

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11624 - L2 Version 2  
Chandra X-Ray Center

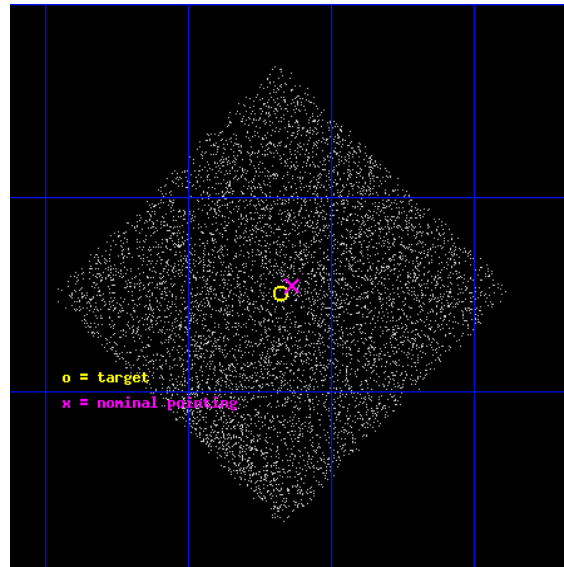
L2 Processing Date : Jun 19 2012

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# 1 Front

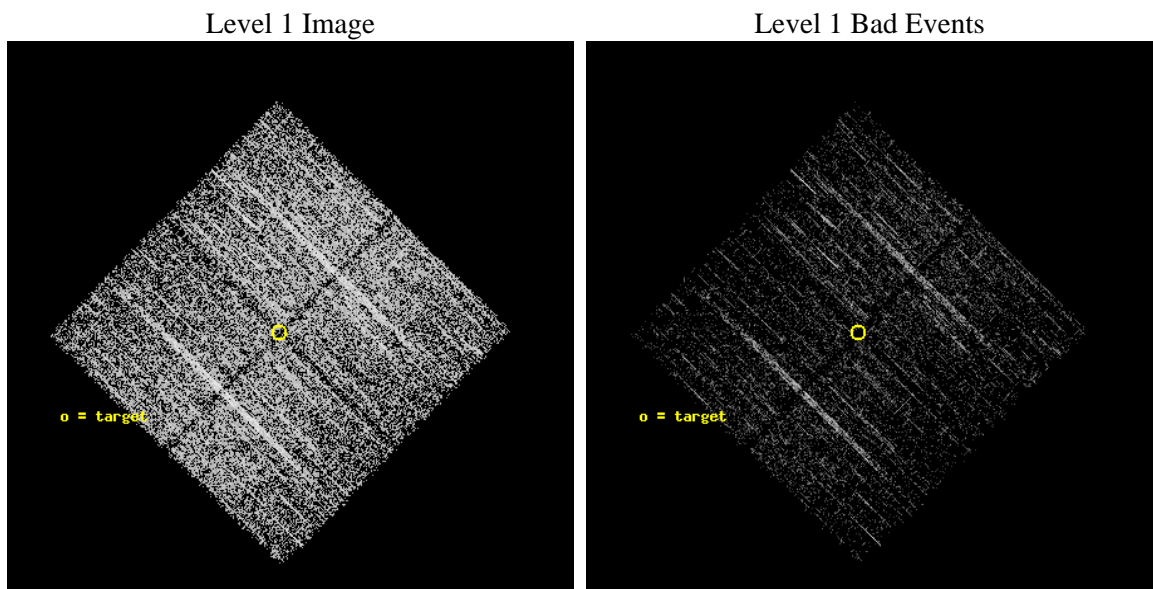
seq_num	702210	Sequence number
obs_id	11624	Observation id
title	AGN ignition in the galaxy group environment	Proposal title
observer	Dr. John Silverman	Principal investigator
object	2PIGG_m1702	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.669583	Observer's specified target RA [deg]
dec_targ	-4.082472	Observer's specified target Dec [deg]
ra_nom	148.65981627814	Nominal RA [deg]
dec_nom	-4.075680729096	Nominal Dec [deg]
roll_nom	44.407554019341	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2470.6590287089	Sum of GTIs [s]
livetime	2438.3780496261	Livetime [s]
ontime0	2473.8000190258	Sum of GTIs [s]
ontime1	2470.6590287089	Sum of GTIs [s]
ontime2	2473.8000190258	Sum of GTIs [s]
ontime3	2470.659008801	Sum of GTIs [s]
l2events	7371	Number of level 2 events



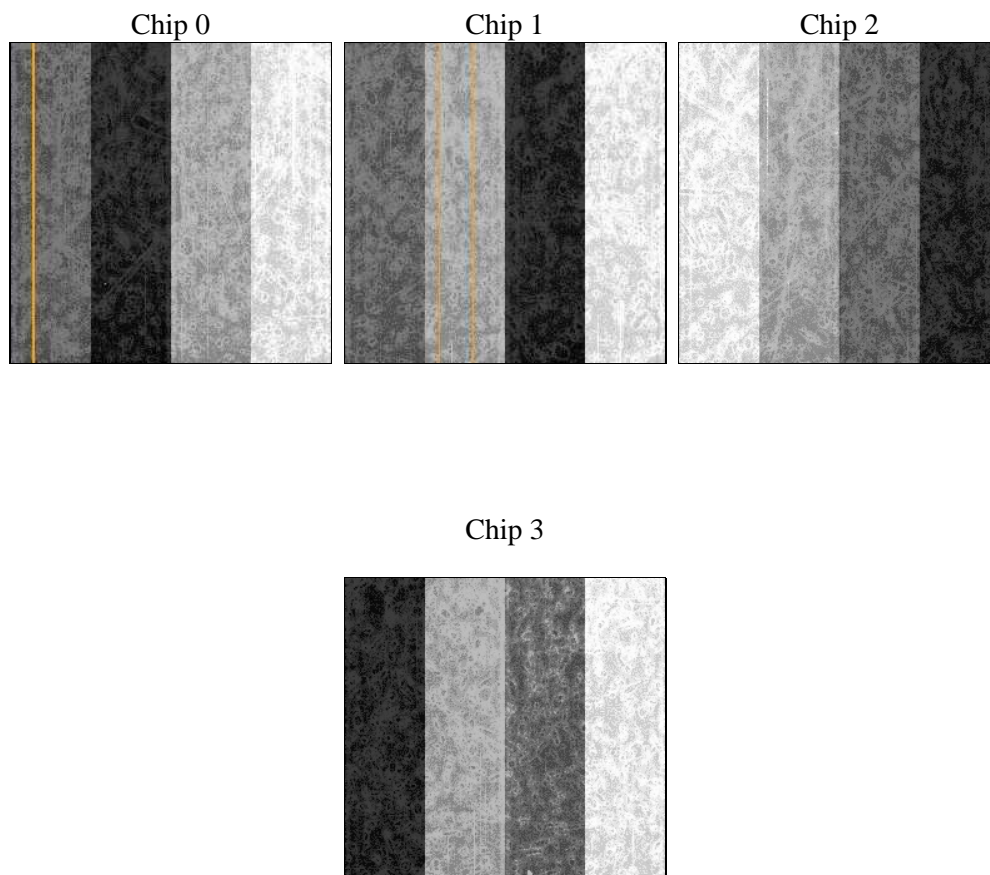
## 2 OBI

### 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	2470.6590287089	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime0	2473.8000190258	Sum of GTIs [s]
date	2012-06-19T22:59:34	Date and time of file creation	ontime1	2470.6590287089	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2473.8000190258	Sum of GTIs [s]
			ontime3	2470.659008801	Sum of GTIs [s]
			l1events	81144	Number of level 1 events

### 2.1.4 Events

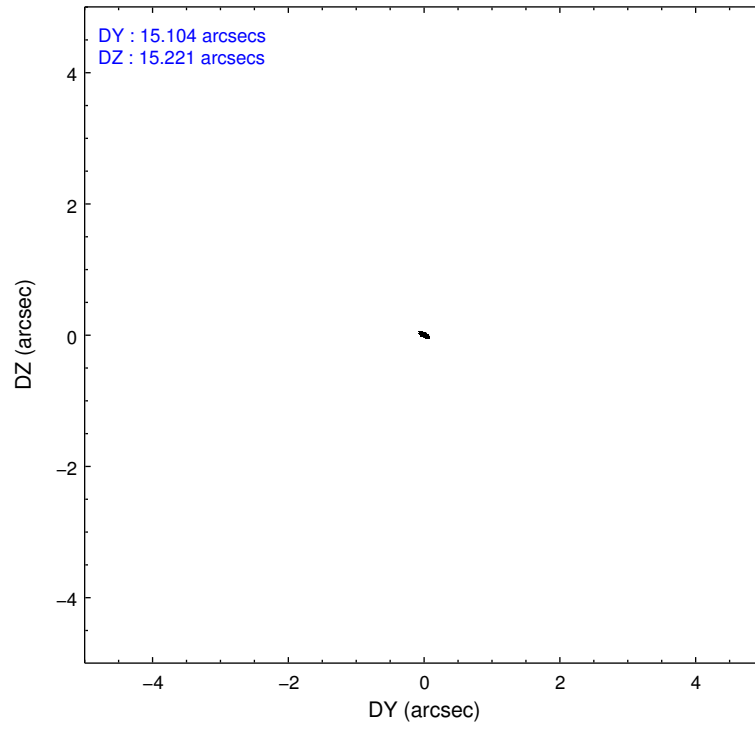
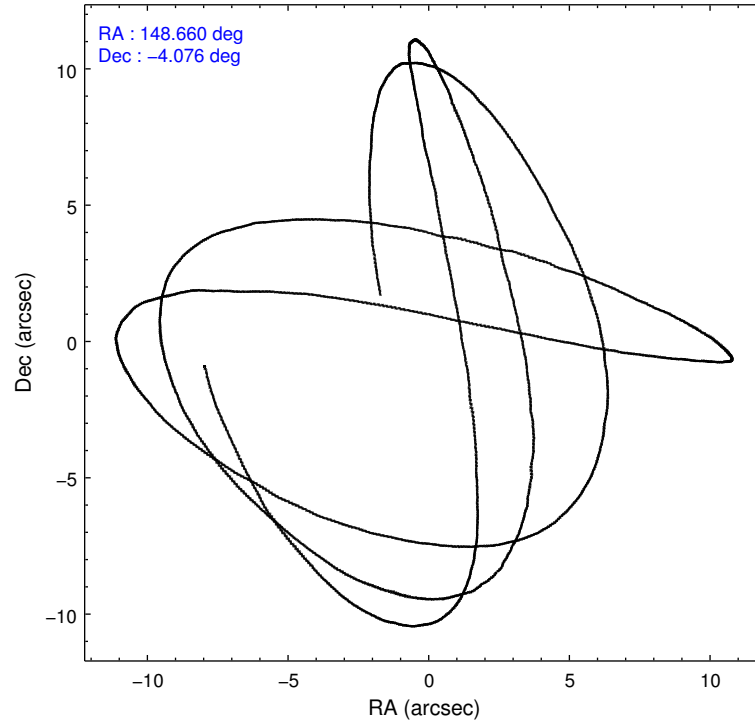
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	18288	19571	23218	20067
rejected events	16153	17106	20970	18005
rejected %	88%	87%	90%	89%

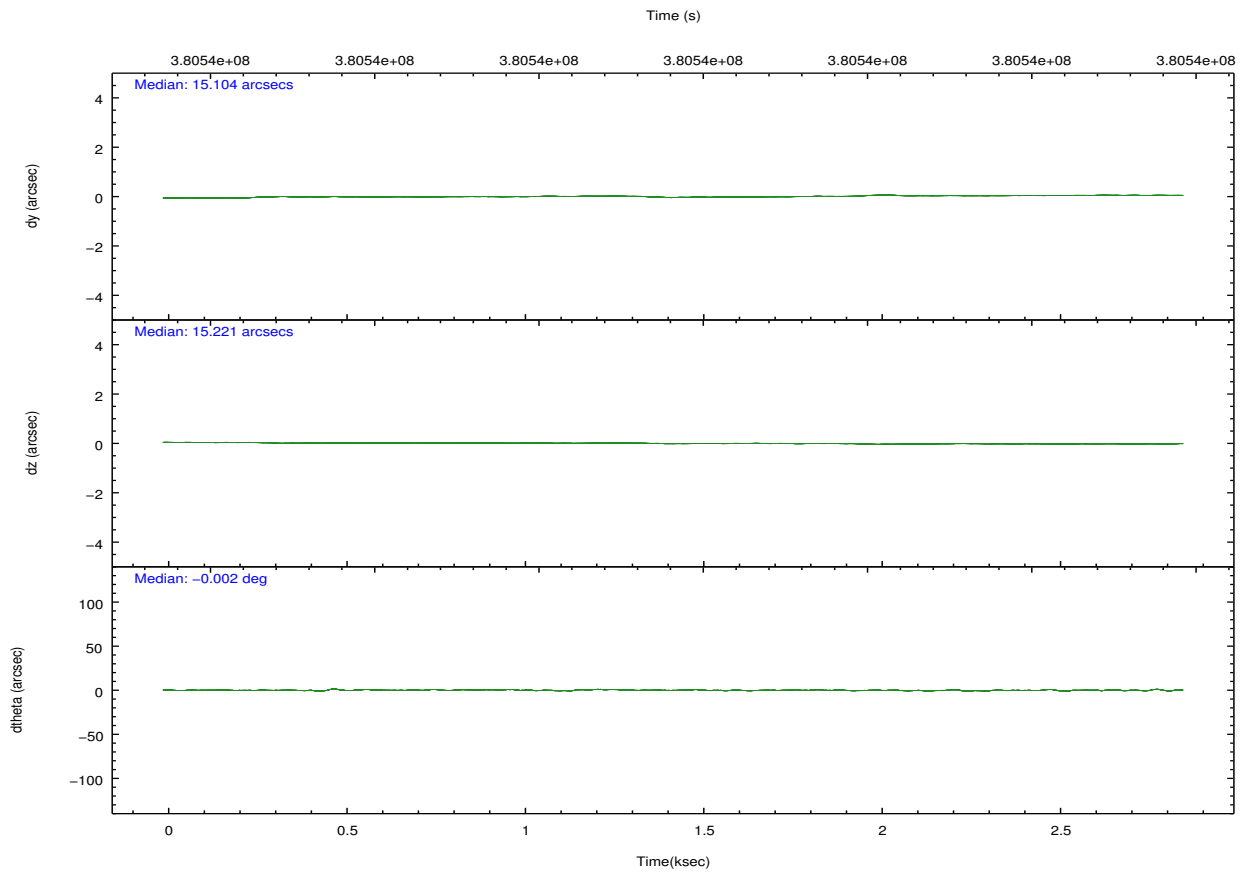
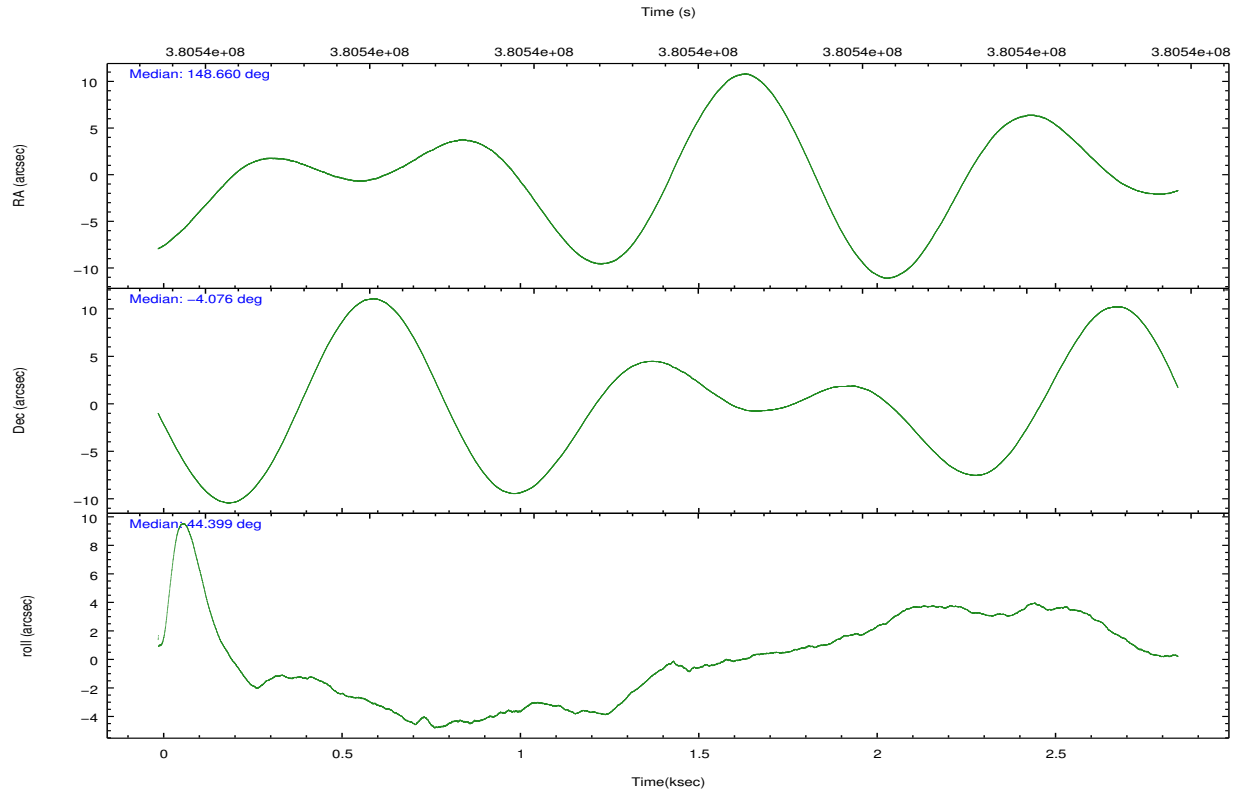
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	730	873	835	728
	3%	4%	3%	3%
grade 1 events	17	16	13	15
	0%	0%	0%	0%
grade 2 events	525	526	546	439
	2%	2%	2%	2%
grade 3 events	268	248	213	255
	1%	1%	0%	1%
grade 4 events	207	285	228	222
	1%	1%	0%	1%
grade 5 events	777	814	731	887
	4%	4%	3%	4%
grade 6 events	408	535	426	419
	2%	2%	1%	2%
grade 7 events	15356	16274	20226	17102
	83%	83%	87%	85%

## 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	148.652526	148.6598162781411	Subarray requested	NONE	NONE
[deg] Pointing Dec	-4.102268	-4.075680729096004	Alternating exposures requested	N	N
[deg] Pointing Roll	44.198325	44.40755401934095	[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)	380538148.184000	380537772.15511			
Observation start date	2010-01-22T09:01:22	2010-01-22T08:56:12			
[s] Observation end time (MET)	380540828.184000	380541521.6053			
Observation end date	2010-01-22T09:46:02	2010-01-22T09:58:41			
Read mode	TIMED	TIMED			

## 2.3 Aspect





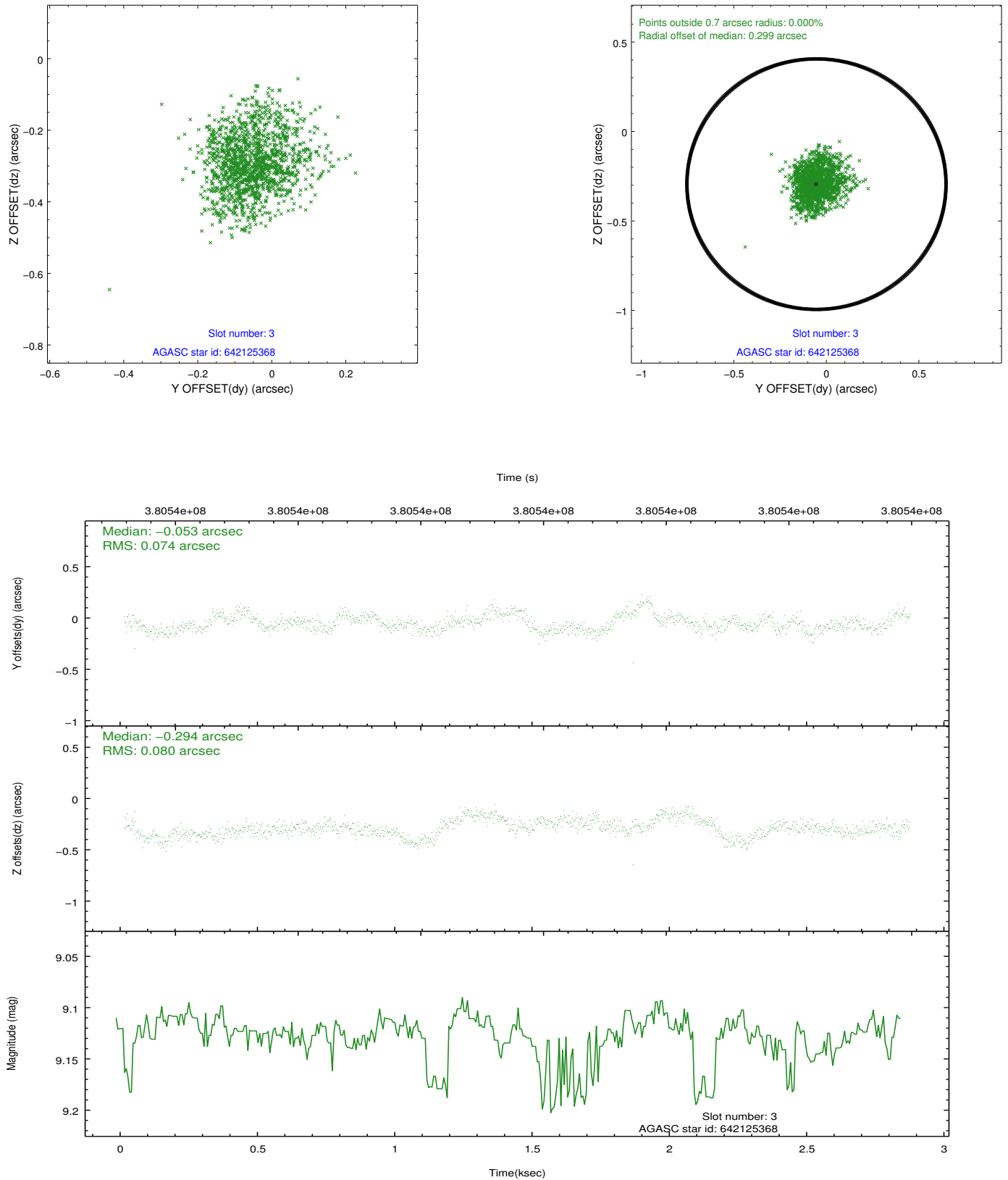
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.05	698	0.039	-0.019	0.010	0.019	0.000000	0.000000	924.39	-838.84
1	FID	ACIS-I-5	7.04	698	-0.220	0.039	0.008	0.017	0.000000	0.000000	-1822.75	1057.56
2	FID	ACIS-I-6	7.04	698	0.090	0.050	0.007	0.013	0.000000	0.000000	387.53	1704.63
3	GUIDE	642125368	9.13	1392	-0.053	-0.294	0.118	0.185	148.607933	-3.372962	1715.42	1993.82
4	GUIDE	642129264	8.81	1396	0.022	0.071	0.142	0.209	149.024669	-3.808427	1696.76	-171.65
5	GUIDE	642129392	8.69	1393	-0.019	0.047	0.088	0.135	149.116448	-3.838560	1857.52	-482.08
6	GUIDE	642130912	7.96	1394	0.095	0.008	0.085	0.143	148.633475	-4.436114	-885.07	-814.68
7	GUIDE	642132784	8.98	1392	-0.055	0.169	0.108	0.162	149.290749	-4.224375	1335.31	-1914.25

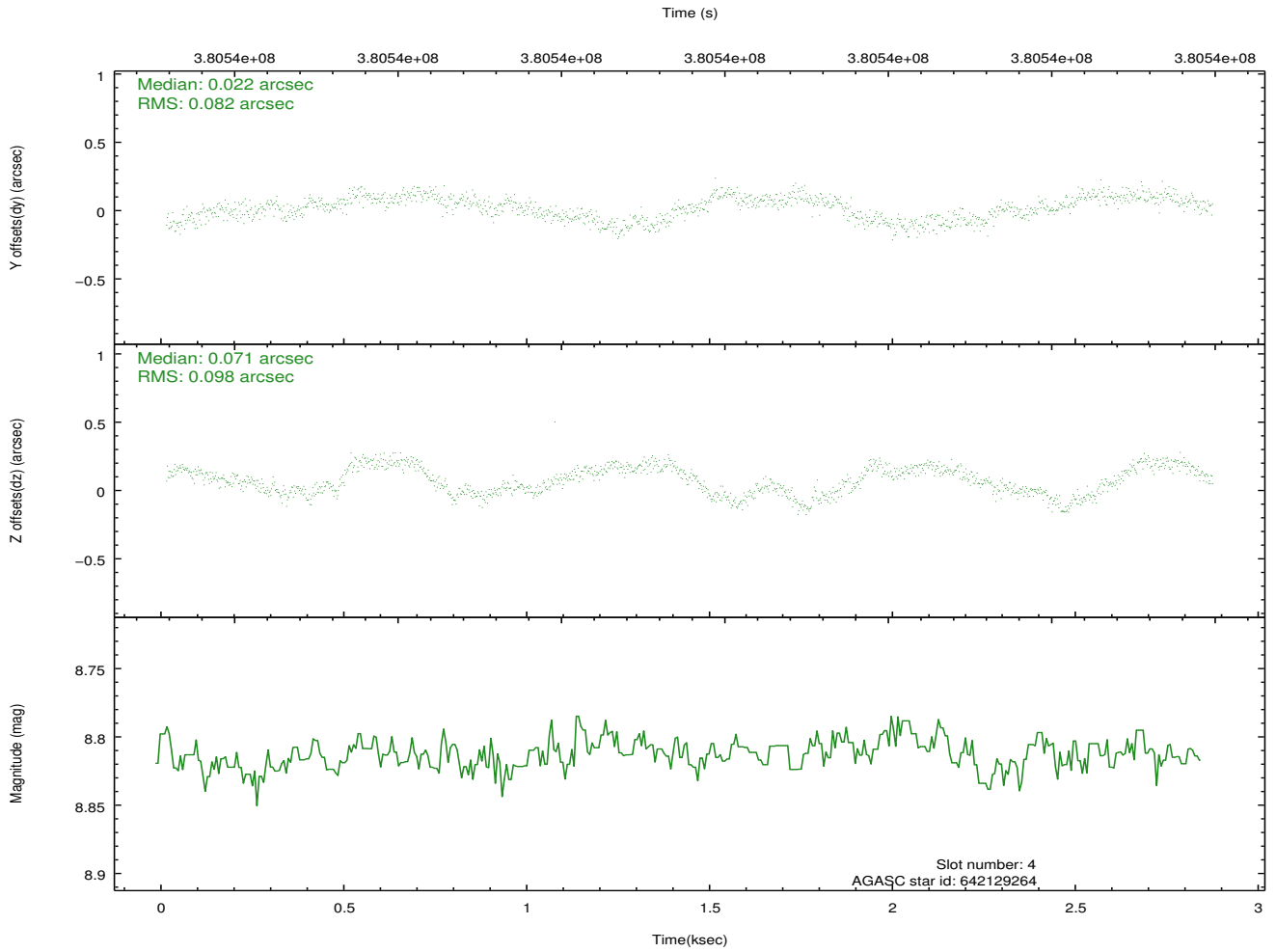
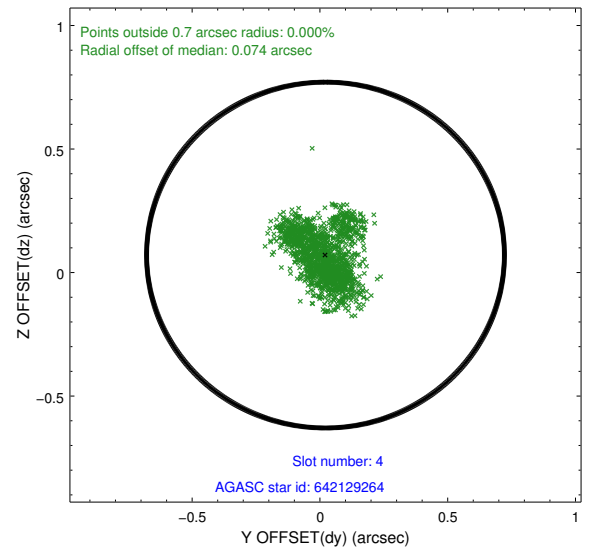
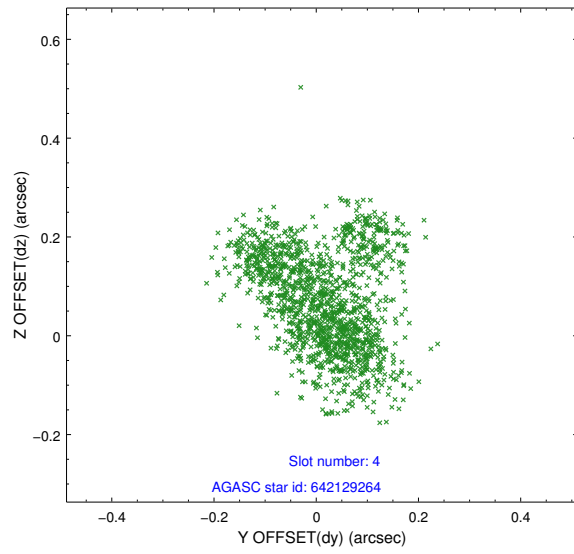


## 2.4 Star Slots

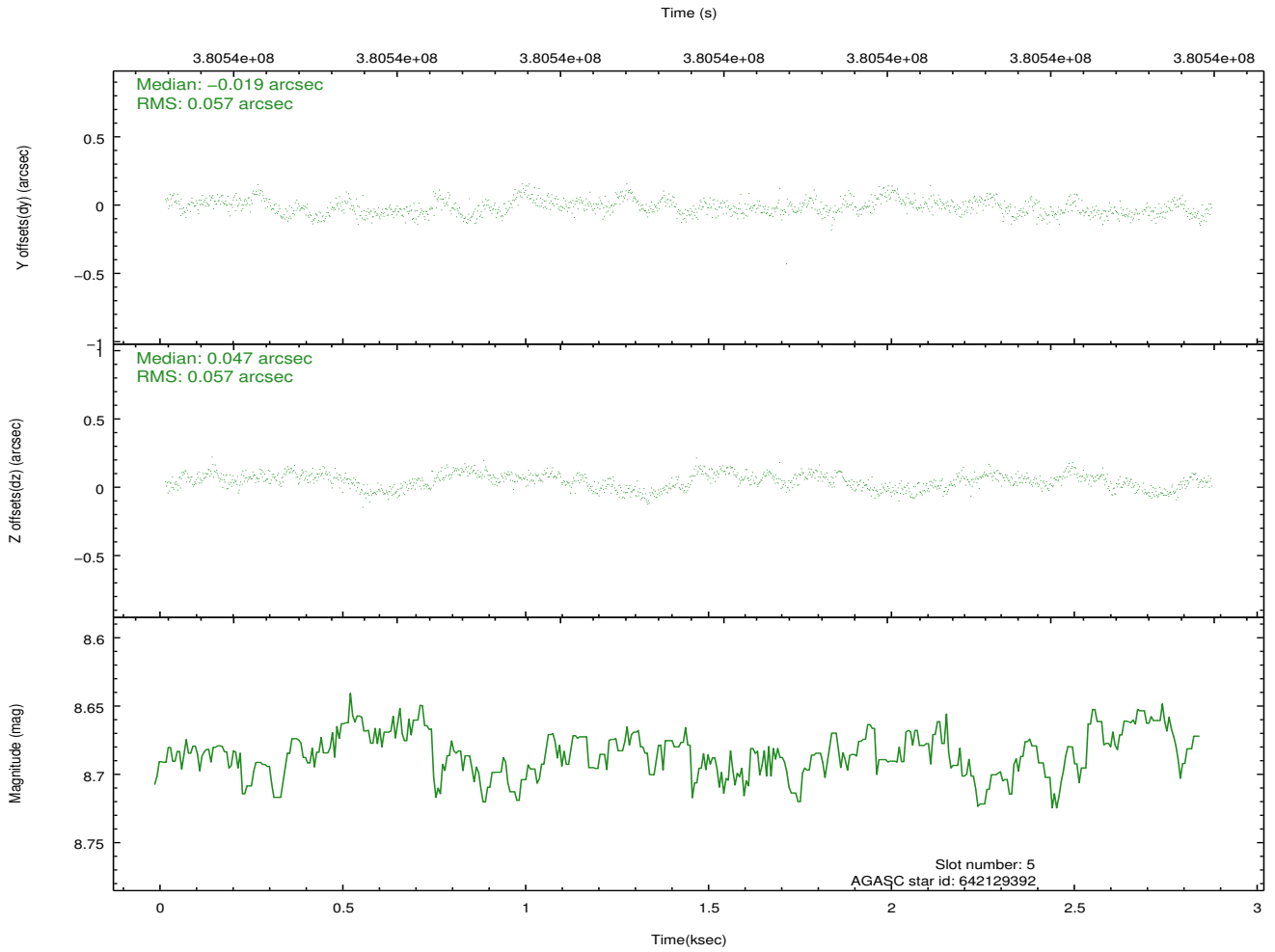
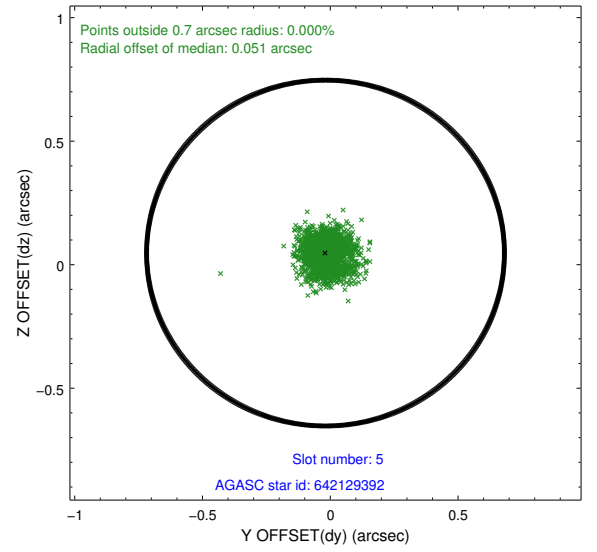
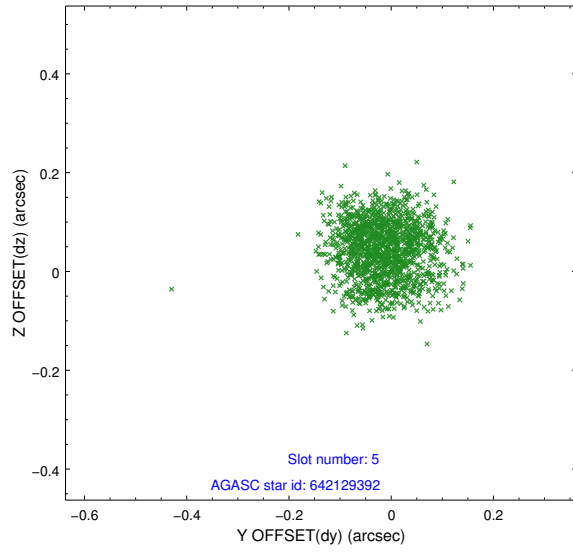
### 2.4.1 Slot 3



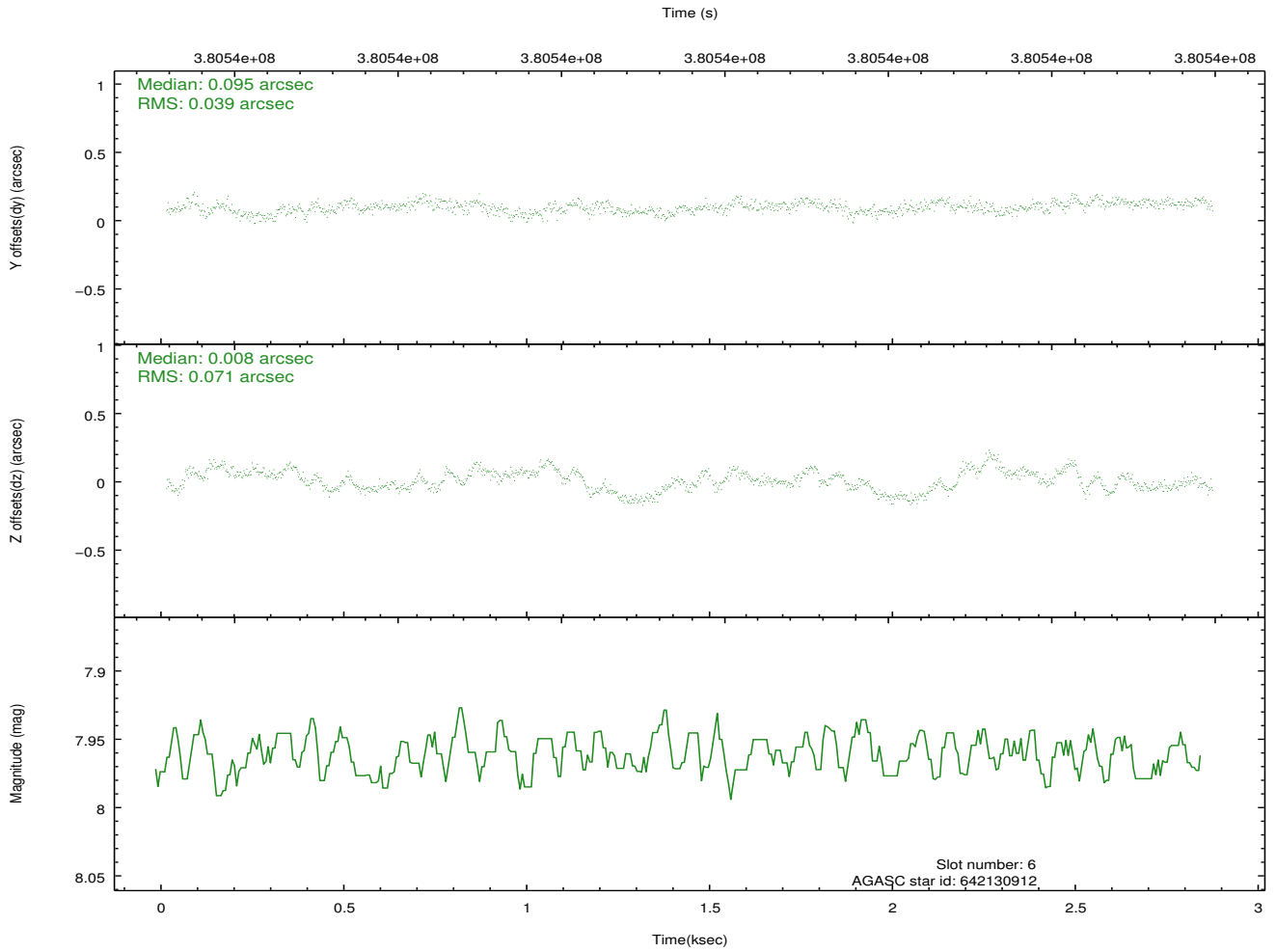
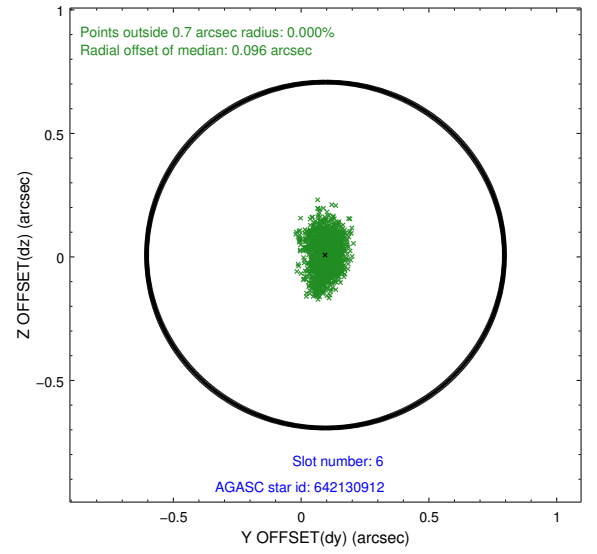
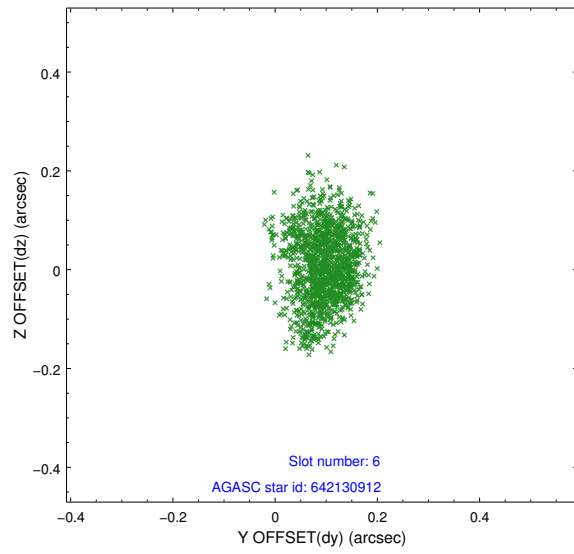
## 2.4.2 Slot 4



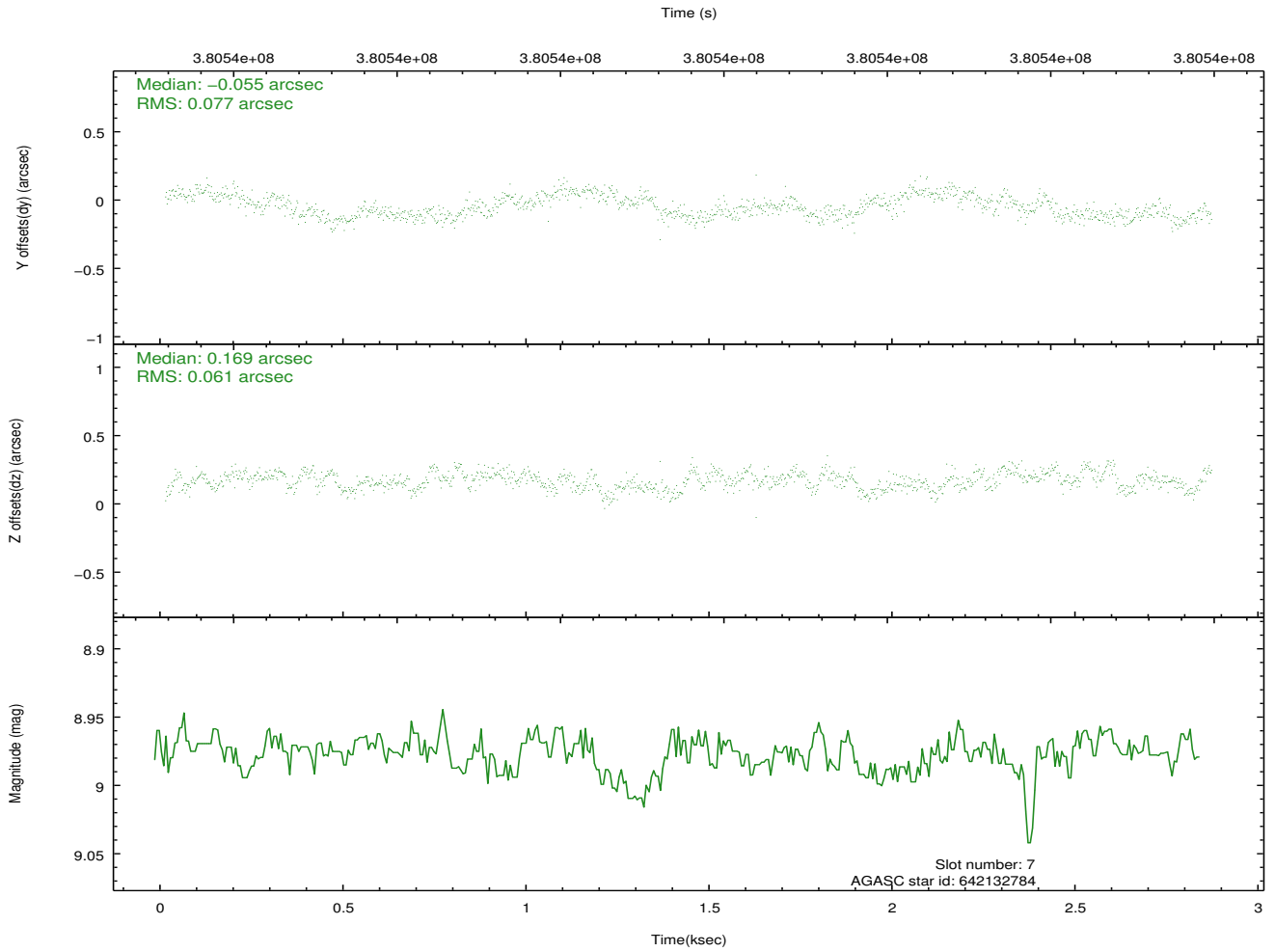
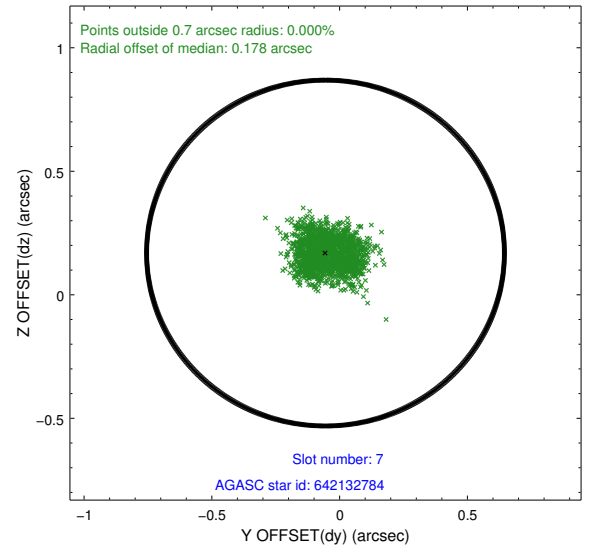
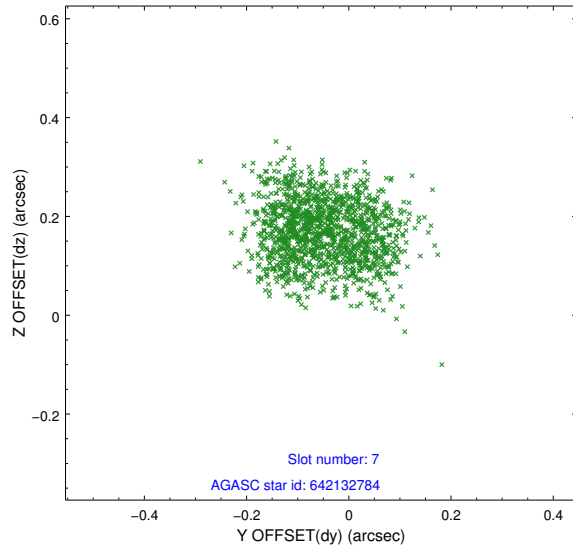
### 2.4.3 Slot 5



## 2.4.4 Slot 6

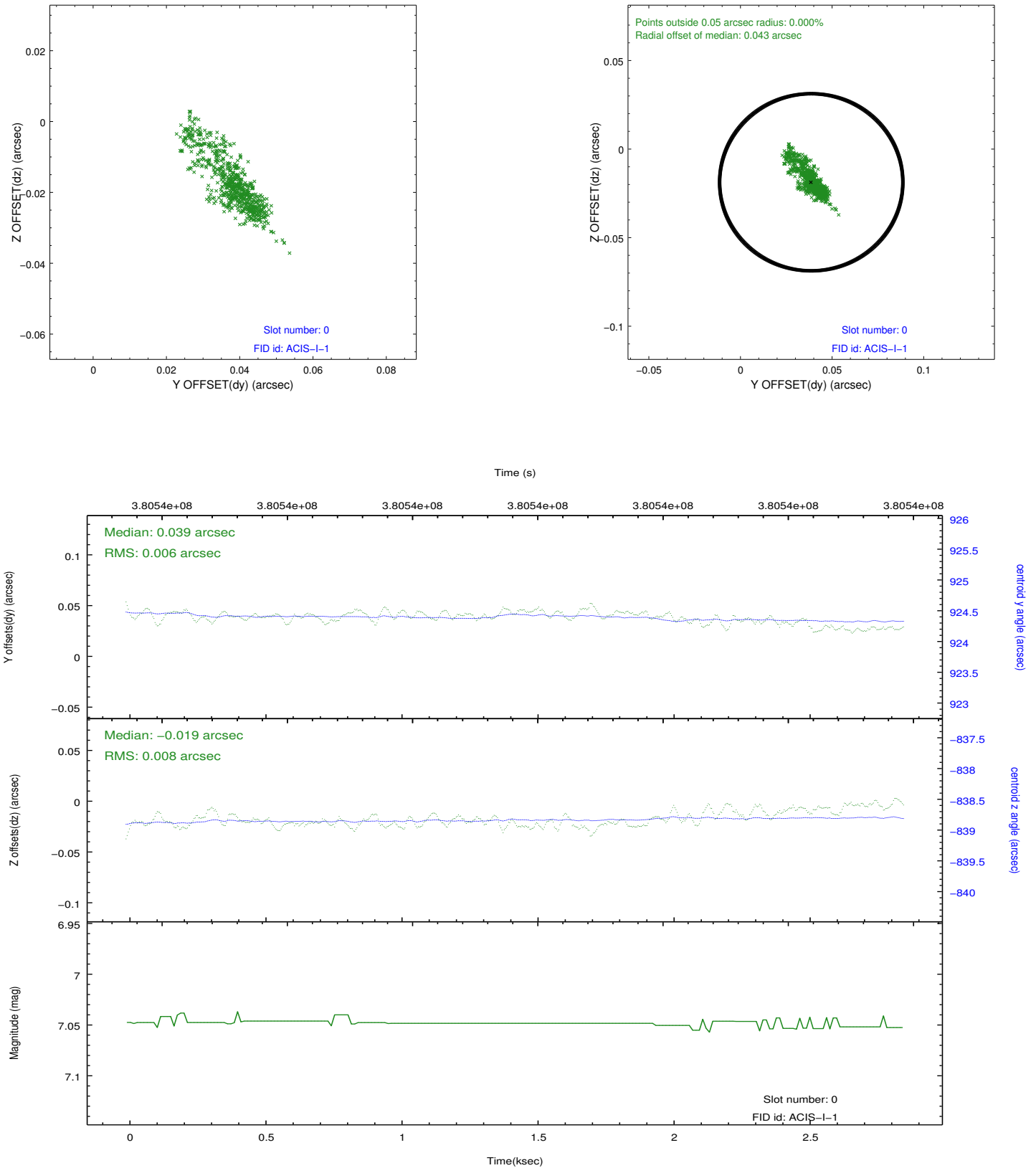


## 2.4.5 Slot 7

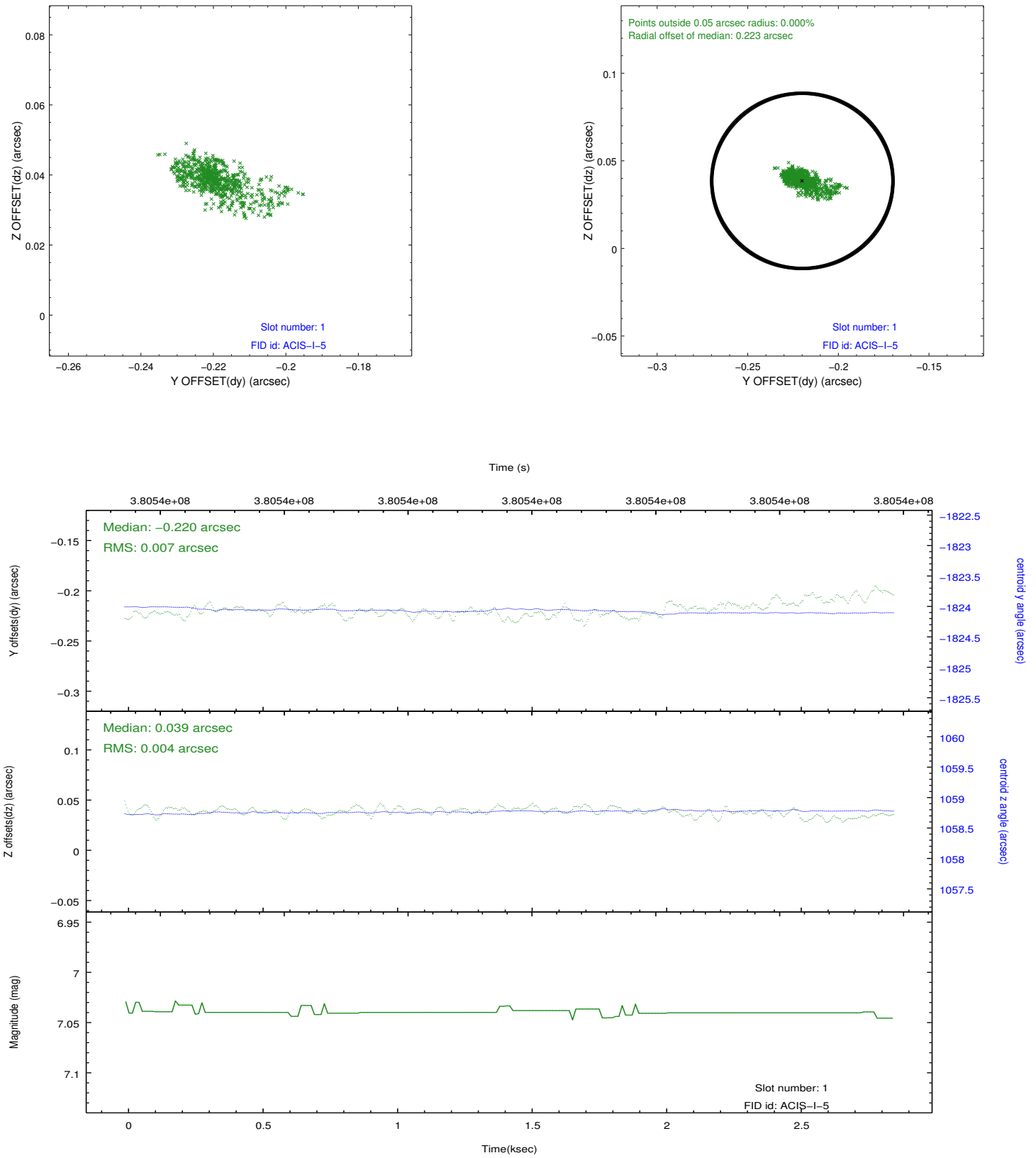


## 2.5 FID Slots

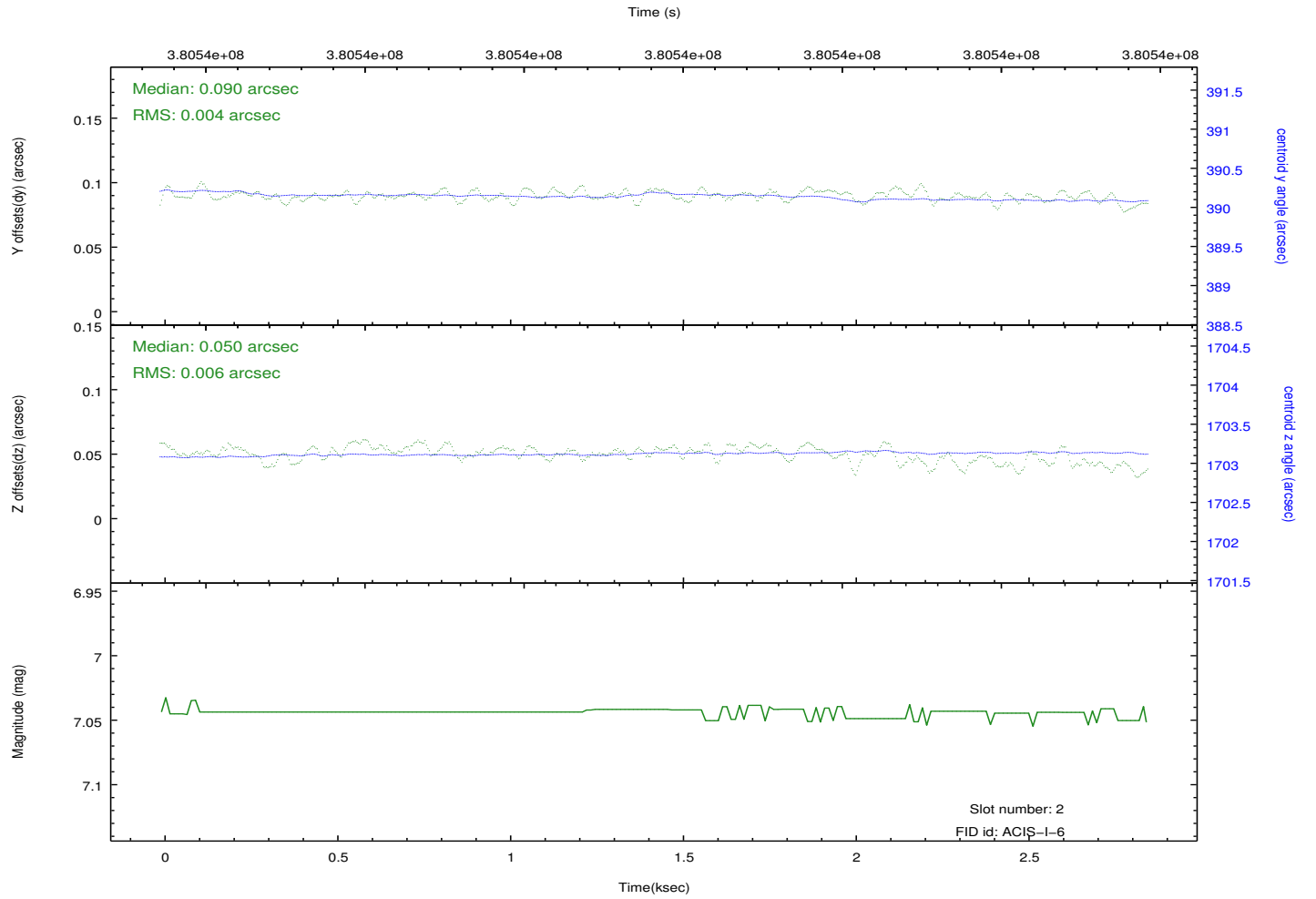
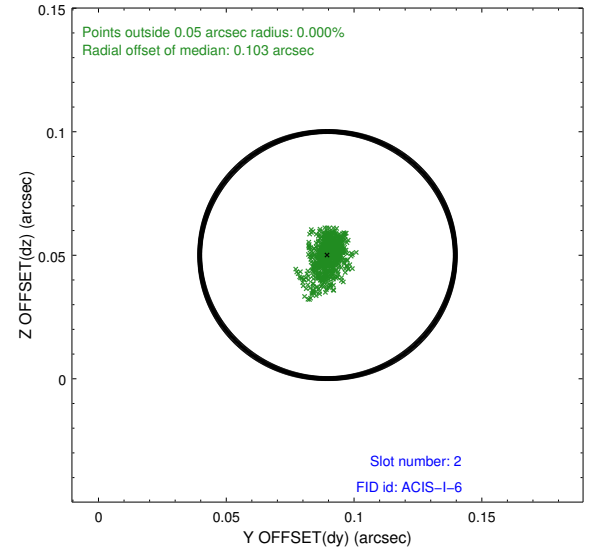
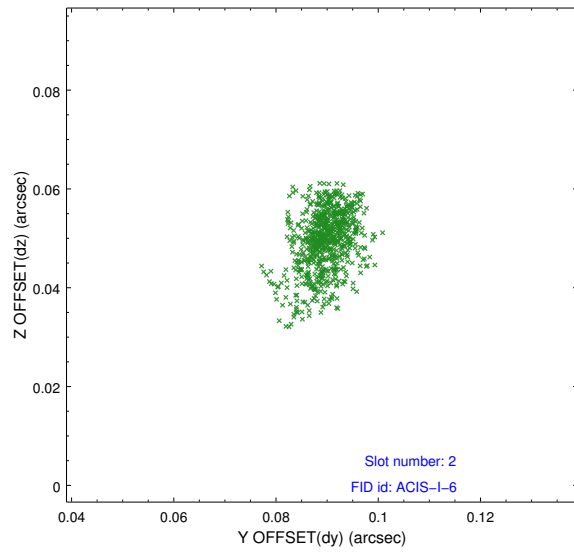
### 2.5.1 Slot 0



## 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	2.4706590287089

### A.2 Comments