

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8755 - L2 Version 2  
Chandra X-Ray Center

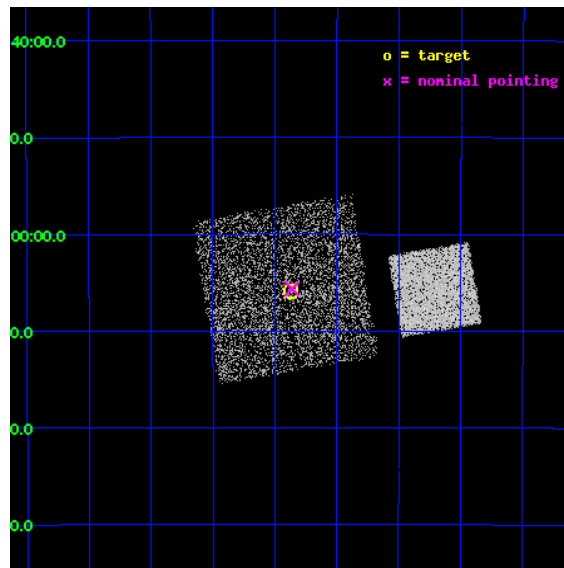
L2 Processing Date : May 14 2012

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# 1 Front

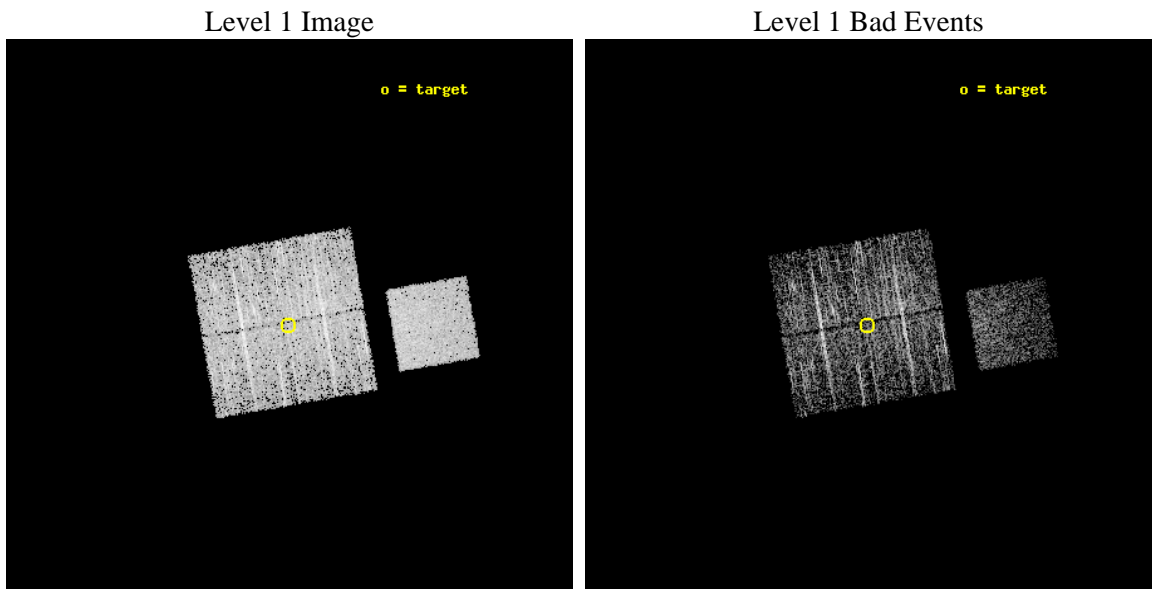
seq_num	400806	Sequence number
obs_id	8755	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.34268	Observer's specified target RA [deg]
dec_targ	-30.09898	Observer's specified target Dec [deg]
ra_nom	267.34068911582	Nominal RA [deg]
dec_nom	-30.094132165565	Nominal Dec [deg]
roll_nom	80.207713740743	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2182.4000167847	Sum of GTIs [s]
livetime	2153.8853539059	Livetime [s]
ontime0	2182.4000167847	Sum of GTIs [s]
ontime1	2182.4000167847	Sum of GTIs [s]
ontime2	2182.4000167847	Sum of GTIs [s]
ontime3	2182.4000167847	Sum of GTIs [s]
ontime7	2182.4000167847	Sum of GTIs [s]
l2events	16016	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	2182.4000167847	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2182.4000167847	Sum of GTIs [s]
date	2012-05-14T20:46:15	Date and time of file creation	ontime1	2182.4000167847	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2182.4000167847	Sum of GTIs [s]
			ontime3	2182.4000167847	Sum of GTIs [s]
			ontime7	2182.4000167847	Sum of GTIs [s]
			l1events	103986	Number of level 1 events

### 2.1.4 Events

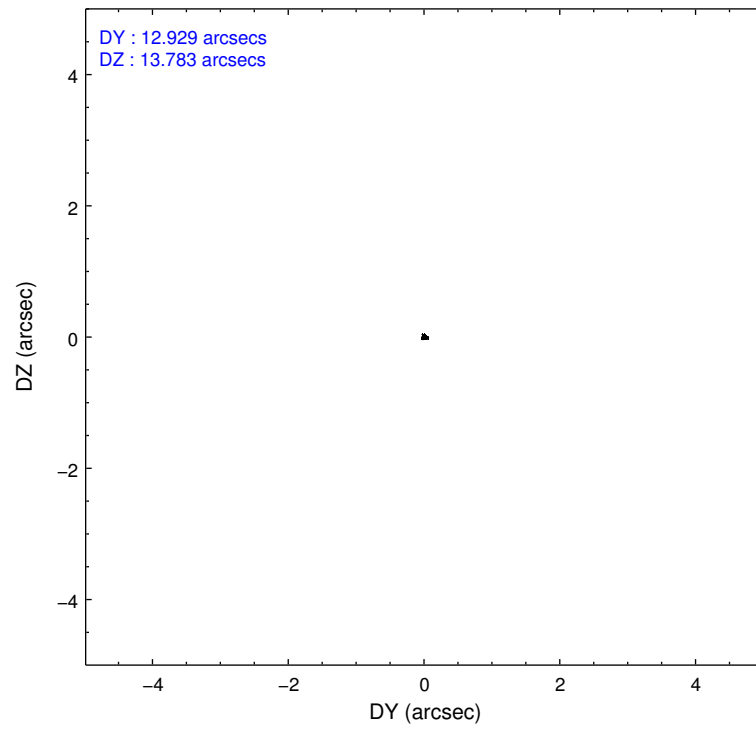
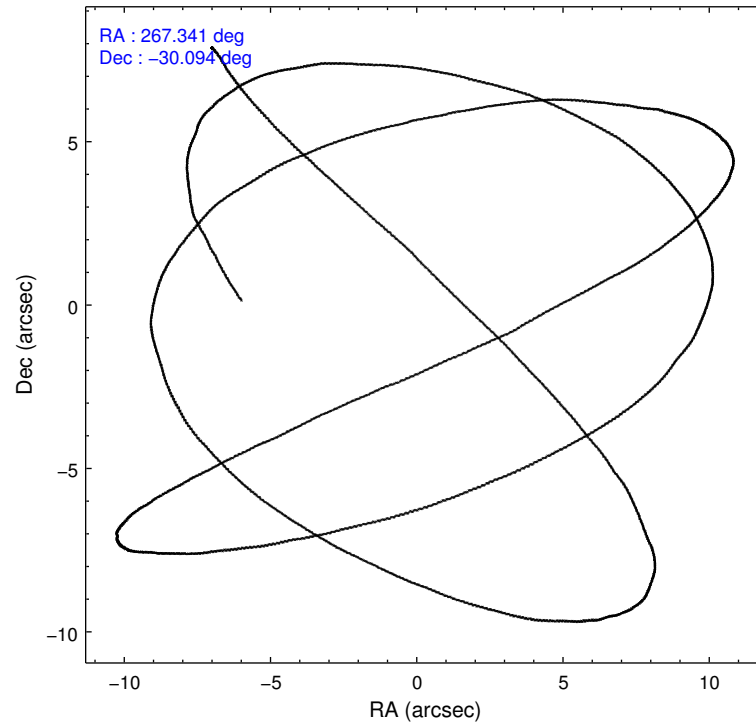
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	19340	18994	22715	19884	23053
rejected events	17300	16772	20608	17944	13667
rejected %	89%	88%	90%	90%	59%

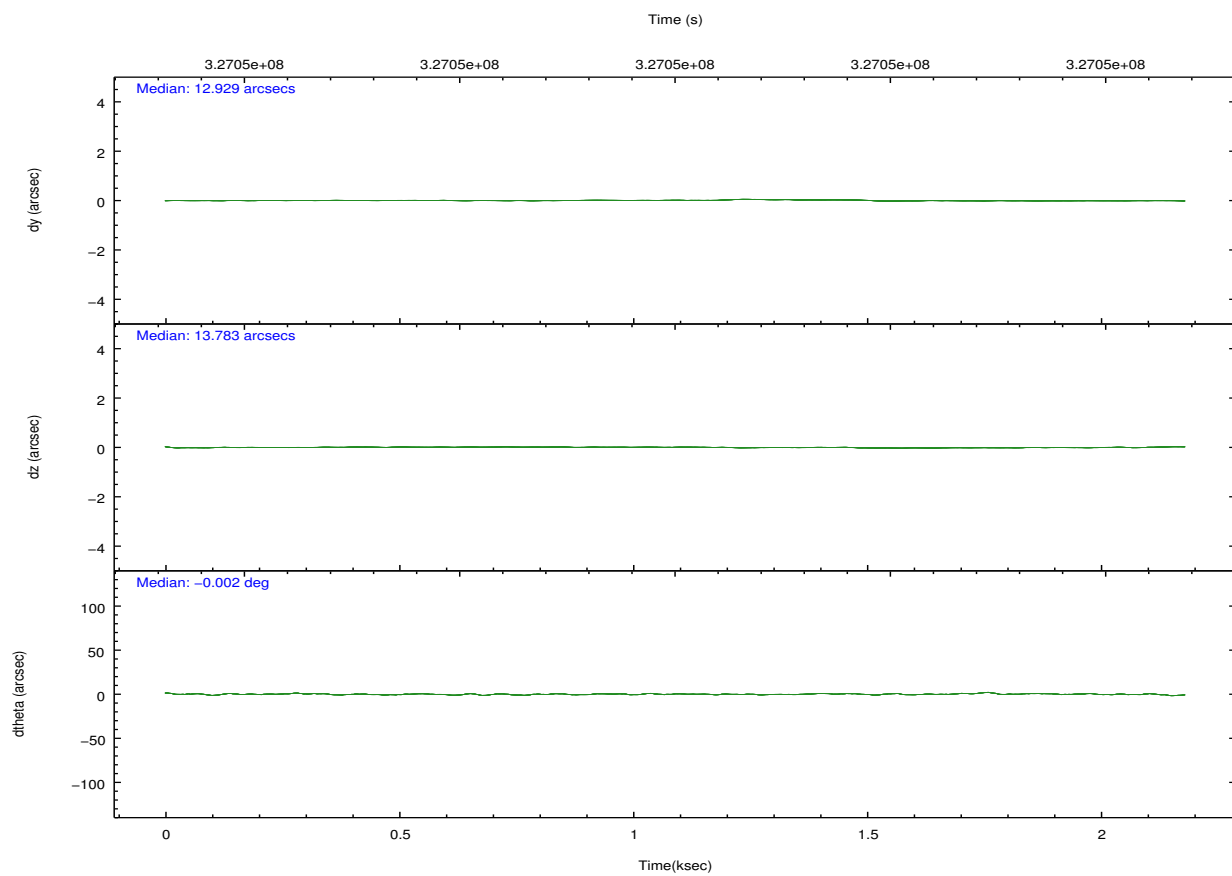
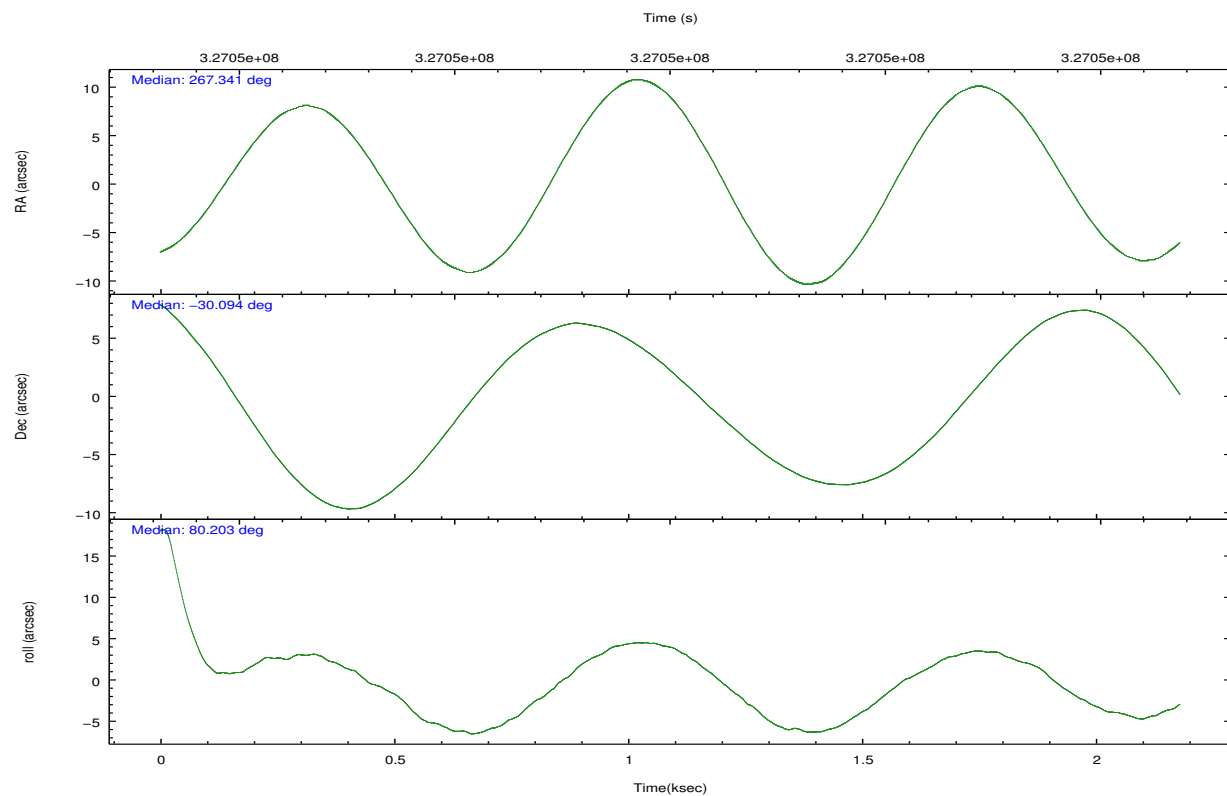
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	952	1071	1013	933	1044
	4%	5%	4%	4%	4%
grade 1 events	6	17	7	16	35
	0%	0%	0%	0%	0%
grade 2 events	489	522	568	462	2135
	2%	2%	2%	2%	9%
grade 3 events	263	247	228	230	1022
	1%	1%	1%	1%	4%
grade 4 events	233	264	234	226	1025
	1%	1%	1%	1%	4%
grade 5 events	718	733	697	803	2380
	3%	3%	3%	4%	10%
grade 6 events	383	480	381	373	5611
	1%	2%	1%	1%	24%
grade 7 events	16296	15660	19587	16841	9801
	84%	82%	86%	84%	42%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	267.351892	267.3406891158179	CCD I2 on	Y	Y
[deg] Pointing Dec	-30.120016	-30.09413216556487	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004624	80.20771374074251	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	327051092.184000	327050715.9376	CCD S5 on	N	N
Observation start date	2008-05-13T07:30:27	2008-05-13T07:25:15	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327053092.184000	327053225.65023	On-chip summing requested	N	N
Observation end date	2008-05-13T08:03:47	2008-05-13T08:07:05	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





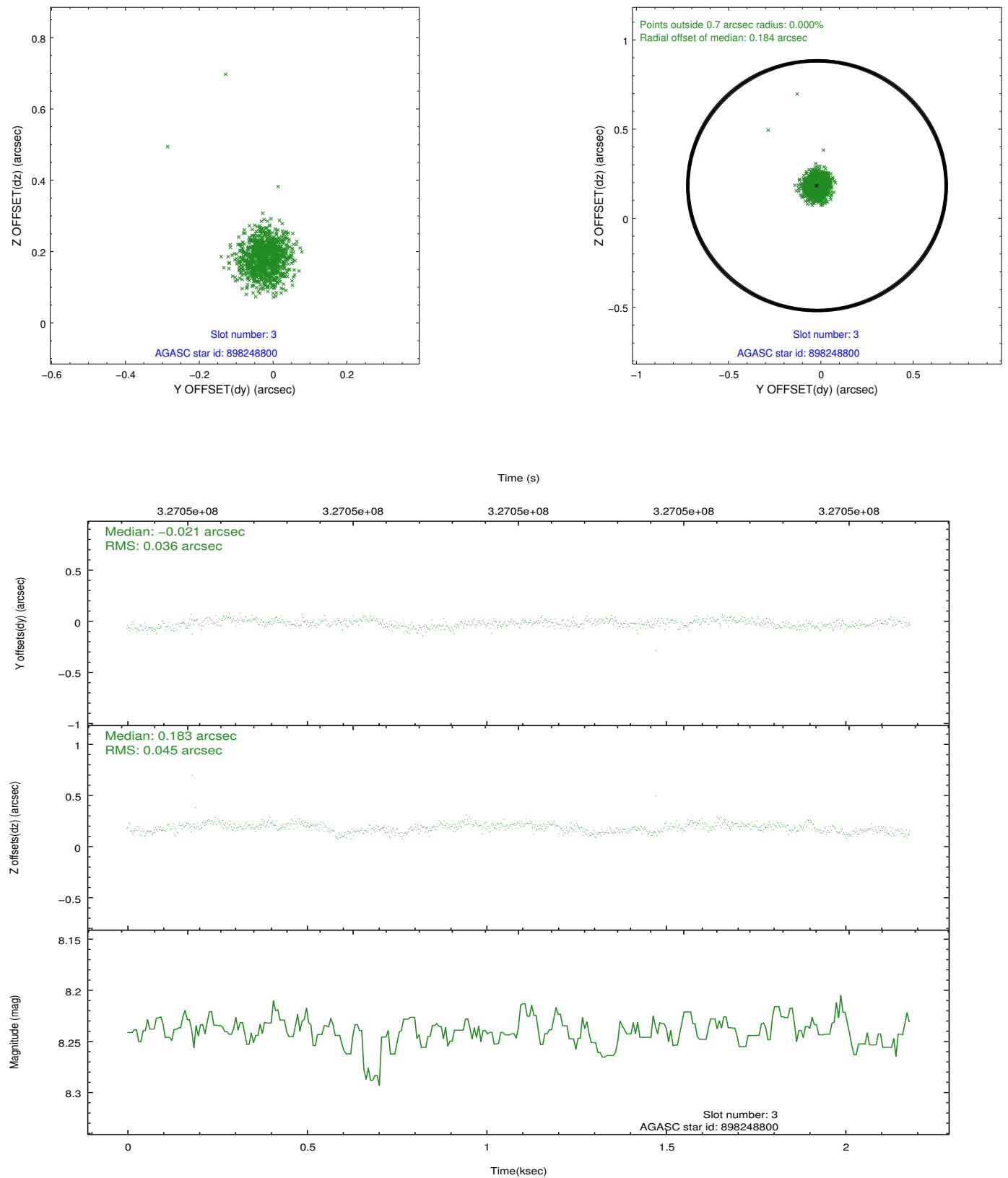
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.03	532	-0.036	0.045	0.009	0.016	0.000000	0.000000	926.55	-837.30
1	FID	ACIS-I-4	6.97	532	0.155	0.010	0.008	0.013	0.000000	0.000000	2148.44	1060.98
2	FID	ACIS-I-5	7.02	532	-0.217	0.016	0.006	0.012	0.000000	0.000000	-1817.79	1062.22
3	GUIDE	898248800	8.24	1065	-0.021	0.183	0.057	0.092	267.977609	-29.931731	1001.16	-1805.75
4	GUIDE	898250872	7.04	1065	-0.187	0.254	0.050	0.081	268.026303	-29.632040	2091.09	-1776.07
5	GUIDE	966919736	6.89	1065	0.156	0.020	0.060	0.105	267.322278	-30.597445	-1706.80	-210.50
6	GUIDE	966926496	8.11	1065	0.257	-0.269	0.062	0.100	267.109389	-30.299474	-769.50	629.62
7	GUIDE	896536400	8.56	1064	-0.205	-0.189	0.059	0.096	267.359146	-29.438655	2418.57	403.74

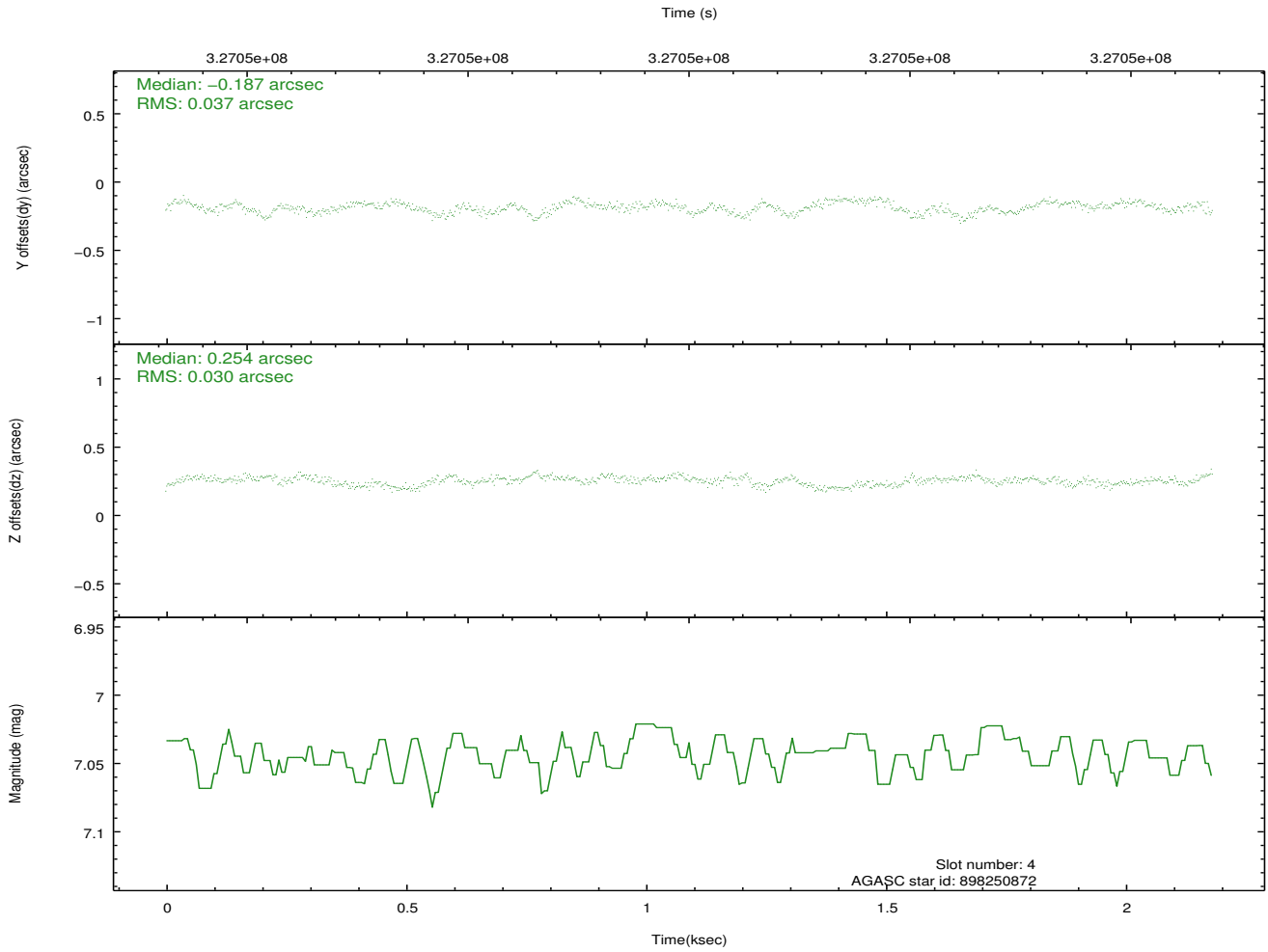
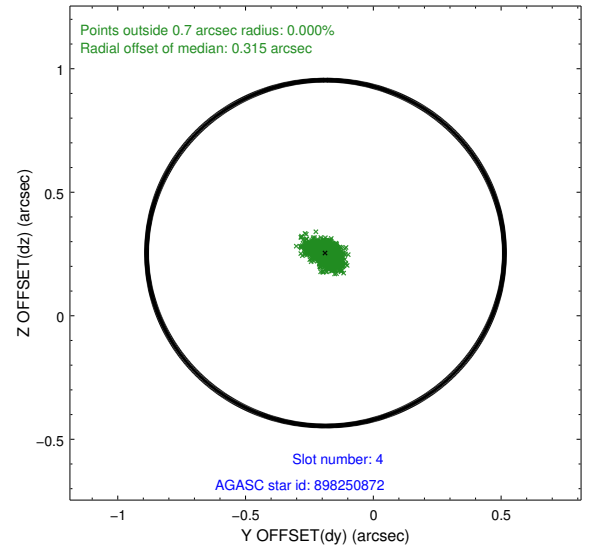
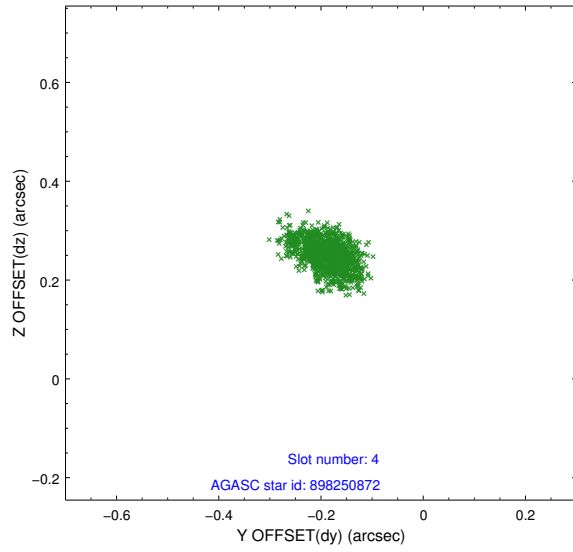


## 2.4 Star Slots

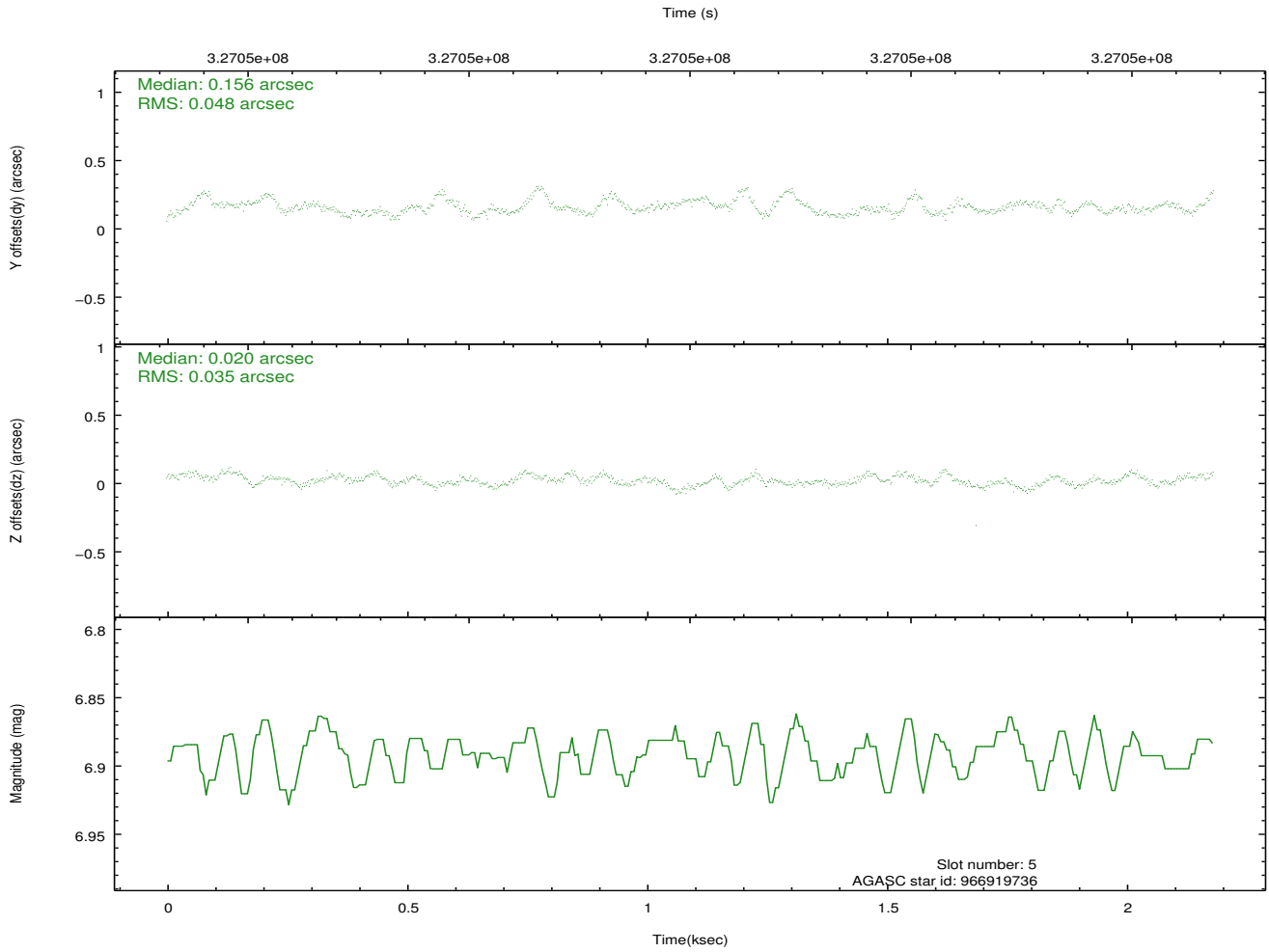
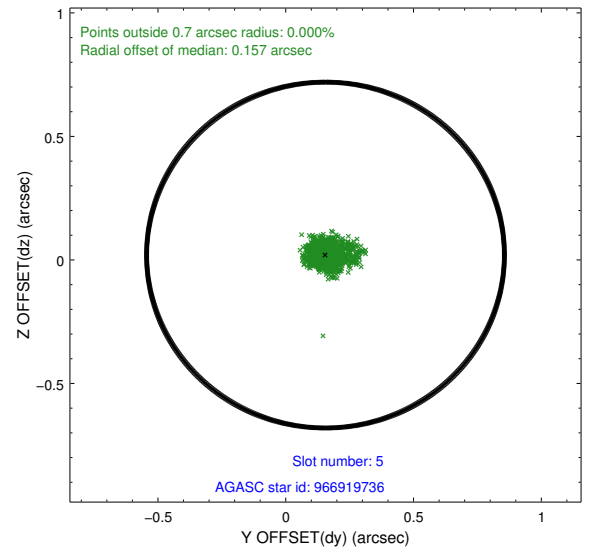
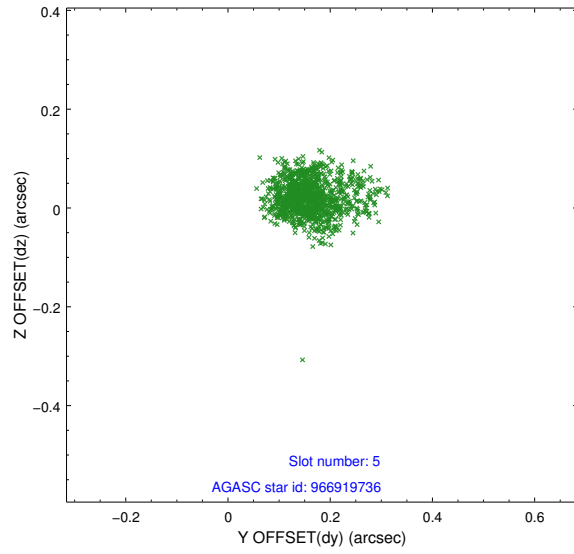
### 2.4.1 Slot 3



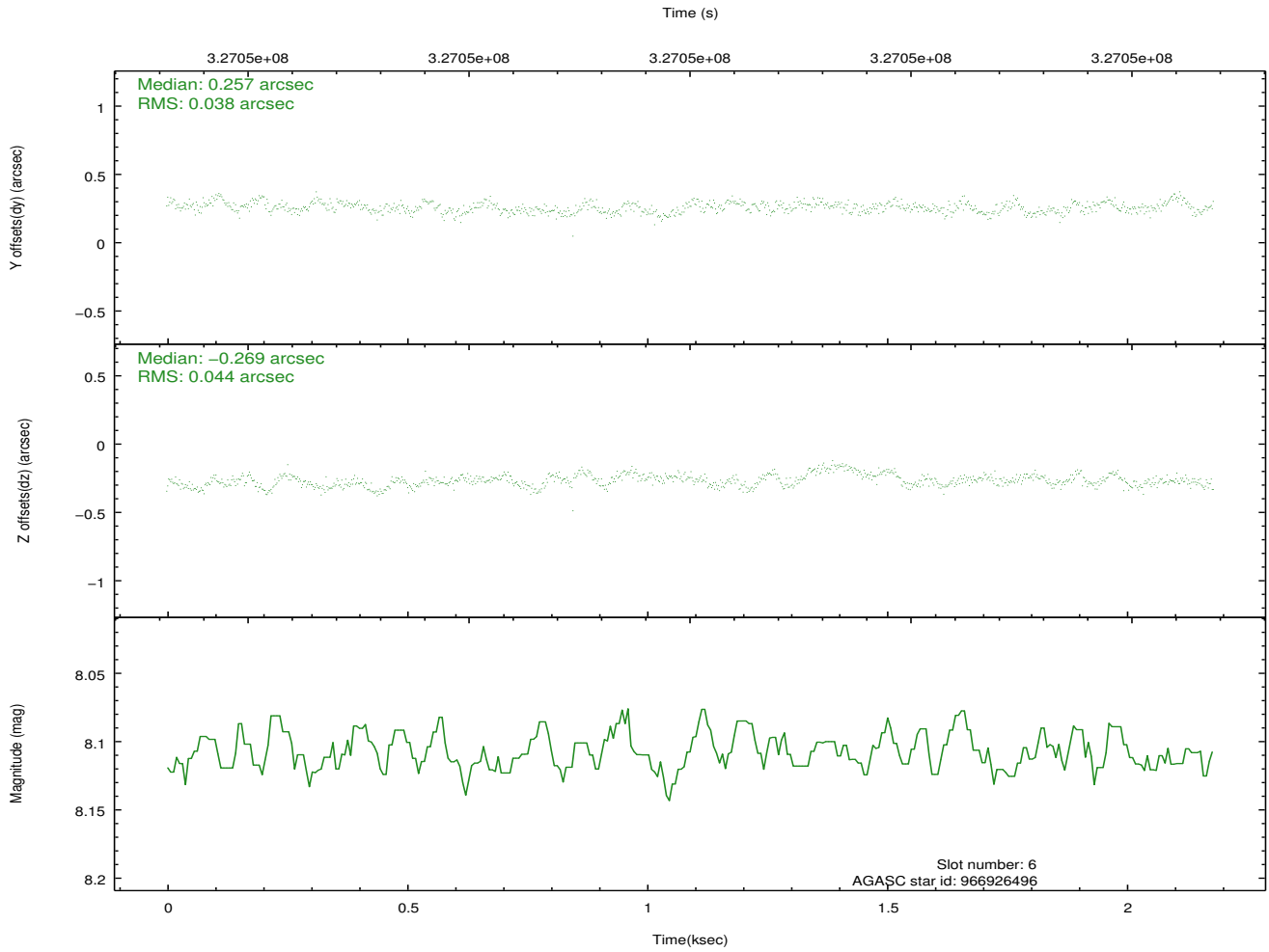
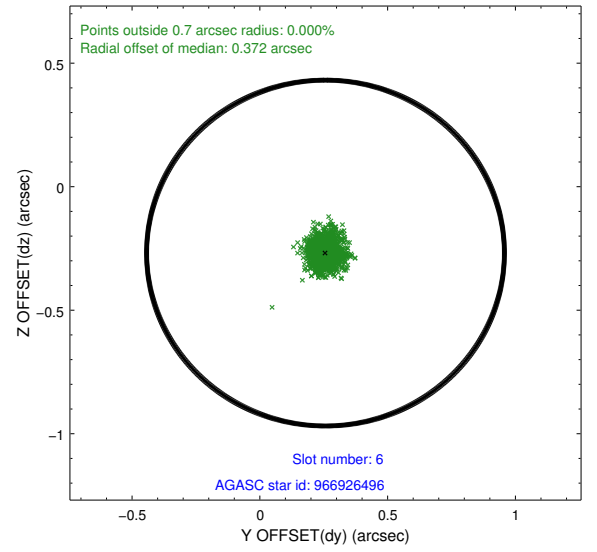
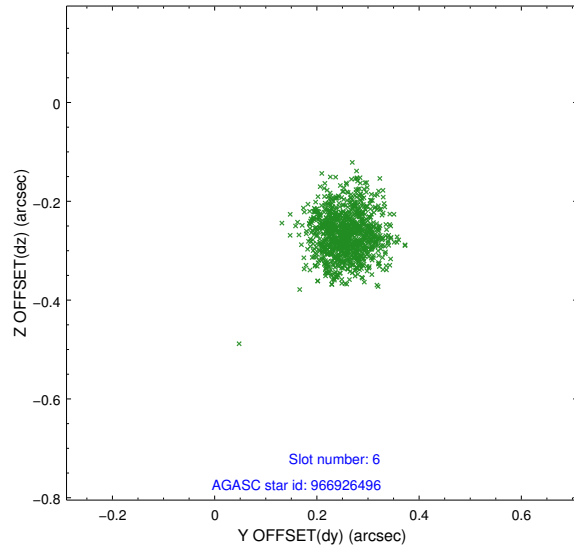
## 2.4.2 Slot 4



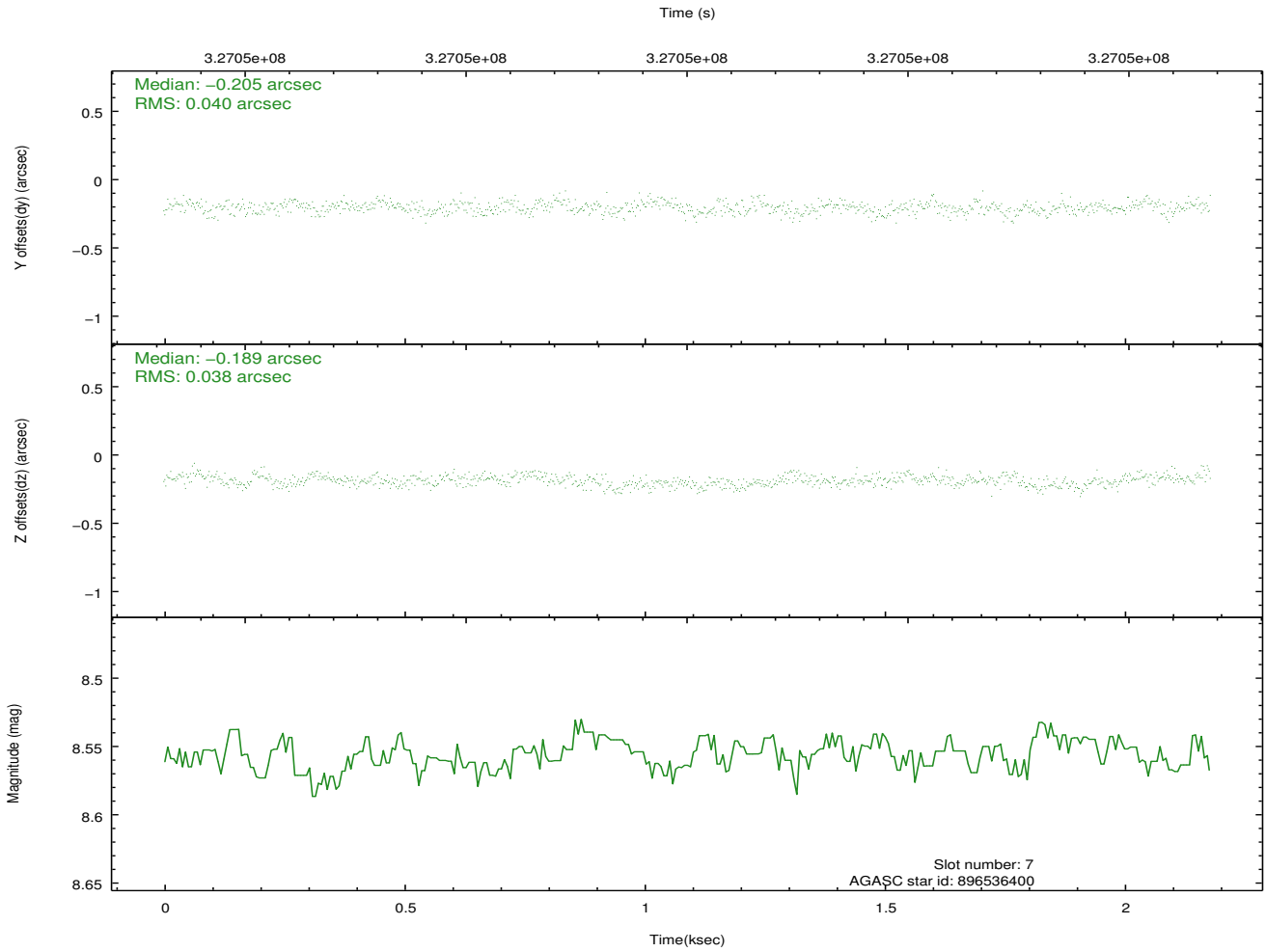
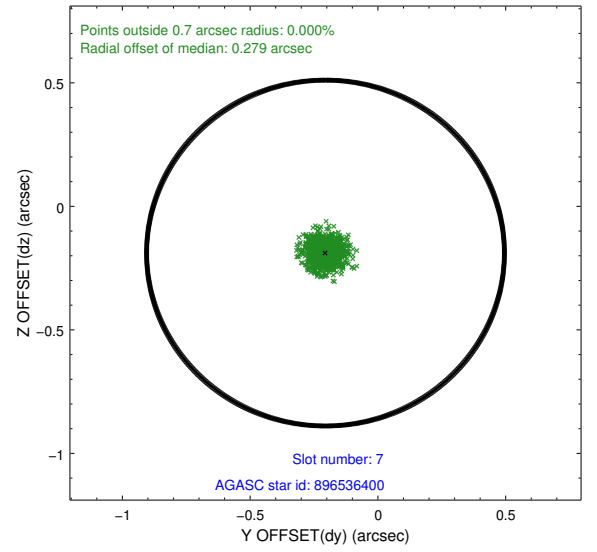
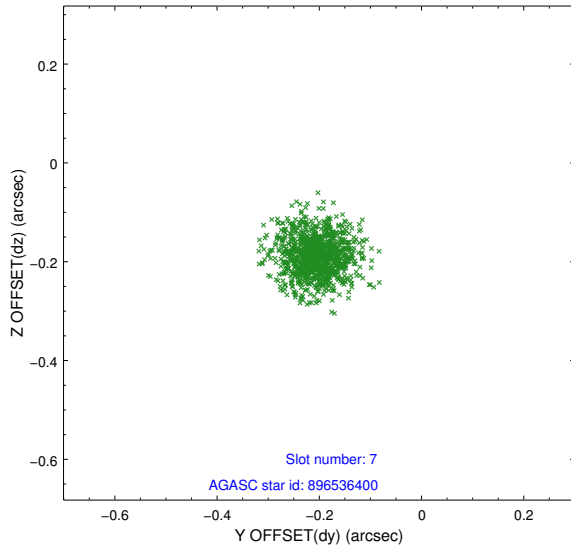
### 2.4.3 Slot 5



## 2.4.4 Slot 6

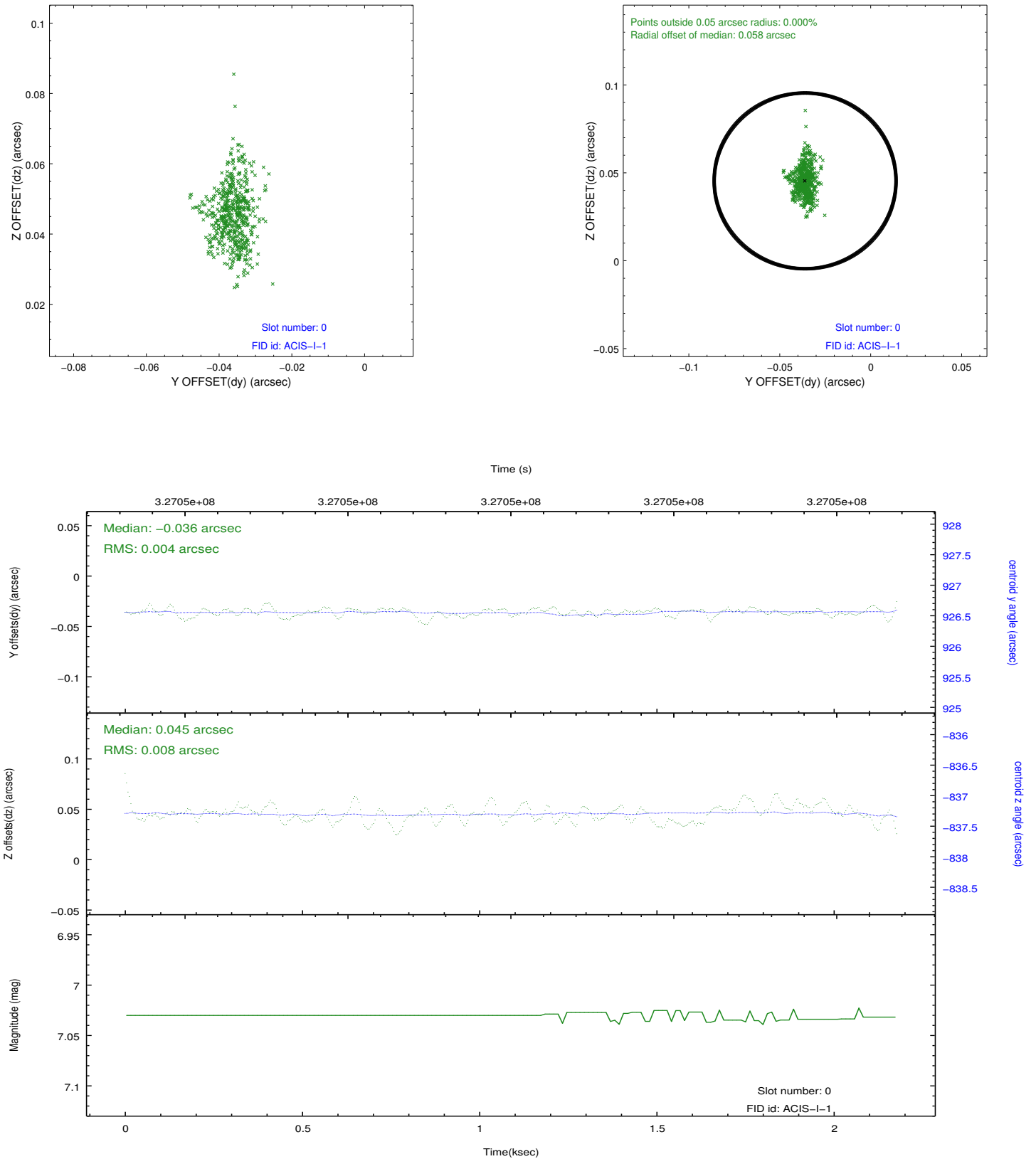


## 2.4.5 Slot 7

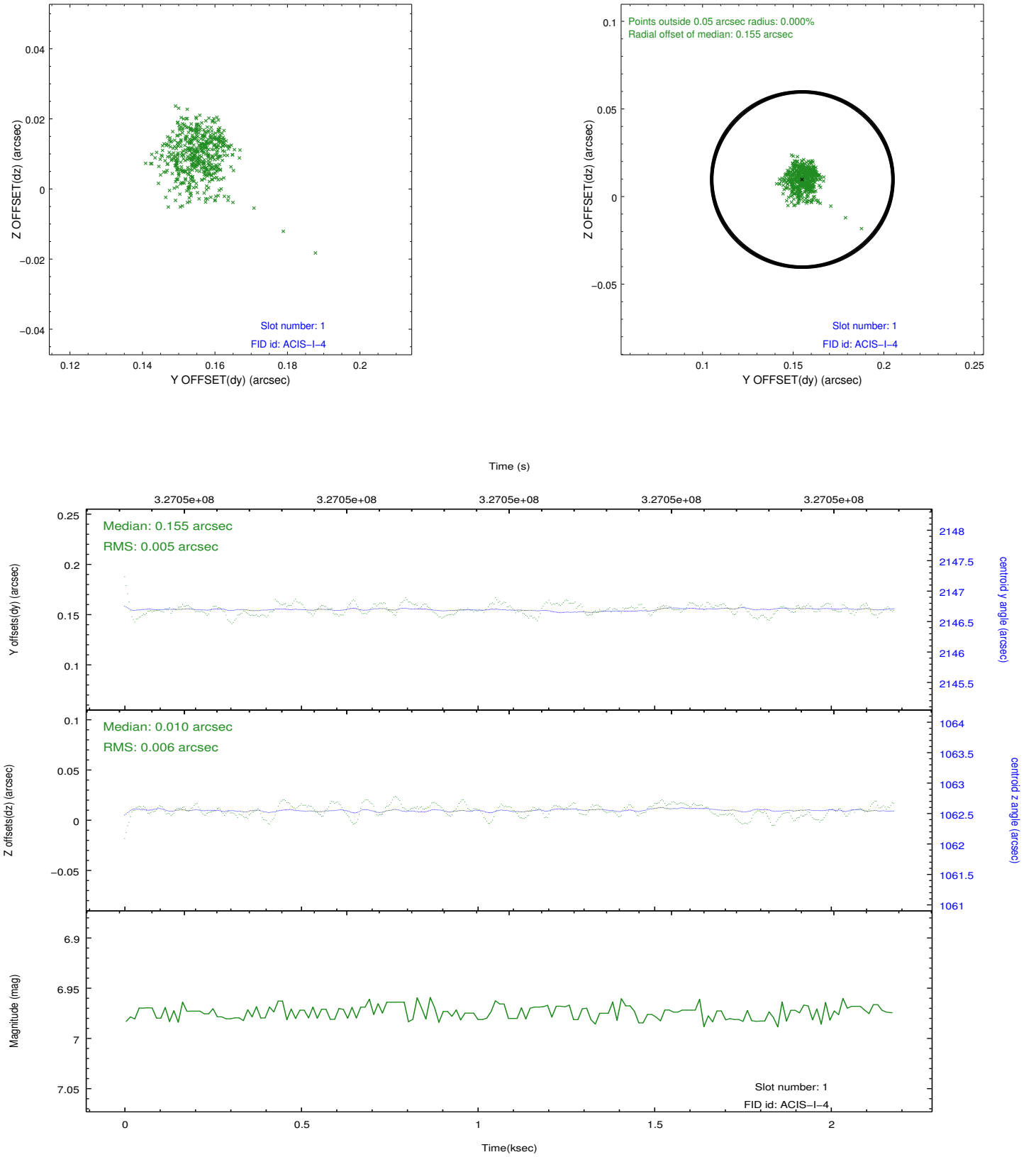


## 2.5 FID Slots

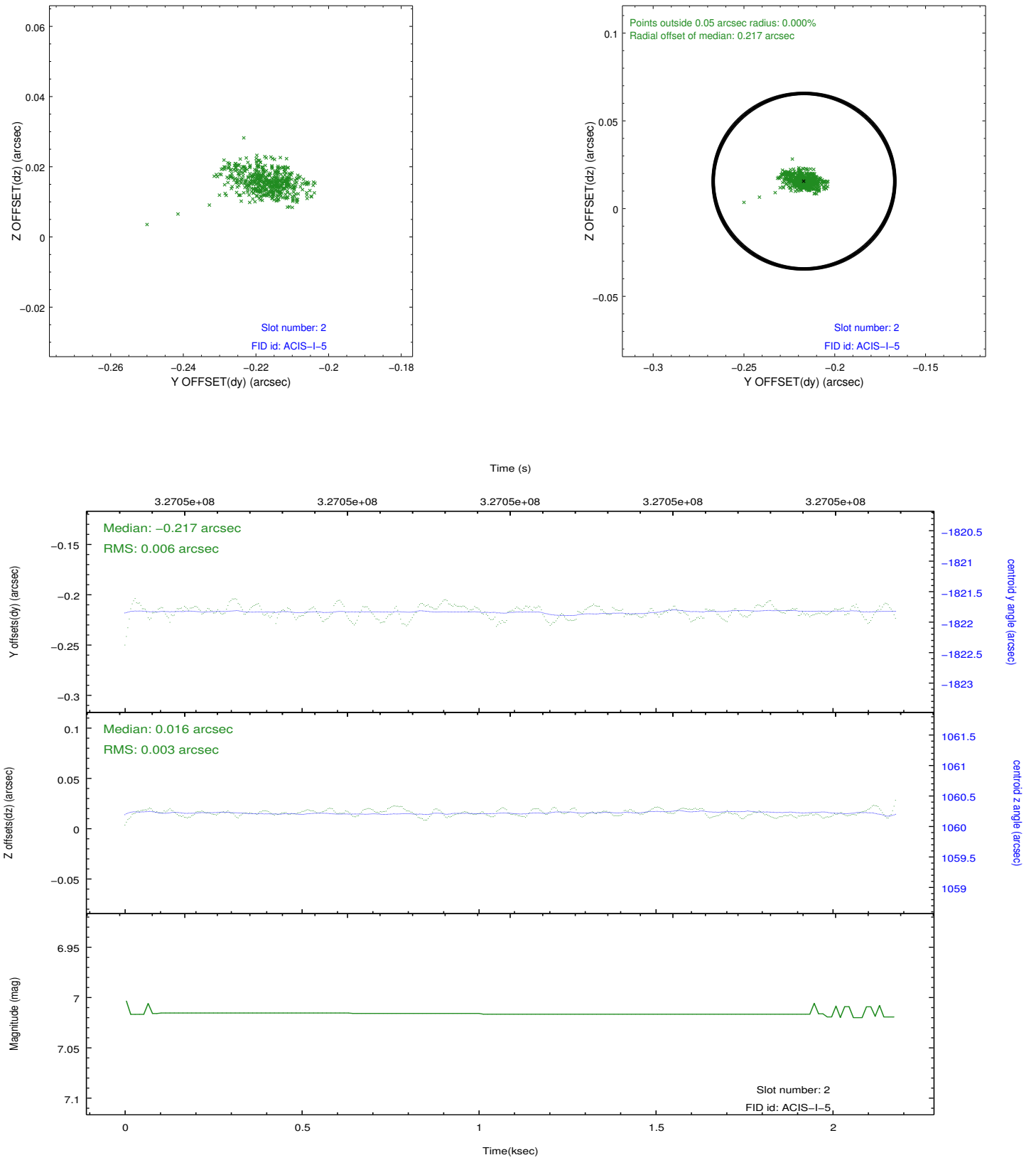
### 2.5.1 Slot 0



## 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)	2012.05.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18240001

## A.2 Comments

Joint proposal with NOAO.