

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 8762 - L2 Version 2  
Chandra X-Ray Center

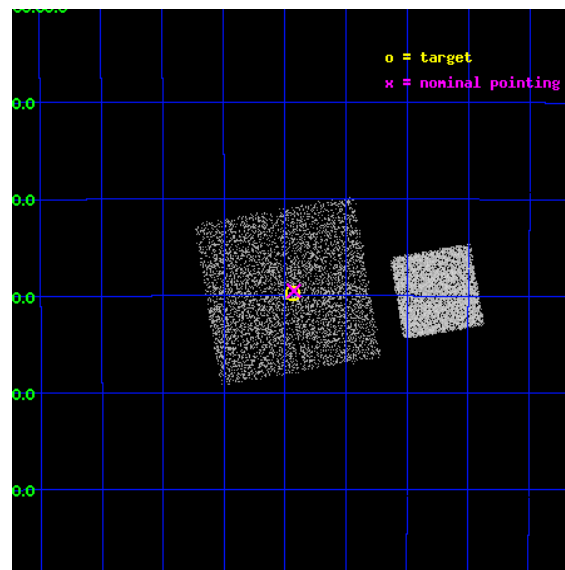
L2 Processing Date : May 14 2012

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# 1 Front

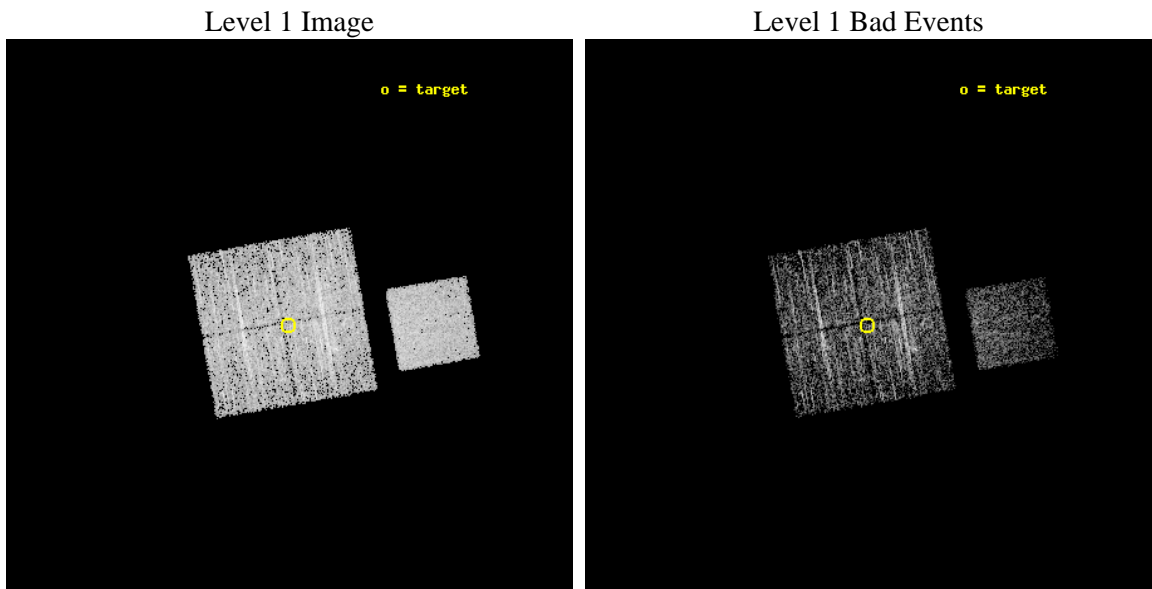
seq_num	400813	Sequence number
obs_id	8762	Observation id
title	The Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS1	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.358899	Observer's specified target RA [deg]
dec_targ	-31.496253	Observer's specified target Dec [deg]
ra_nom	266.35684394847	Nominal RA [deg]
dec_nom	-31.491534930914	Nominal Dec [deg]
roll_nom	80.207587319824	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2179.2180559635	Sum of GTIs [s]
livetime	2150.7449677454	Livetime [s]
ontime0	2182.3590065837	Sum of GTIs [s]
ontime1	2185.5000168085	Sum of GTIs [s]
ontime2	2185.5000168085	Sum of GTIs [s]
ontime3	2179.2180559635	Sum of GTIs [s]
ontime7	2185.5000168085	Sum of GTIs [s]
l2events	15215	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	2179.2180559635	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2182.3590065837	Sum of GTIs [s]
date	2012-05-14T21:10:22	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	2179.2180559635	Sum of GTIs [s]
			ontime7	2185.5000168085	Sum of GTIs [s]
			l1events	102593	Number of level 1 events

### 2.1.4 Events

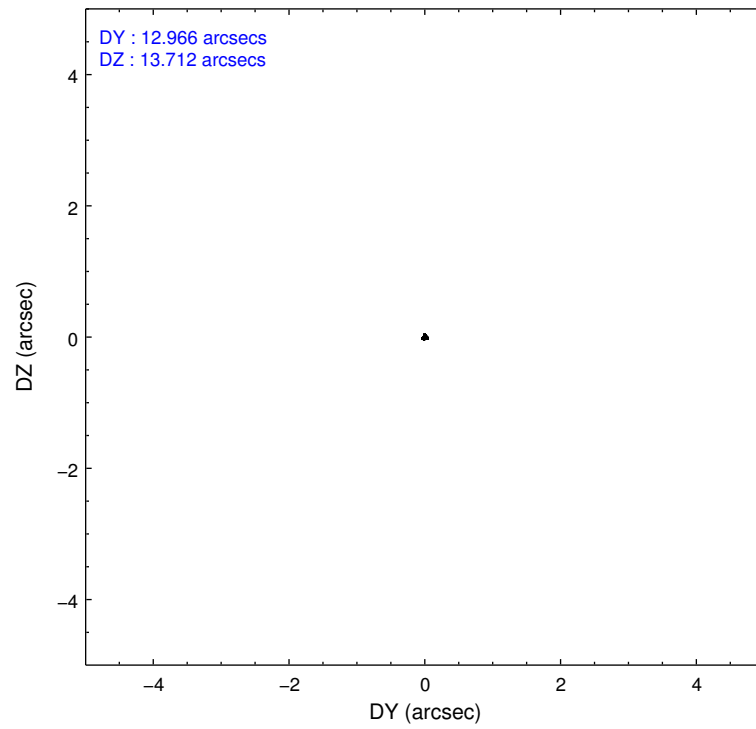
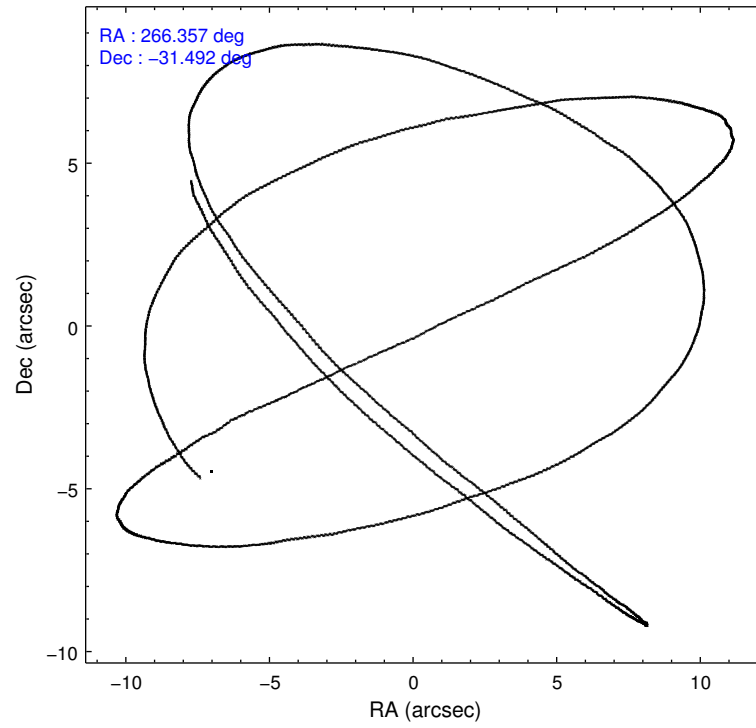
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	18956	19132	21100	20682	22723
rejected events	17095	16968	19219	18851	13677
rejected %	90%	88%	91%	91%	60%

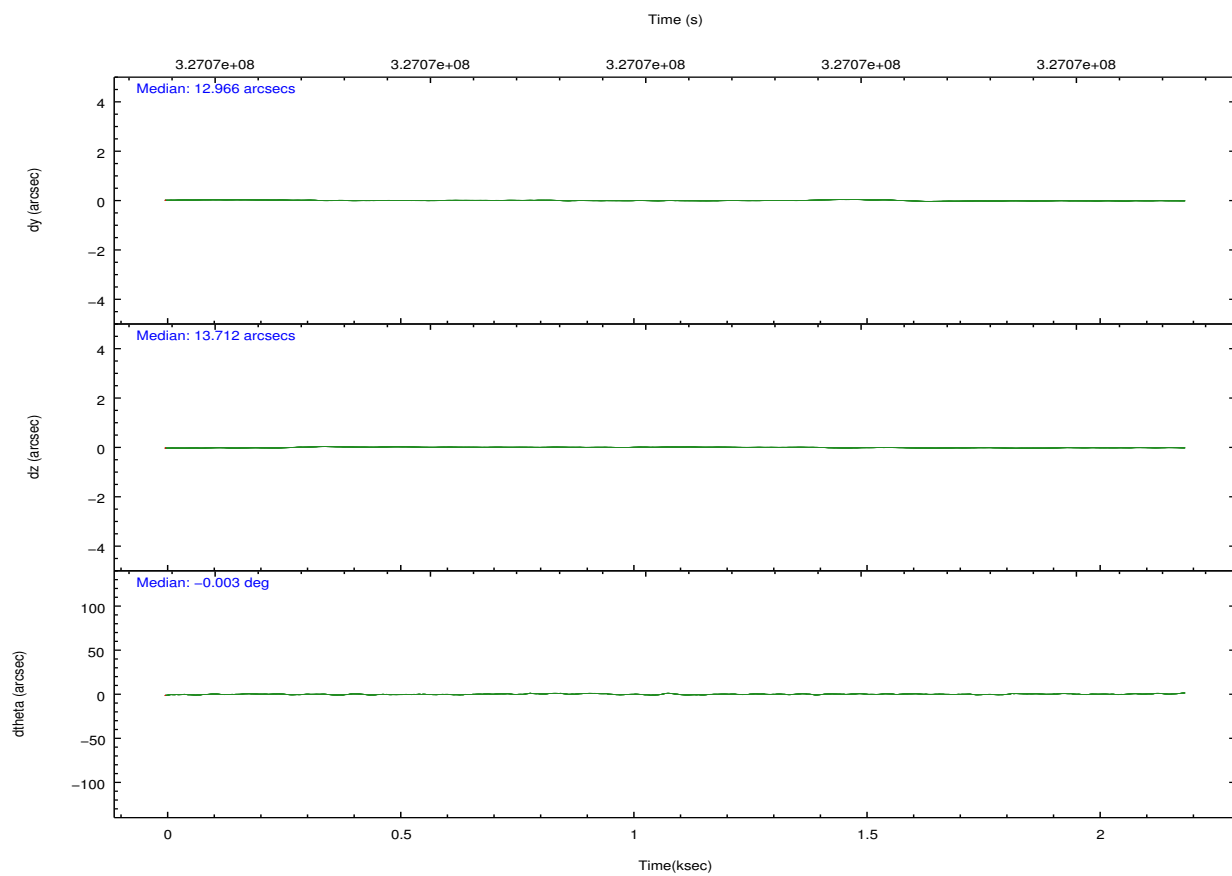
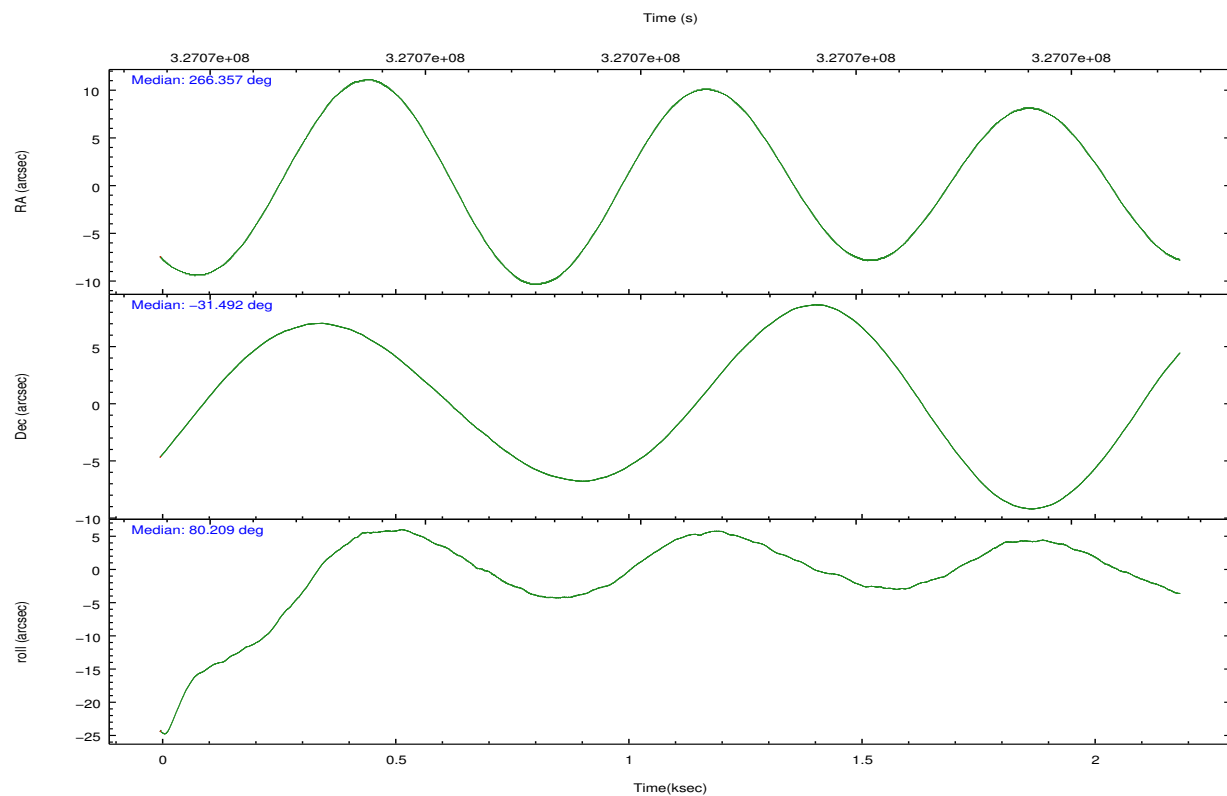
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	834	920	842	858	965
	4%	4%	3%	4%	4%
grade 1 events	11	13	14	9	35
	0%	0%	0%	0%	0%
grade 2 events	523	578	534	438	2198
	2%	3%	2%	2%	9%
grade 3 events	234	260	218	218	903
	1%	1%	1%	1%	3%
grade 4 events	198	233	197	201	954
	1%	1%	0%	0%	4%
grade 5 events	654	744	612	865	2384
	3%	3%	2%	4%	10%
grade 6 events	364	471	366	374	5365
	1%	2%	1%	1%	23%
grade 7 events	16138	15913	18317	17719	9919
	85%	83%	86%	85%	43%

## 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	266.368254	266.3568439484692	CCD I2 on	Y	Y
[deg] Pointing Dec	-31.517290	-31.49153493091412	CCD I3 on	Y	Y
[deg] Pointing Roll	80.004892	80.20758731982441	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)	327068662.184000	327068285.46346	CCD S5 on	N	N
Observation start date	2008-05-13T12:23:17	2008-05-13T12:18:05	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	327070662.184000	327070795.68858	On-chip summing requested	N	N
Observation end date	2008-05-13T12:56:37	2008-05-13T12:59:55	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





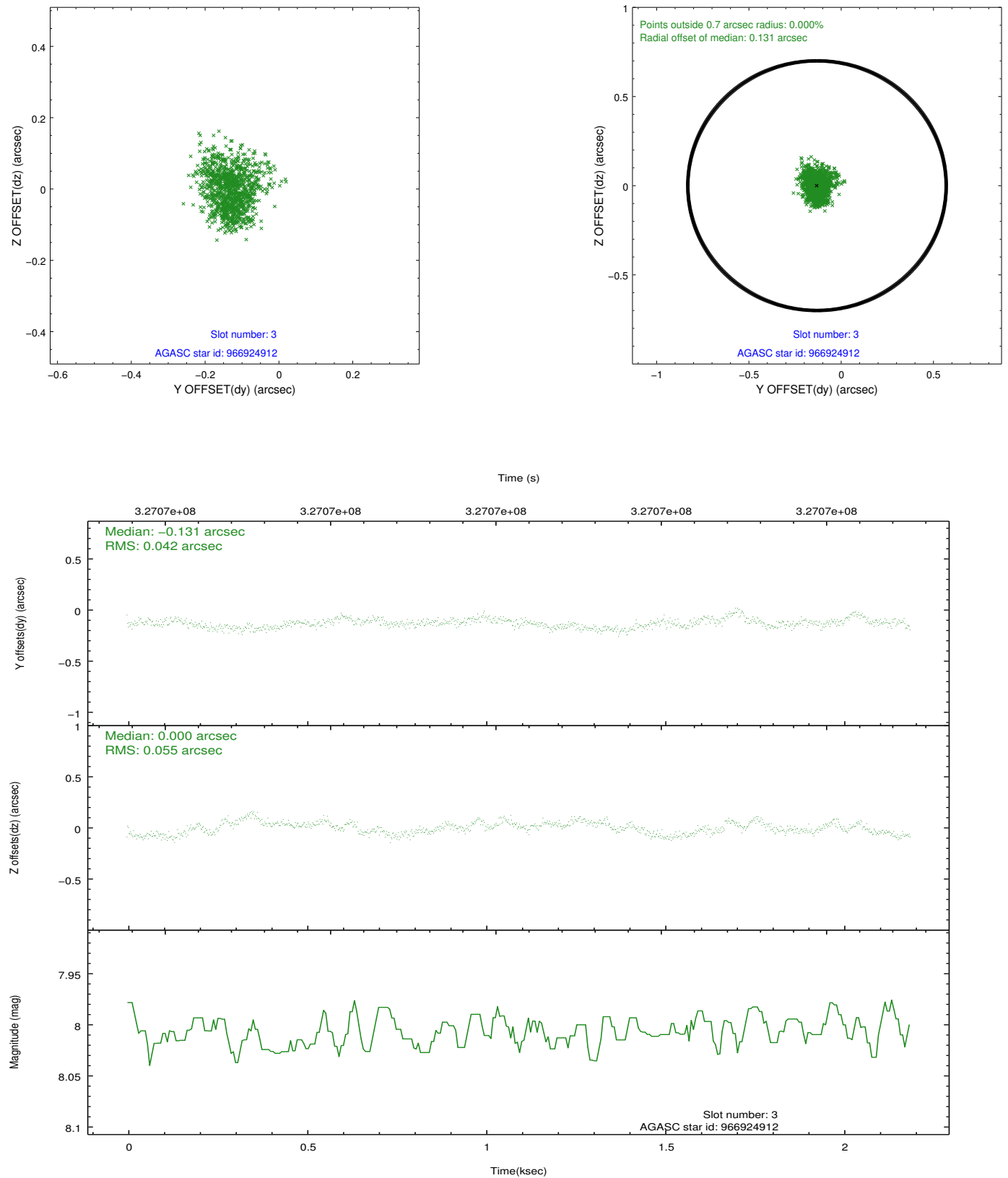
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.05	534	0.011	0.037	0.006	0.010	0.000000	0.000000	926.57	-837.23
1	FID	ACIS-I-5	7.04	534	-0.175	0.034	0.007	0.011	0.000000	0.000000	-1820.10	1058.74
2	FID	ACIS-I-6	7.04	534	0.073	0.000	0.007	0.011	0.000000	0.000000	388.91	1706.61
3	GUIDE	966924912	8.01	1068	-0.131	0.000	0.076	0.119	266.020014	-31.275150	670.81	1205.97
4	GUIDE	966925512	8.27	1068	-0.076	-0.011	0.063	0.098	266.373606	-31.056700	1636.34	272.42
5	GUIDE	966925632	8.93	1067	0.039	0.021	0.071	0.118	266.388610	-30.982191	1909.27	272.59
6	GUIDE	967447552	8.78	1068	-0.065	-0.033	0.085	0.129	265.515186	-32.048669	-2344.01	2229.82
7	GUIDE	967445088	9.03	1067	0.230	0.030	0.077	0.129	265.761342	-32.072953	-2298.38	1477.05

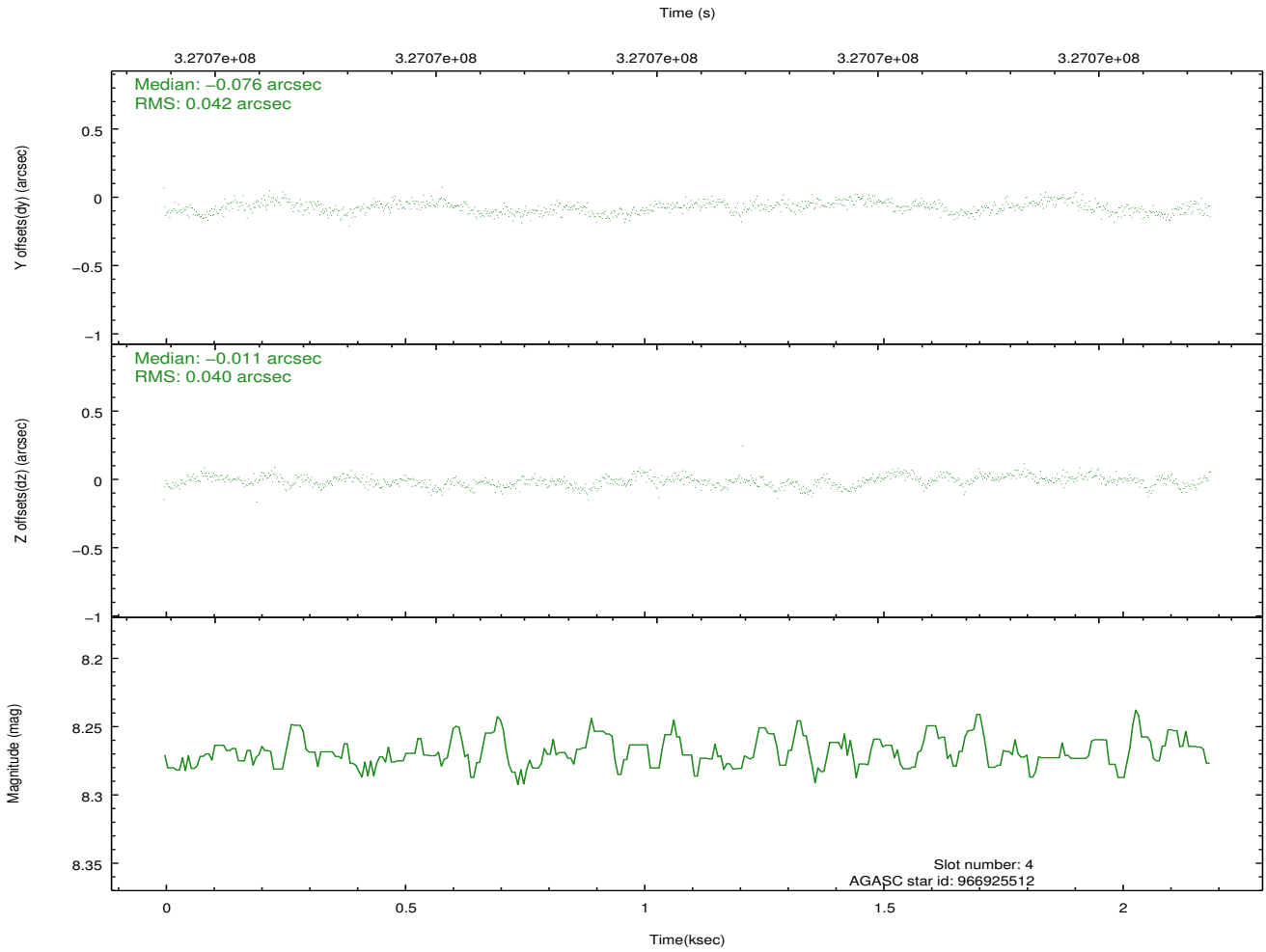
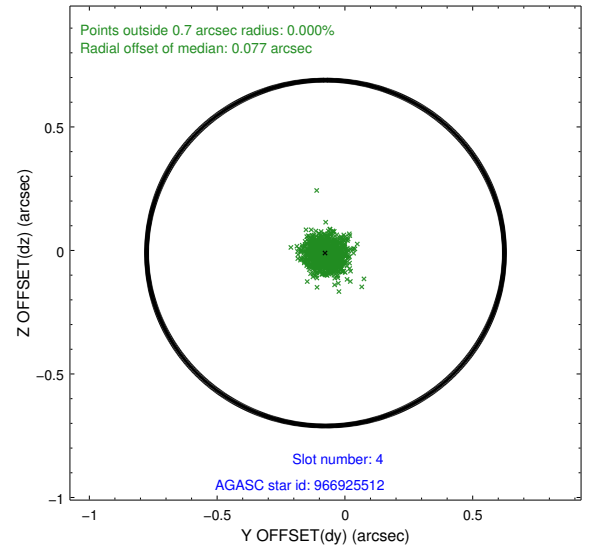
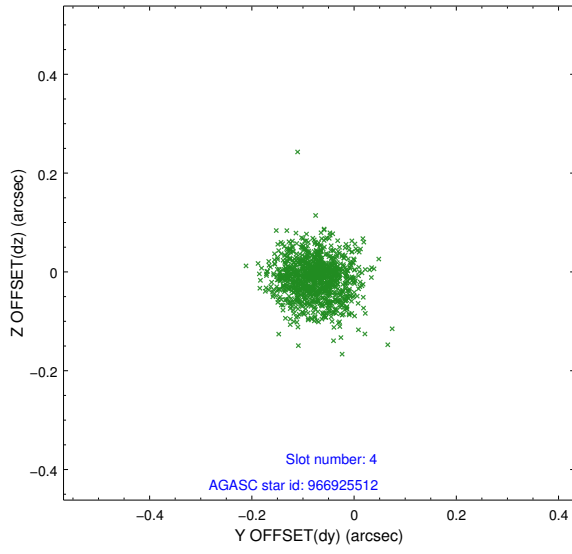


## 2.4 Star Slots

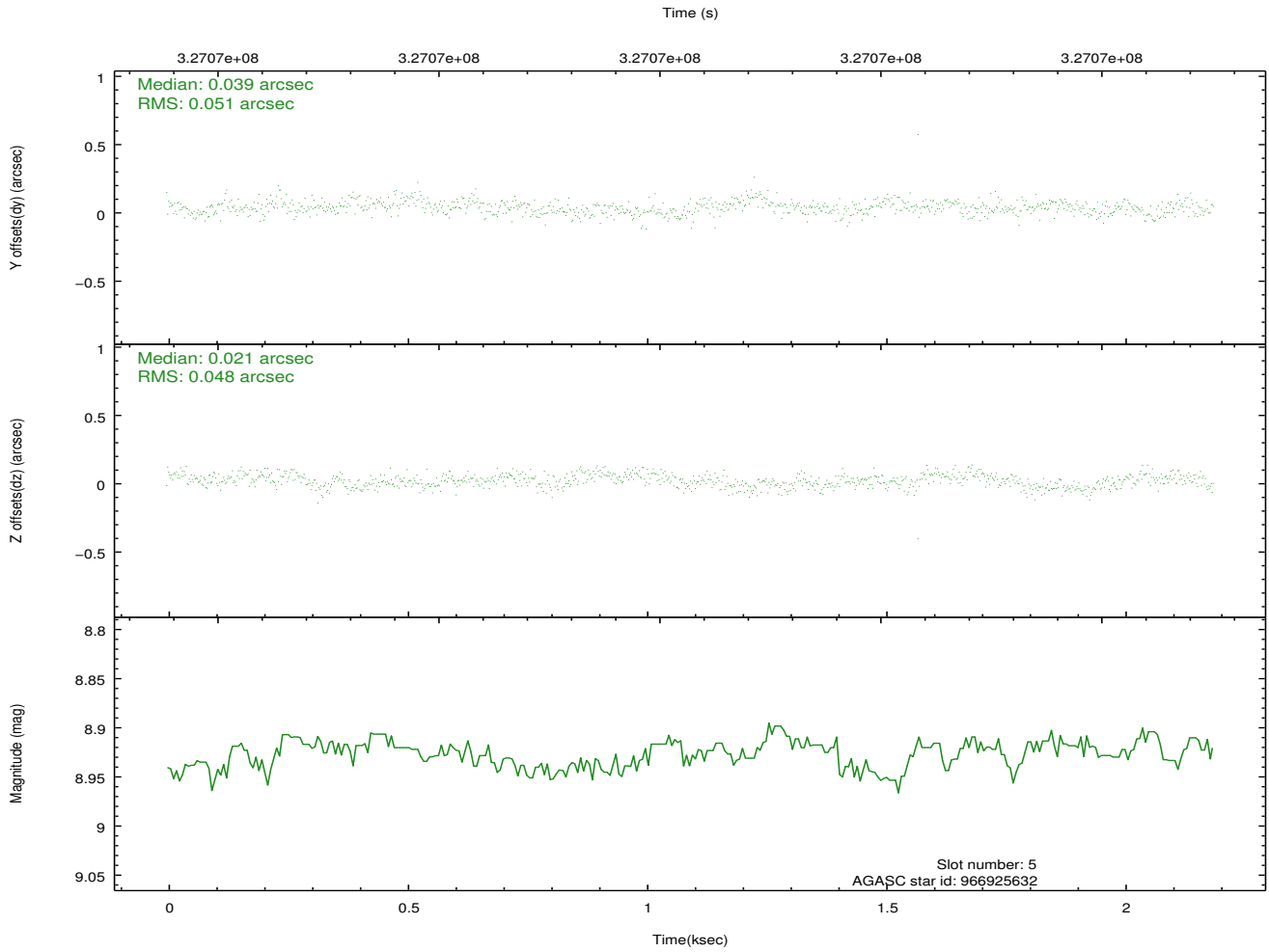
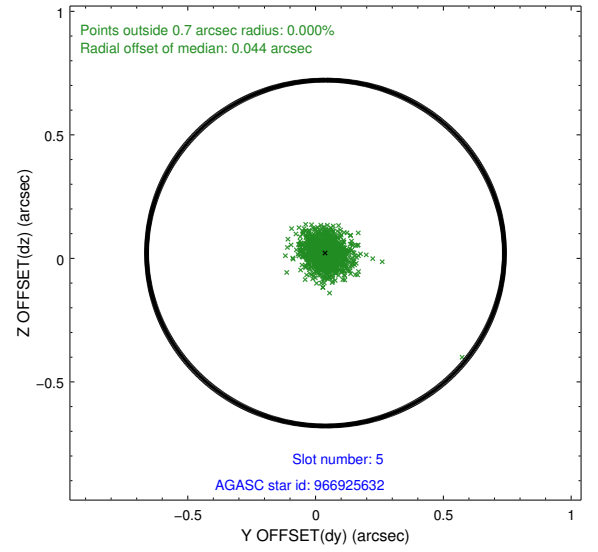
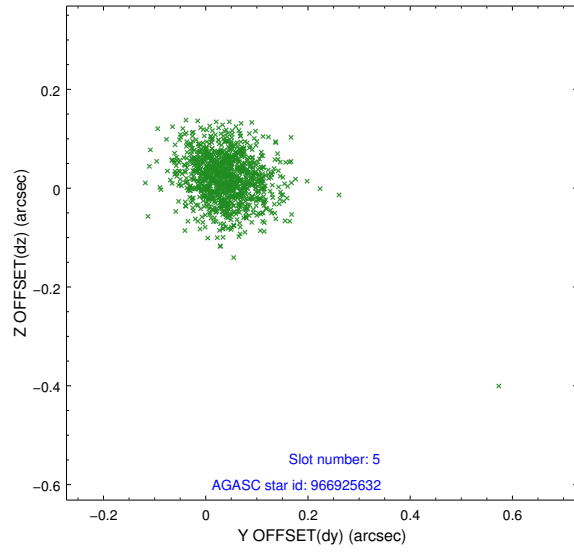
### 2.4.1 Slot 3



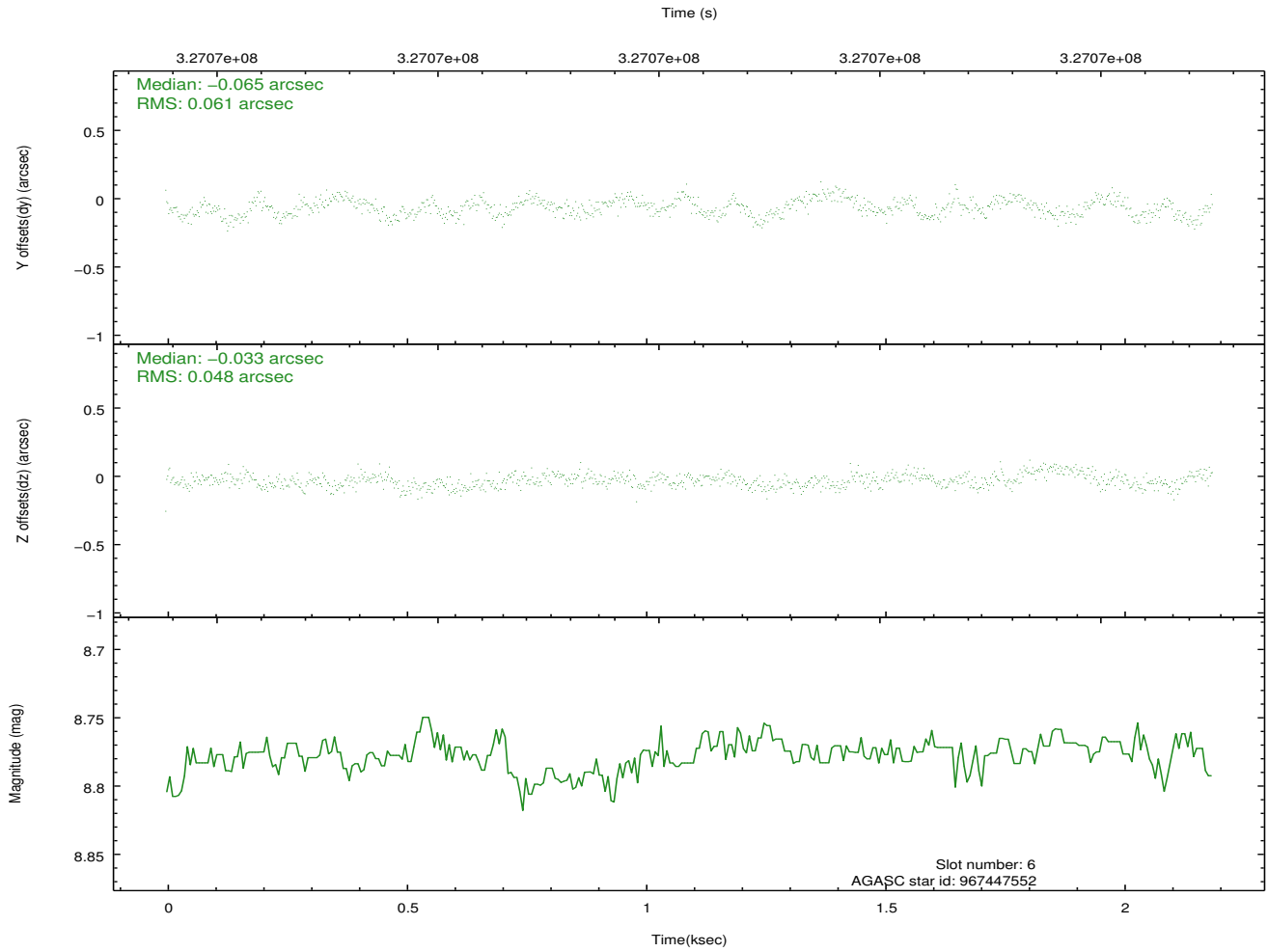
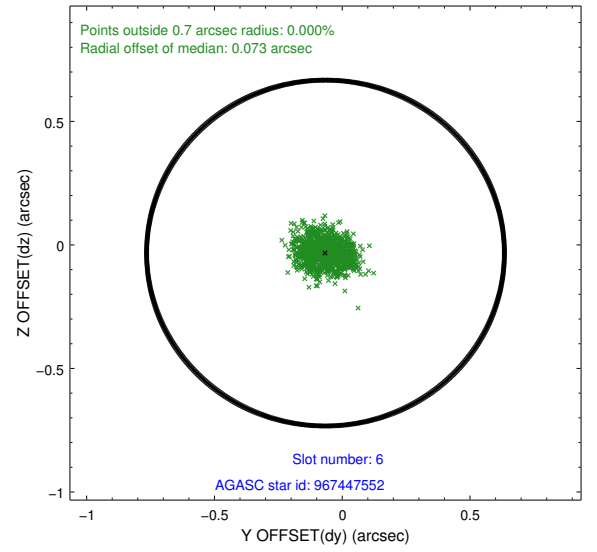
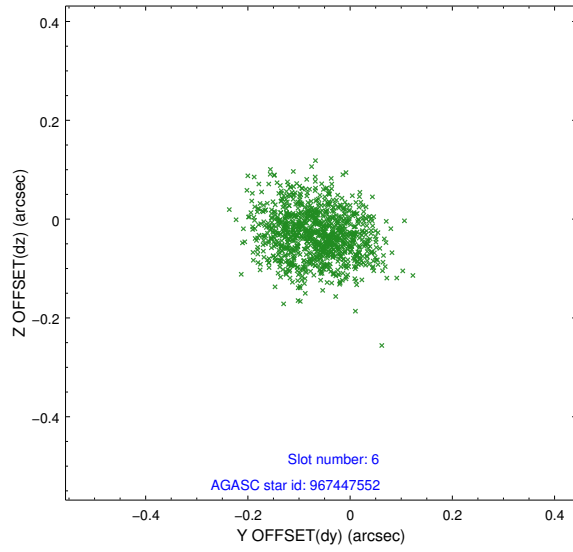
## 2.4.2 Slot 4



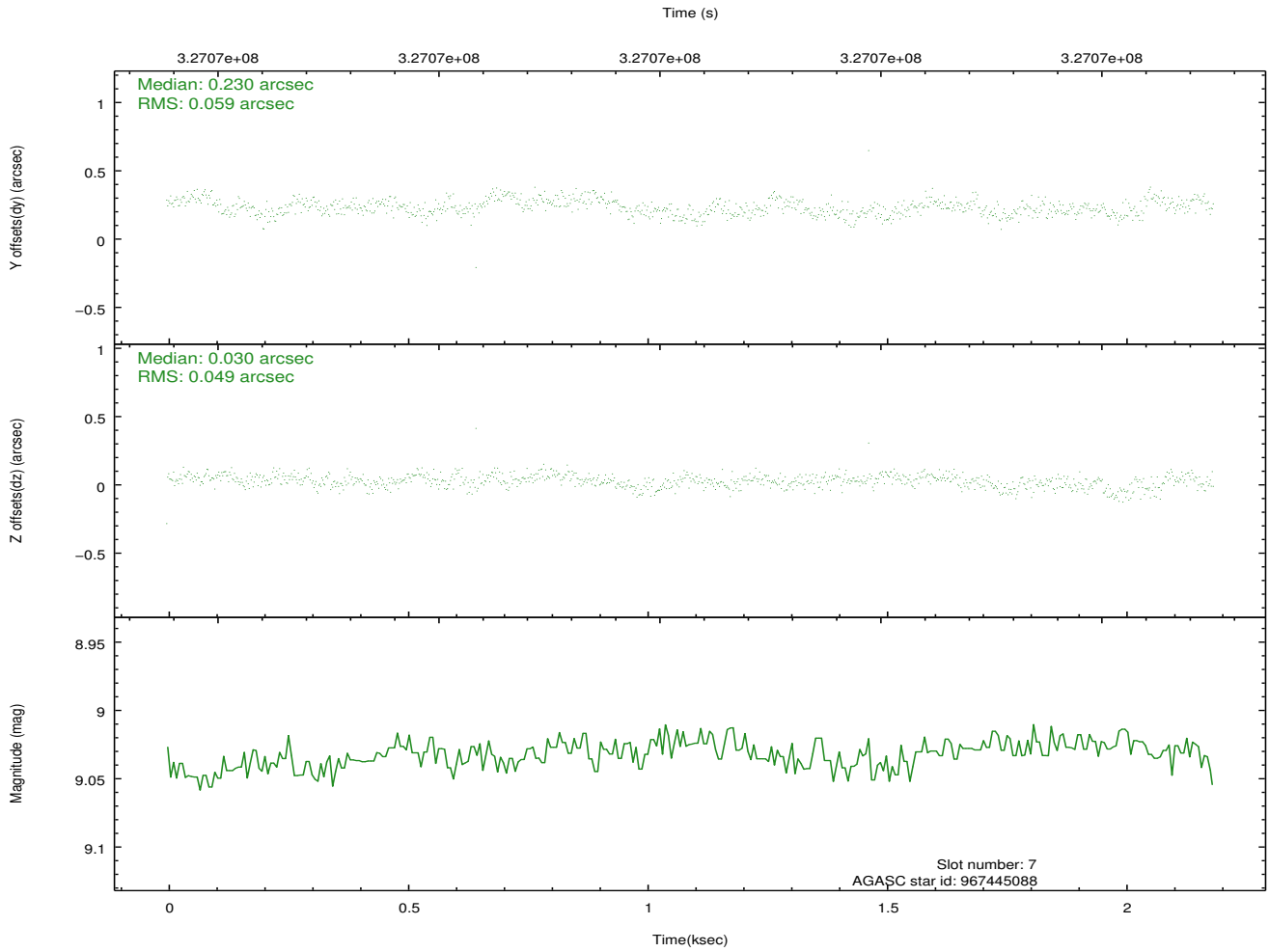
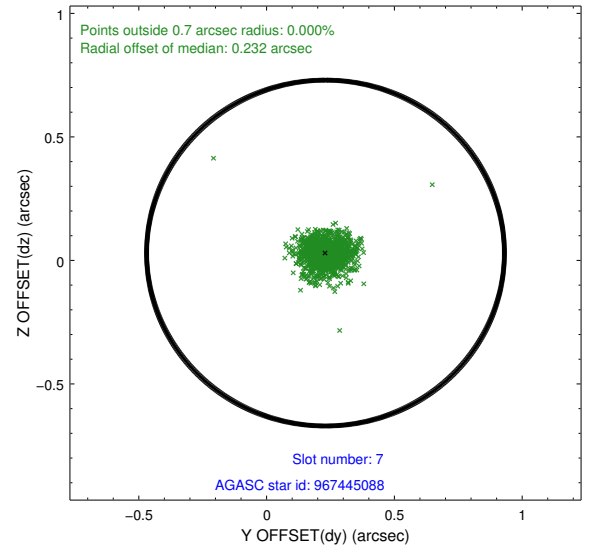
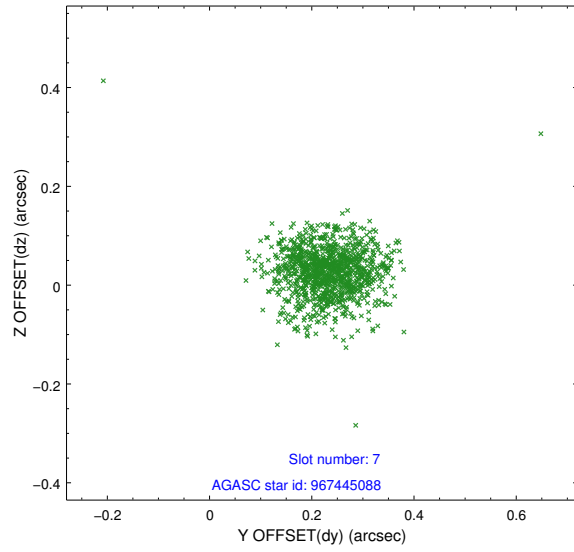
### 2.4.3 Slot 5



## 2.4.4 Slot 6

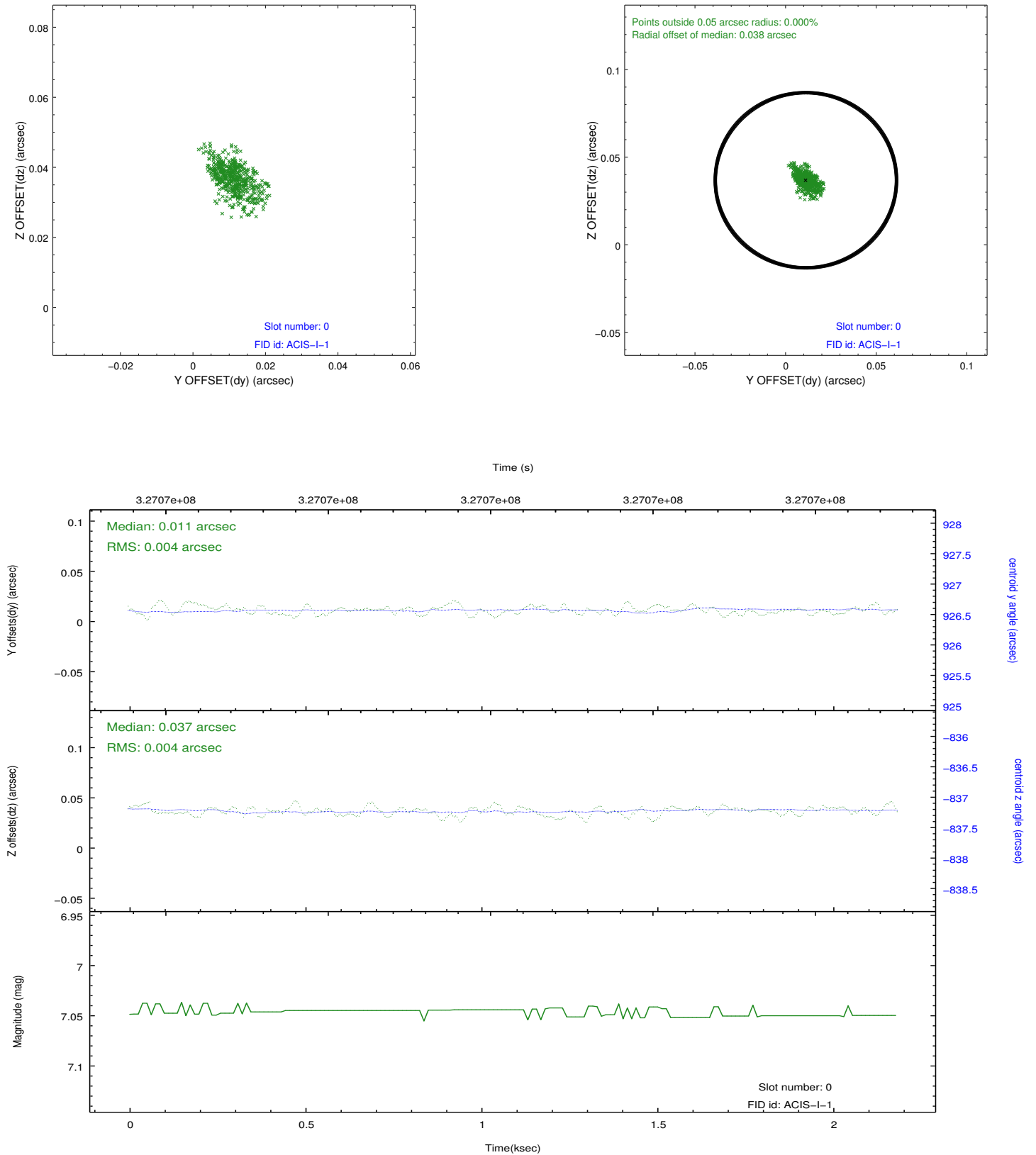


## 2.4.5 Slot 7

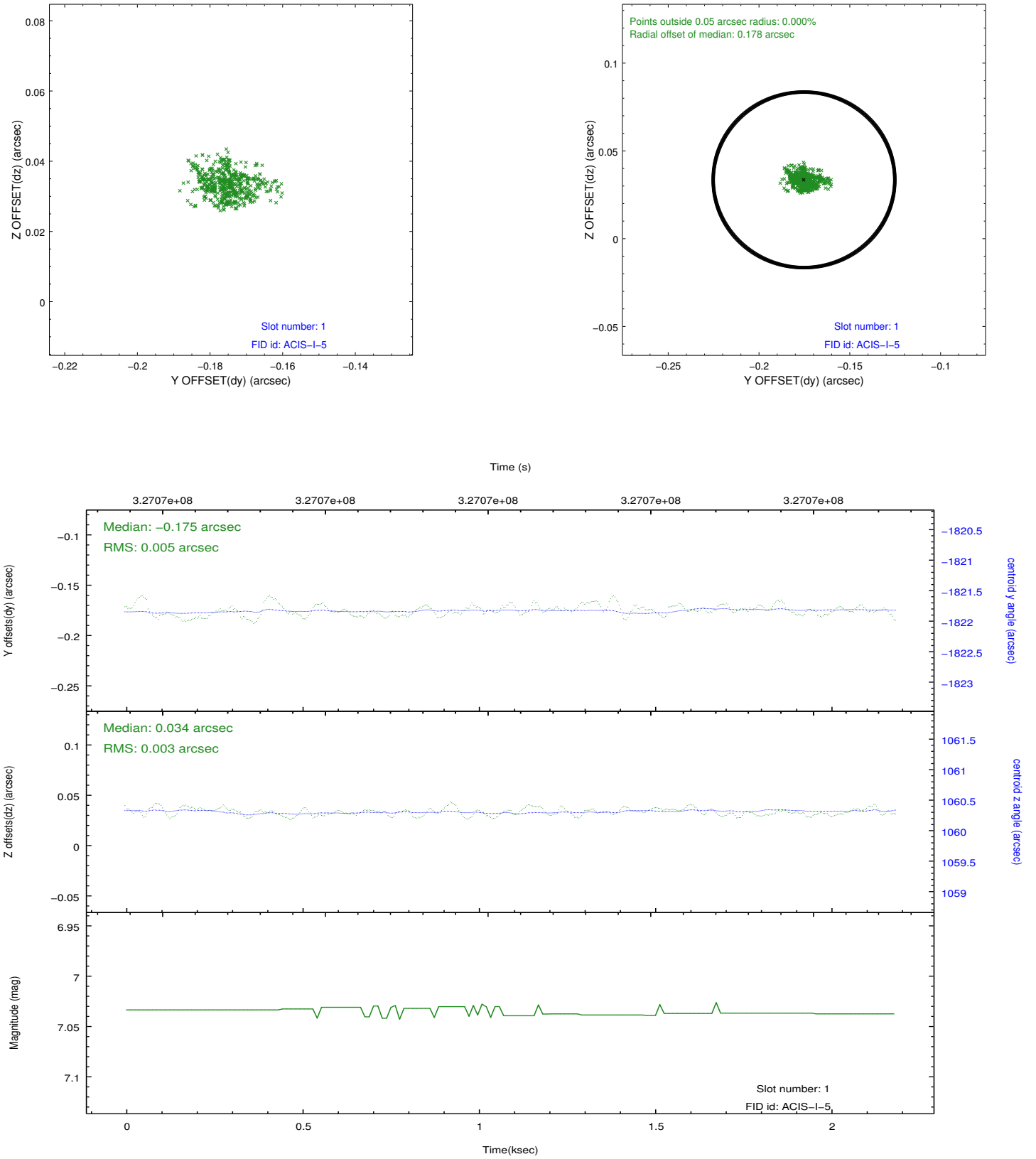


## 2.5 FID Slots

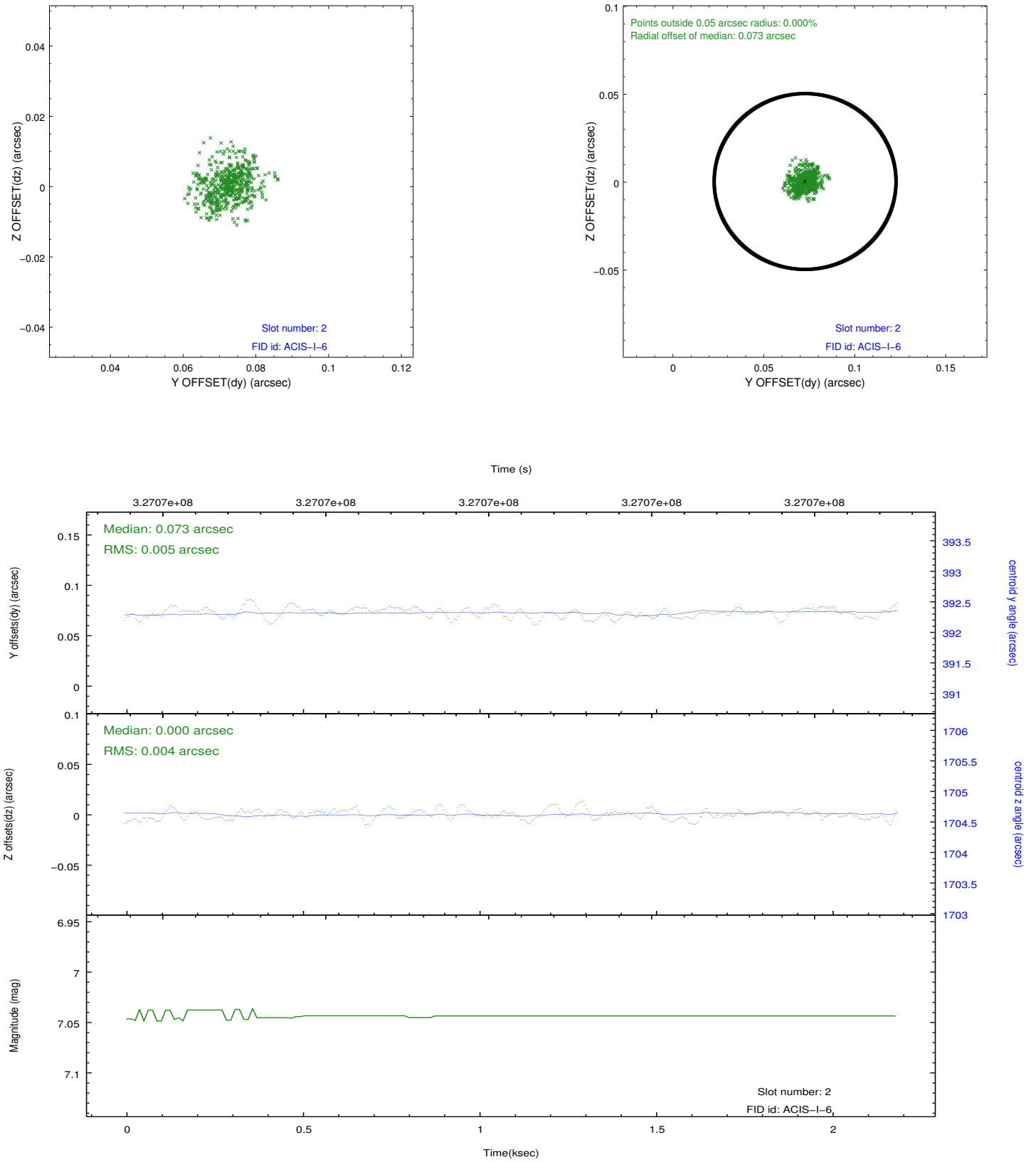
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.05.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.17921805

### A.2 Comments

Joint Proposal: NOAO