

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 11643 - L2 Version 2  
Chandra X-Ray Center

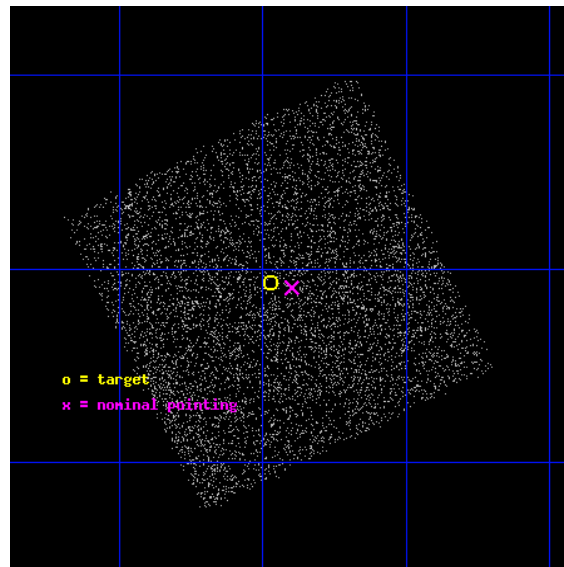
L2 Processing Date : Jun 18 2012

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# 1 Front

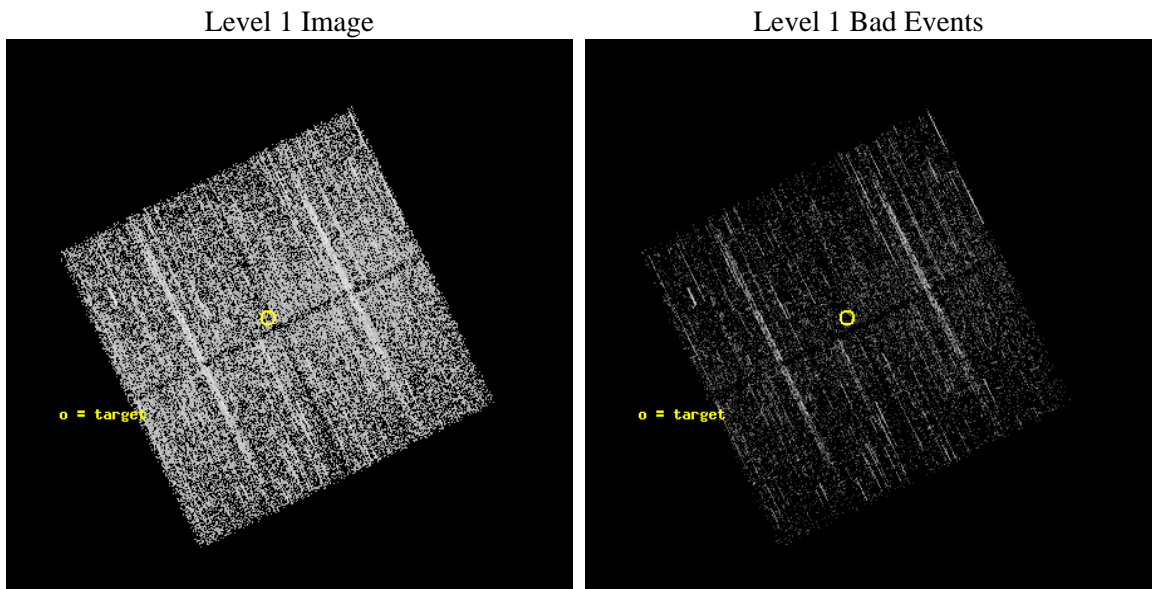
seq_num	702229	Sequence number
obs_id	11643	Observation id
title	AGN ignition in the galaxy group environment	Proposal title
observer	Dr. John Silverman	Principal investigator
object	2PIGG_m1381	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.99375	Observer's specified target RA [deg]
dec_targ	-2.511556	Observer's specified target Dec [deg]
ra_nom	216.97469920642	Nominal RA [deg]
dec_nom	-2.5161164490371	Nominal Dec [deg]
roll_nom	63.929982808933	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2631.8590599298	Sum of GTIs [s]
livetime	2597.4718837654	Livetime [s]
ontime0	2631.8590599298	Sum of GTIs [s]
ontime1	2635.0000202656	Sum of GTIs [s]
ontime2	2635.0000202656	Sum of GTIs [s]
ontime3	2635.0000202656	Sum of GTIs [s]
l2events	8020	Number of level 2 events



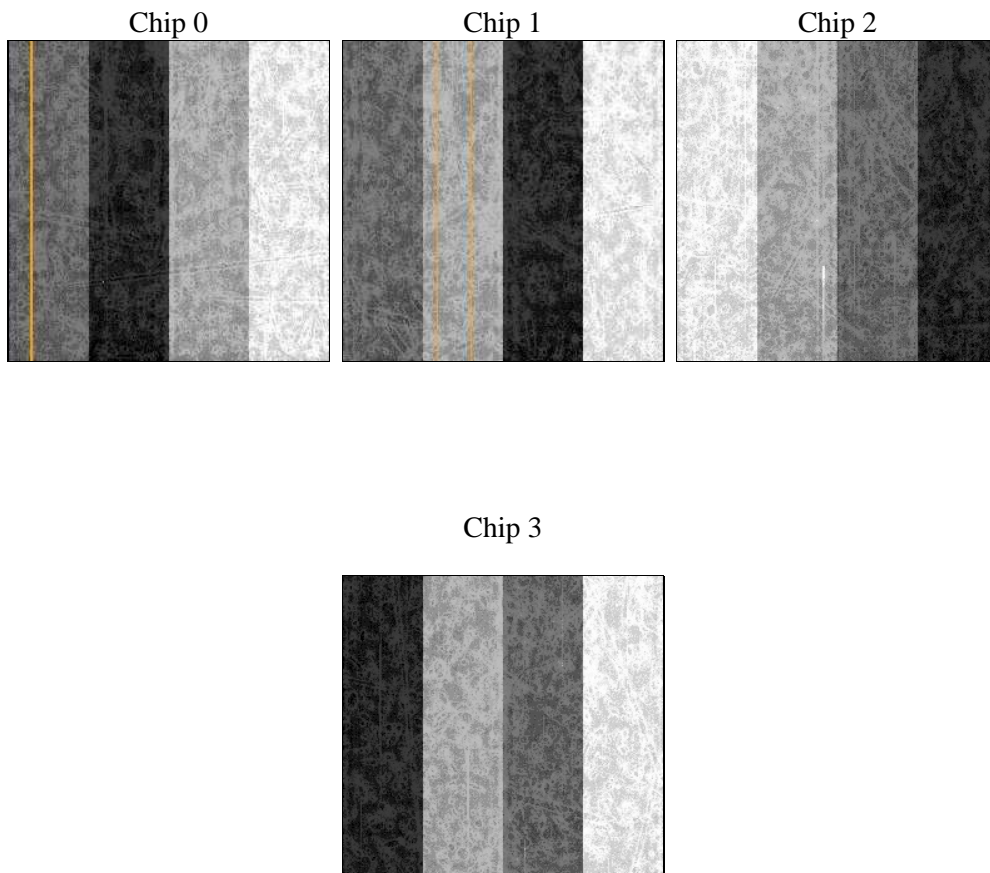
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2631.8590599298	Sum of GTIs [s]
caldsver	4.4.10	&#160	ontime0	2631.8590599298	Sum of GTIs [s]
date	2012-06-18T18:36:27	Date and time of file creation	ontime1	2635.0000202656	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2635.0000202656	Sum of GTIs [s]
			ontime3	2635.0000202656	Sum of GTIs [s]
			l1events	130934	Number of level 1 events

### 2.1.4 Events

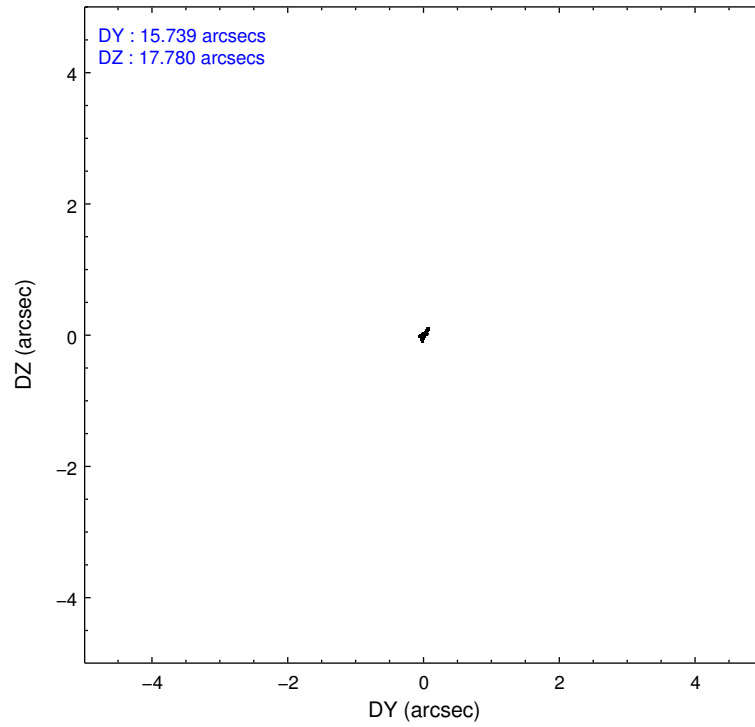
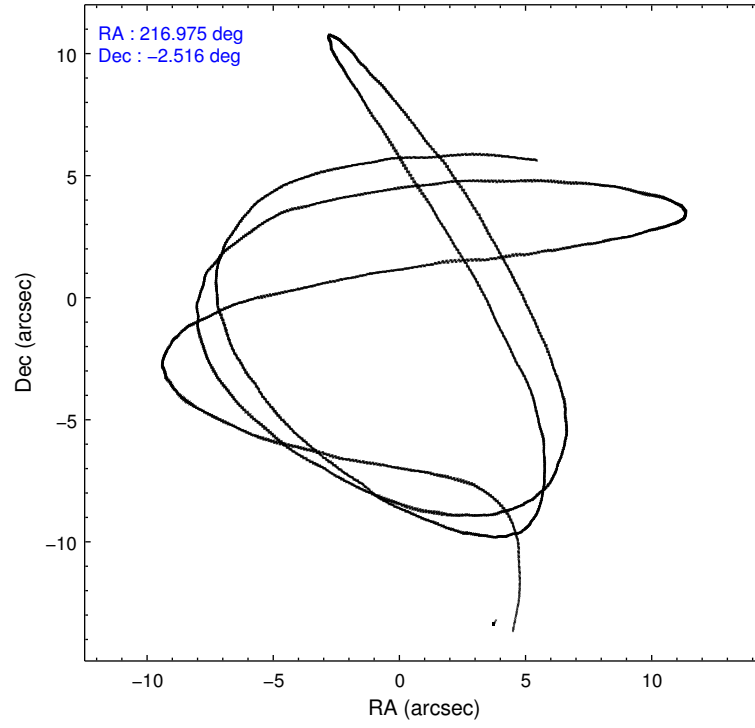
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	31617	31139	36068	32110
rejected events	29198	28537	33779	29789
rejected %	92%	91%	93%	92%

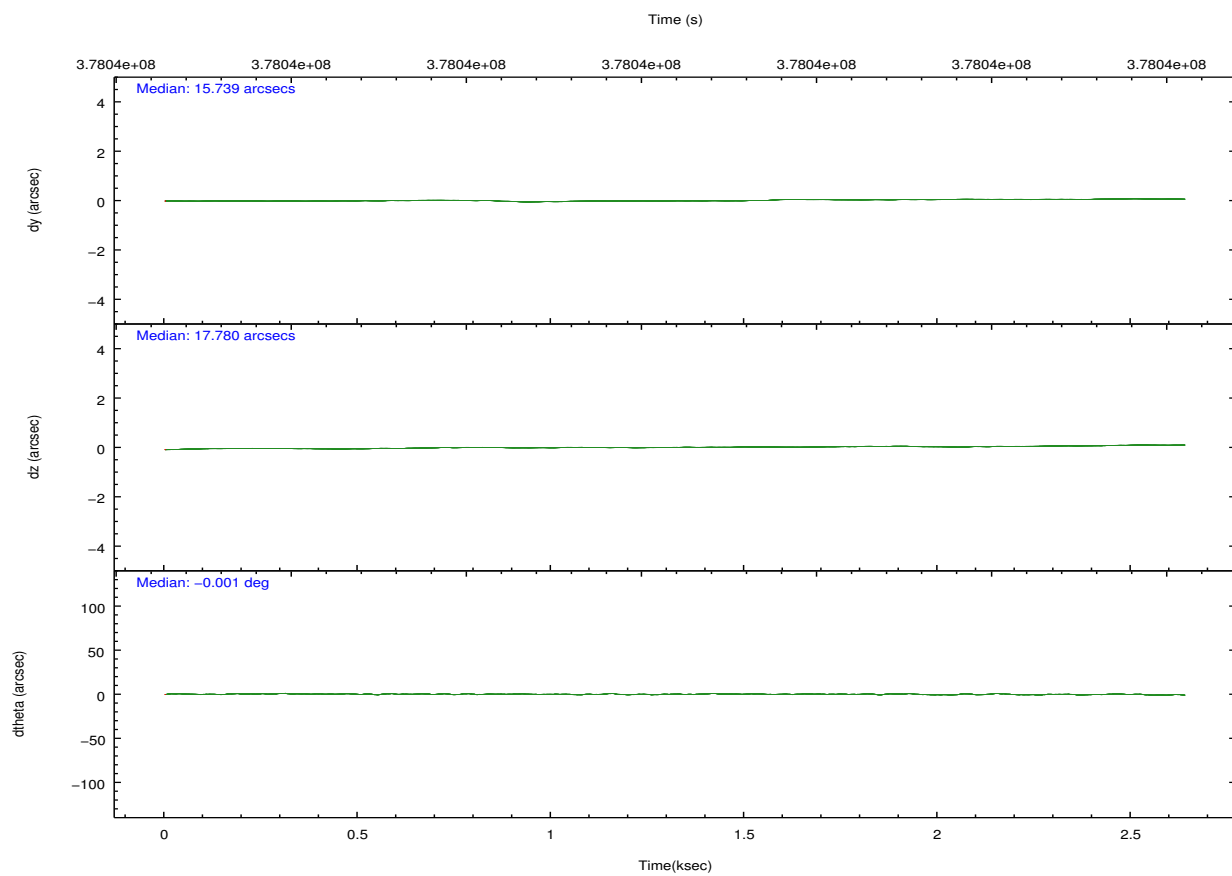
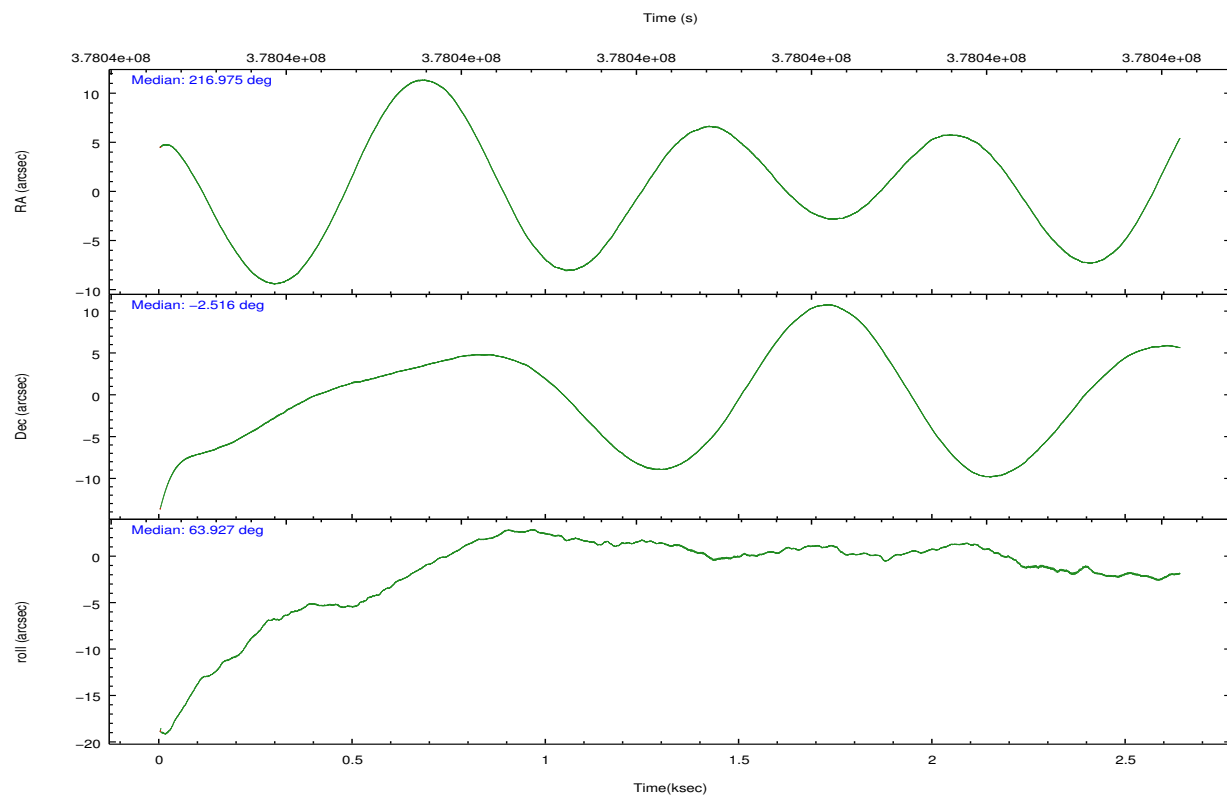
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1265	1355	1314	1251
	4%	4%	3%	3%
grade 1 events	19	17	24	20
	0%	0%	0%	0%
grade 2 events	874	955	810	773
	2%	3%	2%	2%
grade 3 events	404	391	365	356
	1%	1%	1%	1%
grade 4 events	390	421	378	382
	1%	1%	1%	1%
grade 5 events	1273	1379	1192	1374
	4%	4%	3%	4%
grade 6 events	681	811	640	681
	2%	2%	1%	2%
grade 7 events	26711	25810	31345	27273
	84%	82%	86%	84%

## 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	216.976894	216.9746992064215	Subarray requested	NONE	NONE
[deg] Pointing Dec	-2.543391	-2.516116449037111	Alternating exposures requested	N	N
[deg] Pointing Roll	63.721431	63.92998280893255	[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)	378036910.184000	378035365.21605			
Observation start date	2009-12-24T10:14:04	2009-12-24T09:49:25			
[s] Observation end time (MET)	378039410.184000	378039639.46626			
Observation end date	2009-12-24T10:55:44	2009-12-24T11:00:39			
Read mode	TIMED	TIMED			

## 2.3 Aspect





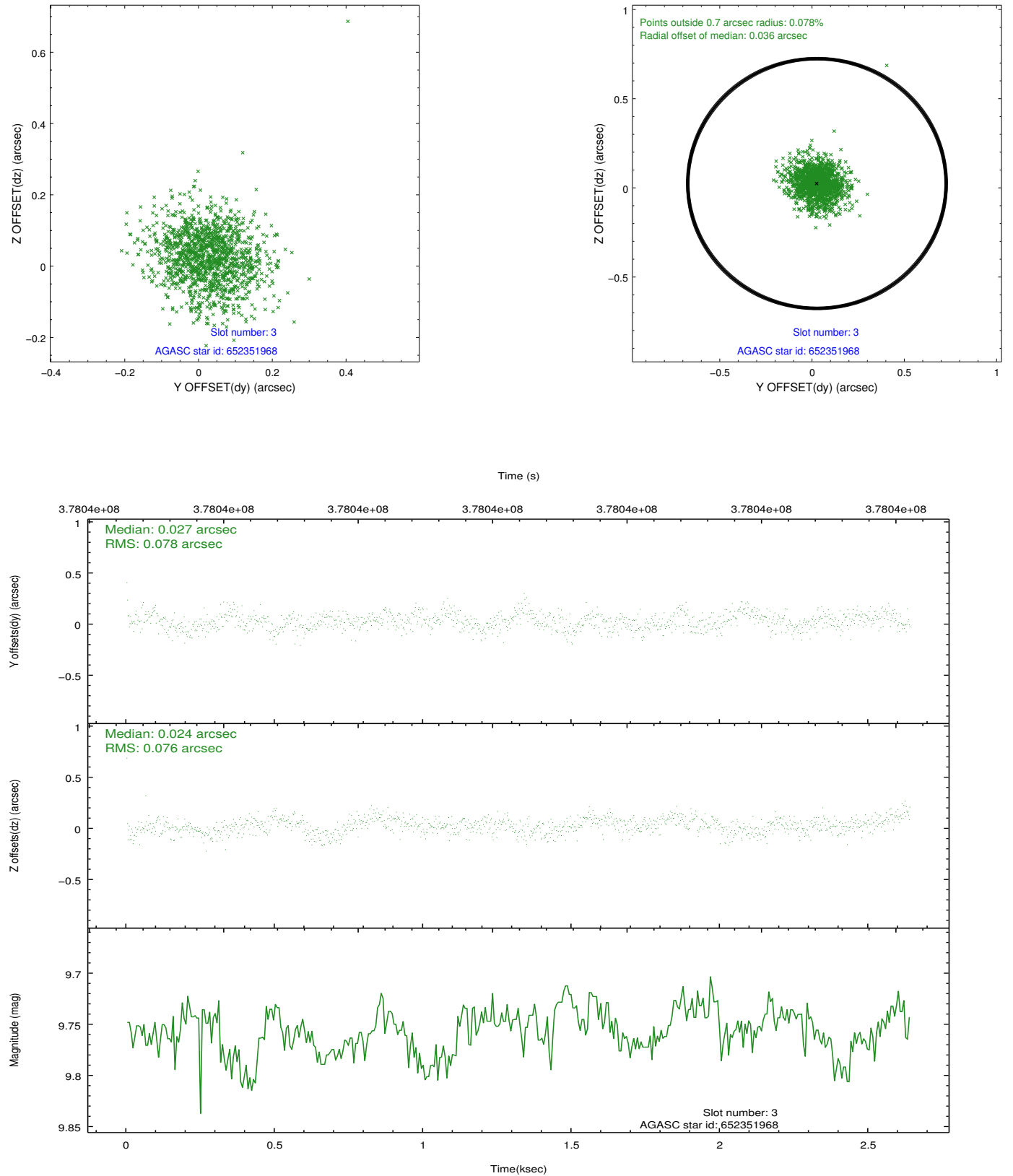
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	6.99	644	0.032	0.025	0.006	0.011	0.000000	0.000000	923.71	-841.44
1	FID	ACIS-I-5	6.98	644	-0.183	0.053	0.006	0.009	0.000000	0.000000	-1823.25	1054.87
2	FID	ACIS-I-6	7.00	644	0.059	-0.008	0.006	0.010	0.000000	0.000000	386.64	1702.06
3	GUIDE	652351968	9.76	1287	0.027	0.024	0.114	0.188	217.366565	-2.169776	1826.56	-662.48
4	GUIDE	652740048	9.18	1288	0.145	-0.178	0.116	0.180	216.807916	-2.690840	-742.28	309.57
5	GUIDE	652741536	8.38	1288	0.094	0.176	0.070	0.116	216.950009	-3.079765	-1773.49	-768.18
6	GUIDE	652741808	9.56	1287	-0.006	0.170	0.129	0.220	217.243448	-2.566828	348.41	-898.00
7	GUIDE	652354384	7.83	1287	-0.269	-0.182	0.074	0.121	216.833341	-1.739091	2368.60	1744.22

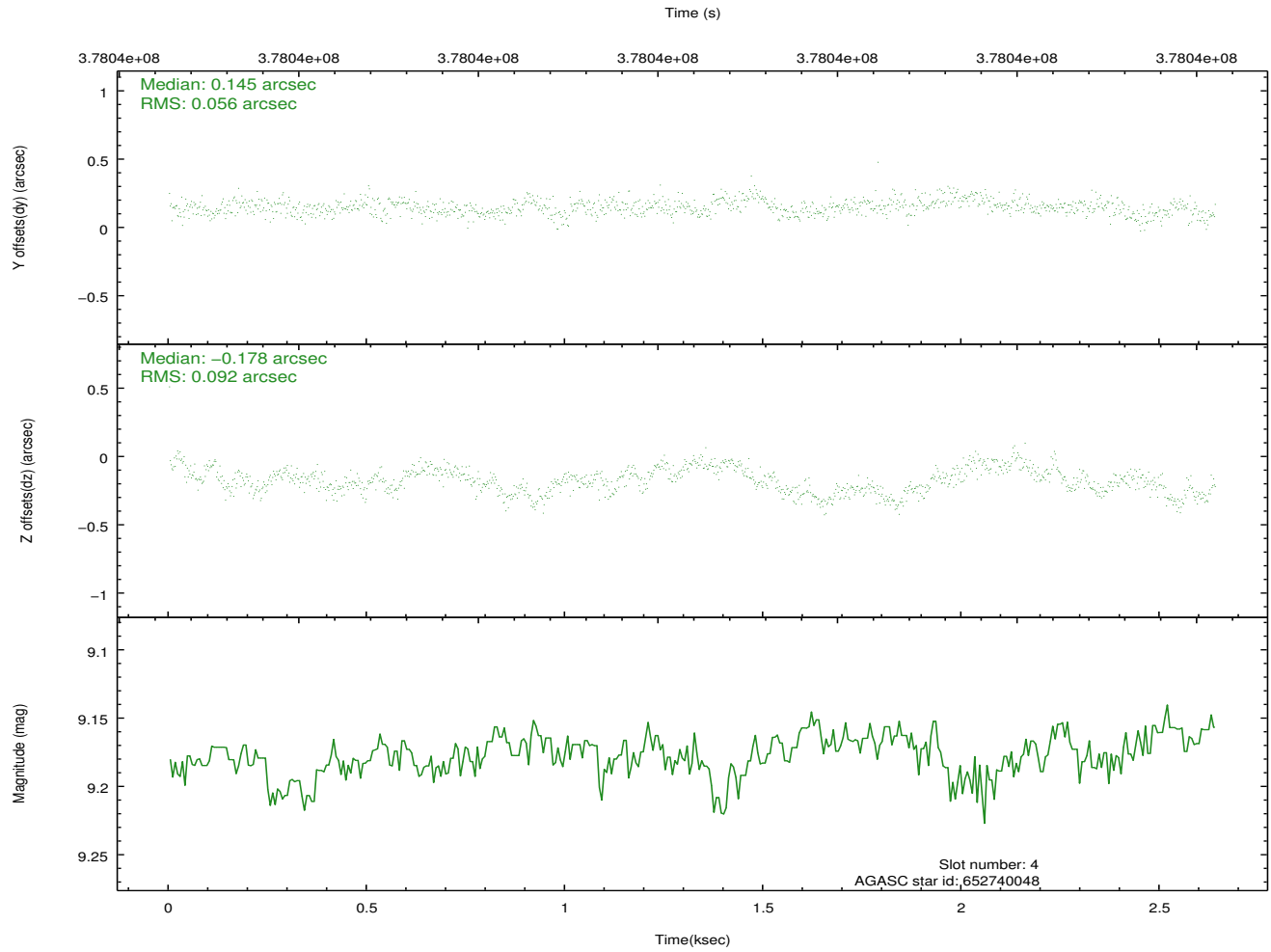
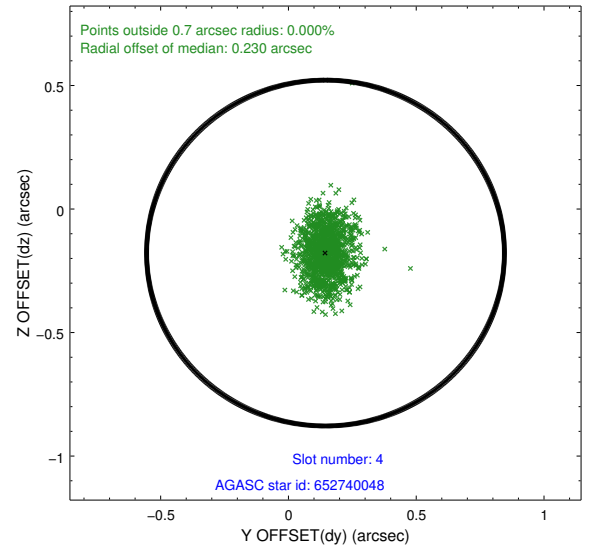
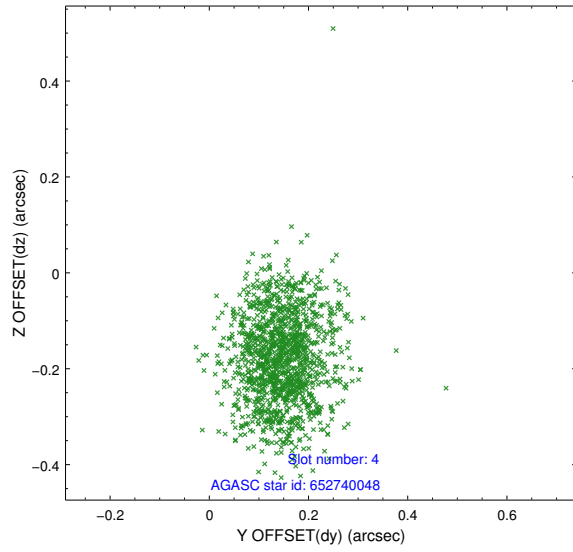


## 2.4 Star Slots

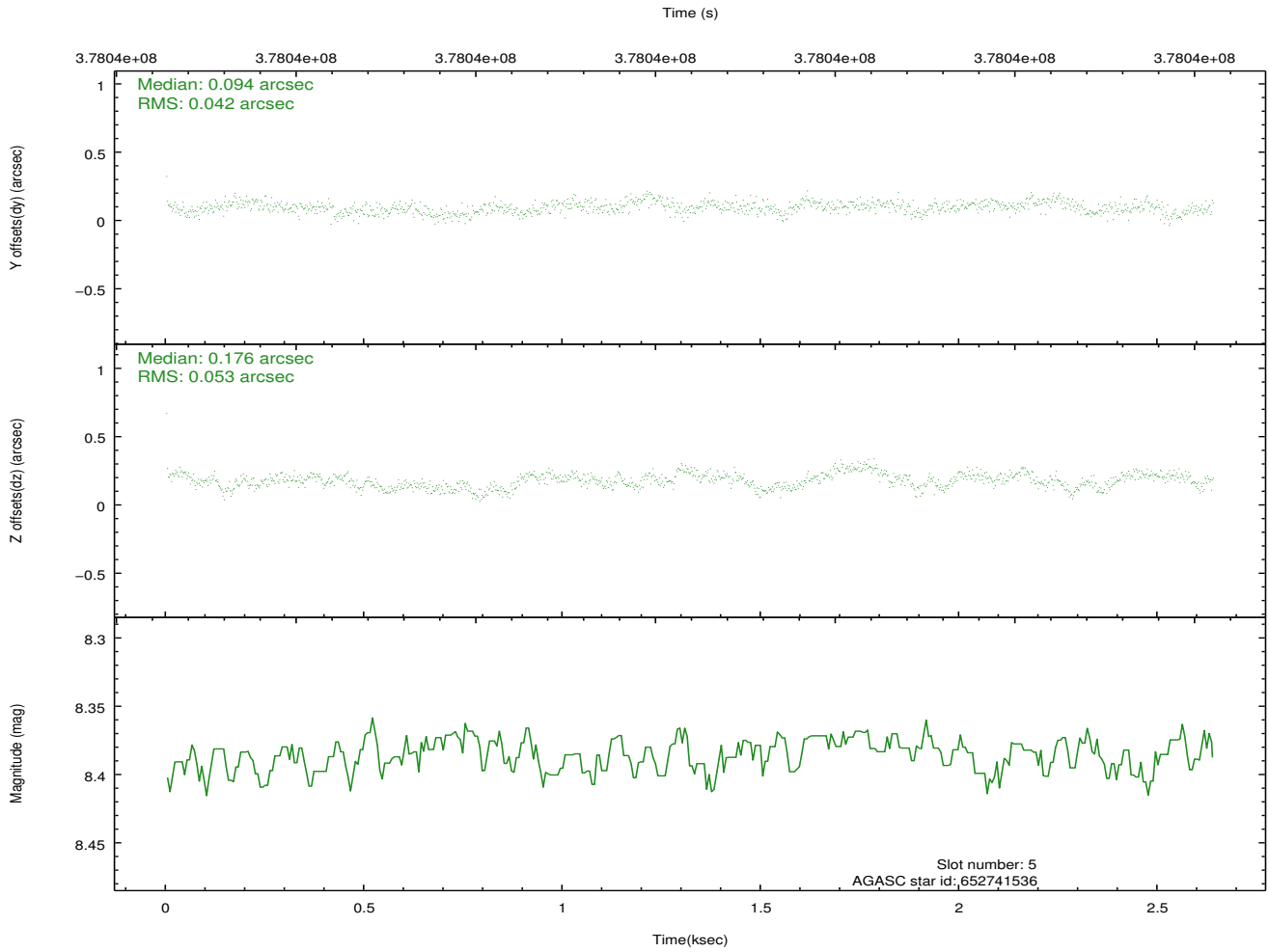
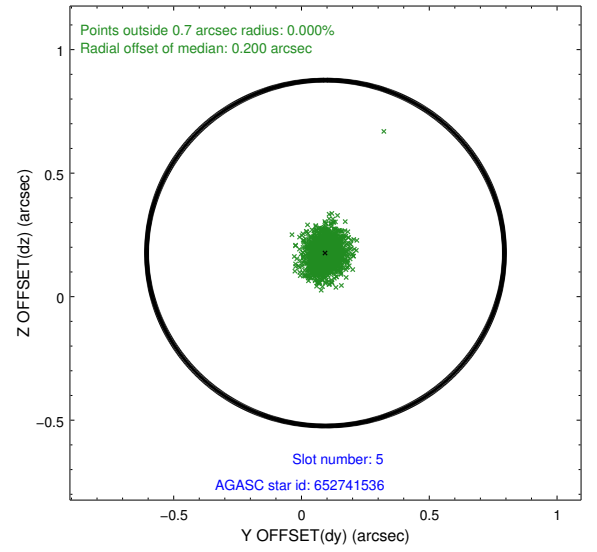
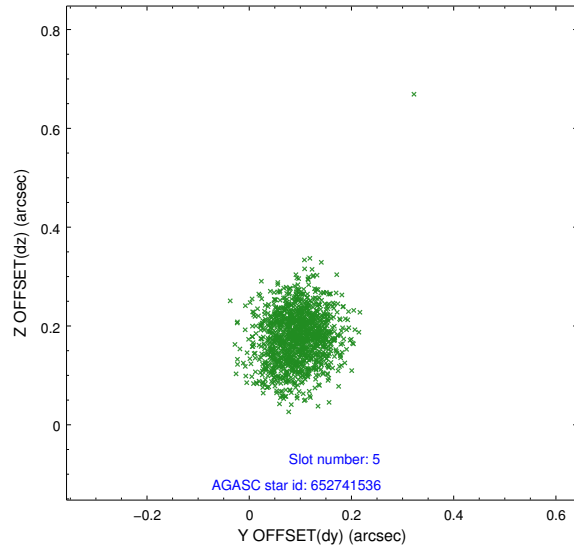
### 2.4.1 Slot 3



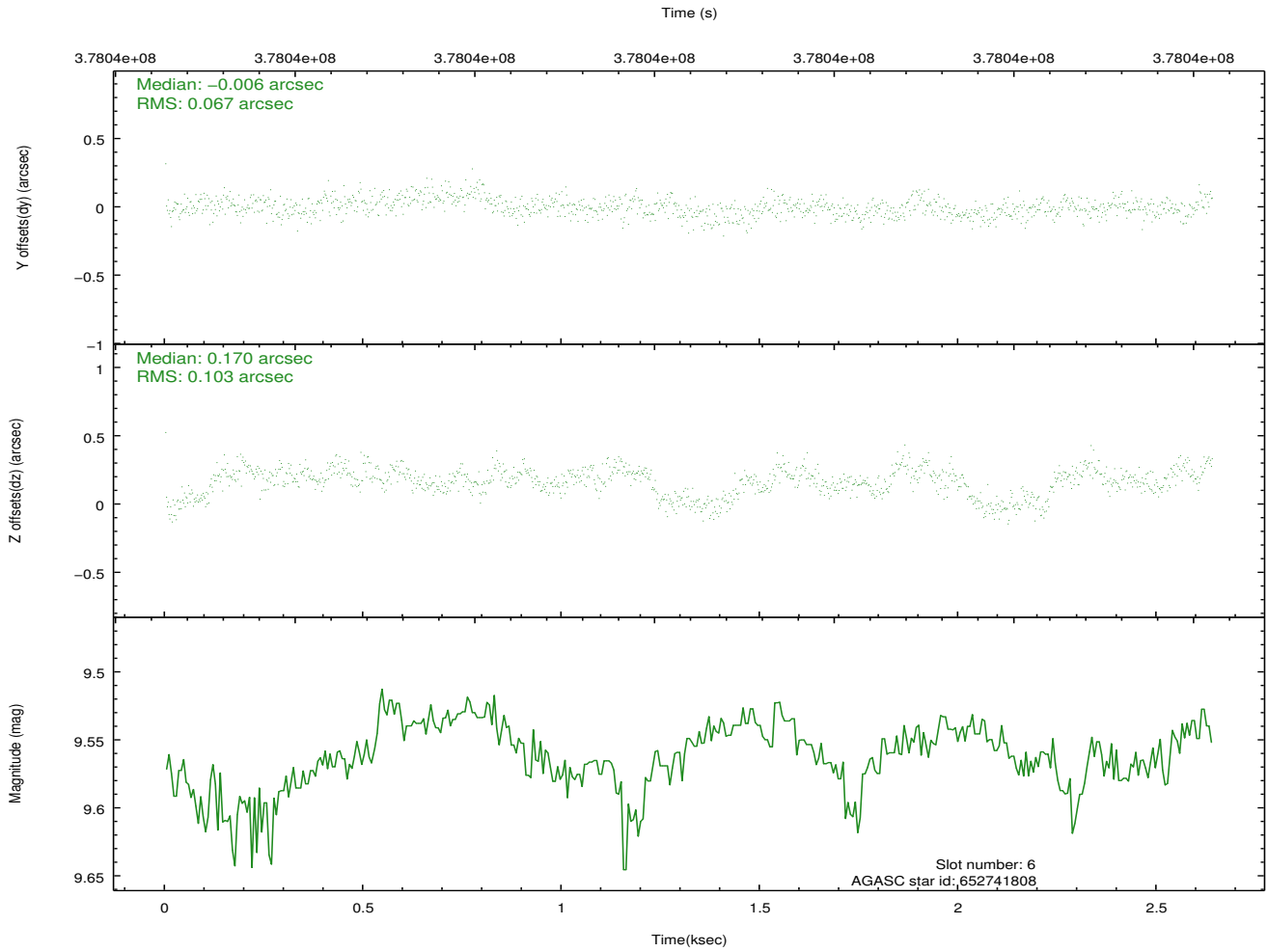
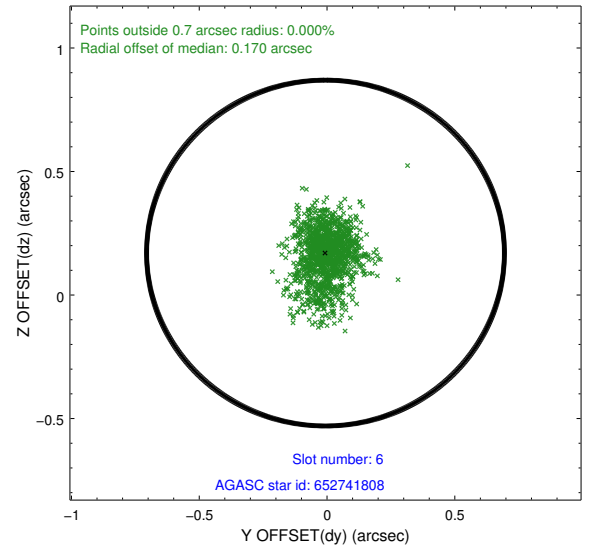
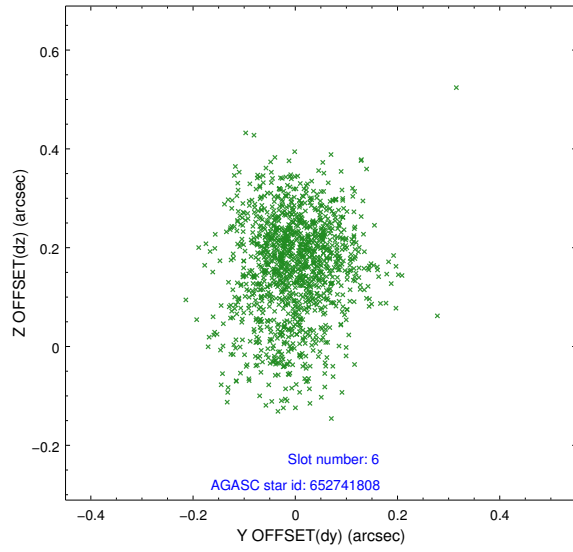
## 2.4.2 Slot 4



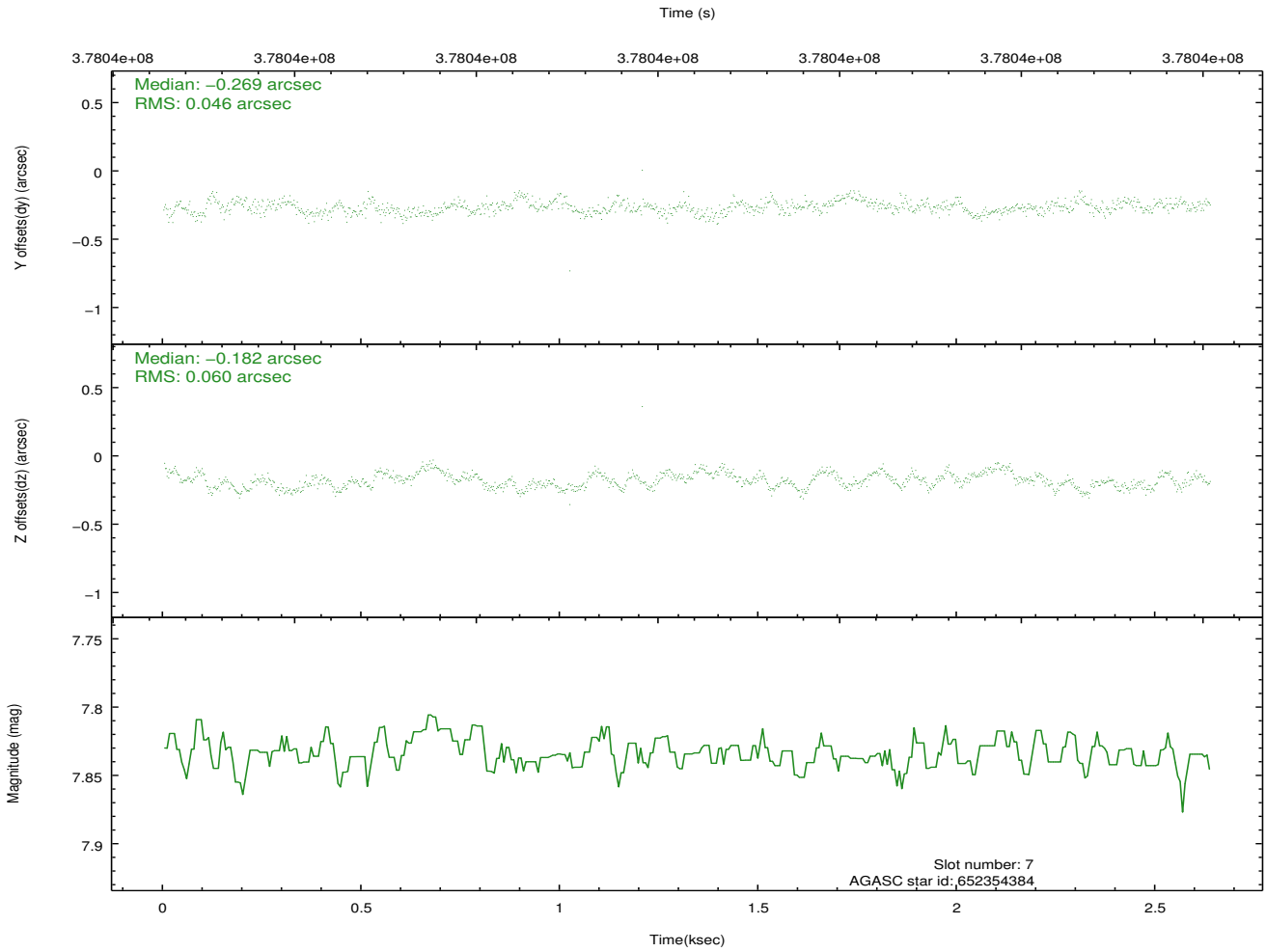
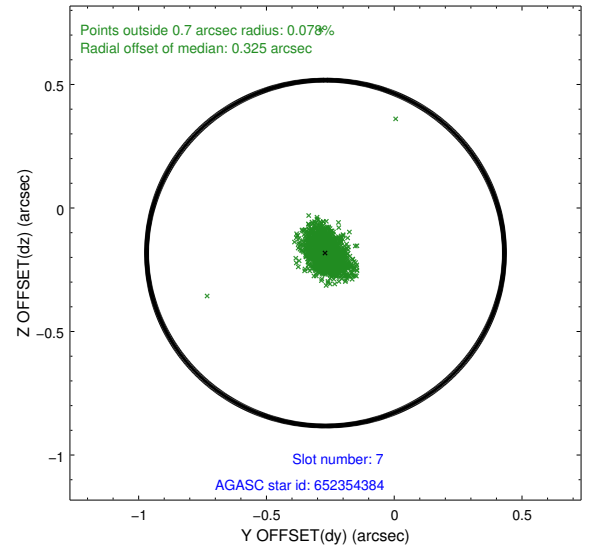
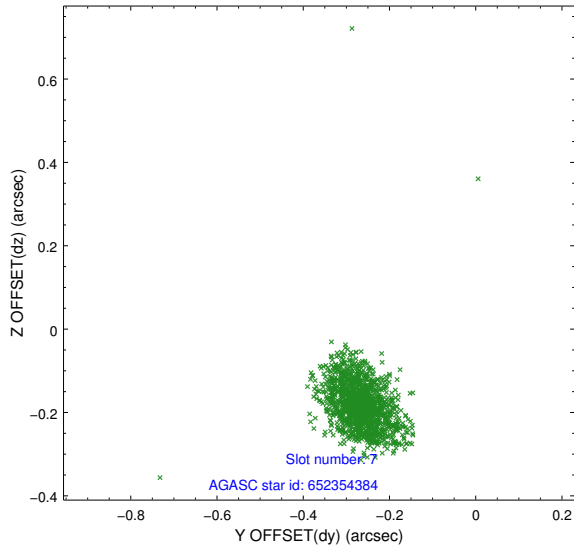
### 2.4.3 Slot 5



## 2.4.4 Slot 6

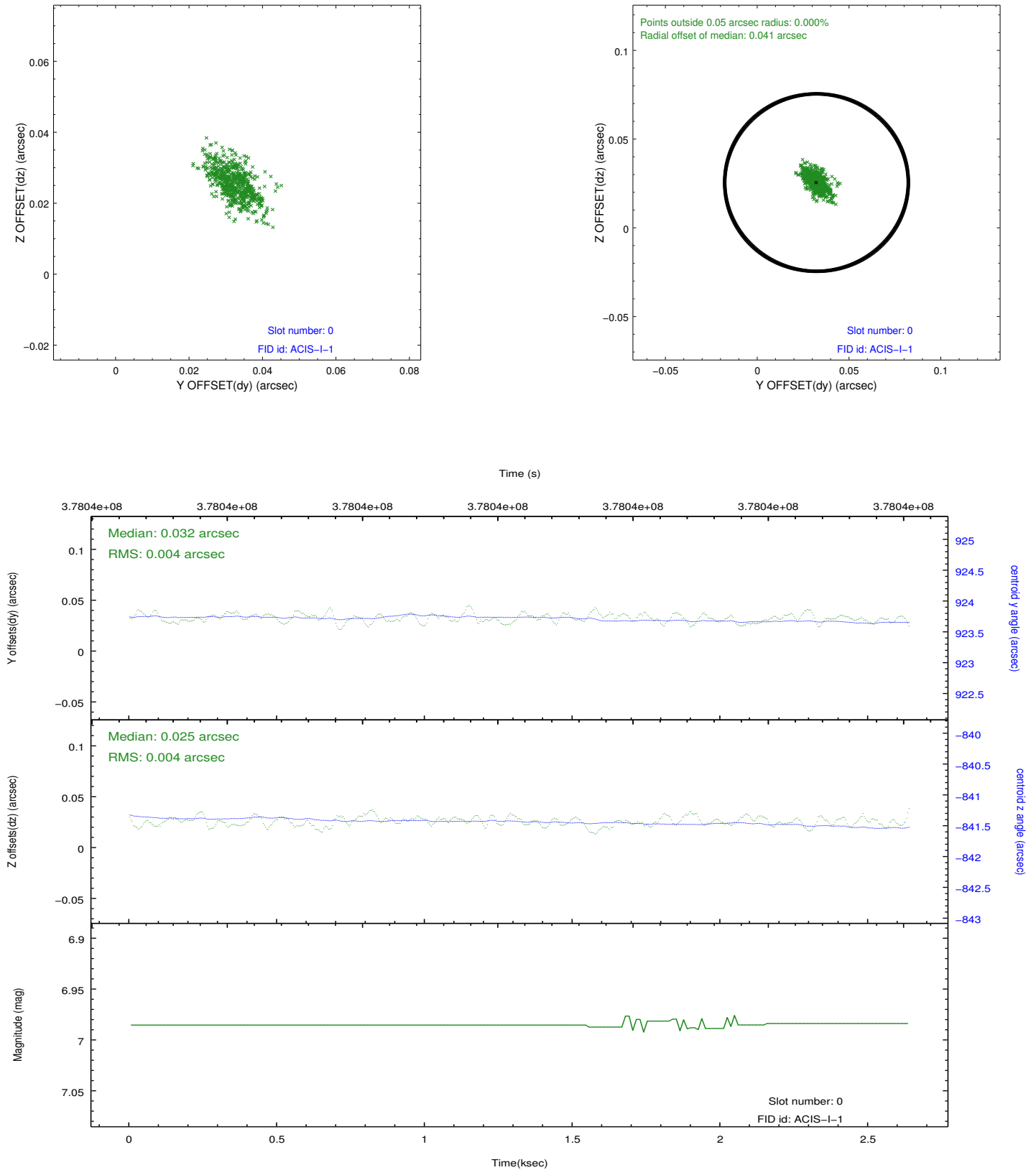


## 2.4.5 Slot 7

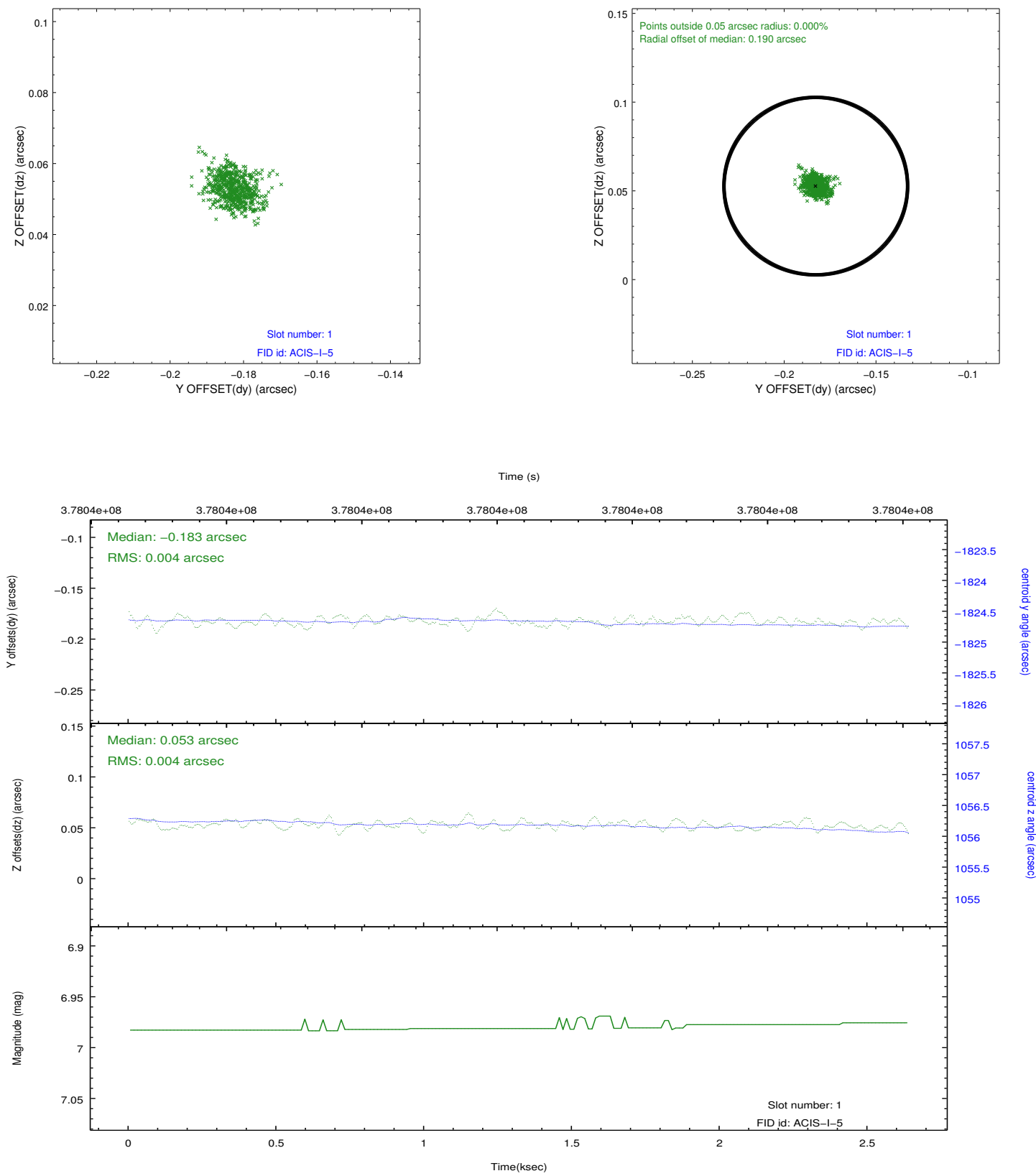


## 2.5 FID Slots

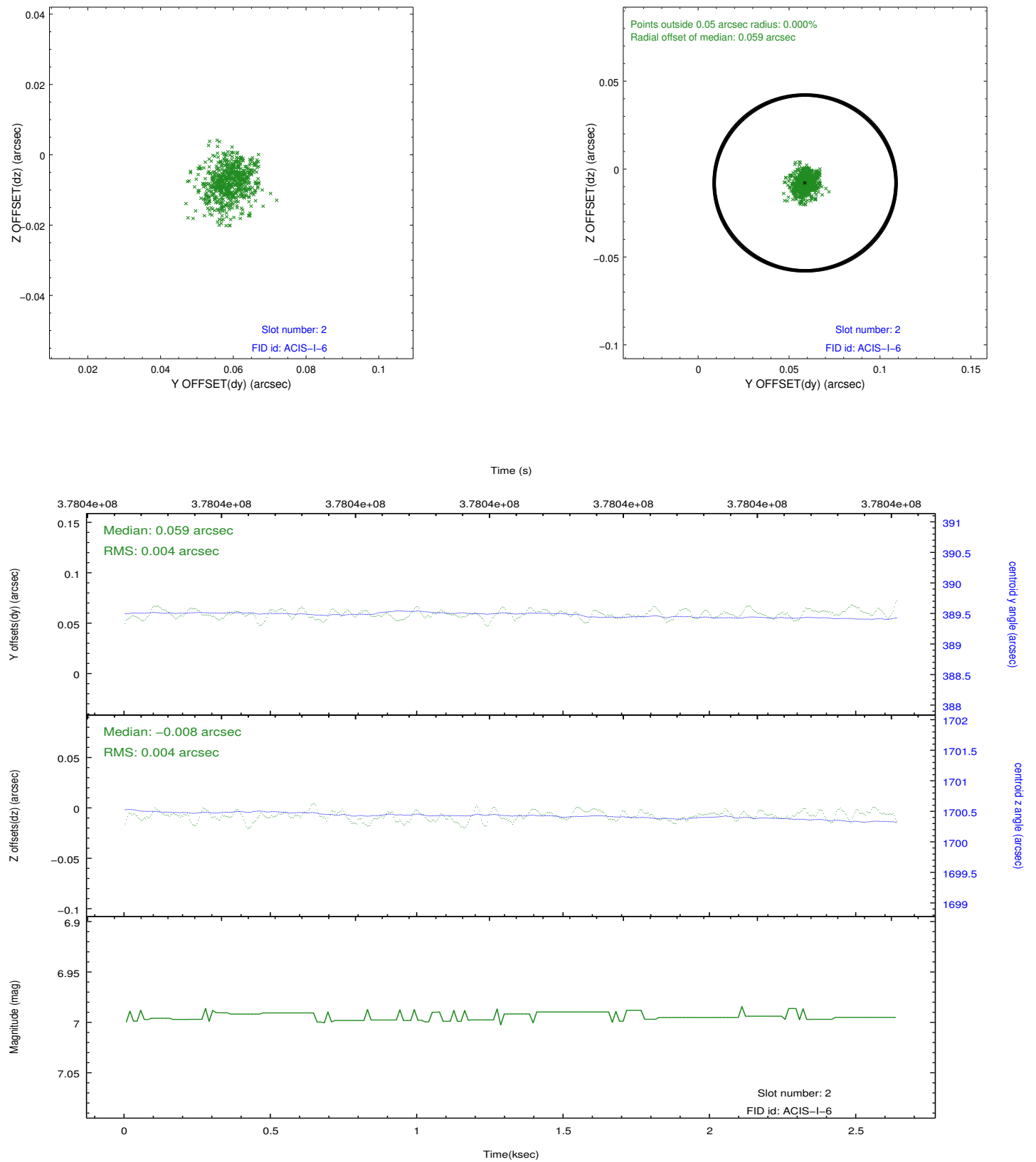
### 2.5.1 Slot 0



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)	2012.06.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.6318590598702

### A.2 Comments