

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11618 - L2 Version 2  
Chandra X-Ray Center

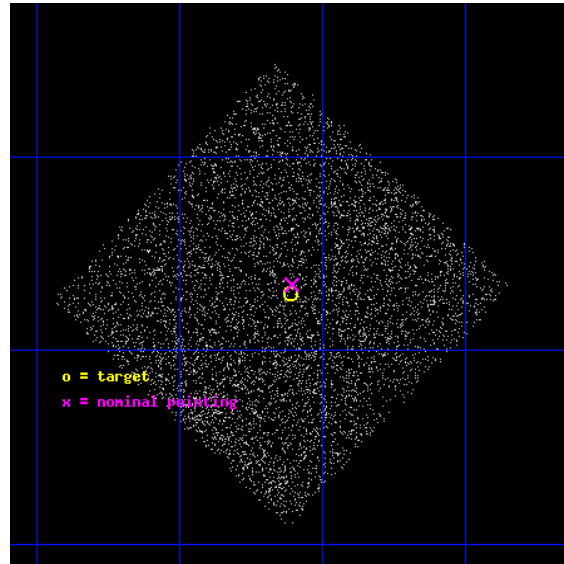
L2 Processing Date : Jun 19 2012

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# 1 Front

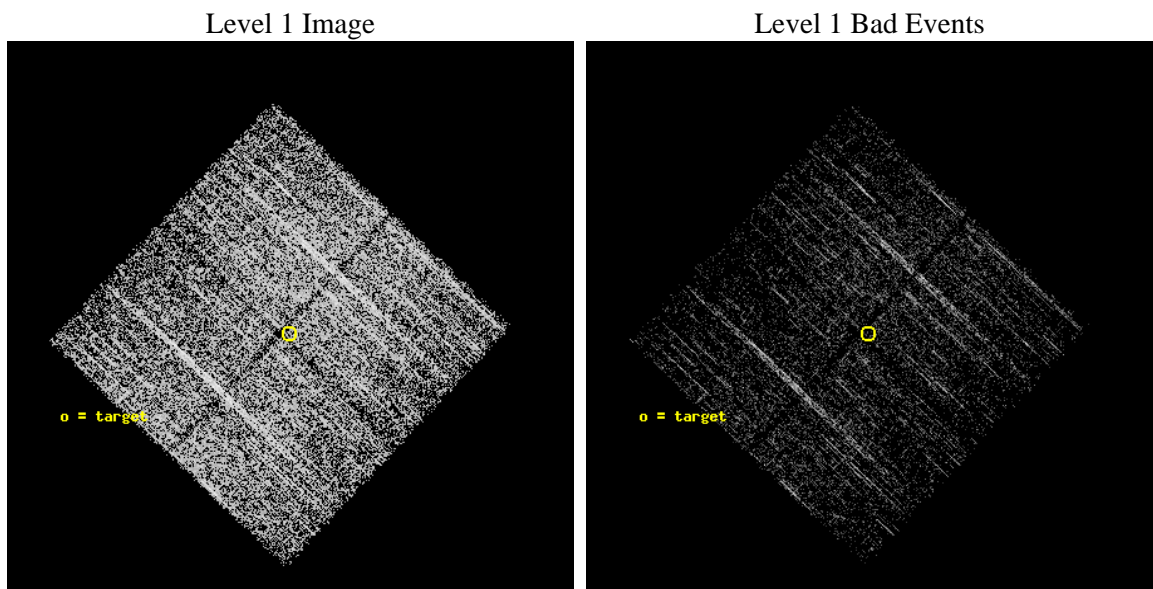
seq_num	702204	Sequence number
obs_id	11618	Observation id
title	AGN ignition in the galaxy group environment	Proposal title
observer	Dr. John Silverman	Principal investigator
object	2PIGG_m1610	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	148.403333	Observer's specified target RA [deg]
dec_targ	-5.118167	Observer's specified target Dec [deg]
ra_nom	148.40192418746	Nominal RA [deg]
dec_nom	-5.1103542822457	Nominal Dec [deg]
roll_nom	43.268118608421	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2470.700019002	Sum of GTIs [s]
livetime	2438.4185043508	Livetime [s]
ontime0	2470.700019002	Sum of GTIs [s]
ontime1	2467.5590187311	Sum of GTIs [s]
ontime2	2470.700019002	Sum of GTIs [s]
ontime3	2470.700019002	Sum of GTIs [s]
l2events	7279	Number of level 2 events



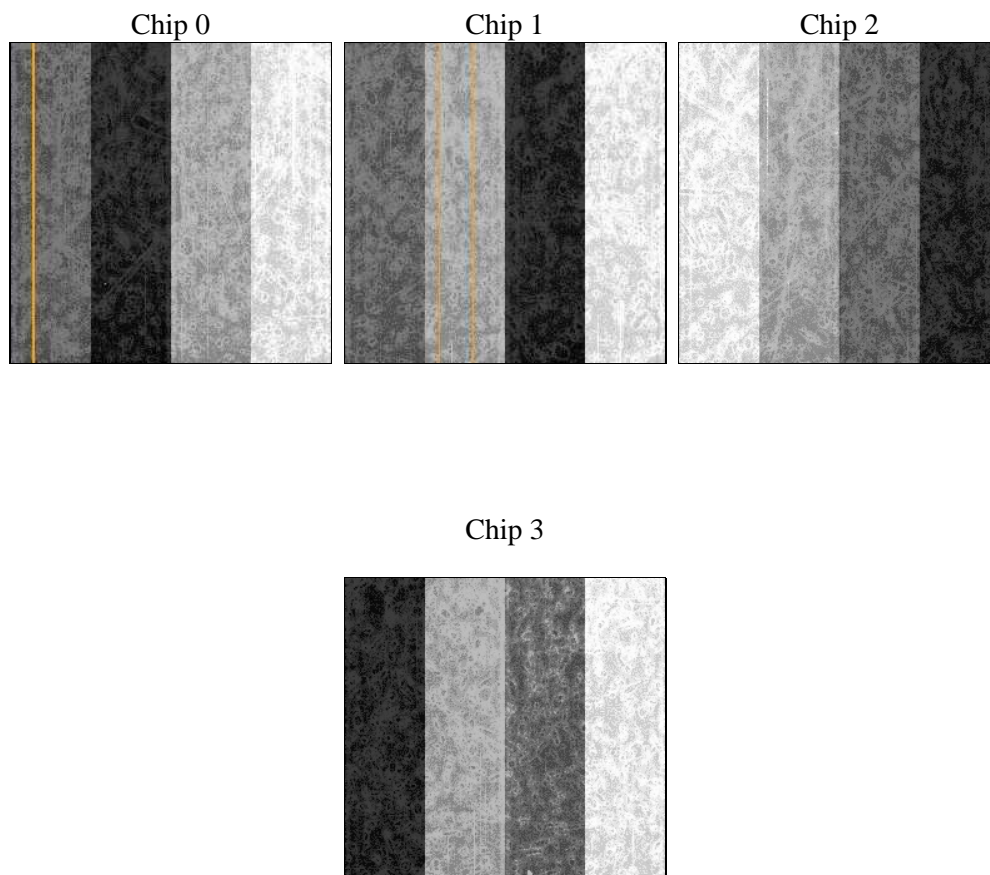
## 2 OBI

### 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	2470.700019002	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime0	2470.700019002	Sum of GTIs [s]
date	2012-06-19T22:46:36	Date and time of file creation	ontime1	2467.5590187311	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2470.700019002	Sum of GTIs [s]
			ontime3	2470.700019002	Sum of GTIs [s]
			l1events	82966	Number of level 1 events

### 2.1.4 Events

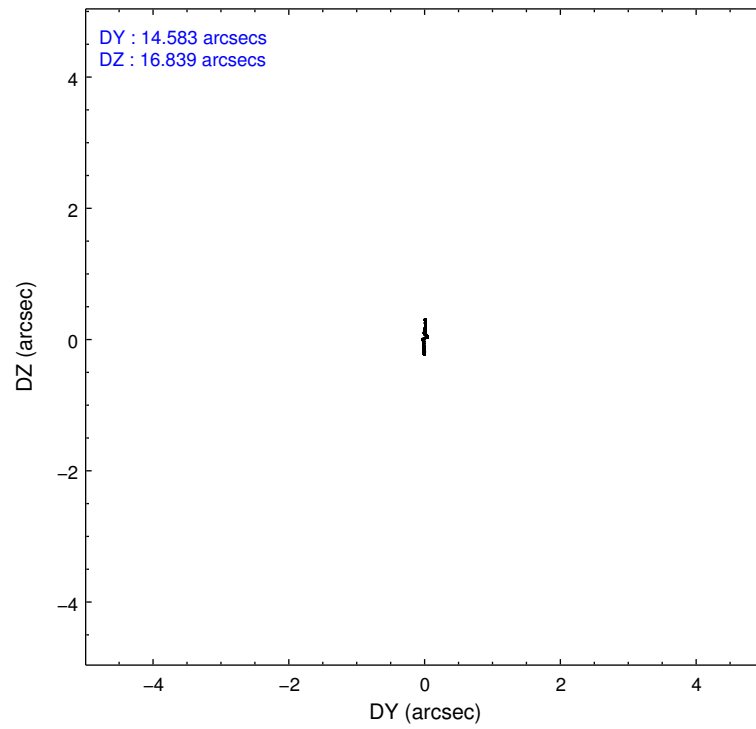
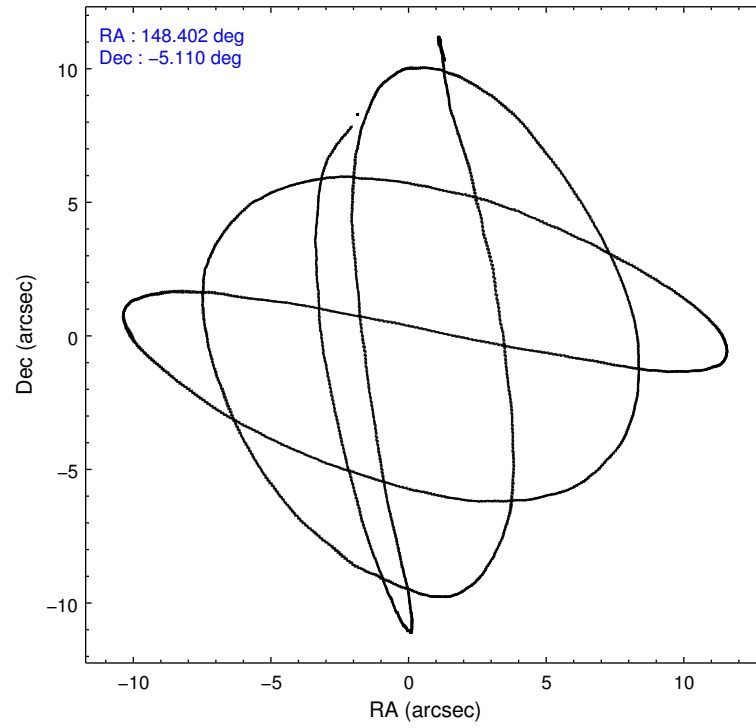
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	18941	21010	21857	21158
rejected events	16775	18451	19693	19165
rejected %	88%	87%	90%	90%

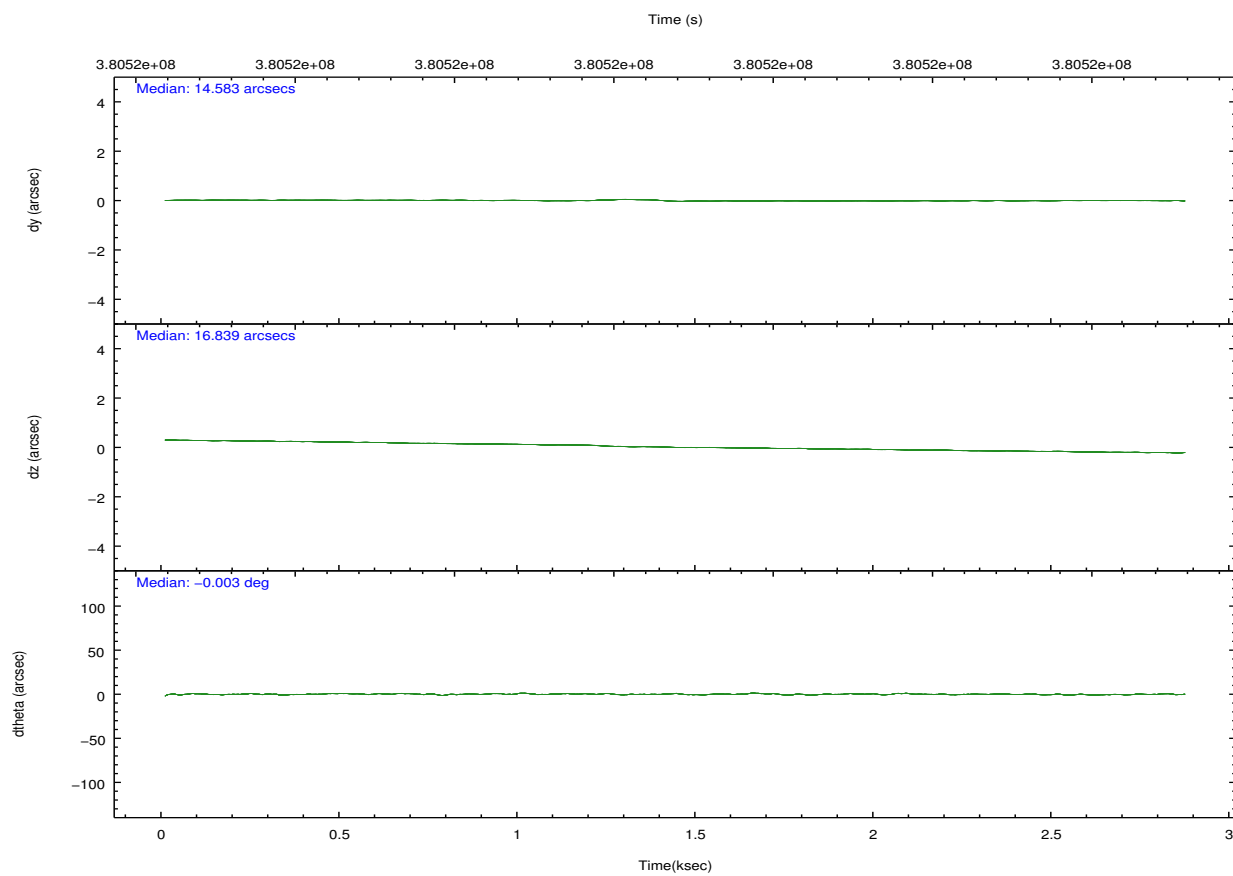
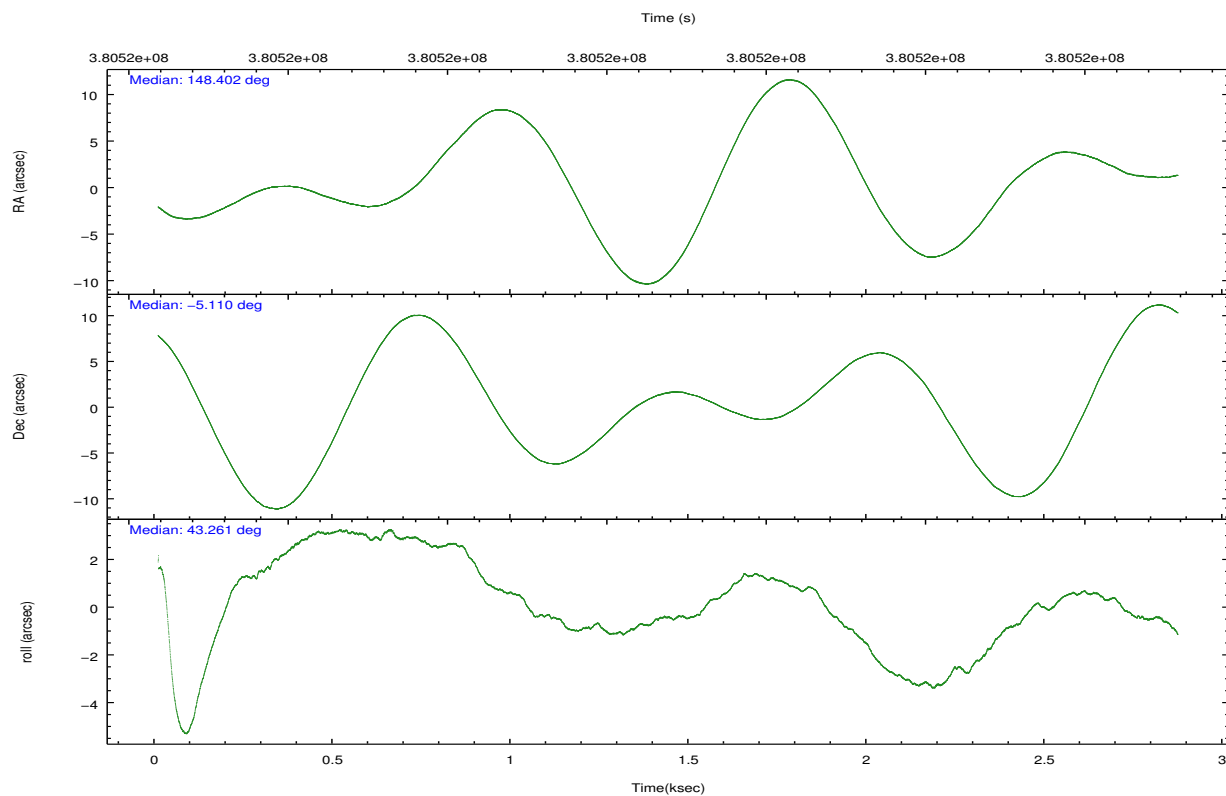
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	756	944	767	716
	3%	4%	3%	3%
grade 1 events	10	16	19	9
	0%	0%	0%	0%
grade 2 events	539	555	510	437
	2%	2%	2%	2%
grade 3 events	253	258	243	200
	1%	1%	1%	0%
grade 4 events	210	271	210	229
	1%	1%	0%	1%
grade 5 events	794	883	743	961
	4%	4%	3%	4%
grade 6 events	410	535	439	414
	2%	2%	2%	1%
grade 7 events	15969	17548	18926	18192
	84%	83%	86%	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	148.394175	148.4019241874584	Subarray requested	NONE	NONE
[deg] Pointing Dec	-5.136719	-5.110354282245693	Alternating exposures requested	N	N
[deg] Pointing Roll	43.058721	43.26811860842145	[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)	380518949.184000	380518572.87913			
Observation start date	2010-01-22T03:41:23	2010-01-22T03:36:12			
[s] Observation end time (MET)	380521629.184000	380521763.1918			
Observation end date	2010-01-22T04:26:03	2010-01-22T04:29:23			
Read mode	TIMED	TIMED			

## 2.3 Aspect





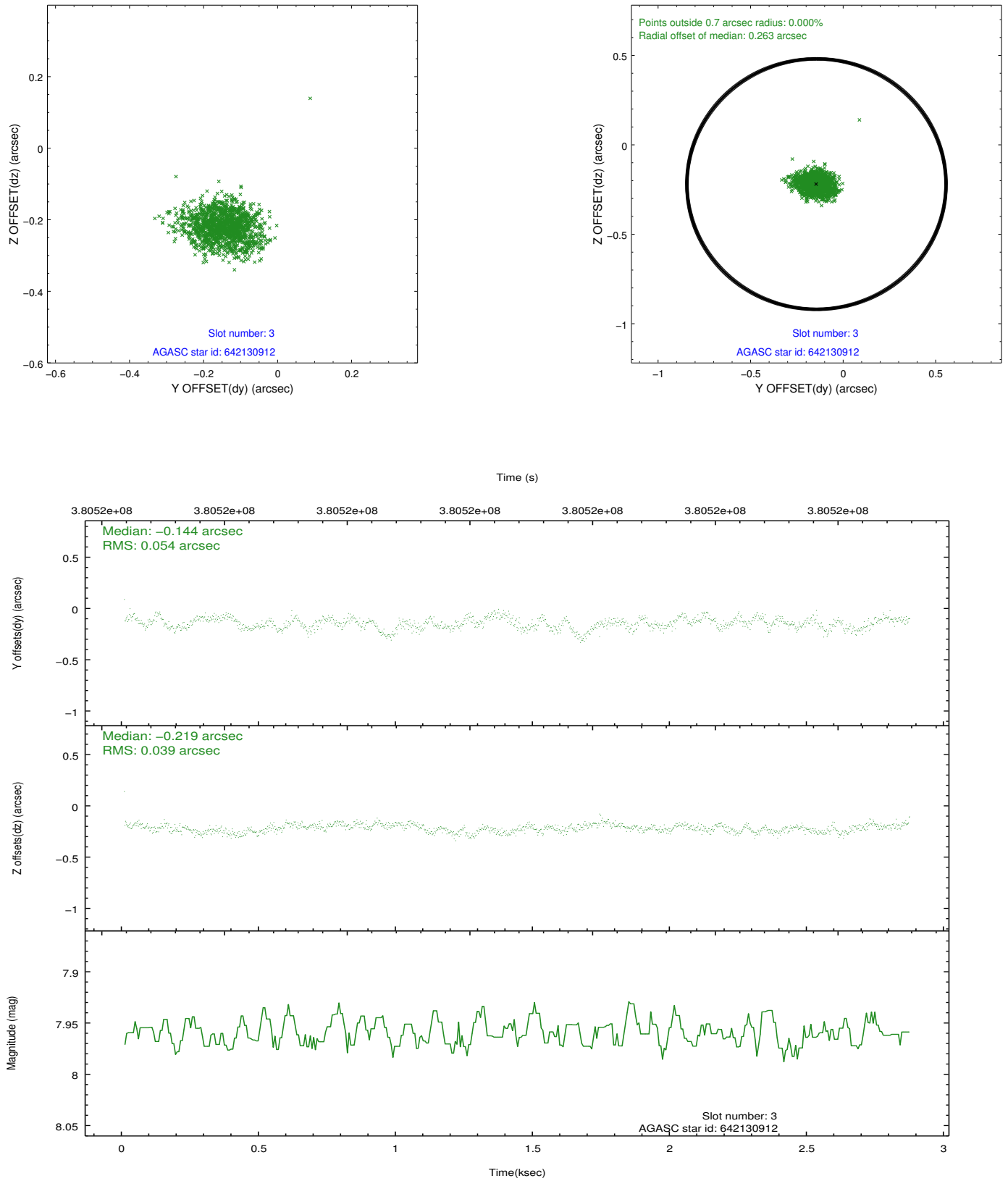
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.00	699	-0.002	-0.096	0.009	0.016	0.000000	0.000000	924.89	-840.60
1	FID	ACIS-I-4	6.94	698	0.125	0.091	0.008	0.013	0.000000	0.000000	2146.28	1058.27
2	FID	ACIS-I-5	6.99	699	-0.221	0.076	0.007	0.012	0.000000	0.000000	-1820.47	1058.62
3	GUIDE	642130912	7.96	1399	-0.144	-0.219	0.069	0.114	148.633475	-4.436114	2349.68	1256.28
4	GUIDE	642136664	8.38	1396	0.223	-0.168	0.076	0.119	147.866202	-4.972417	-978.52	1724.90
5	GUIDE	642136704	7.07	1399	-0.130	0.042	0.057	0.092	148.904130	-4.976239	1729.87	-826.00
6	GUIDE	642522984	8.68	1398	-0.223	0.276	0.097	0.164	149.320499	-5.182668	2313.91	-2390.40
7	GUIDE	642526976	9.07	1396	0.279	0.072	0.096	0.152	148.687115	-5.542879	-229.09	-1786.91

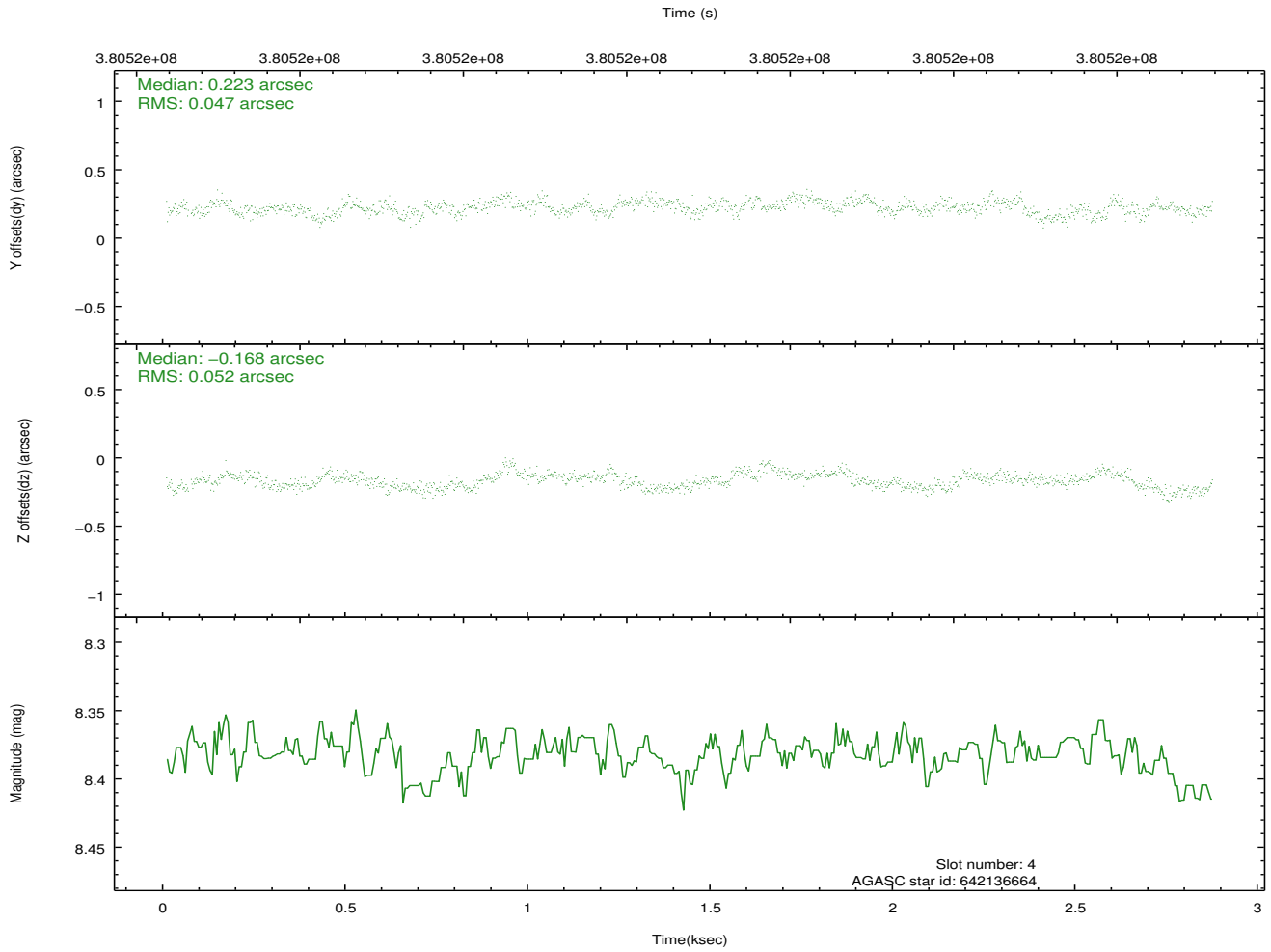
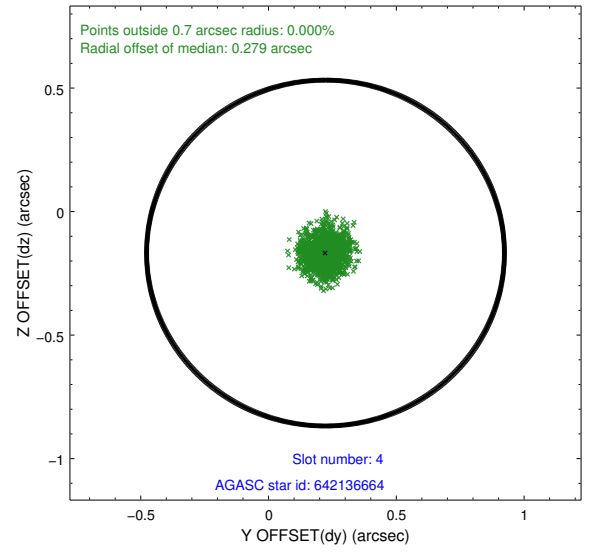
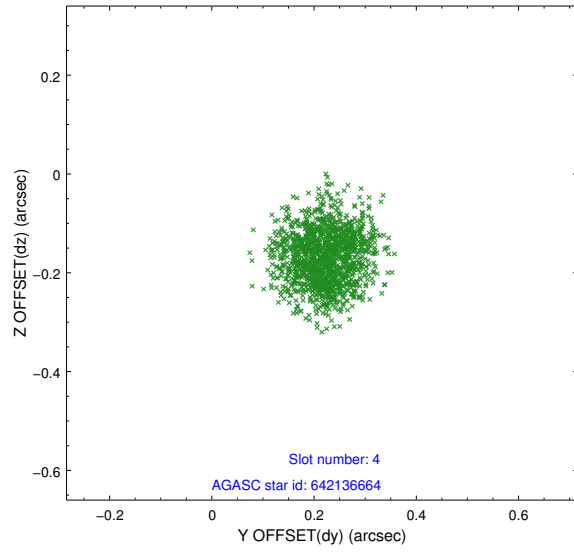


## 2.4 Star Slots

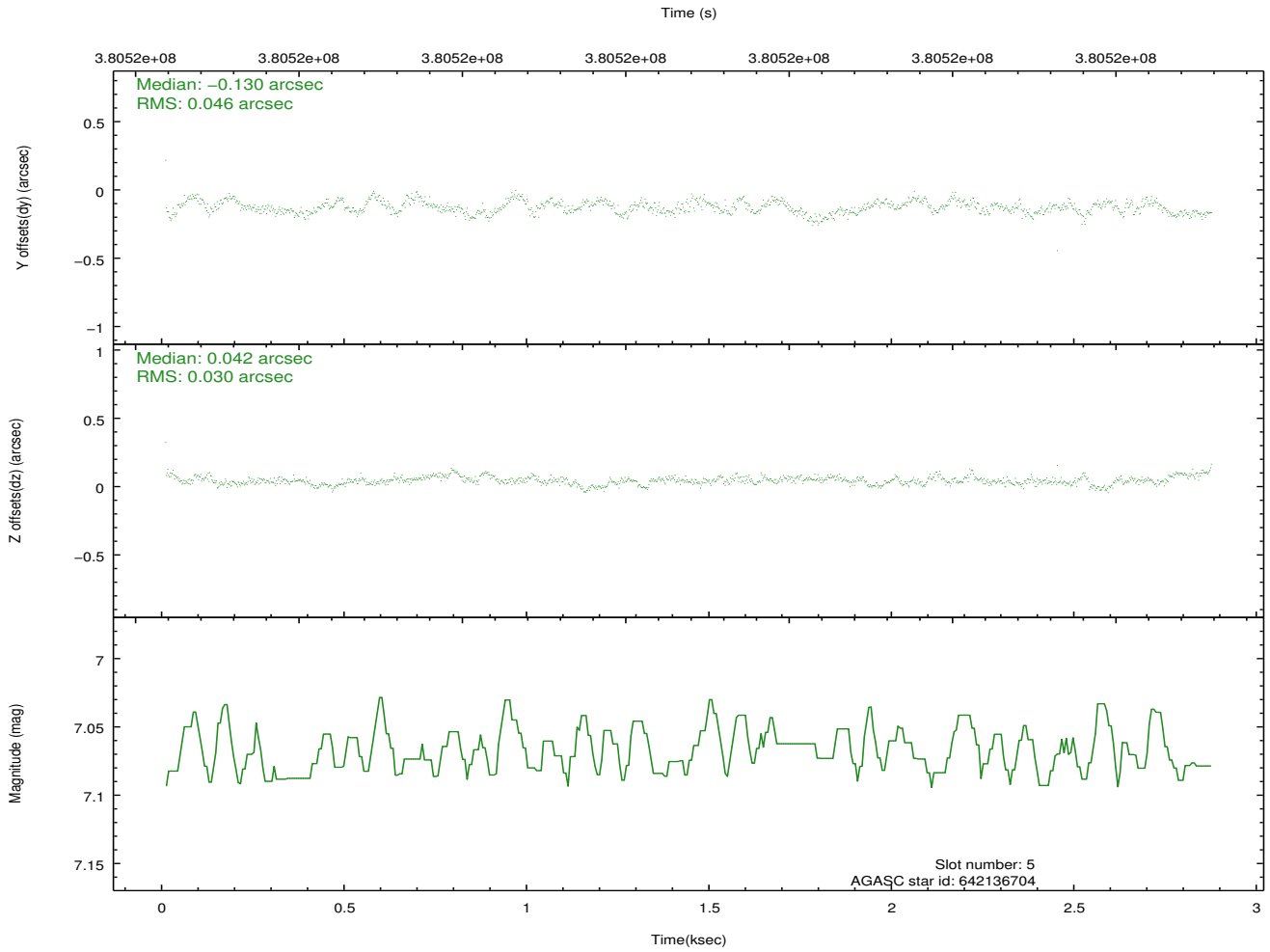
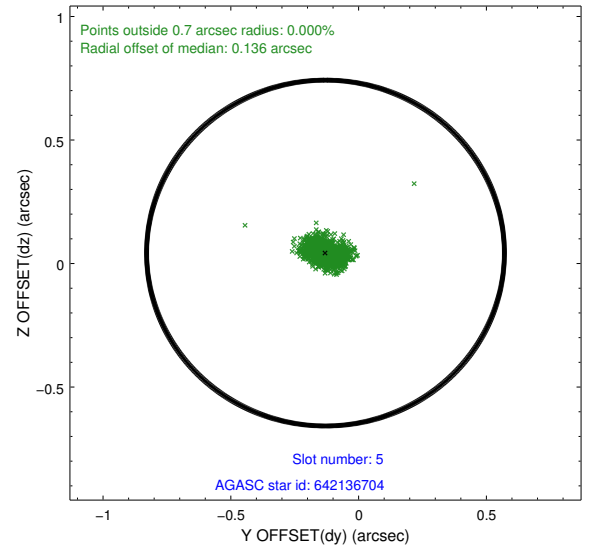
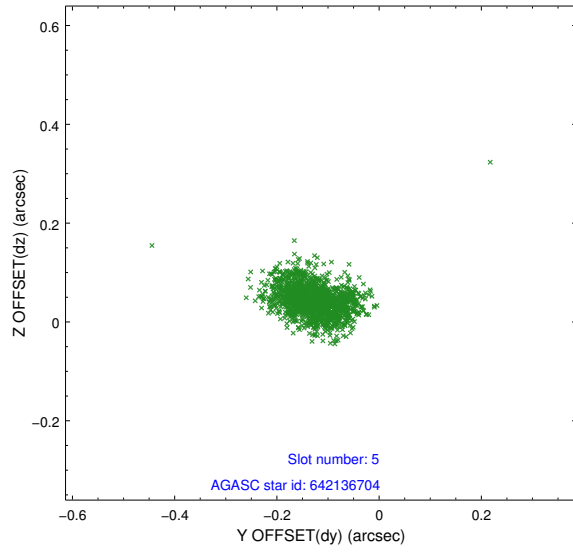
### 2.4.1 Slot 3



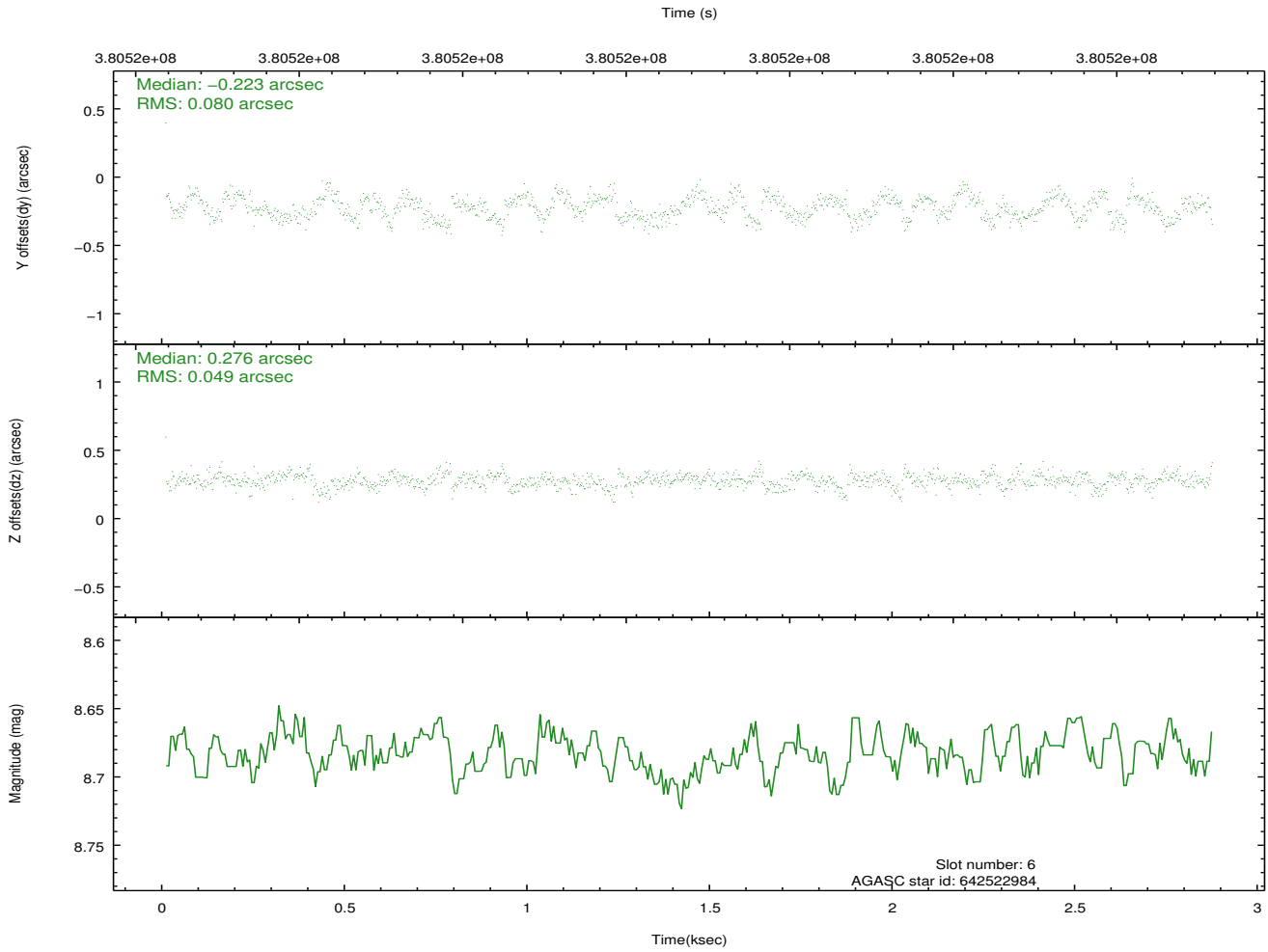
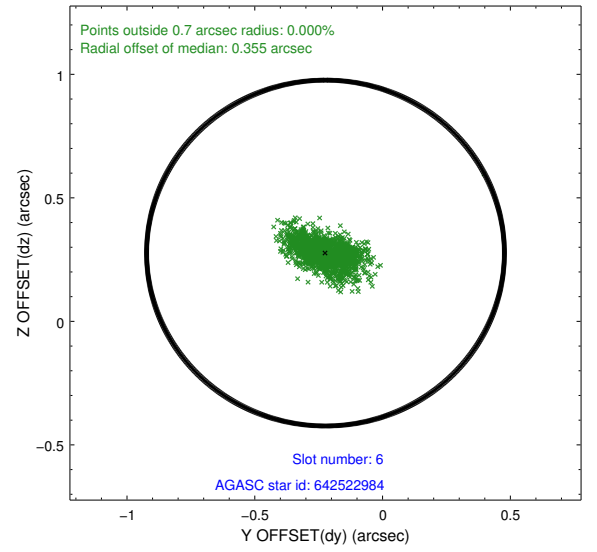
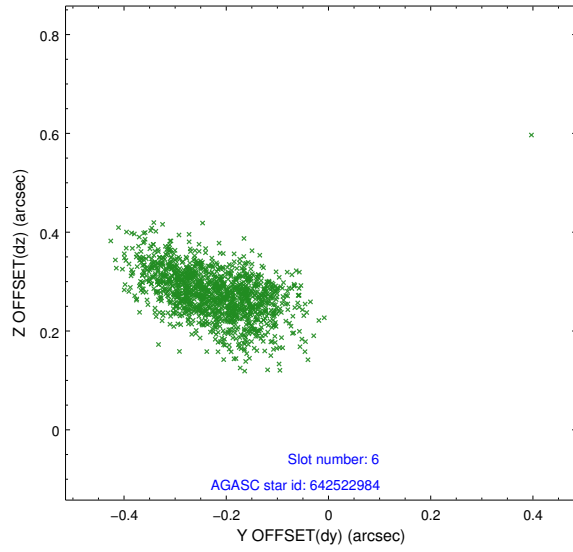
## 2.4.2 Slot 4



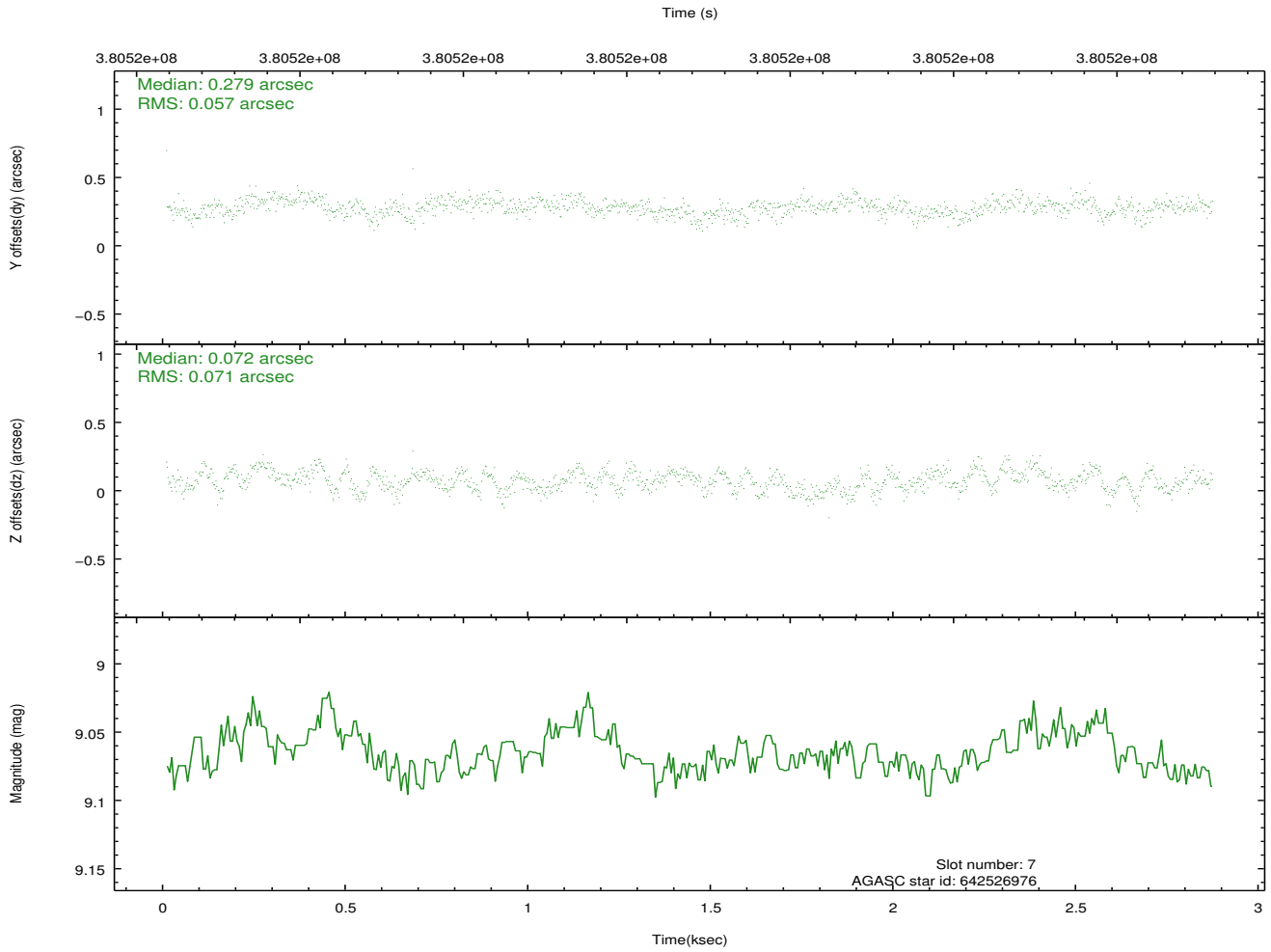
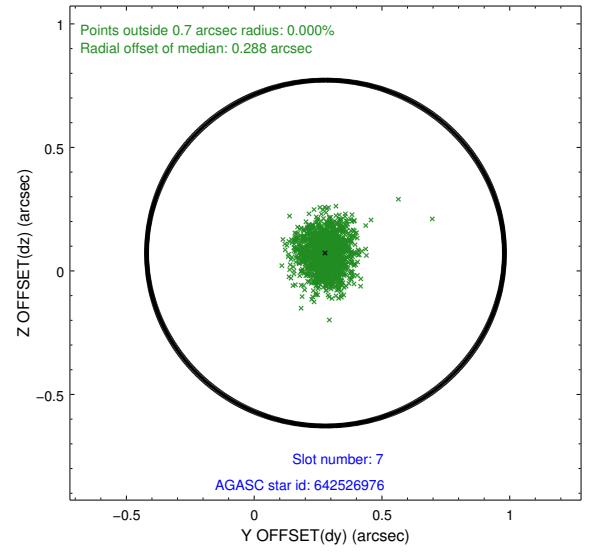
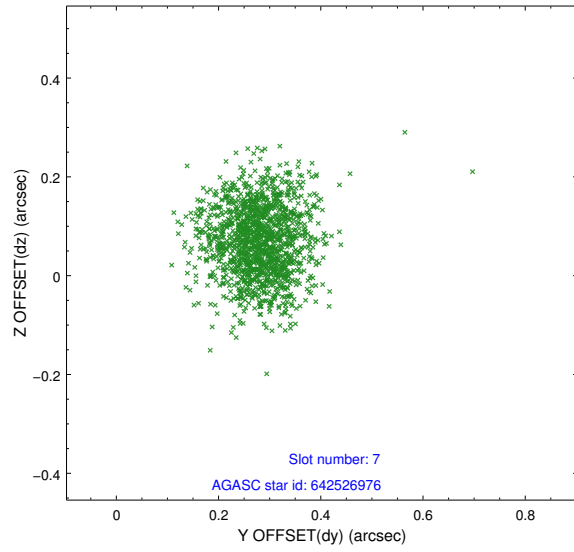
### 2.4.3 Slot 5



## 2.4.4 Slot 6

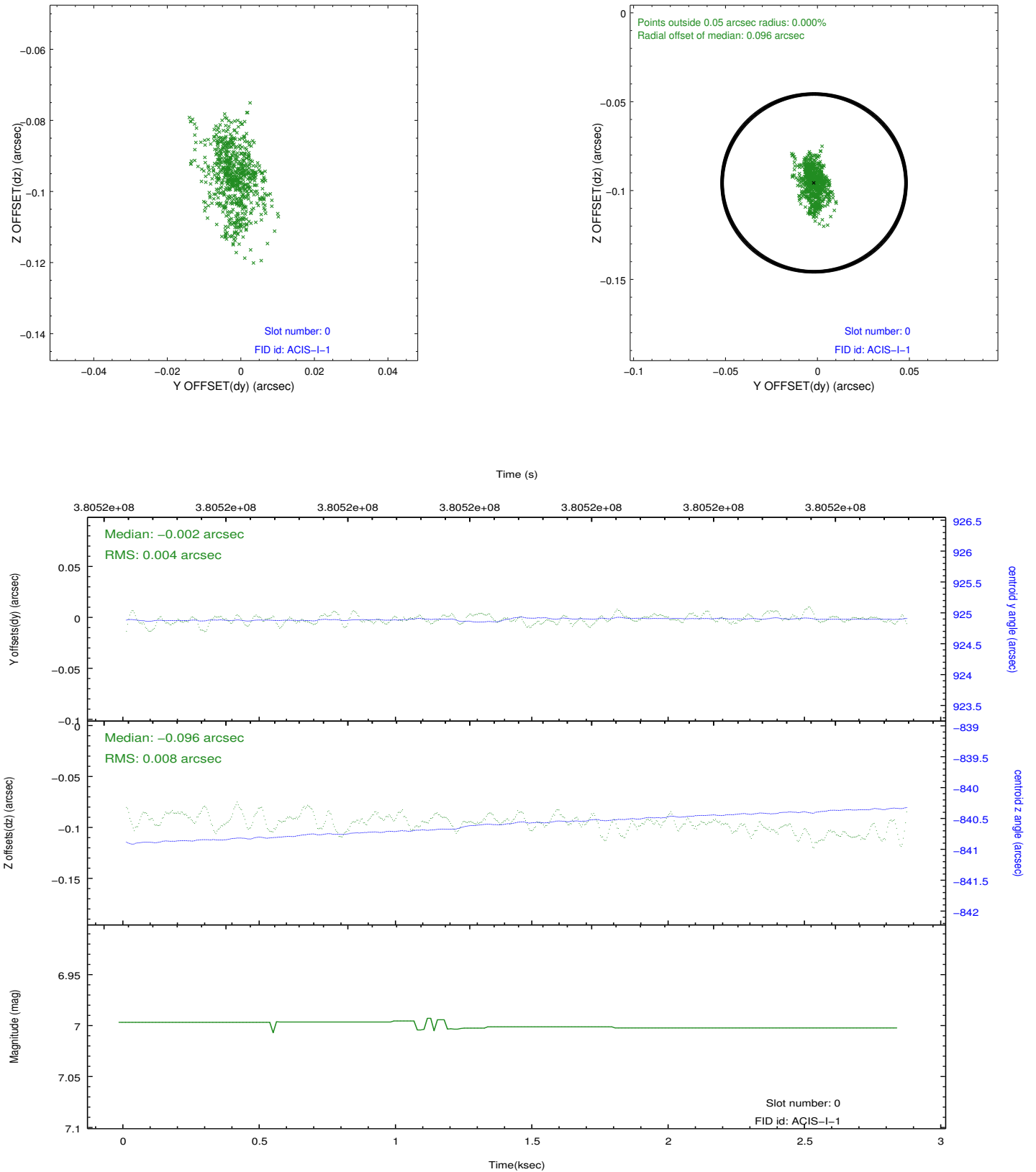


## 2.4.5 Slot 7

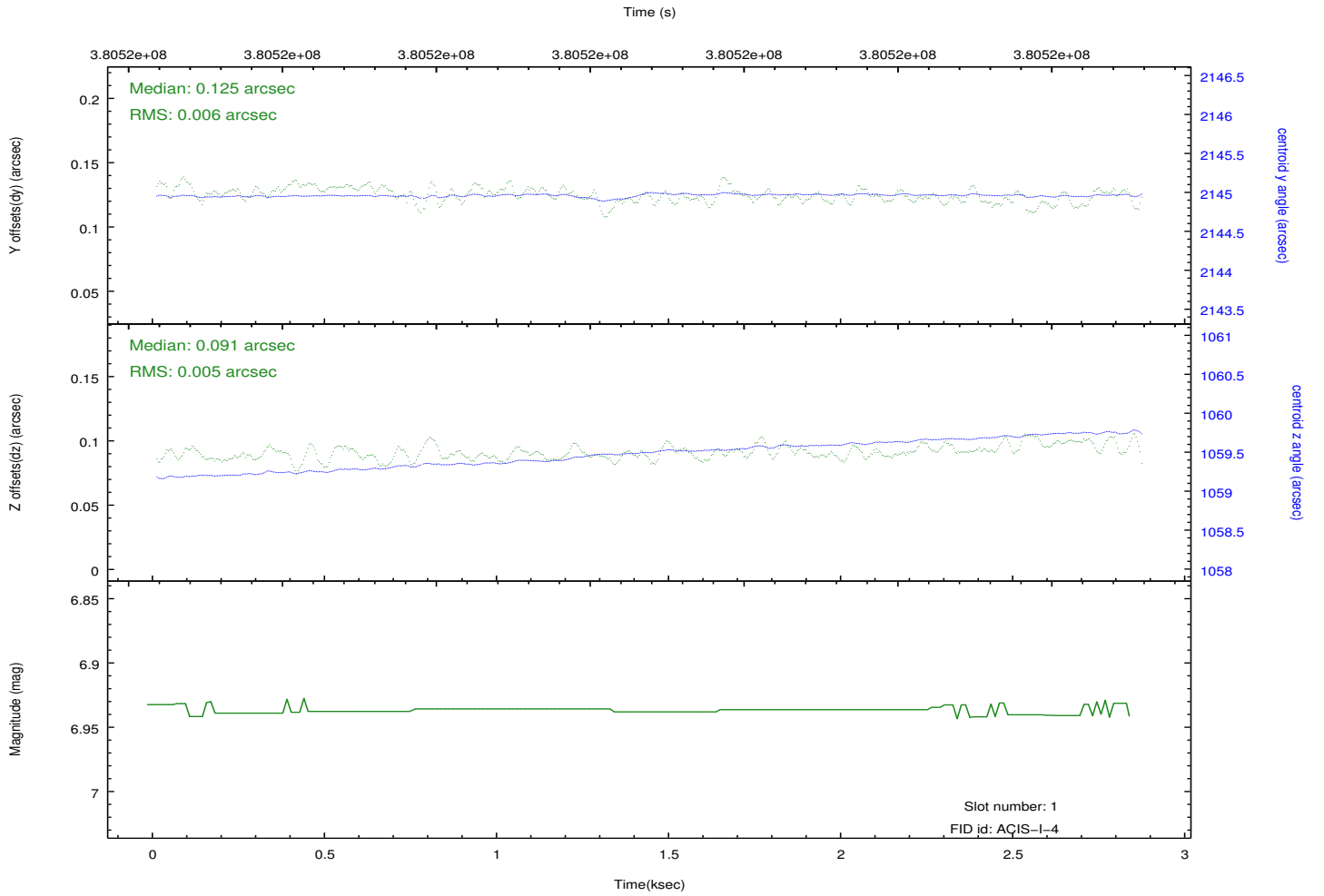
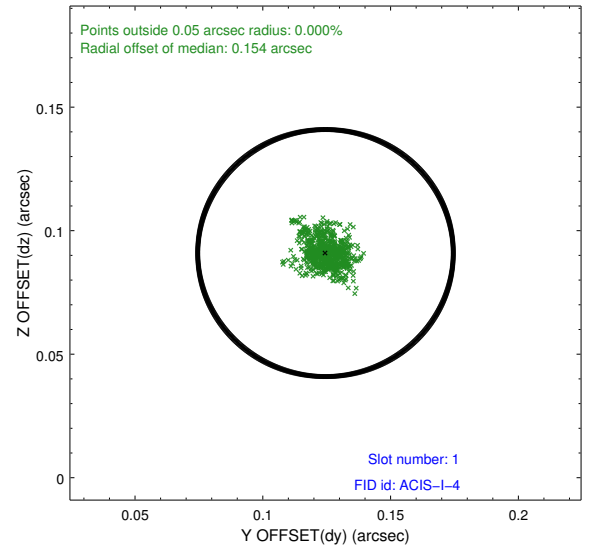
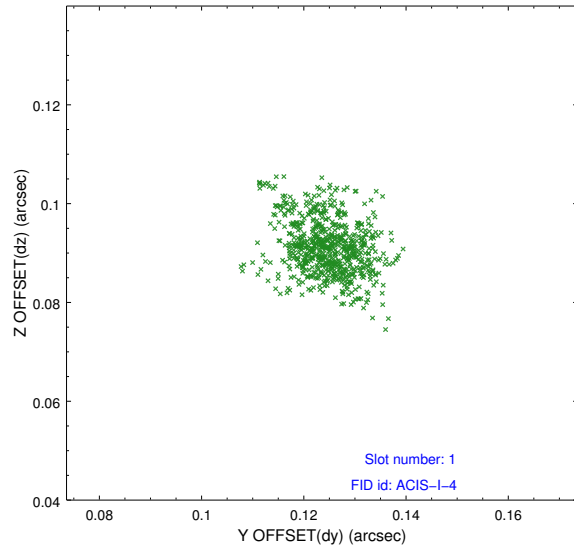


## 2.5 FID Slots

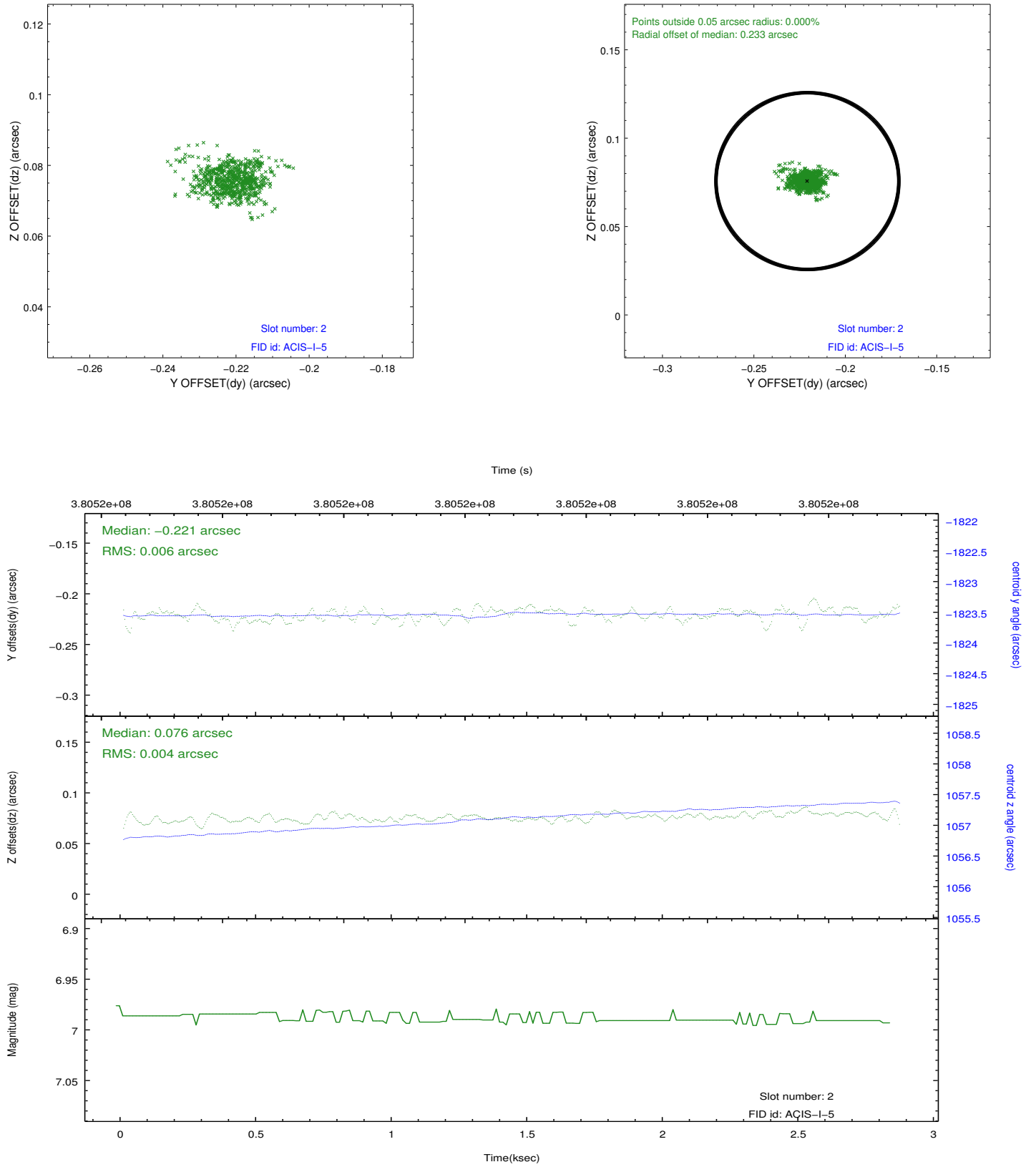
### 2.5.1 Slot 0



## 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	2.470700019002

### A.2 Comments