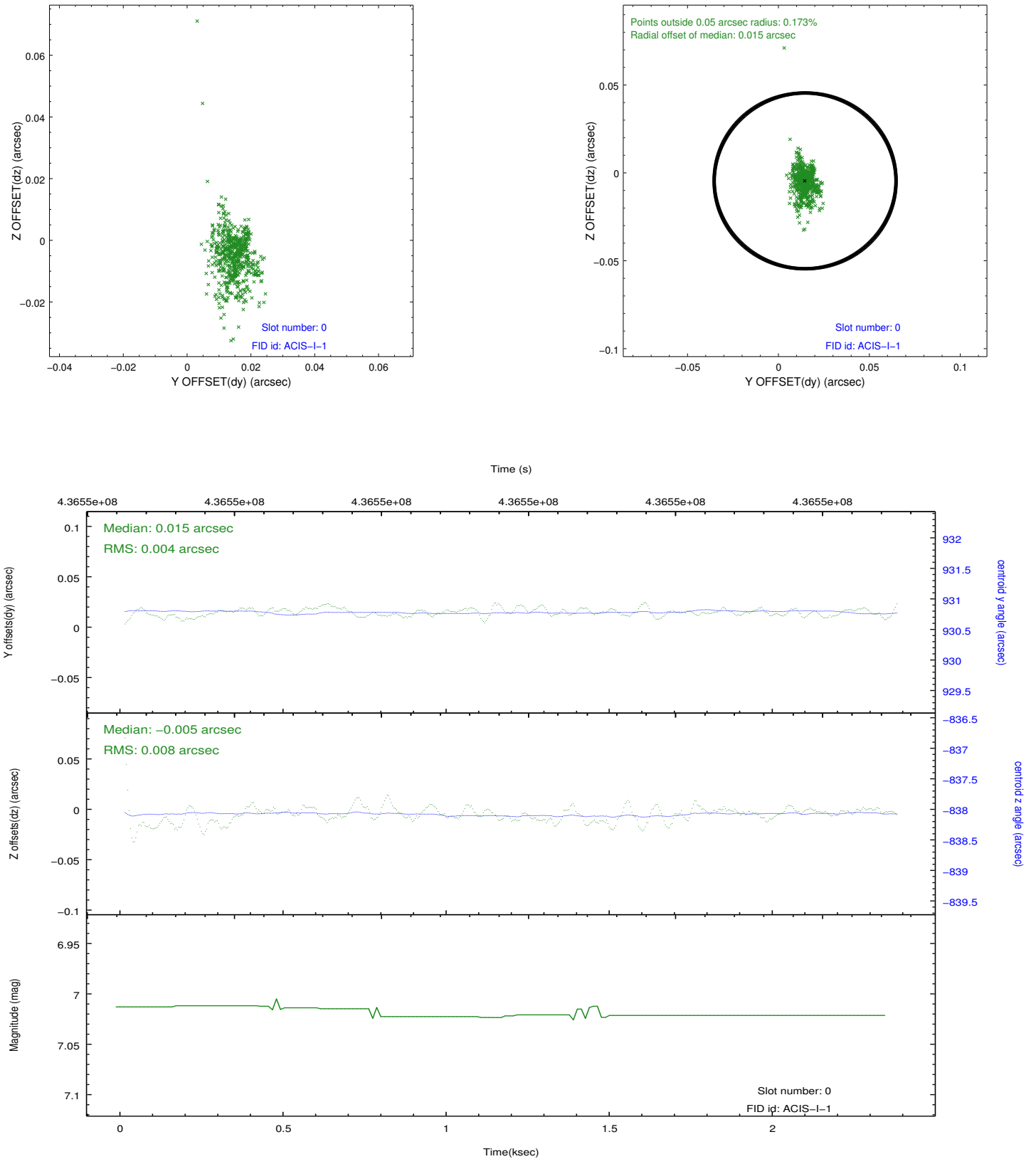


## 2.4.5 Slot 7

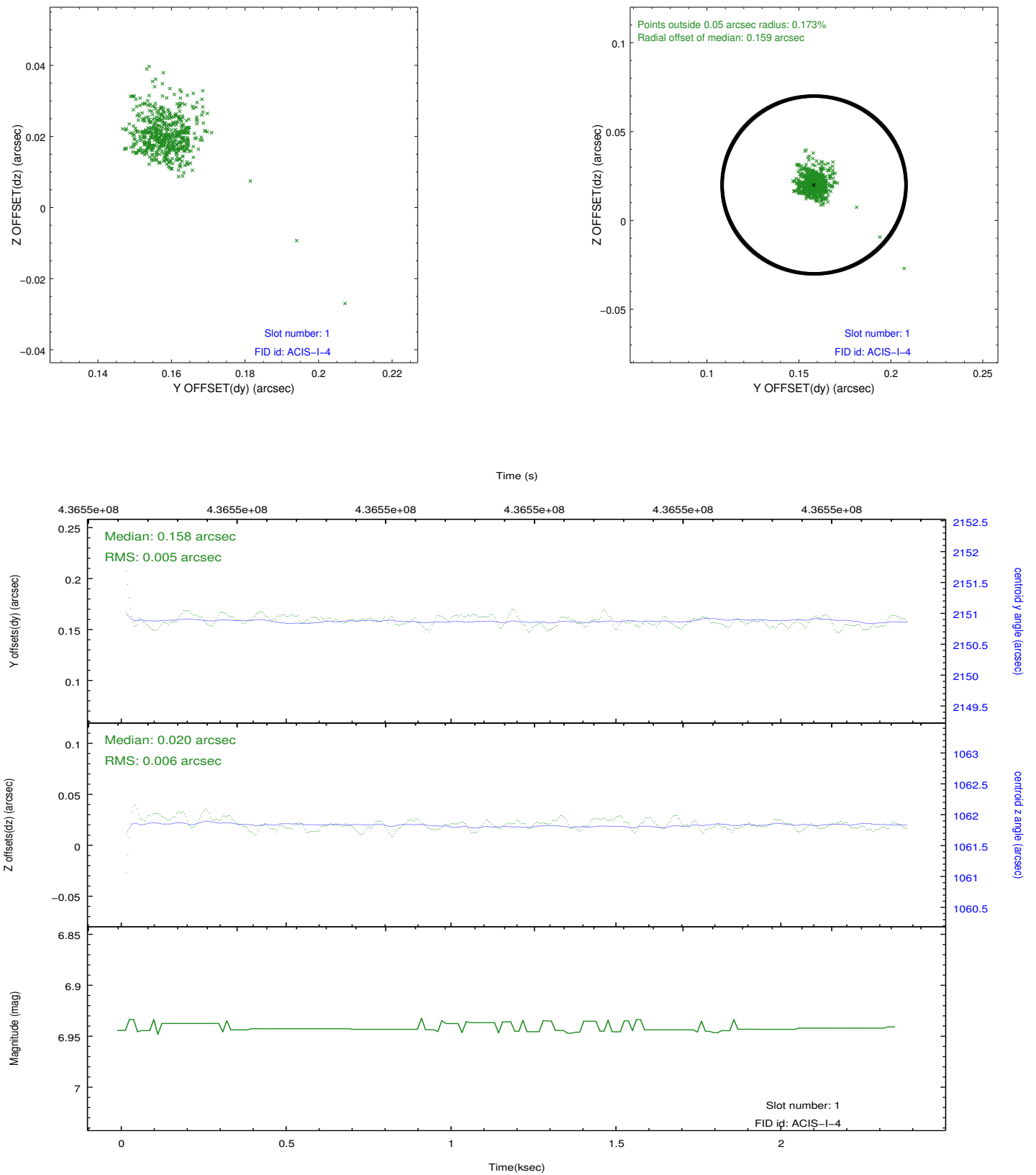


## 2.5 FID Slots

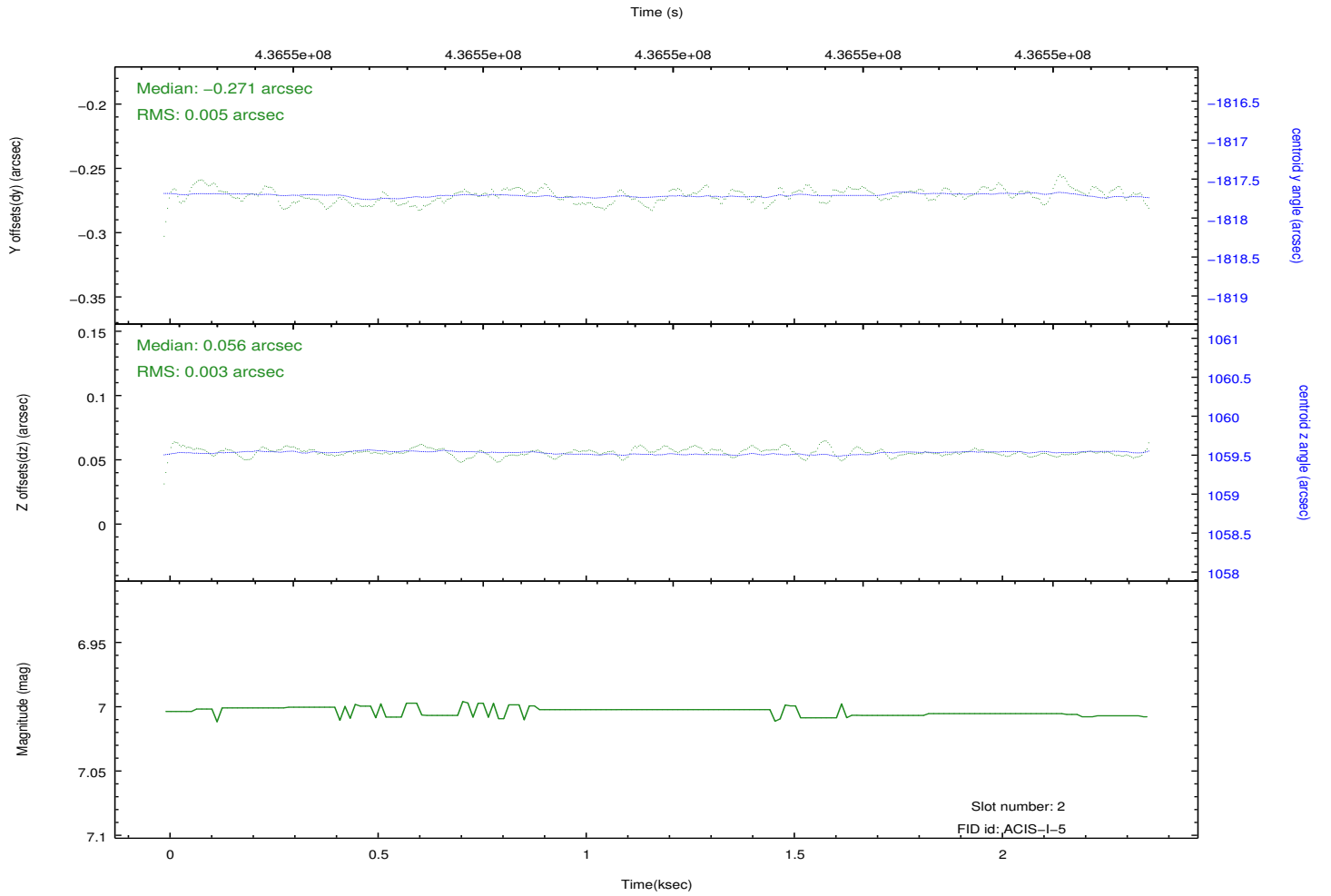
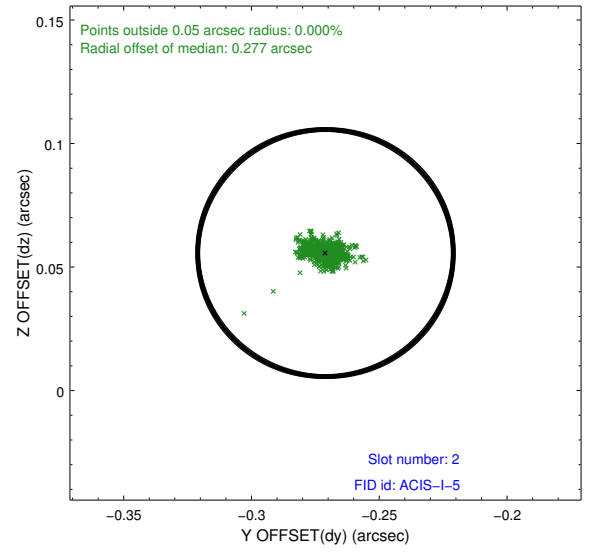
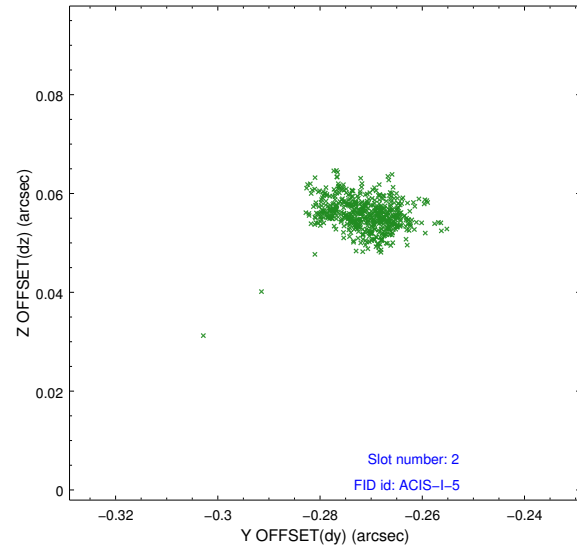
### 2.5.1 Slot 0



## 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)	2012.02.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9716000151634

### A.2 Comments

Joint proposal with NOAO.