

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11622 - L2 Version 2  
Chandra X-Ray Center

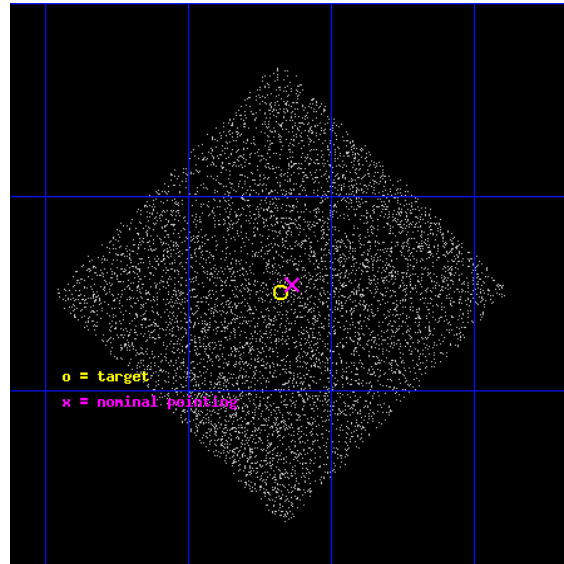
L2 Processing Date : Jun 19 2012

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# 1 Front

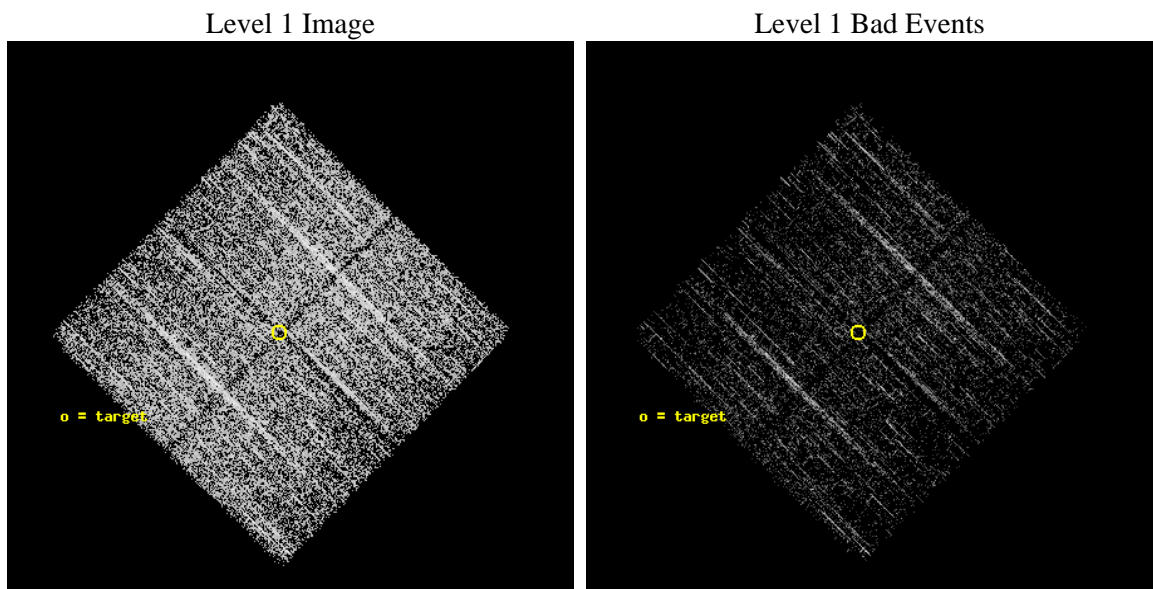
seq_num	702208	Sequence number
obs_id	11622	Observation id
title	AGN ignition in the galaxy group environment	Proposal title
observer	Dr. John Silverman	Principal investigator
object	2PIGG_m1702	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.669583	Observer's specified target RA [deg]
dec_targ	-4.082472	Observer's specified target Dec [deg]
ra_nom	148.65971493708	Nominal RA [deg]
dec_nom	-4.0757885948345	Nominal Dec [deg]
roll_nom	44.47584599982	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2472.4932099581	Sum of GTIs [s]
livetime	2440.188265947	Livetime [s]
ontime0	2472.4521699548	Sum of GTIs [s]
ontime1	2472.4932099581	Sum of GTIs [s]
ontime2	2469.3932695389	Sum of GTIs [s]
ontime3	2469.4342996478	Sum of GTIs [s]
l2events	7209	Number of level 2 events



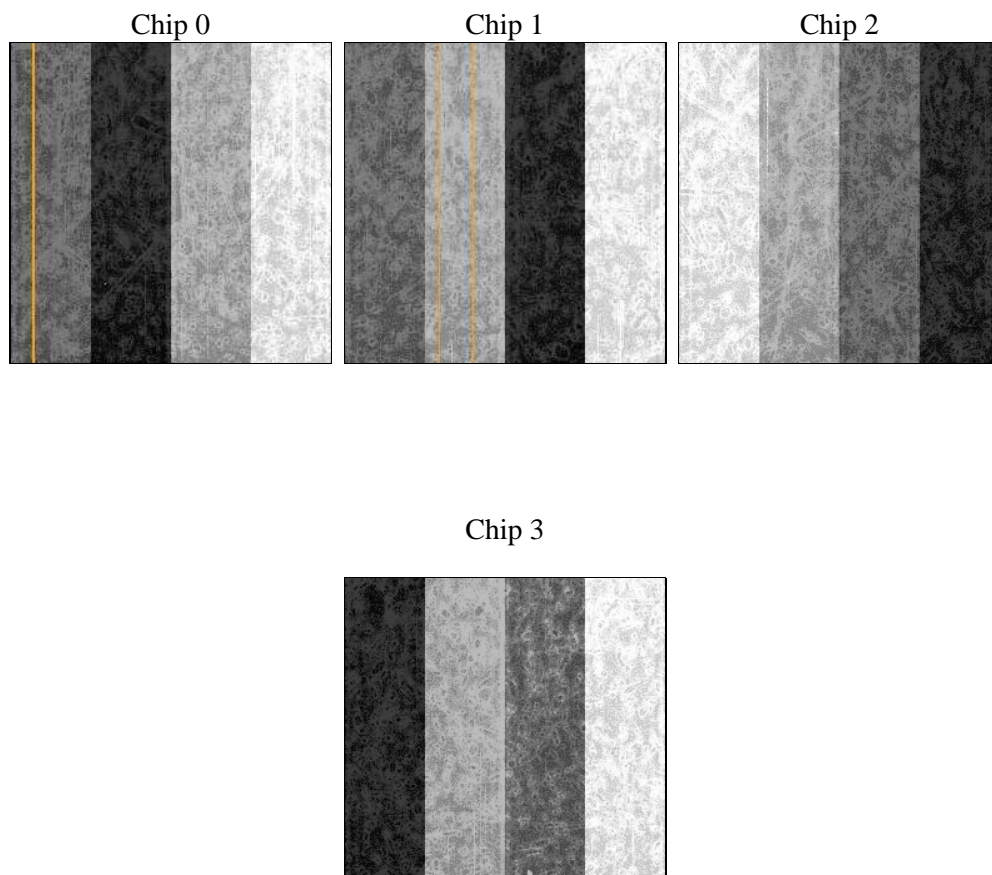
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2680.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2472.4932099581	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime0	2472.4521699548	Sum of GTIs [s]
date	2012-06-19T22:47:02	Date and time of file creation	ontime1	2472.4932099581	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2469.3932695389	Sum of GTIs [s]
			ontime3	2469.4342996478	Sum of GTIs [s]
			l1events	82013	Number of level 1 events

### 2.1.4 Events

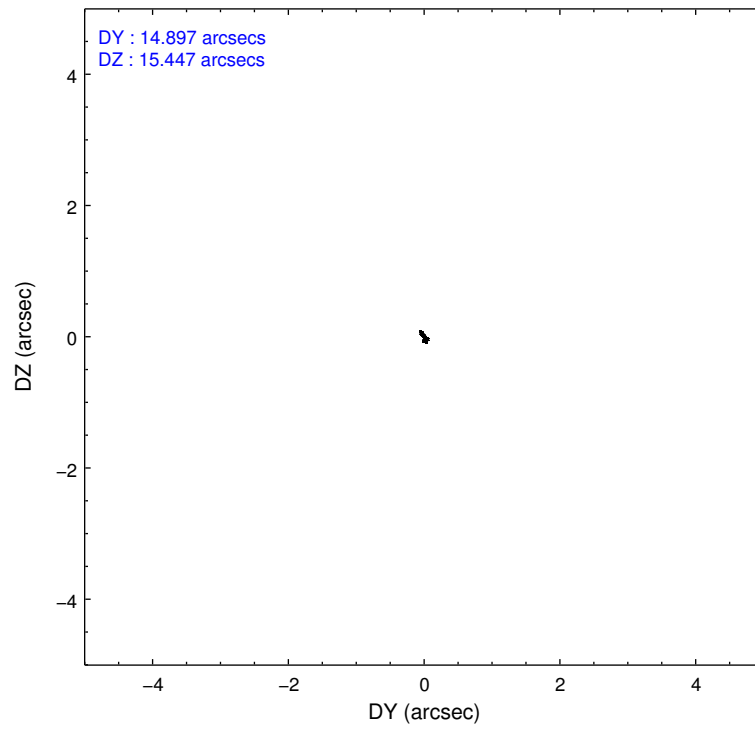
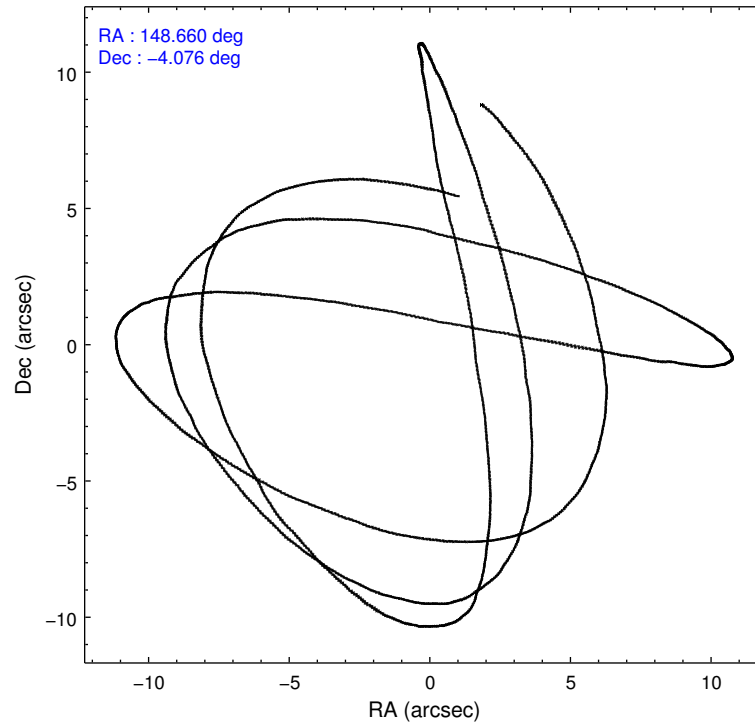
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	20034	19233	21490	21256
rejected events	17842	16759	19392	19261
rejected %	89%	87%	90%	90%

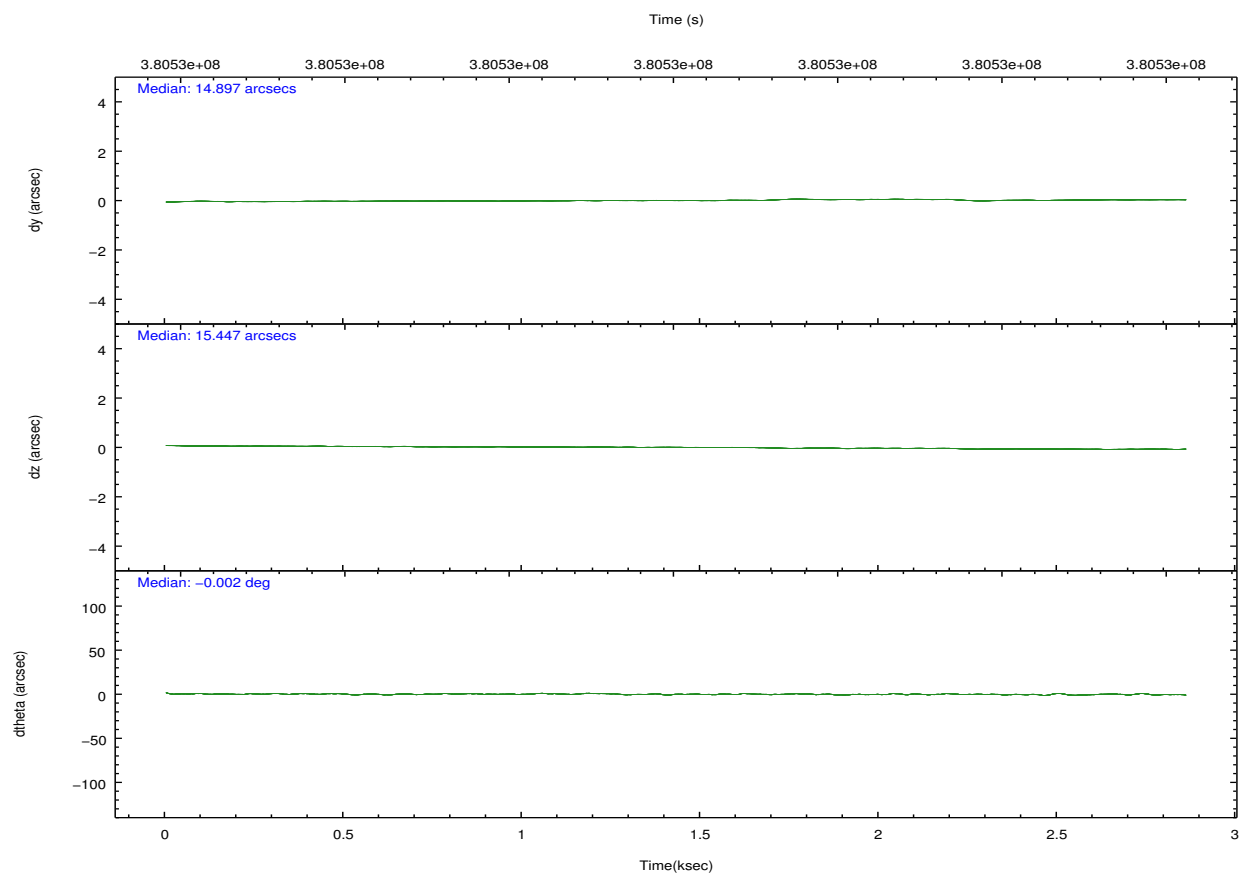
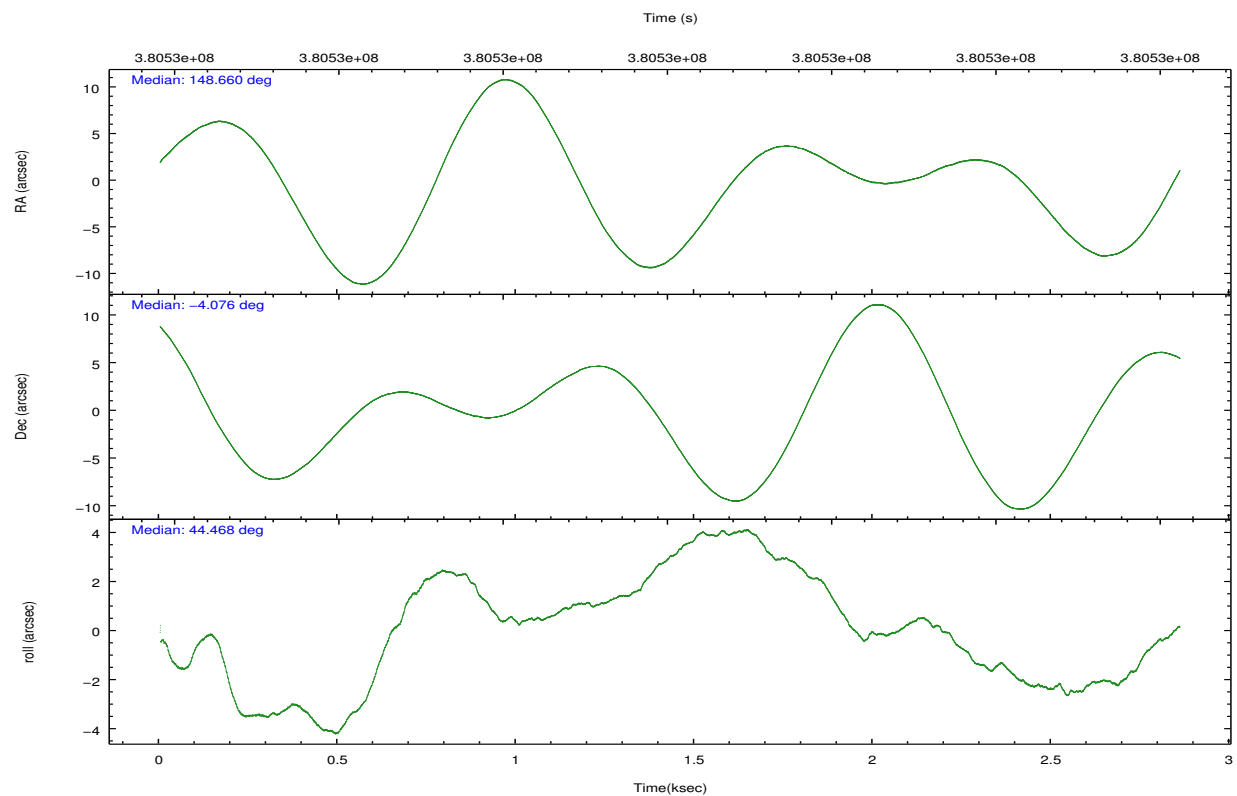
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	719	884	767	705
	3%	4%	3%	3%
grade 1 events	14	11	8	14
	0%	0%	0%	0%
grade 2 events	535	561	482	453
	2%	2%	2%	2%
grade 3 events	251	278	210	230
	1%	1%	0%	1%
grade 4 events	255	248	244	217
	1%	1%	1%	1%
grade 5 events	831	842	732	872
	4%	4%	3%	4%
grade 6 events	436	508	400	399
	2%	2%	1%	1%
grade 7 events	16993	15901	18647	18366
	84%	82%	86%	86%

## 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	148.652551	148.6597149370833	Subarray requested	NONE	NONE
[deg] Pointing Dec	-4.102289	-4.075788594834494	Alternating exposures requested	N	N
[deg] Pointing Roll	44.266640	44.47584599982024	[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)	380531768.184000	380531392.55478			
Observation start date	2010-01-22T07:15:02	2010-01-22T07:09:52			
[s] Observation end time (MET)	380534448.184000	380534582.35495			
Observation end date	2010-01-22T07:59:42	2010-01-22T08:03:02			
Read mode	TIMED	TIMED			

## 2.3 Aspect





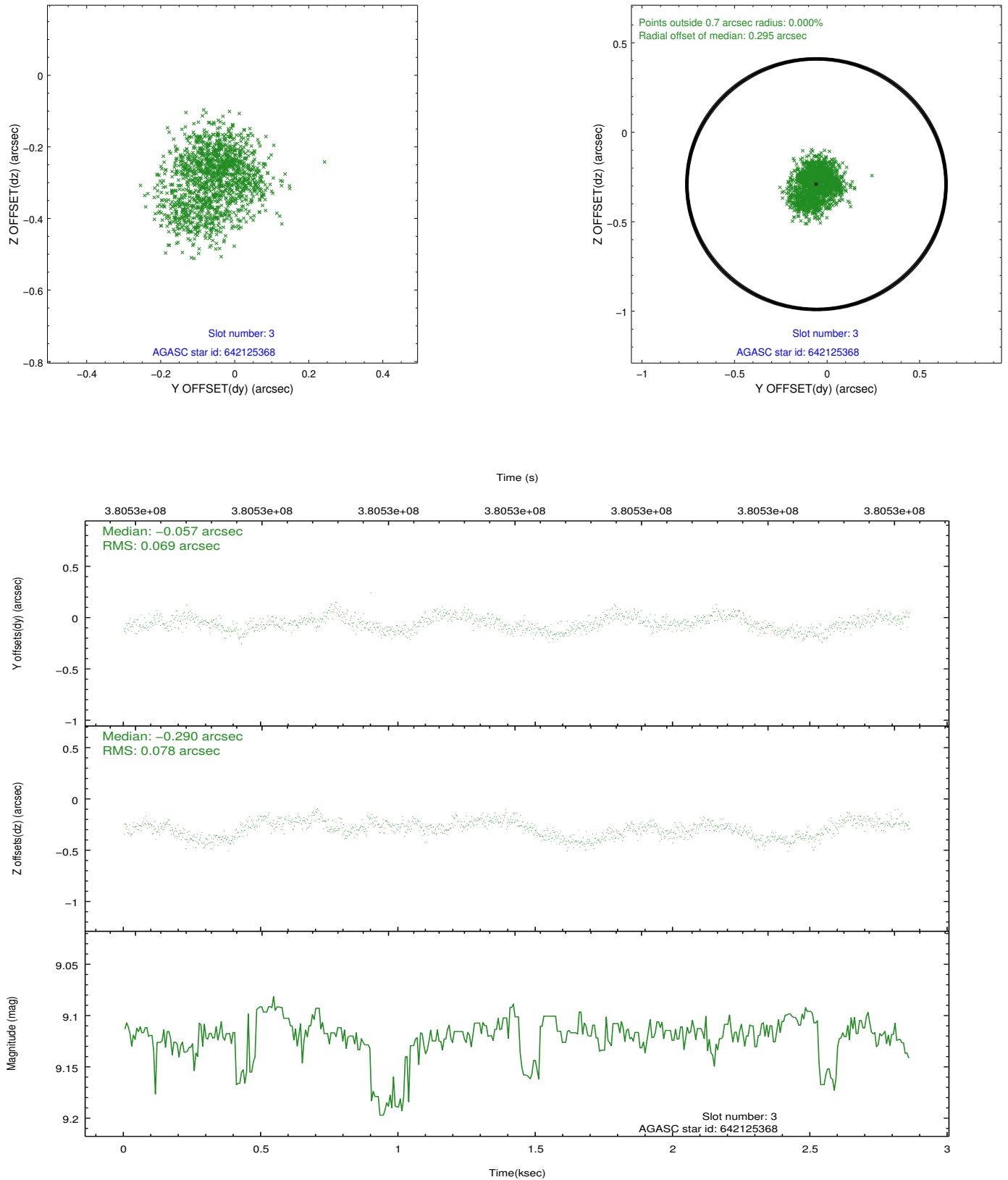
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.03	698	0.038	-0.016	0.007	0.011	0.000000	0.000000	924.60	-839.06
1	FID	ACIS-I-5	7.03	698	-0.210	0.041	0.005	0.010	0.000000	0.000000	-1822.52	1057.35
2	FID	ACIS-I-6	7.03	698	0.081	0.046	0.006	0.010	0.000000	0.000000	387.74	1704.41
3	GUIDE	642125368	9.12	1390	-0.057	-0.290	0.115	0.170	148.607933	-3.372962	1718.26	1991.92
4	GUIDE	642129264	8.82	1395	0.012	0.086	0.129	0.193	149.024669	-3.808427	1697.03	-173.53
5	GUIDE	642129392	8.69	1396	-0.009	0.052	0.107	0.156	149.116448	-3.838560	1857.40	-484.16
6	GUIDE	642130912	7.96	1396	0.105	0.019	0.102	0.153	148.633475	-4.436114	-885.58	-813.45
7	GUIDE	642132784	8.97	1394	-0.053	0.143	0.084	0.133	149.290749	-4.224375	1333.49	-1915.73

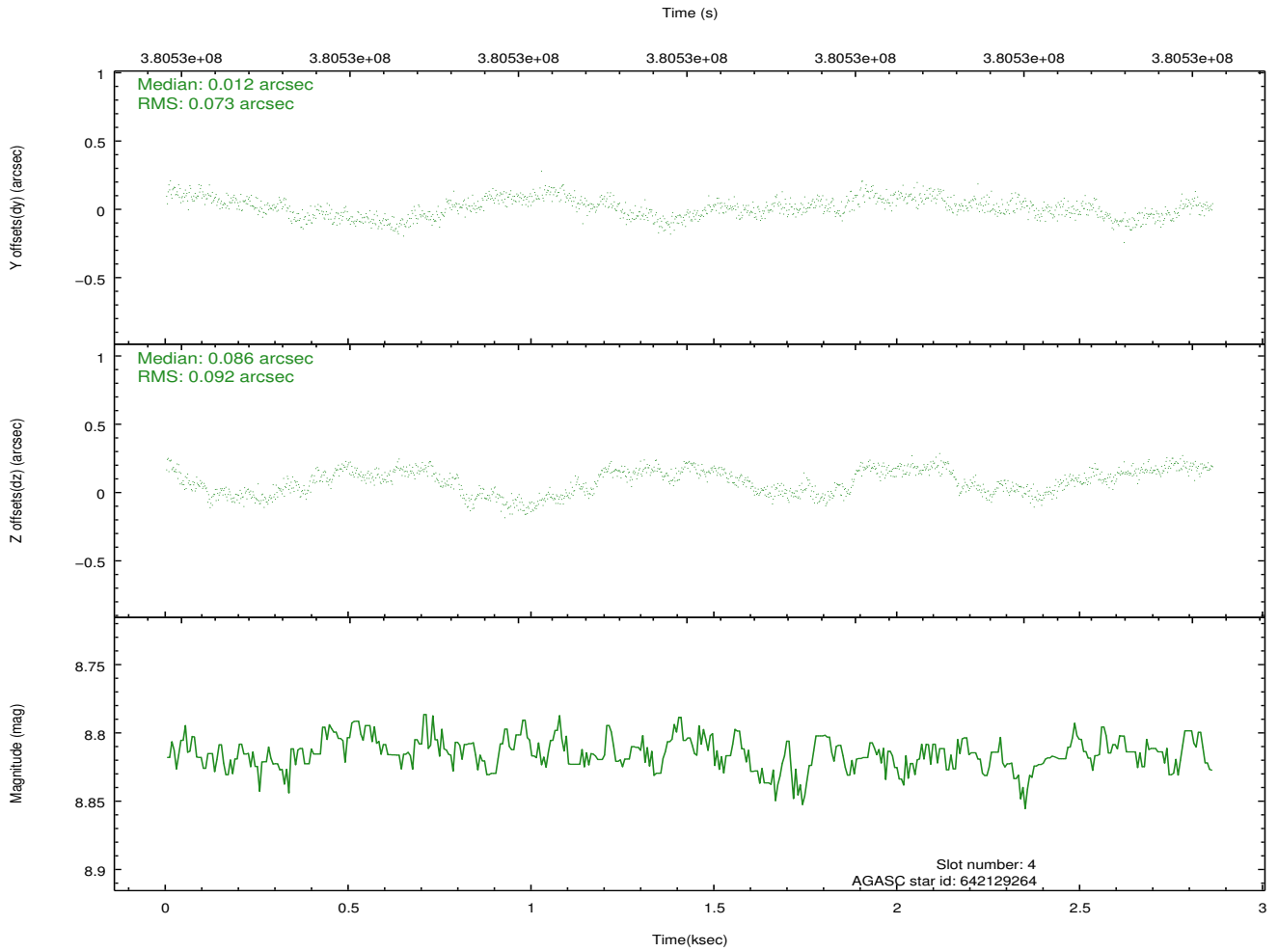
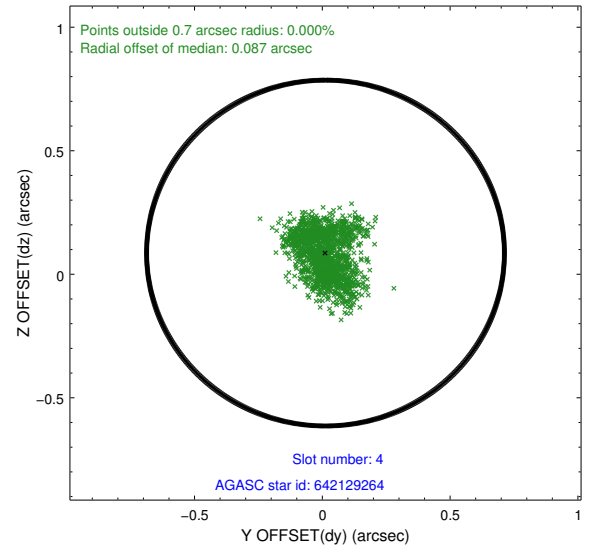
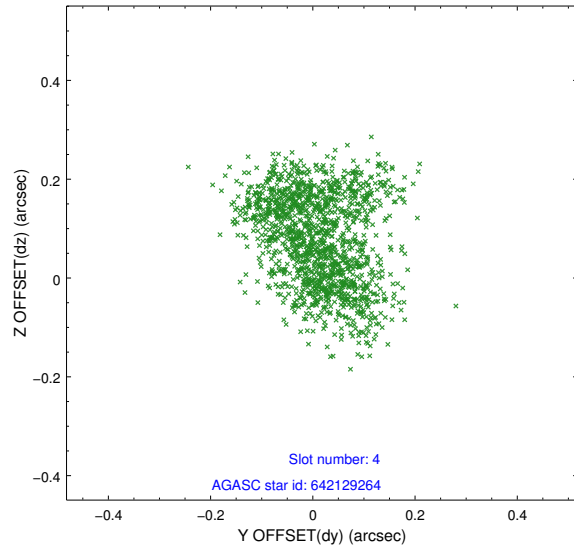


## 2.4 Star Slots

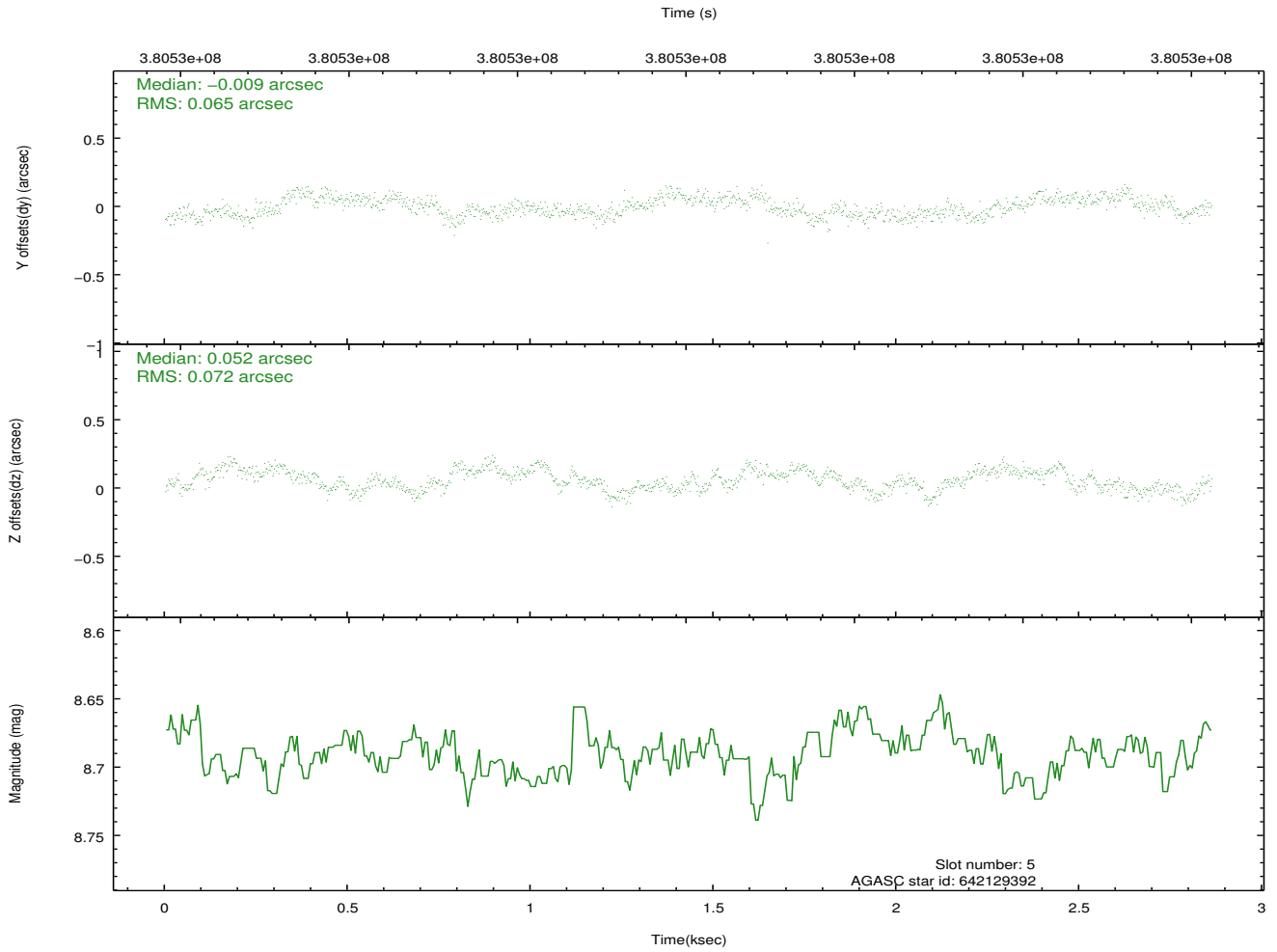
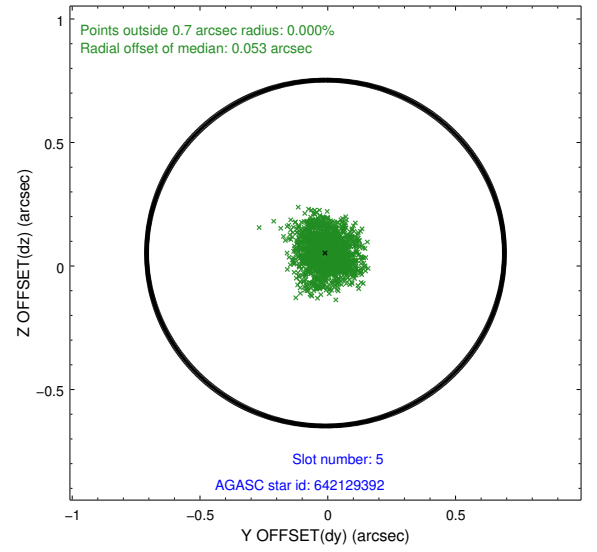
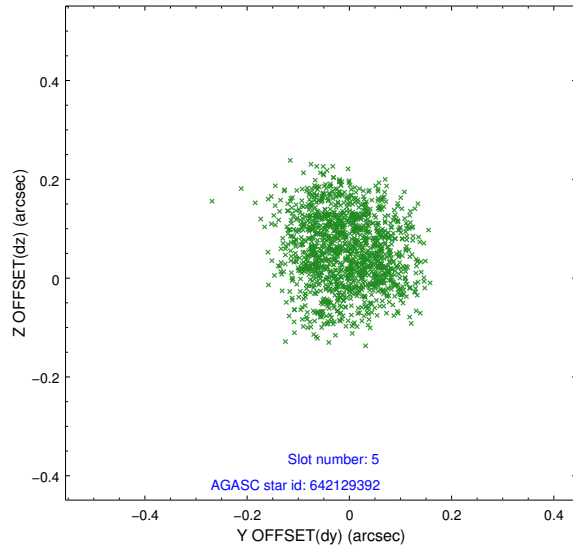
### 2.4.1 Slot 3



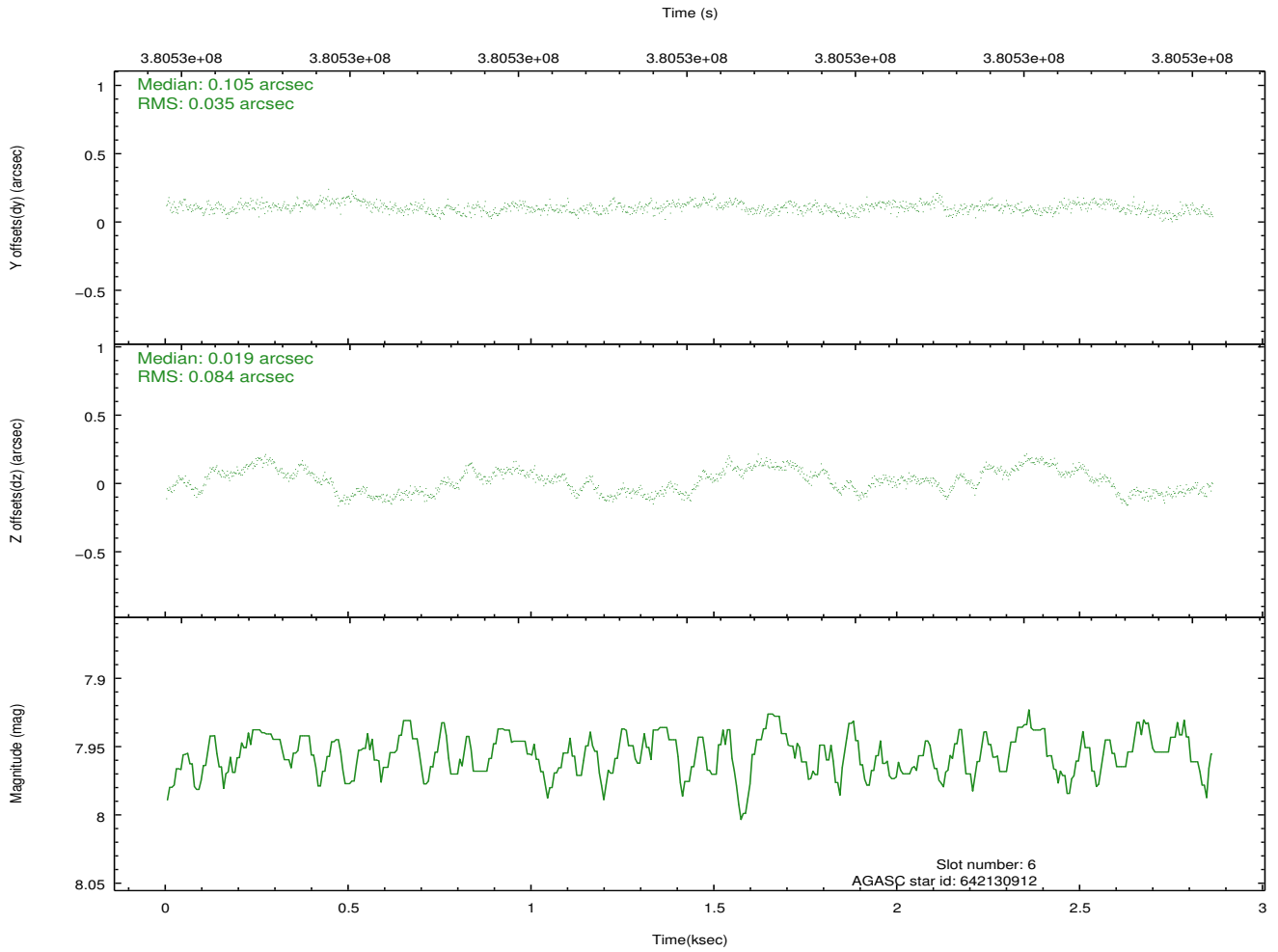
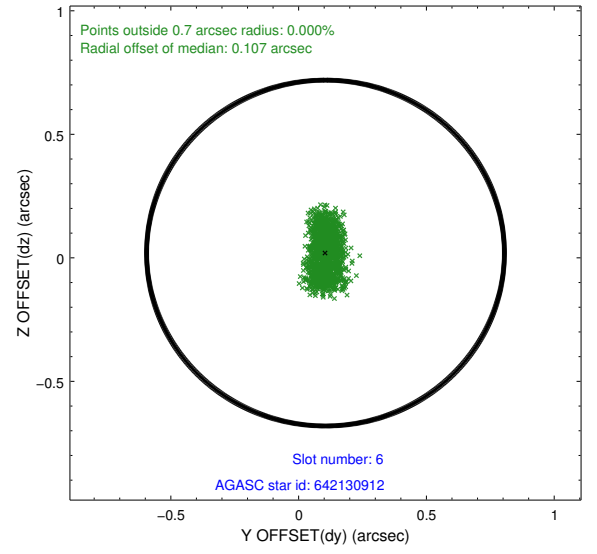
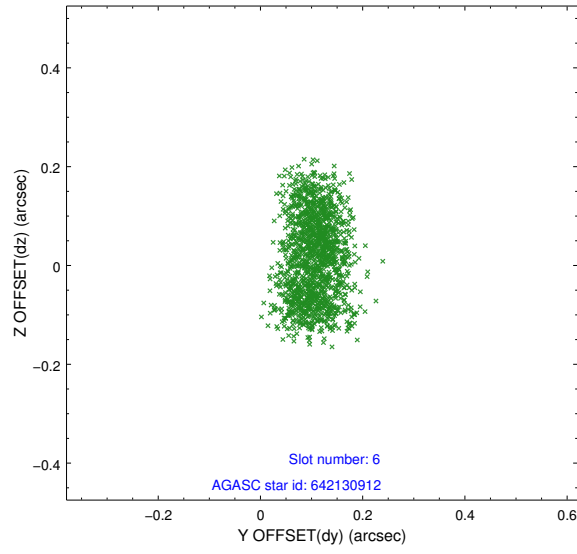
## 2.4.2 Slot 4



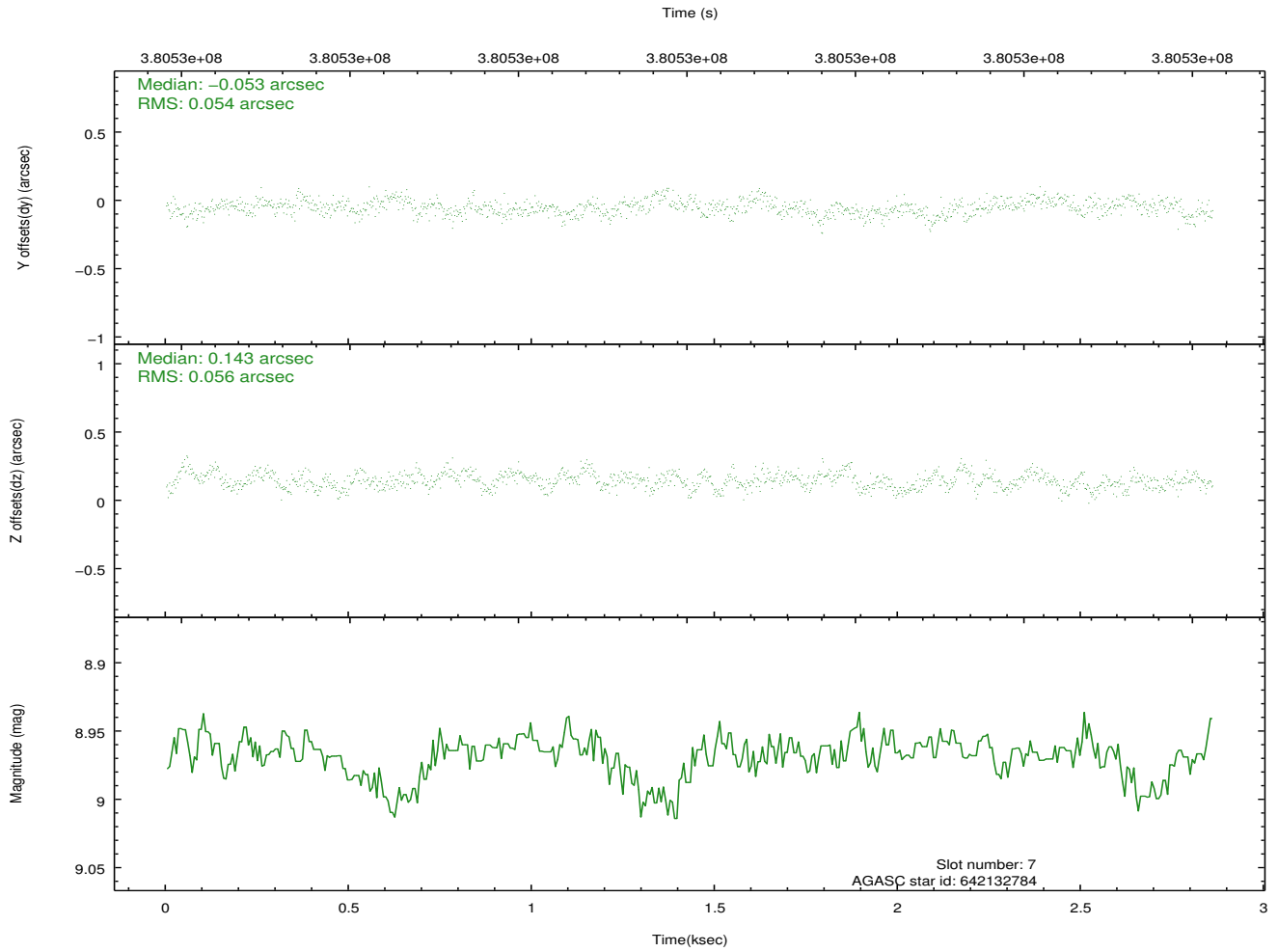
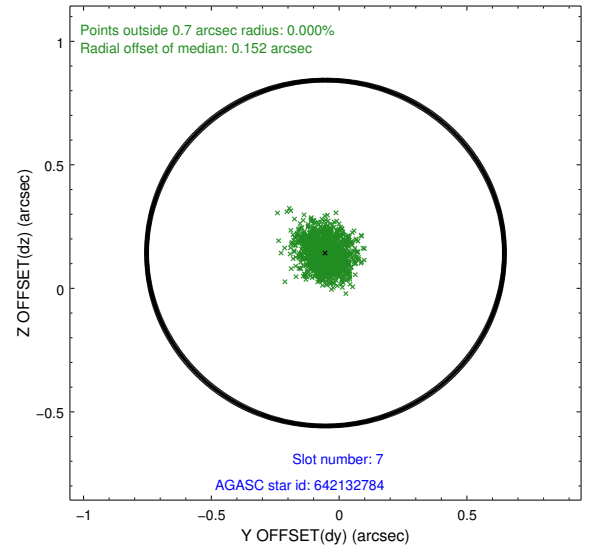
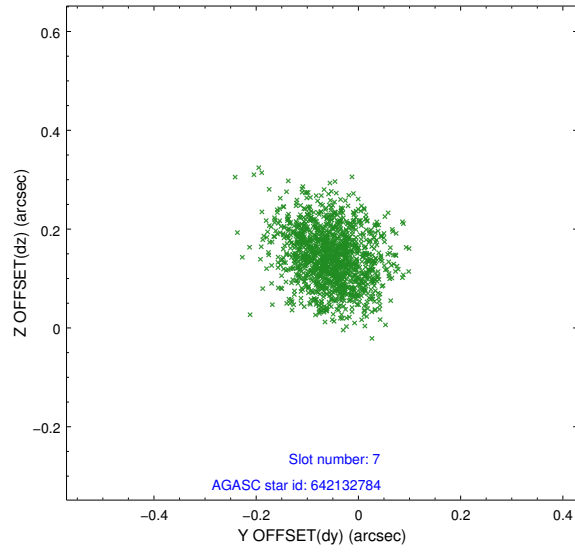
### 2.4.3 Slot 5



## 2.4.4 Slot 6

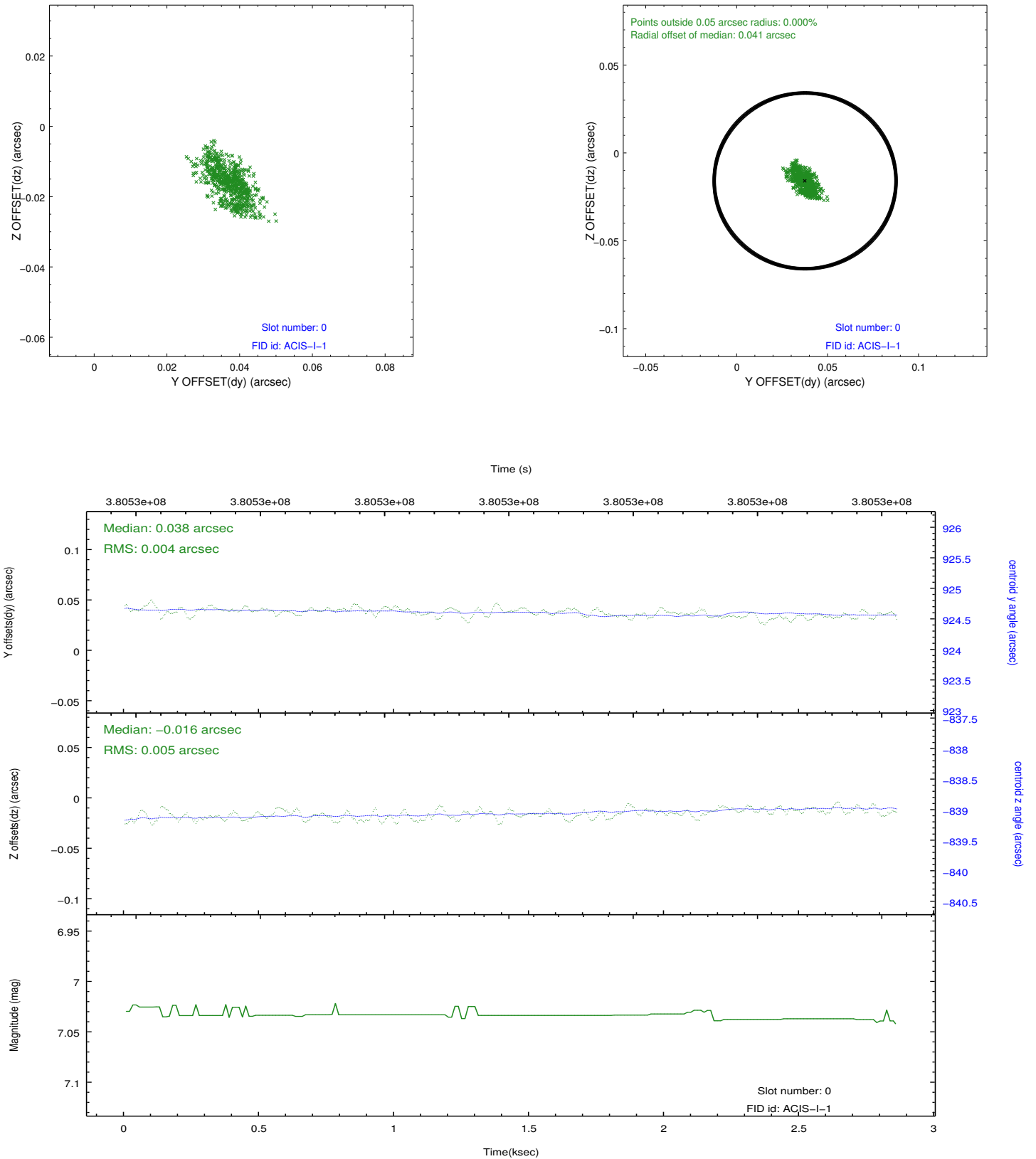


## 2.4.5 Slot 7

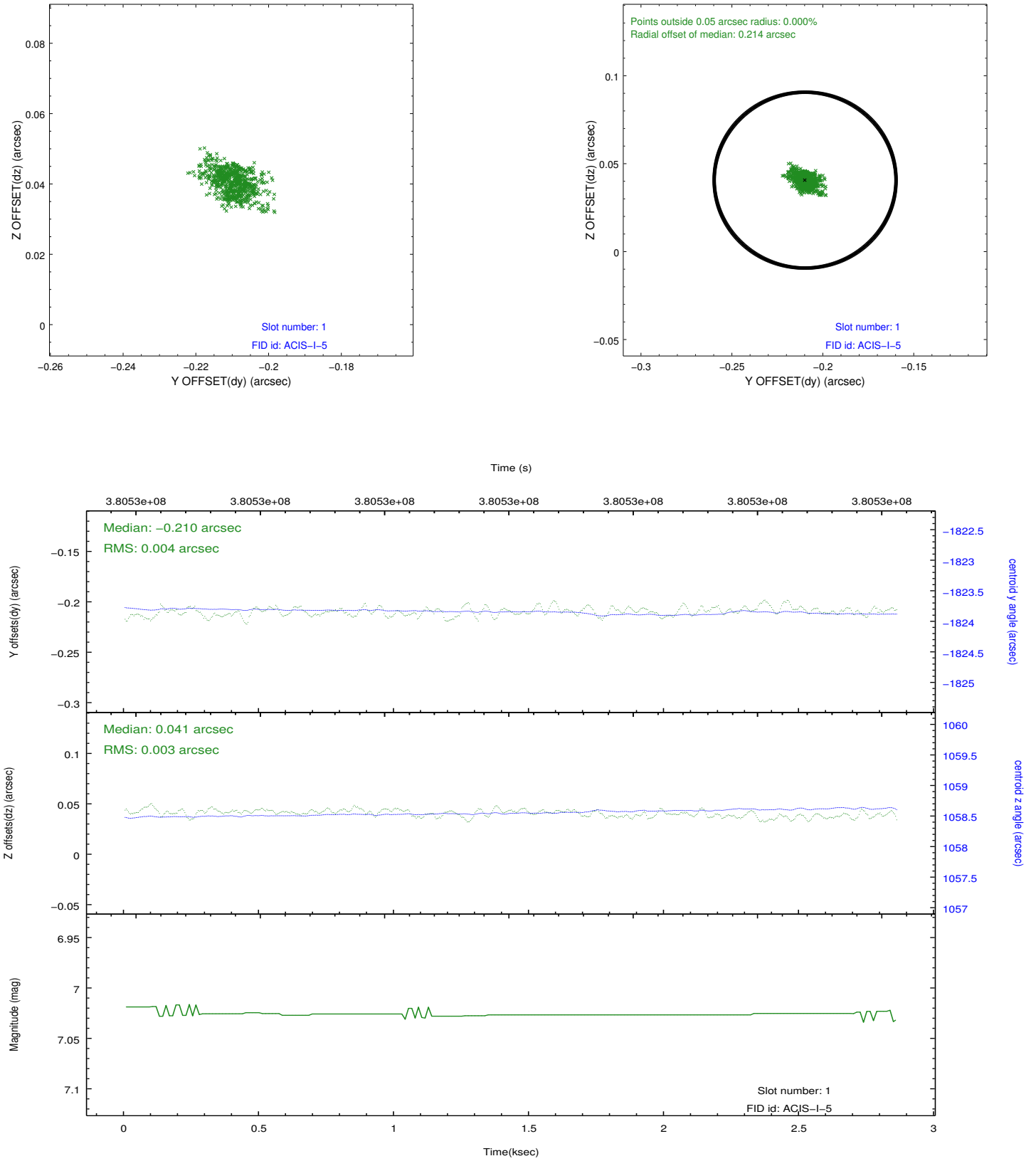


## 2.5 FID Slots

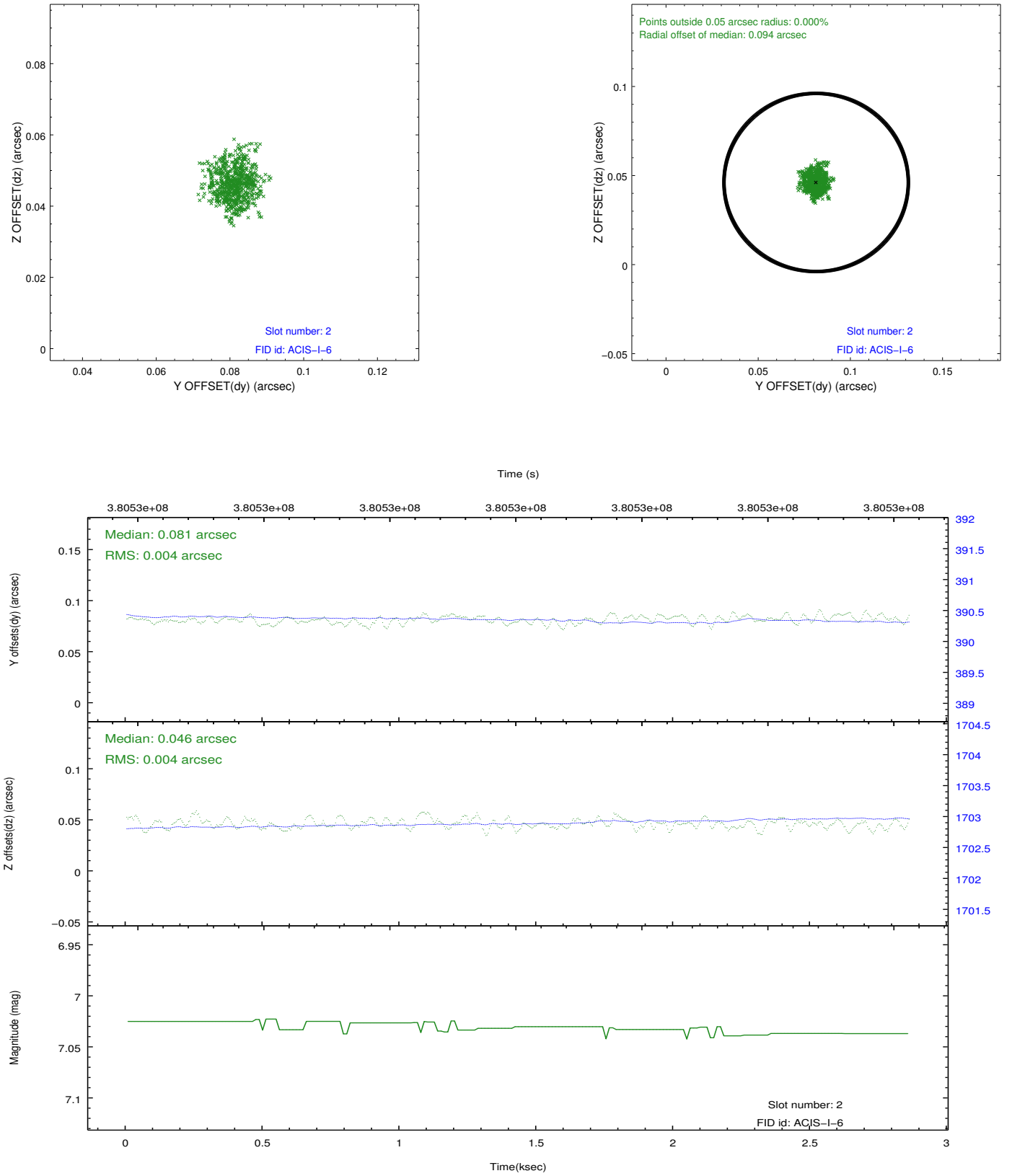
### 2.5.1 Slot 0



## 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)	2012.06.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.4724932094216

### A.2 Comments