

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13544 - L2 Version 2  
Chandra X-Ray Center

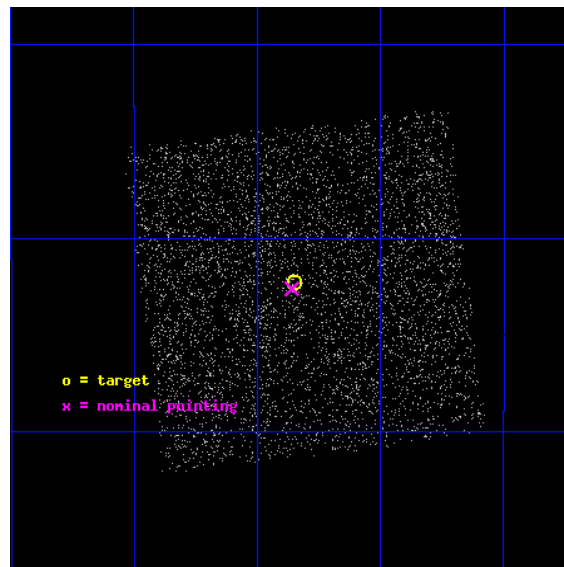
L2 Processing Date : Feb 25 2012

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# 1 Front

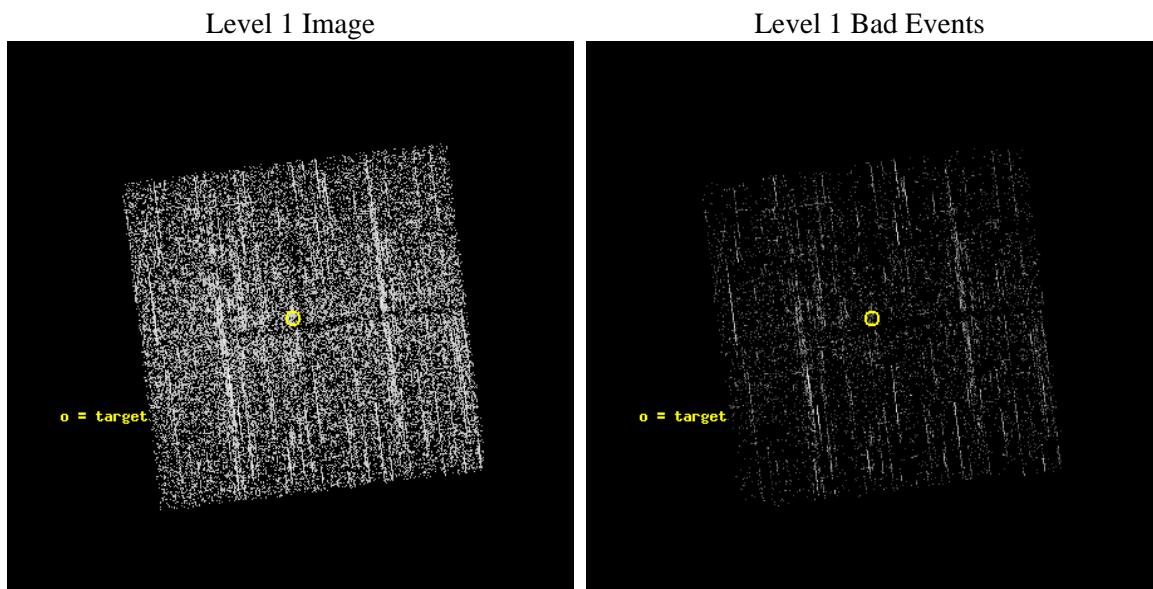
seq_num	401320	Sequence number
obs_id	13544	Observation id
title	Completing the Galactic Bulge Survey: categorizing the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr P Jonker	Principal investigator
object	GBS13-2	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.462903	Observer's specified target RA [deg]
dec_targ	-30.704682	Observer's specified target Dec [deg]
ra_nom	267.46514608047	Nominal RA [deg]
dec_nom	-30.71031043113	Nominal Dec [deg]
roll_nom	262.99370175325	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1973.4920887351	Sum of GTIs [s]
livetime	1947.706961732	Livetime [s]
ontime0	1973.3689687252	Sum of GTIs [s]
ontime1	1973.4100087285	Sum of GTIs [s]
ontime2	1973.4510785937	Sum of GTIs [s]
ontime3	1973.4920887351	Sum of GTIs [s]
l2events	5377	Number of level 2 events



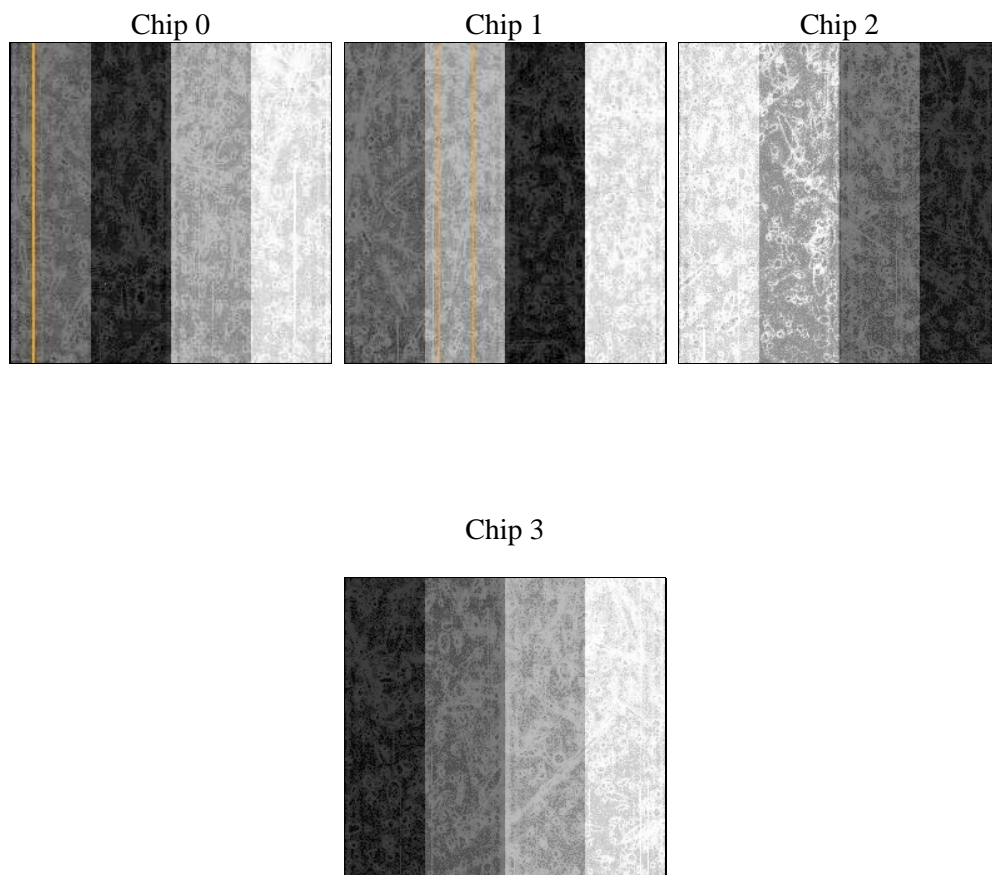
## 2 OBI

### 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	1973.4920887351	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	1973.3689687252	Sum of GTIs [s]
date	2012-02-26T01:13:13	Date and time of file creation	ontime1	1973.4100087285	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	1973.4510785937	Sum of GTIs [s]
			ontime3	1973.4920887351	Sum of GTIs [s]
			l1events	46230	Number of level 1 events

### 2.1.4 Events

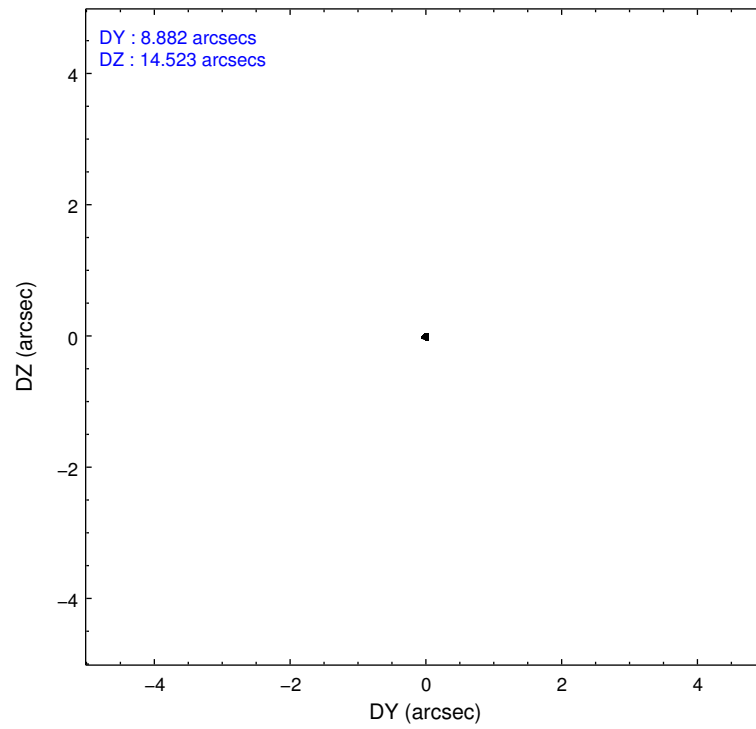
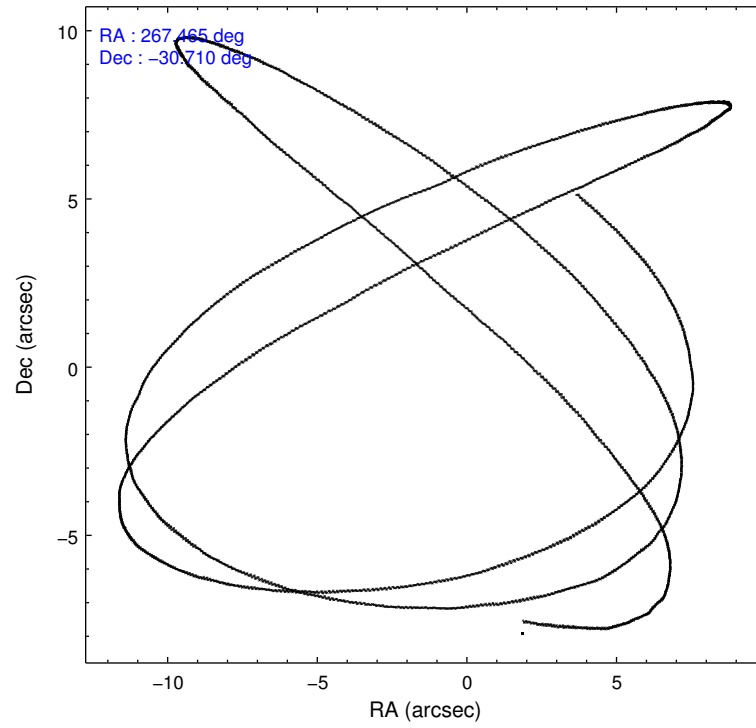
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	11921	10746	11669	11894
rejected events	10341	9114	10097	10329
rejected %	86%	84%	86%	86%

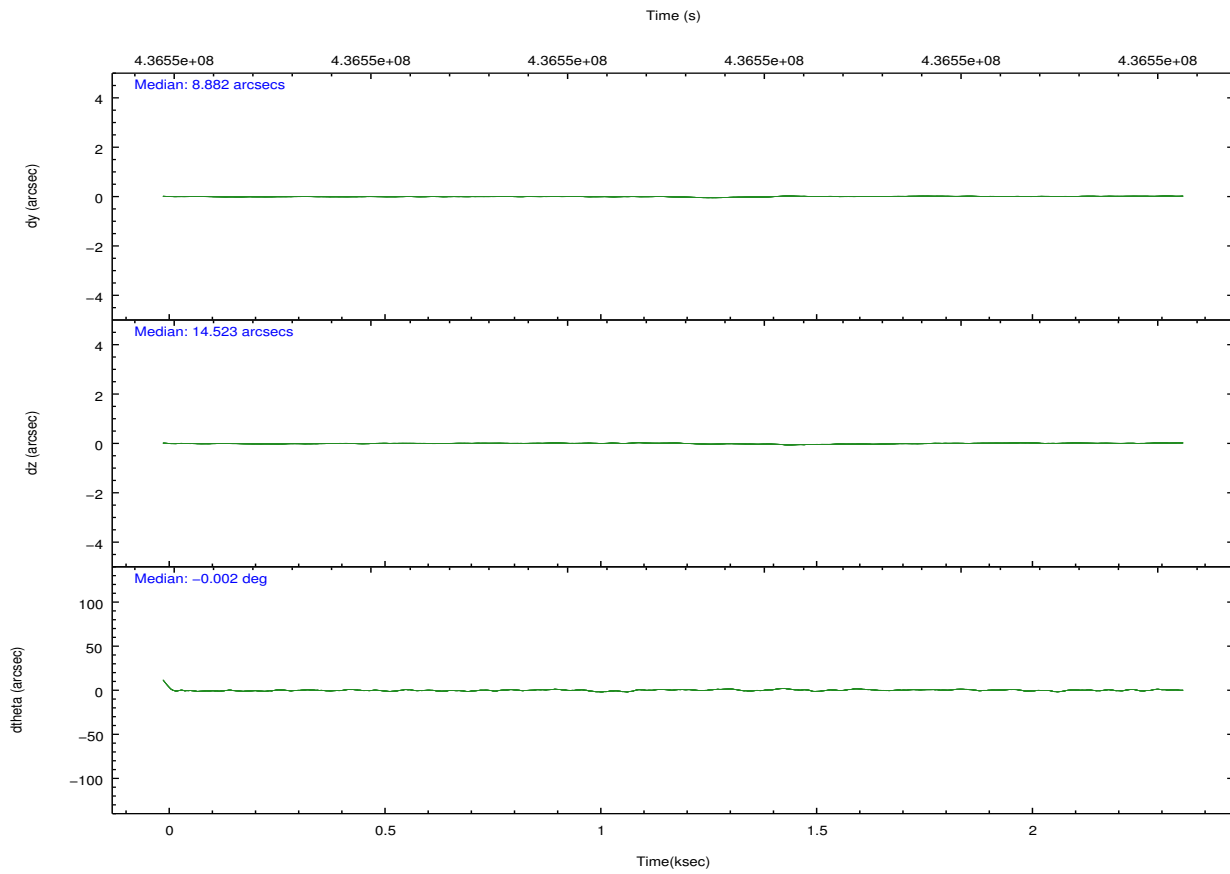
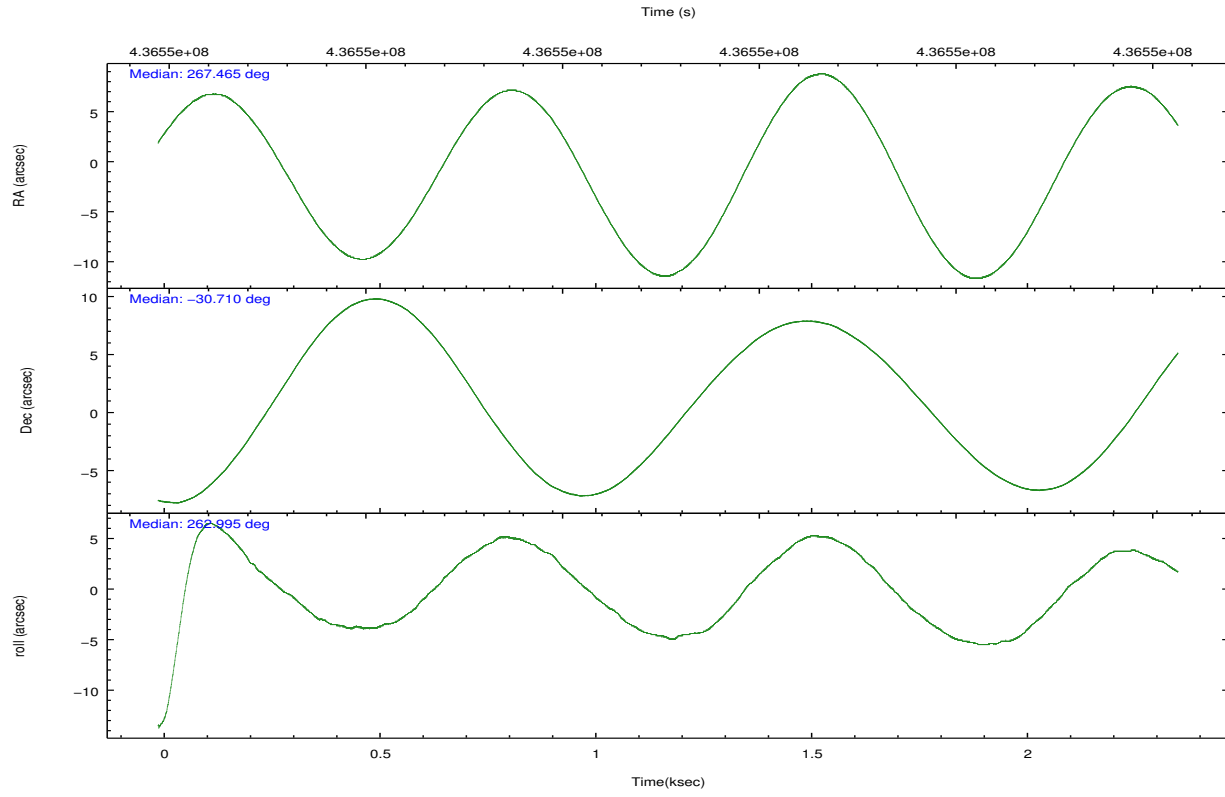
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	621	671	680	701
	5%	6%	5%	5%
grade 1 events	2	8	9	7
	0%	0%	0%	0%
grade 2 events	368	360	349	322
	3%	3%	2%	2%
grade 3 events	158	158	157	133
	1%	1%	1%	1%
grade 4 events	157	156	151	134
	1%	1%	1%	1%
grade 5 events	524	568	465	554
	4%	5%	3%	4%
grade 6 events	280	295	239	276
	2%	2%	2%	2%
grade 7 events	9811	8530	9619	9767
	82%	79%	82%	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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	267.452342	267.465146080472	Subarray requested	NONE	NONE
[deg] Pointing Dec	-30.684886	-30.71031043112955	Alternating exposures requested	N	N
[deg] Pointing Roll	262.778501	262.9937017532454	[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)	436545769.184000	436545392.93319			
Observation start date	2011-11-01T14:41:43	2011-11-01T14:36:32			
[s] Observation end time (MET)	436547949.184000	436548082.53333			
Observation end date	2011-11-01T15:18:03	2011-11-01T15:21:22			
Read mode	TIMED	TIMED			

## 2.3 Aspect





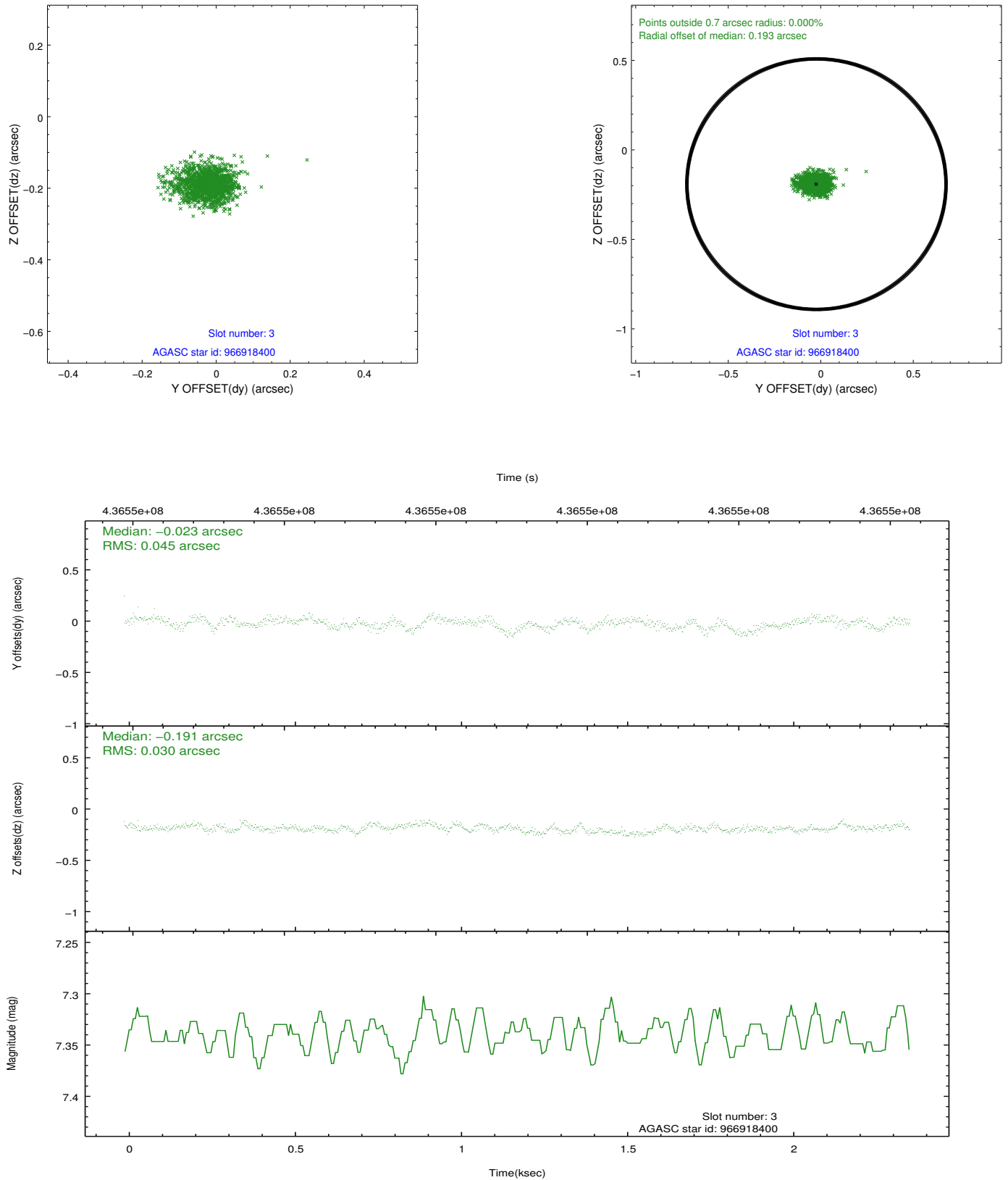
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	6.93	577	-0.097	-0.109	0.009	0.018	0.000000	0.000000	-763.53	-844.58
1	FID	ACIS-I-4	6.94	577	0.218	0.087	0.005	0.012	0.000000	0.000000	2149.60	1060.39
2	FID	ACIS-I-5	7.01	577	-0.222	0.090	0.009	0.016	0.000000	0.000000	-1813.95	1061.39
3	GUIDE	966918400	7.34	1154	-0.023	-0.191	0.056	0.094	267.537101	-30.960086	949.93	383.42
4	GUIDE	966926496	8.11	1154	-0.110	-0.023	0.064	0.098	267.109389	-30.299474	-1240.12	-1232.39
5	GUIDE	966927000	8.18	1152	0.195	0.160	0.067	0.105	267.318997	-31.255021	2087.04	-150.56
6	GUIDE	967059168	8.43	1154	0.028	0.019	0.063	0.096	267.755631	-31.226839	1821.20	1171.05
7	GUIDE	966920512	8.37	1151	-0.084	0.035	0.071	0.111	267.231170	-30.494681	-591.03	-766.09

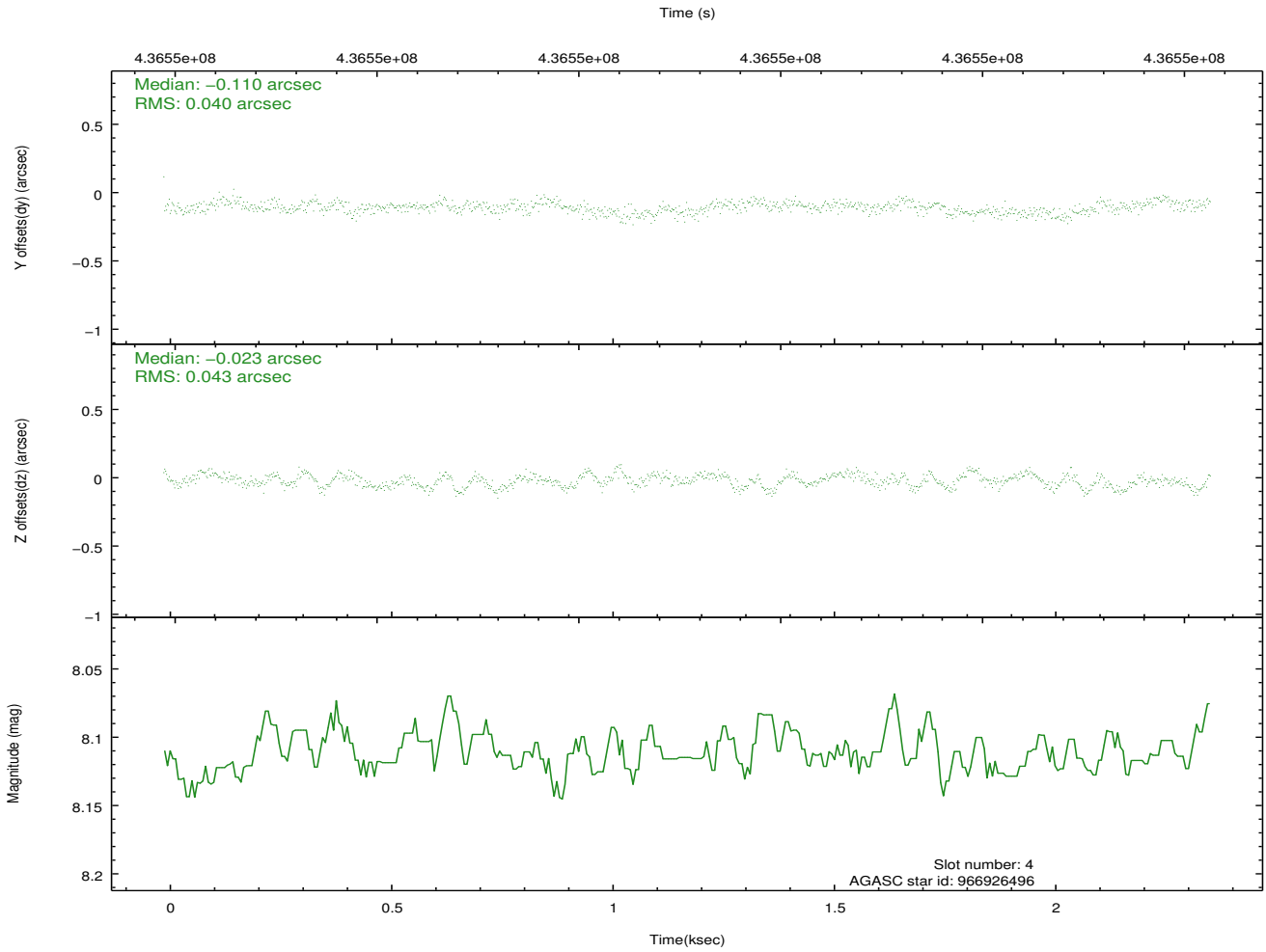
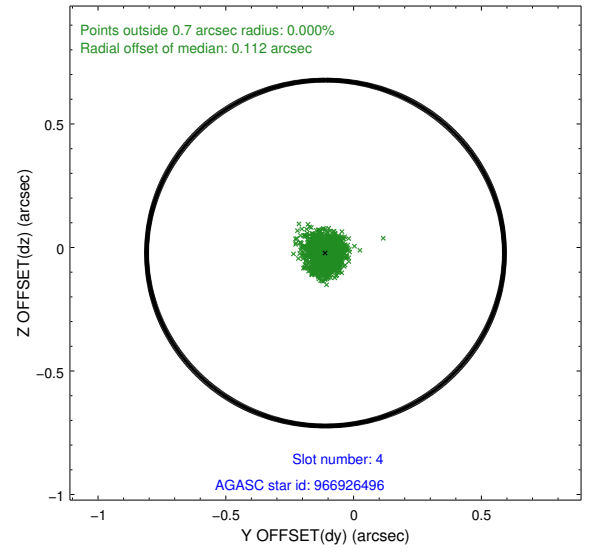
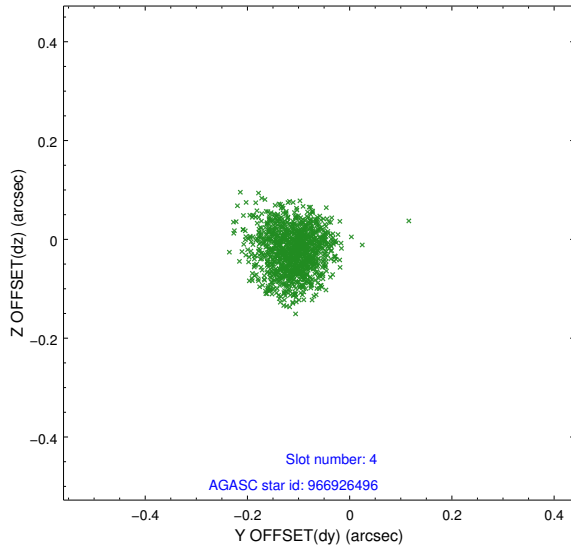


## 2.4 Star Slots

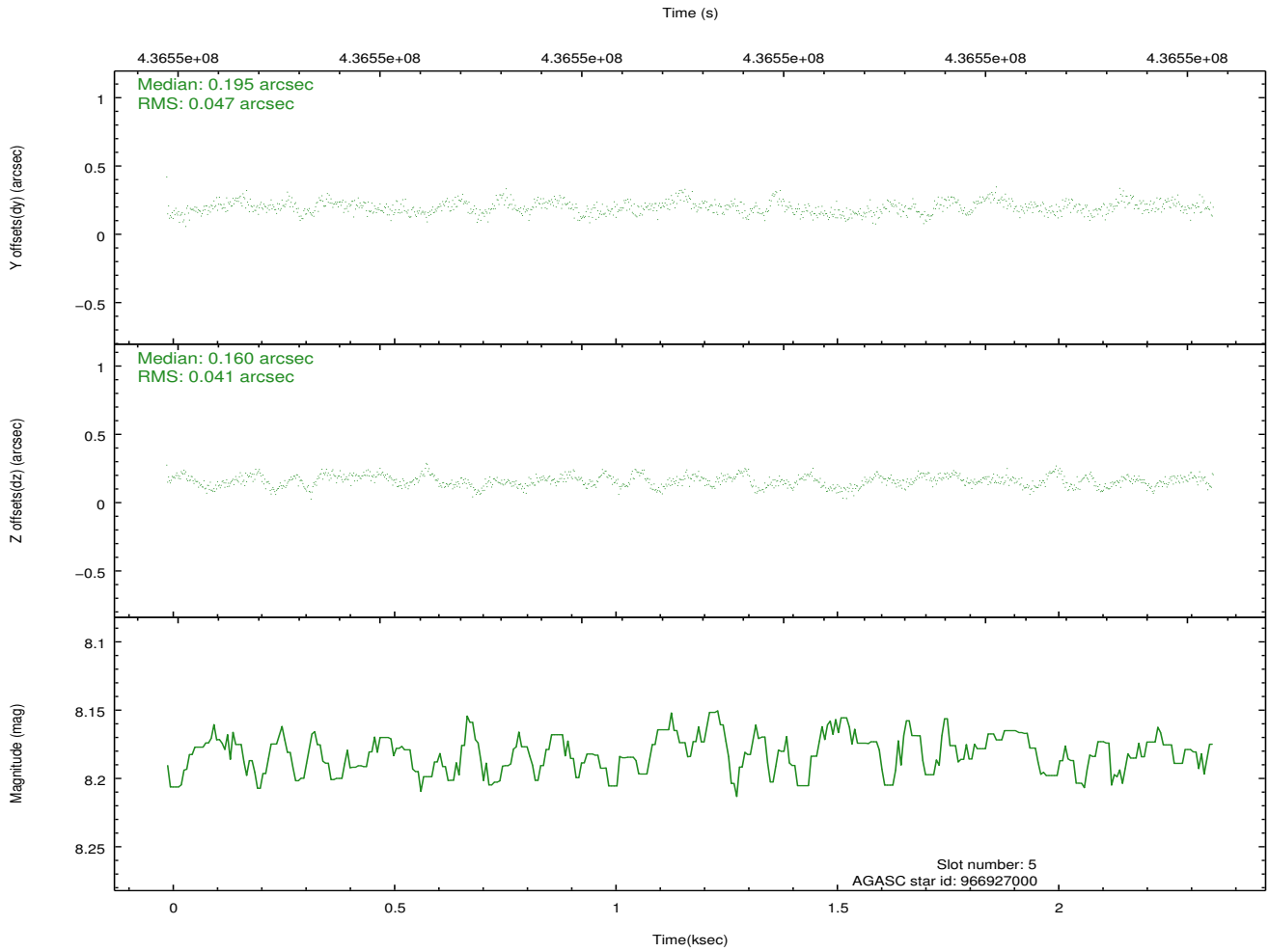
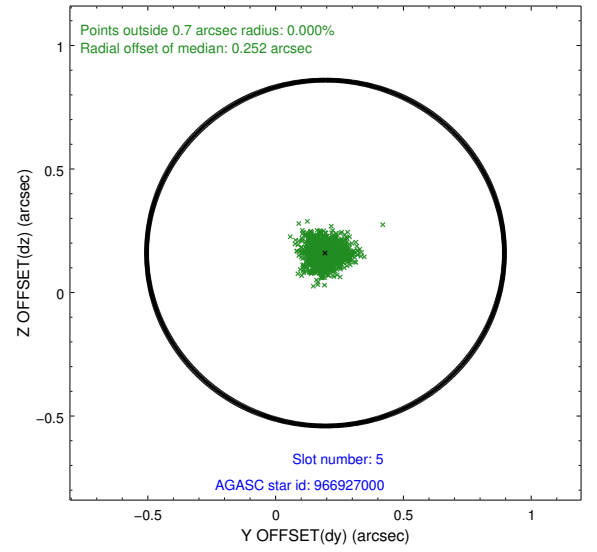
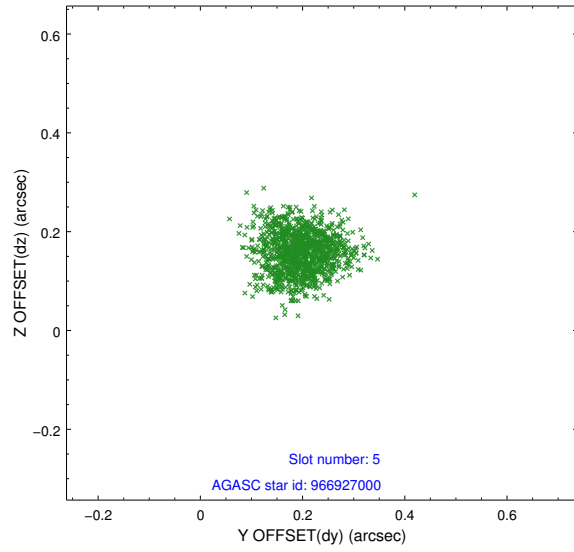
### 2.4.1 Slot 3



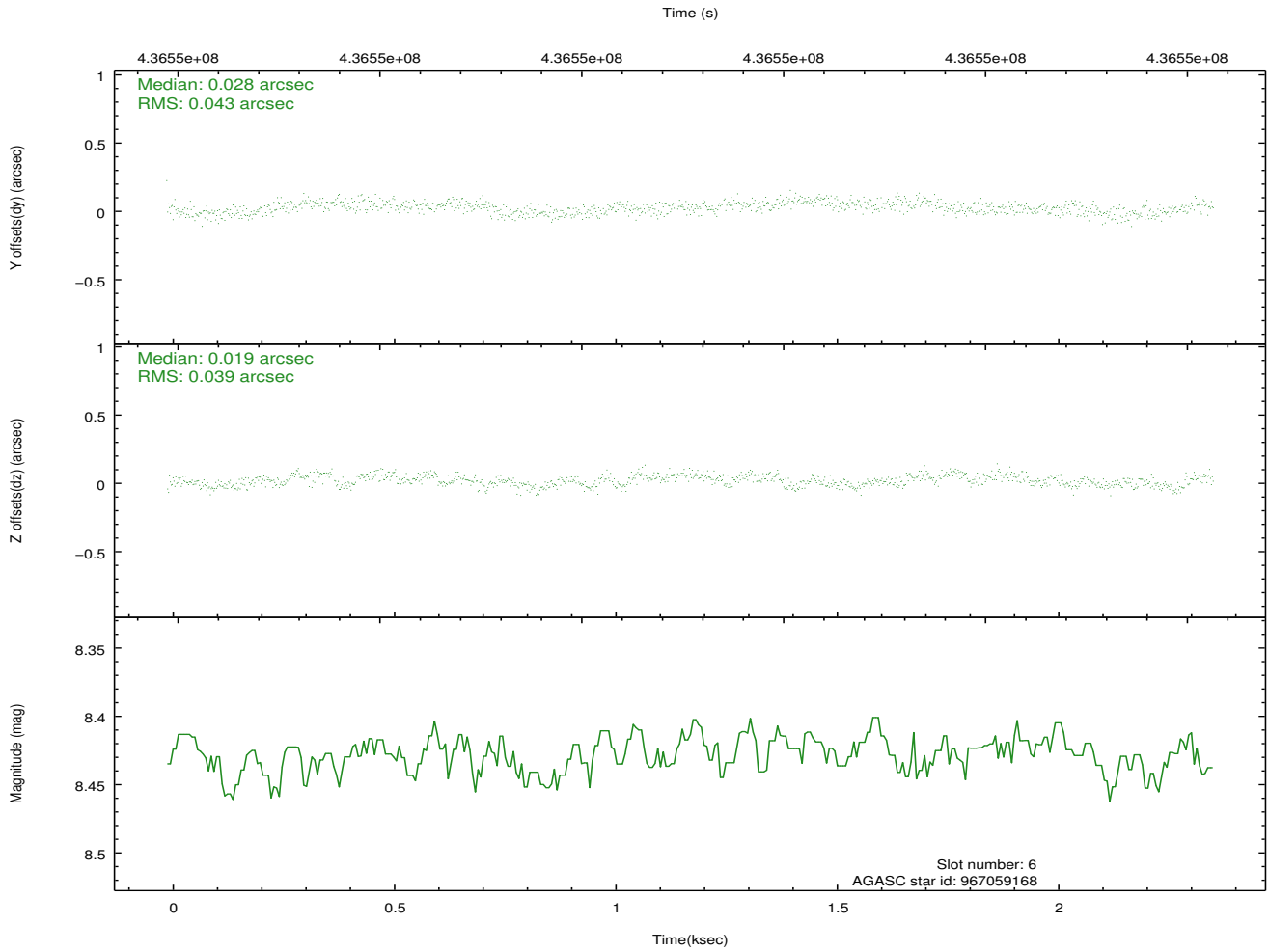
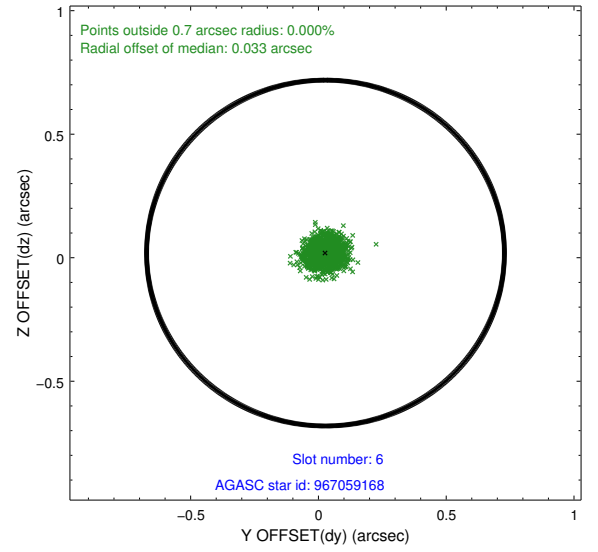
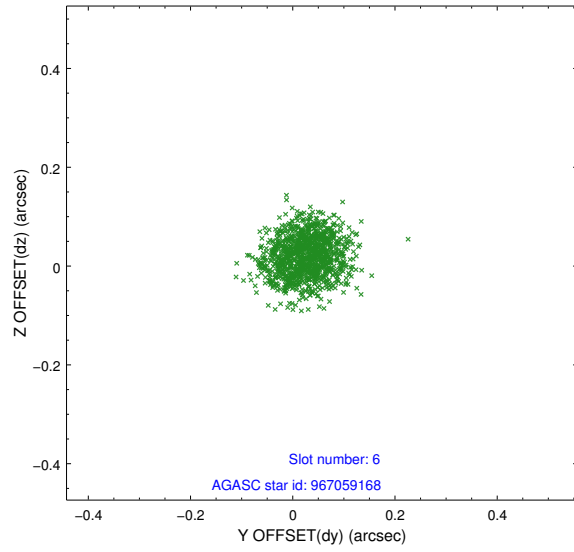
## 2.4.2 Slot 4



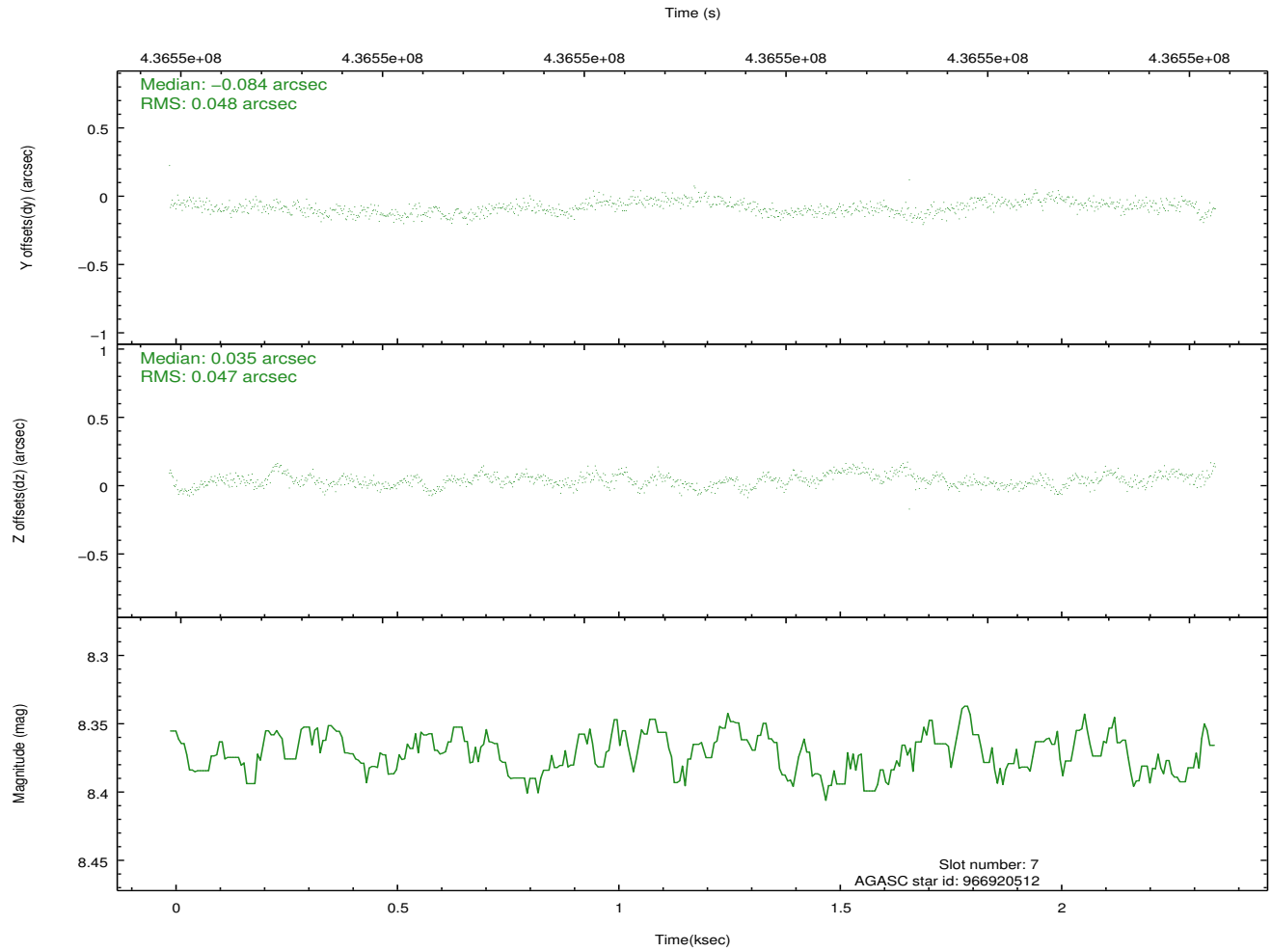
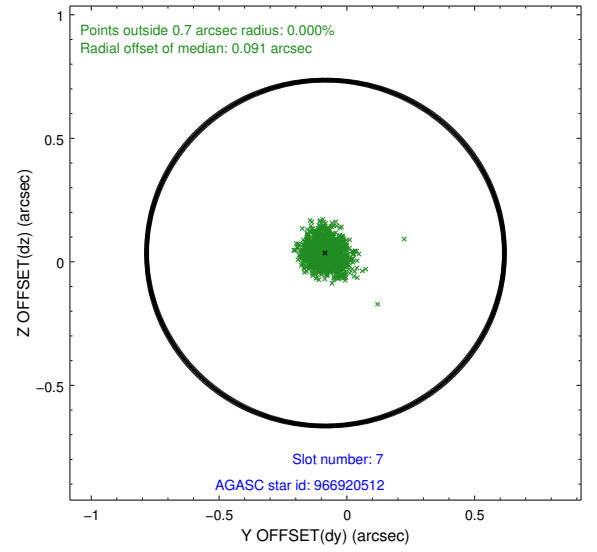
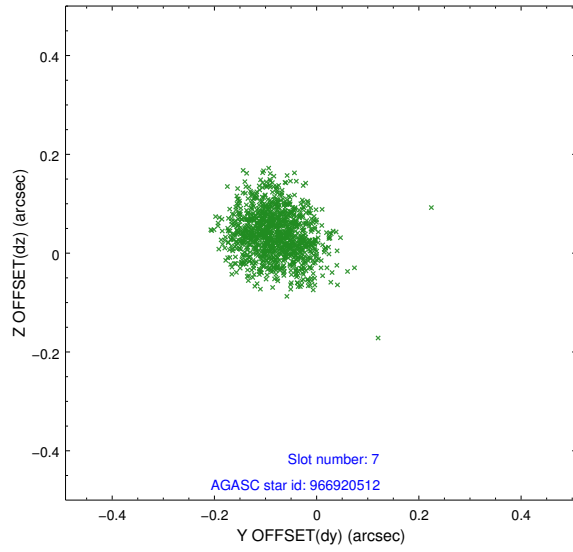
### 2.4.3 Slot 5



## 2.4.4 Slot 6

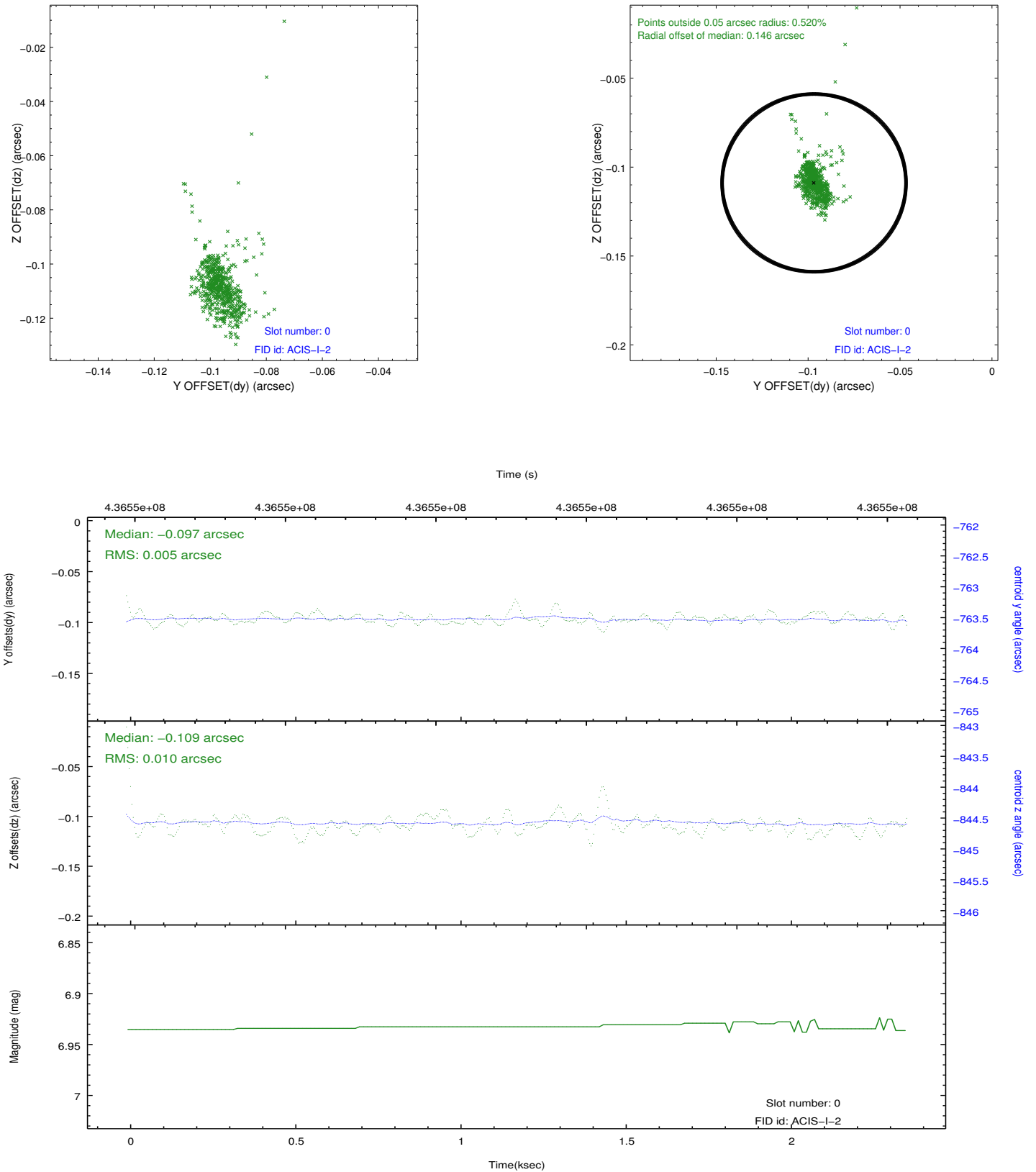


## 2.4.5 Slot 7

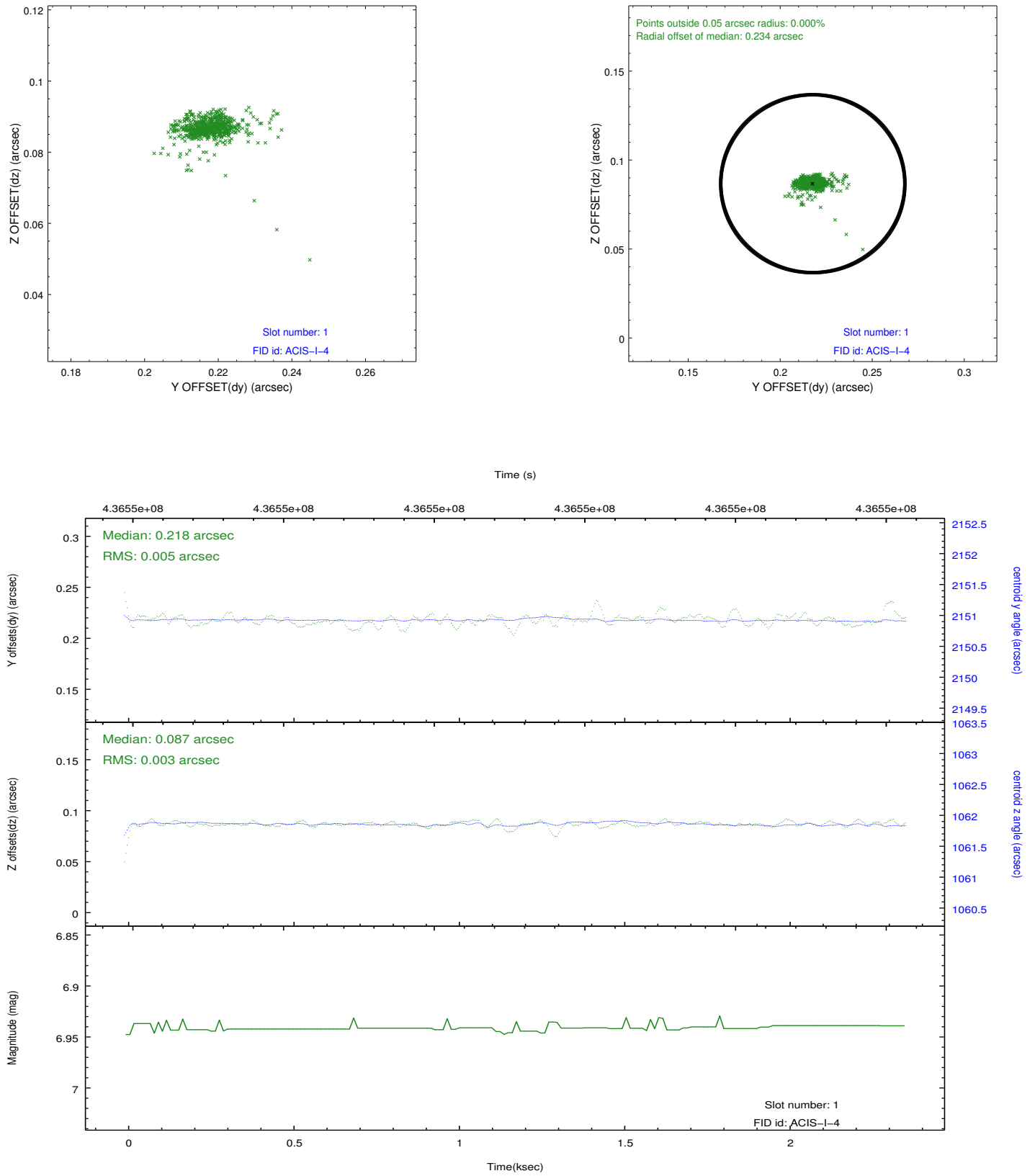


## 2.5 FID Slots

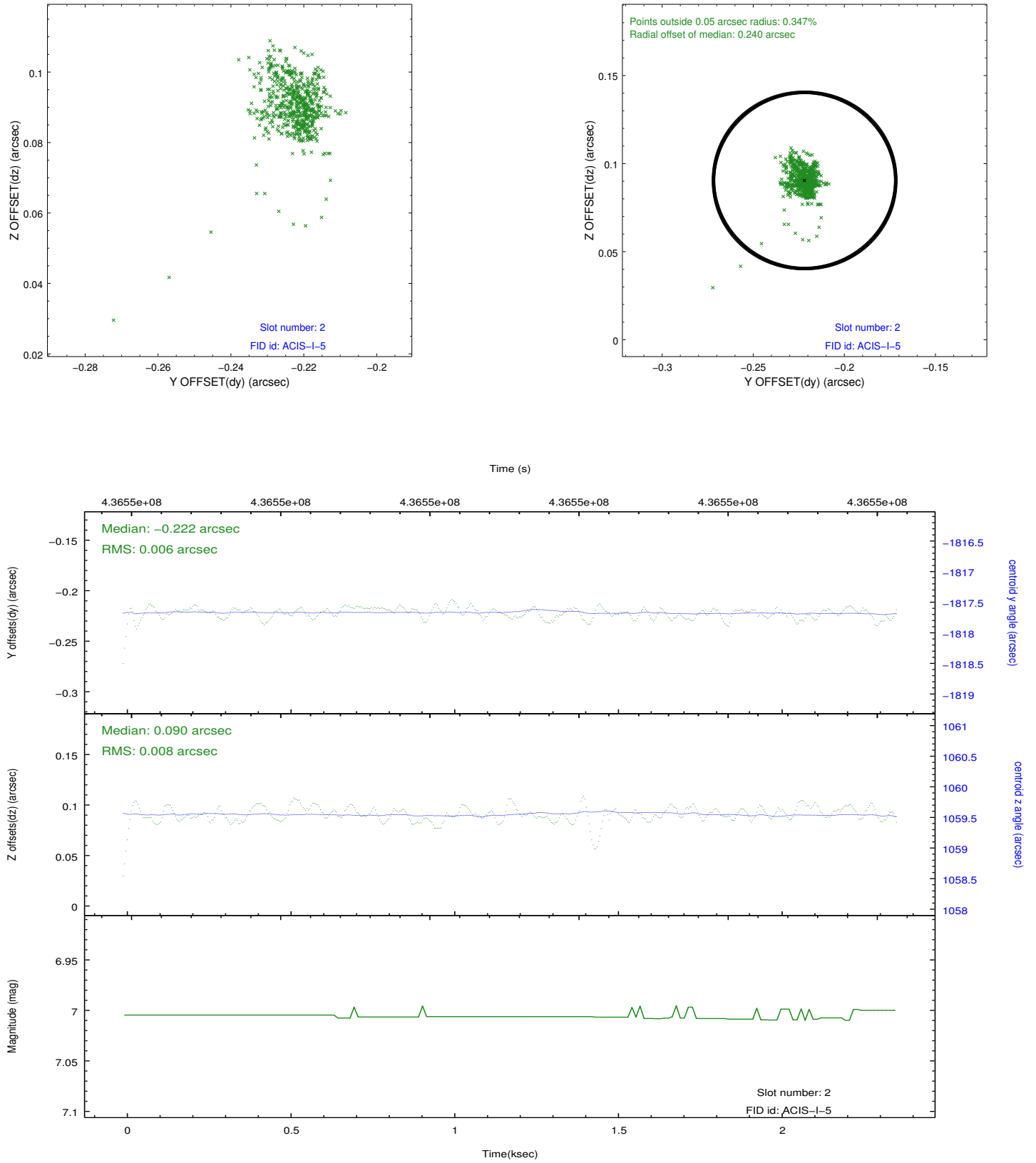
### 2.5.1 Slot 0



## 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)	2012.02.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9734920883775

### A.2 Comments

Joint proposal with NOAO.