

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 5181 - L2 Version 3  
Chandra X-Ray Center

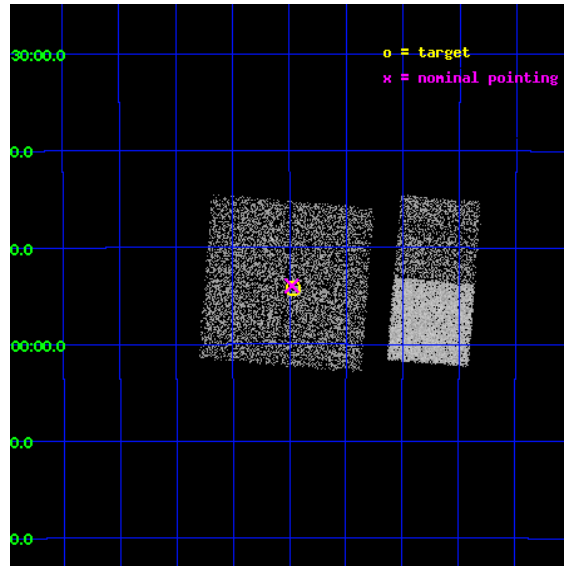
L2 Processing Date : Nov 30 2012

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# 1 Front

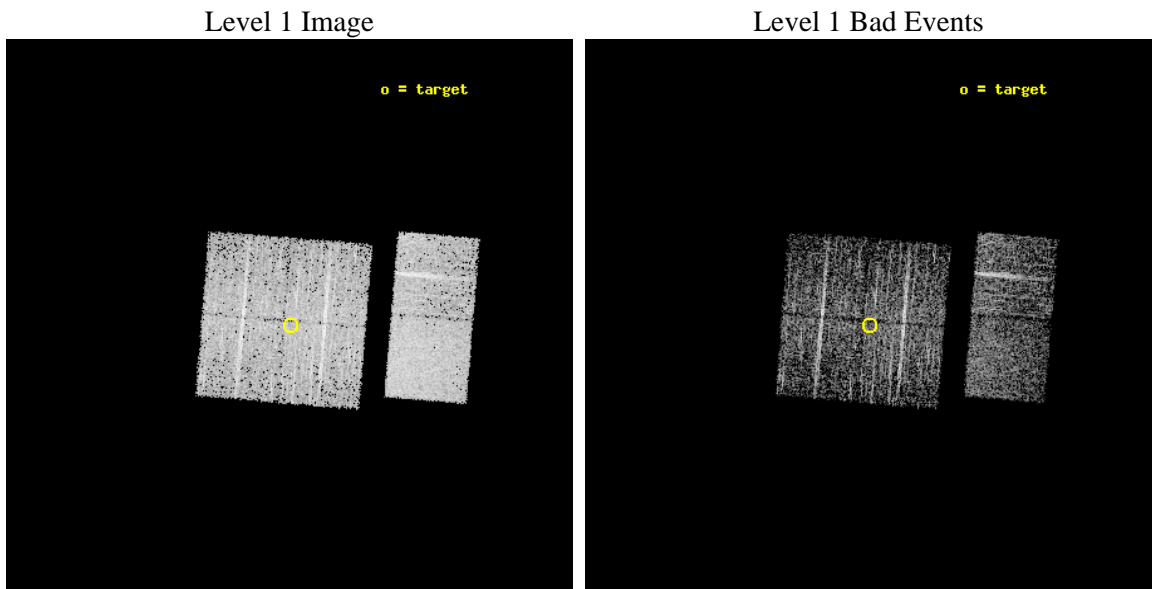
seq_num	200289	Sequence number
obs_id	5181	Observation id
title	Alternate - Search for beta Pic analogs extension	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	alpha CrA	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	287.367917	Observer's specified target RA [deg]
dec_targ	-37.904167	Observer's specified target Dec [deg]
ra_nom	287.36956185112	Nominal RA [deg]
dec_nom	-37.899621878651	Nominal Dec [deg]
roll_nom	94.733262533731	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3183.9999881387	Sum of GTIs [s]
livetime	3143.6822631142	Livetime [s]
ontime0	3183.9999881387	Sum of GTIs [s]
ontime1	3183.9999881387	Sum of GTIs [s]
ontime2	3183.9999881387	Sum of GTIs [s]
ontime3	3183.9999881387	Sum of GTIs [s]
ontime6	3183.9999881387	Sum of GTIs [s]
ontime7	3183.9999881387	Sum of GTIs [s]
l2events	24657	Number of level 2 events



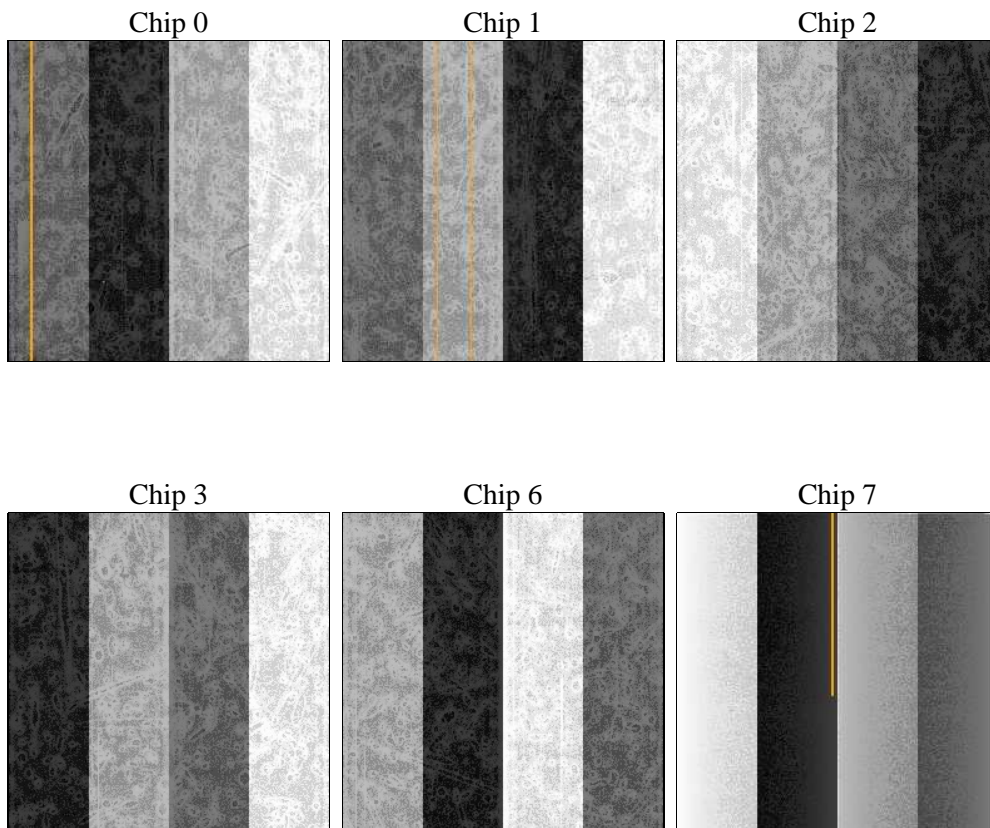
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3183.9999881387	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	3183.9999881387	Sum of GTIs [s]
date	2012-11-30T13:57:57	Date and time of file creation	ontime1	3183.9999881387	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	3183.9999881387	Sum of GTIs [s]
			ontime3	3183.9999881387	Sum of GTIs [s]
			ontime6	3183.9999881387	Sum of GTIs [s]
			ontime7	3183.9999881387	Sum of GTIs [s]
			l1events	155250	Number of level 1 events

### 2.1.4 Events

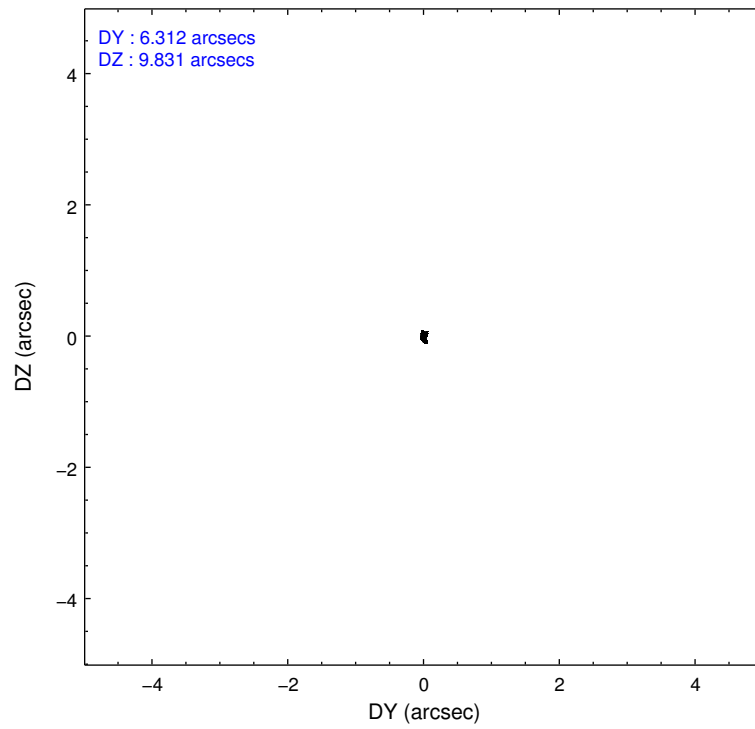
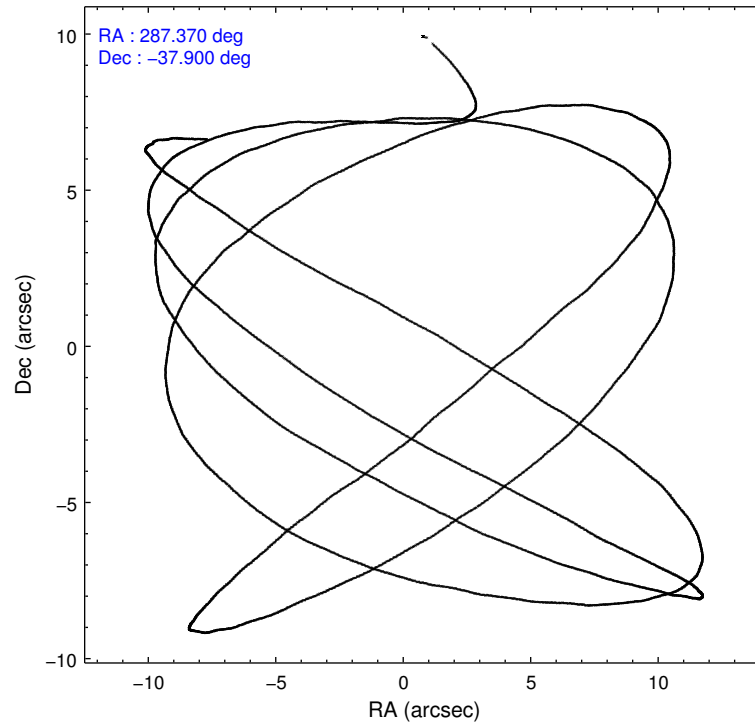
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	21944	23655	24661	26191	25253	33546	grade 0 events	1448	1324	1443	1385	1289	1209
rejected events	18958	20686	21854	23325	22466	20963		6%	5%	5%	5%	5%	3%
rejected %	86%	87%	88%	89%	88%	62%	grade 1 events	13	10	14	19	8	23
								0%	0%	0%	0%	0%	0%
							grade 2 events	724	769	650	611	691	2893
								3%	3%	2%	2%	2%	8%
							grade 3 events	308	274	267	302	257	1325
								1%	1%	1%	1%	1%	3%
							grade 4 events	278	300	264	307	271	1262
								1%	1%	1%	1%	1%	3%
							grade 5 events	955	1043	987	1111	1136	3177
								4%	4%	4%	4%	4%	9%
							grade 6 events	582	647	509	563	600	7255
								2%	2%	2%	2%	2%	21%
							grade 7 events	17636	19288	20527	21893	21001	16402
								80%	81%	83%	83%	83%	48%

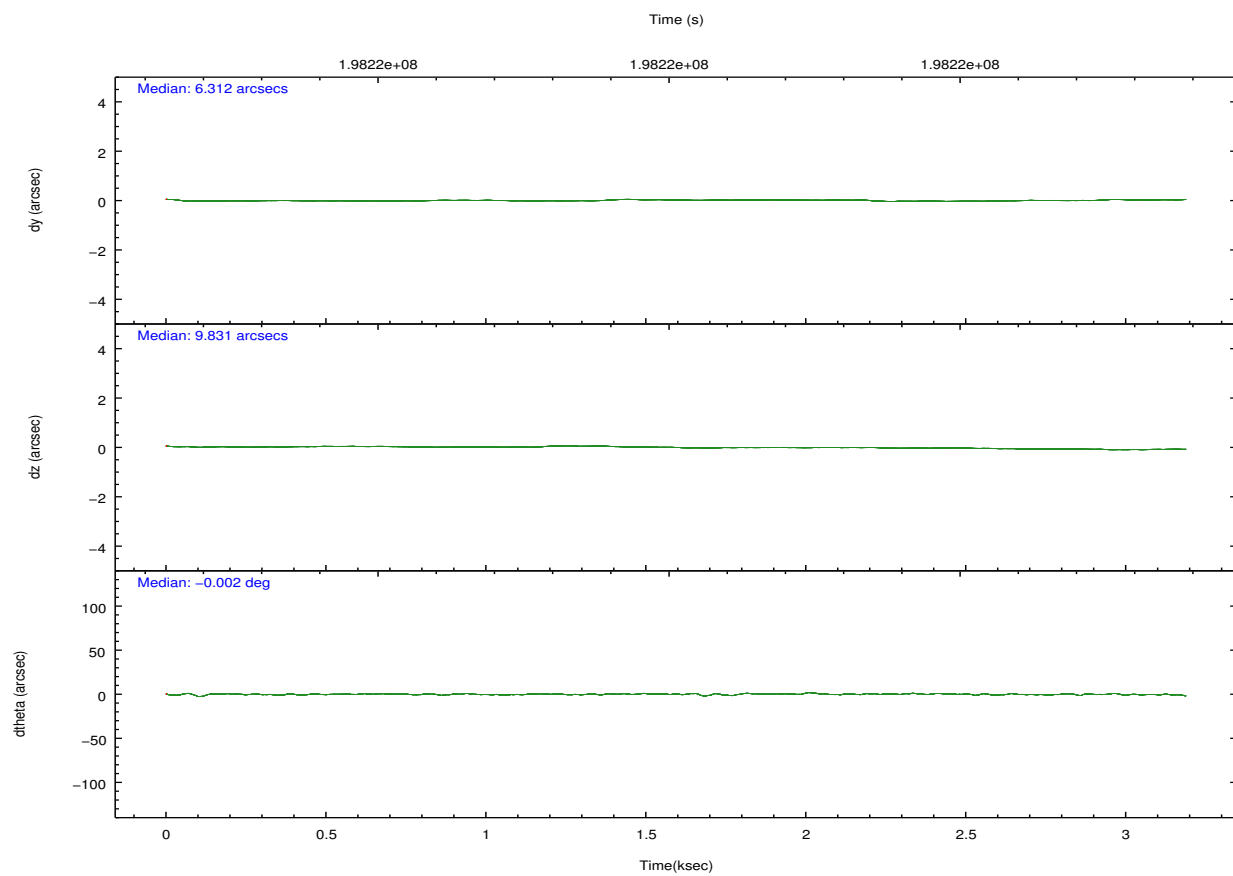
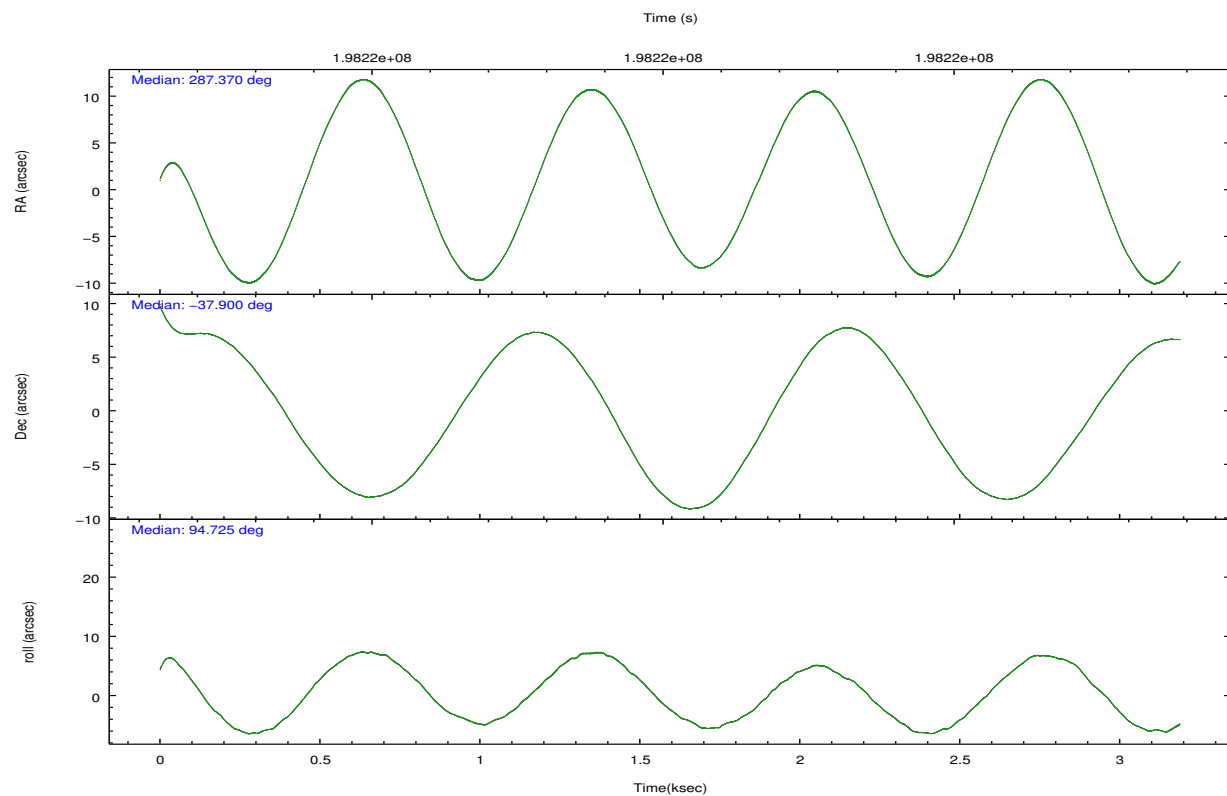
## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	287.389645	287.3695618511153
[deg] Pointing Dec	-37.922202	-37.8996218786506
[deg] Pointing Roll	94.536904	94.73326253373094
[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)	198218622.184000	198215988.1506
Observation start date	2004-04-13T04:42:38	2004-04-13T03:59:48
[s] Observation end time (MET)	198221622.184000	198222711.6384
Observation end date	2004-04-13T05:32:38	2004-04-13T05:51:51
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

## 2.3 Aspect





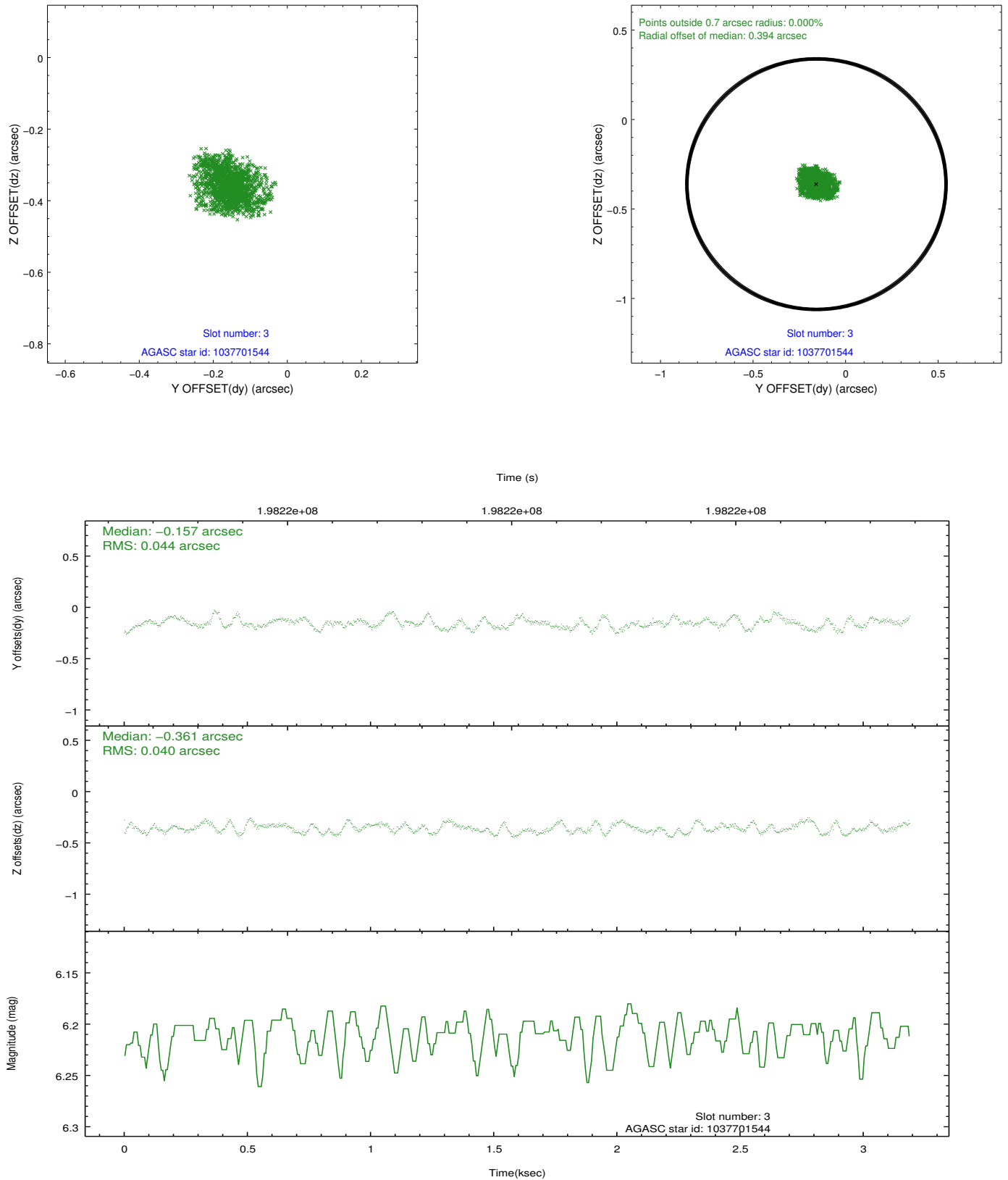
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	778	-0.020	0.027	0.008	0.016	0.000000	0.000000	933.36	-833.26
1	FID	ACIS-I-4	7.18	778	0.088	0.015	0.007	0.014	0.000000	0.000000	2154.63	1065.53
2	FID	ACIS-I-5	7.22	778	-0.166	0.029	0.007	0.013	0.000000	0.000000	-1812.21	1065.67
3	GUIDE	1037701544	6.21	1556	-0.157	-0.361	0.064	0.102	286.718603	-37.810655	542.23	1871.60
4	GUIDE	1037833536	8.82	1556	0.239	0.117	0.072	0.116	287.675522	-38.433308	-1898.83	-657.35
5	GUIDE	1037834448	7.53	1556	-0.178	0.292	0.075	0.111	288.143933	-37.524035	1248.59	-2259.89
6	GUIDE	1037835640	9.00	1554	0.162	0.168	0.074	0.124	287.861941	-38.242921	-1259.13	-1241.44
7	GUIDE	1037697328	9.53	1553	-0.066	-0.222	0.126	0.195	286.775739	-37.836556	438.30	1714.70

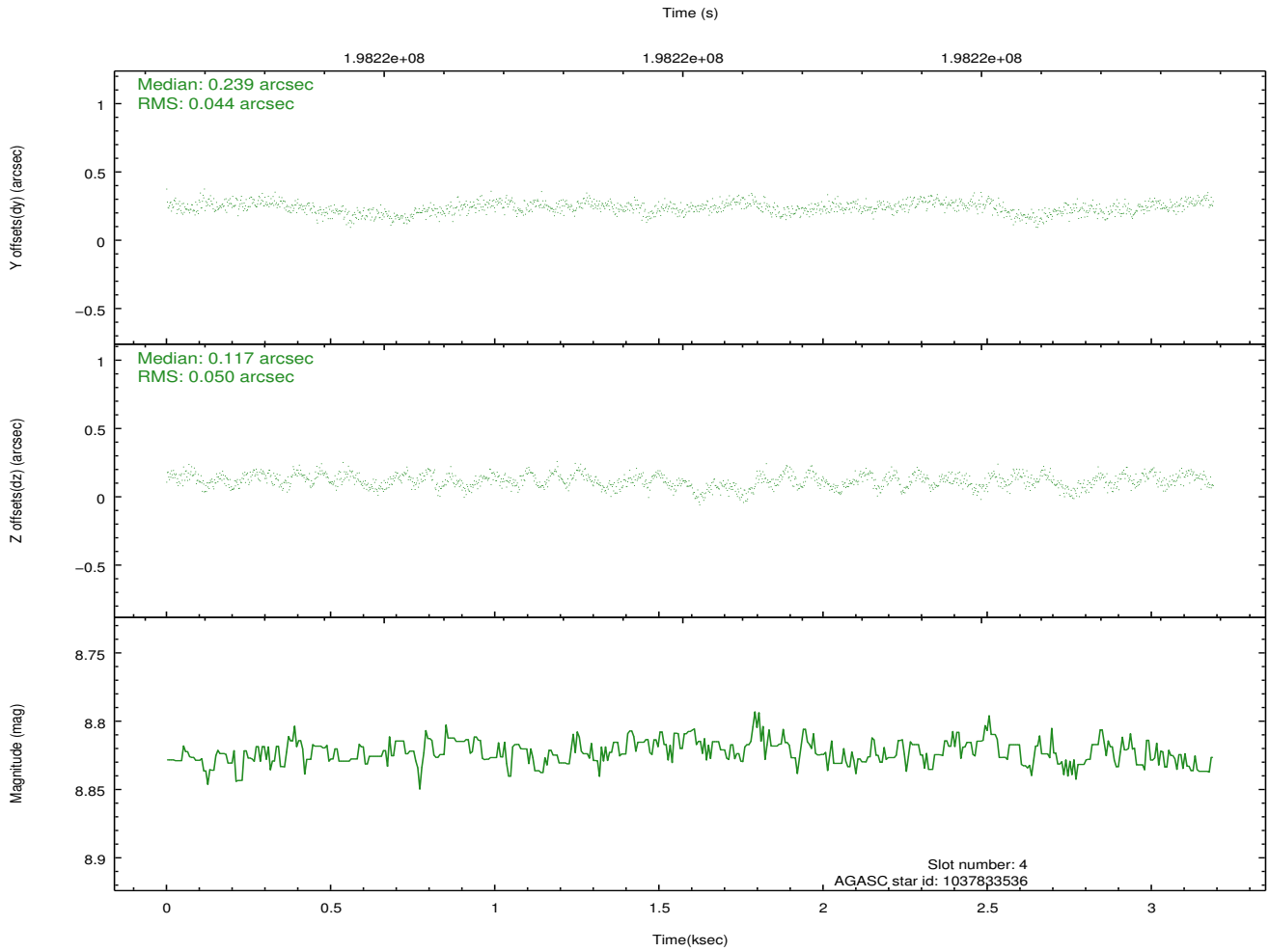
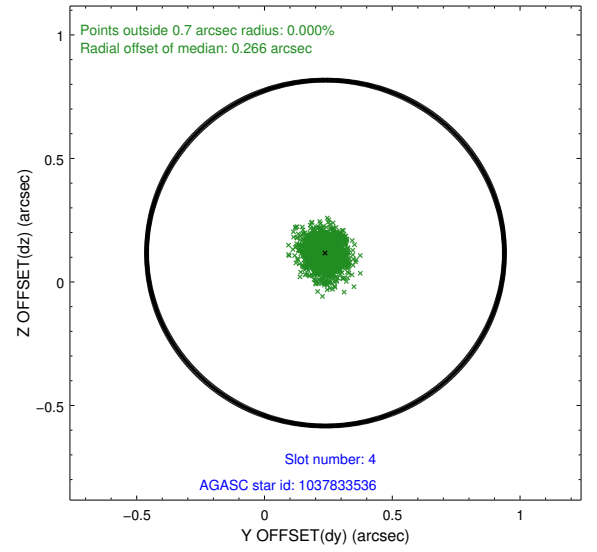
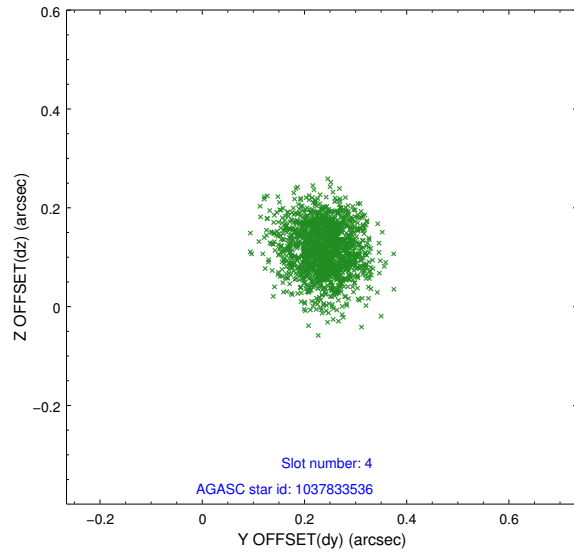


## 2.4 Star Slots

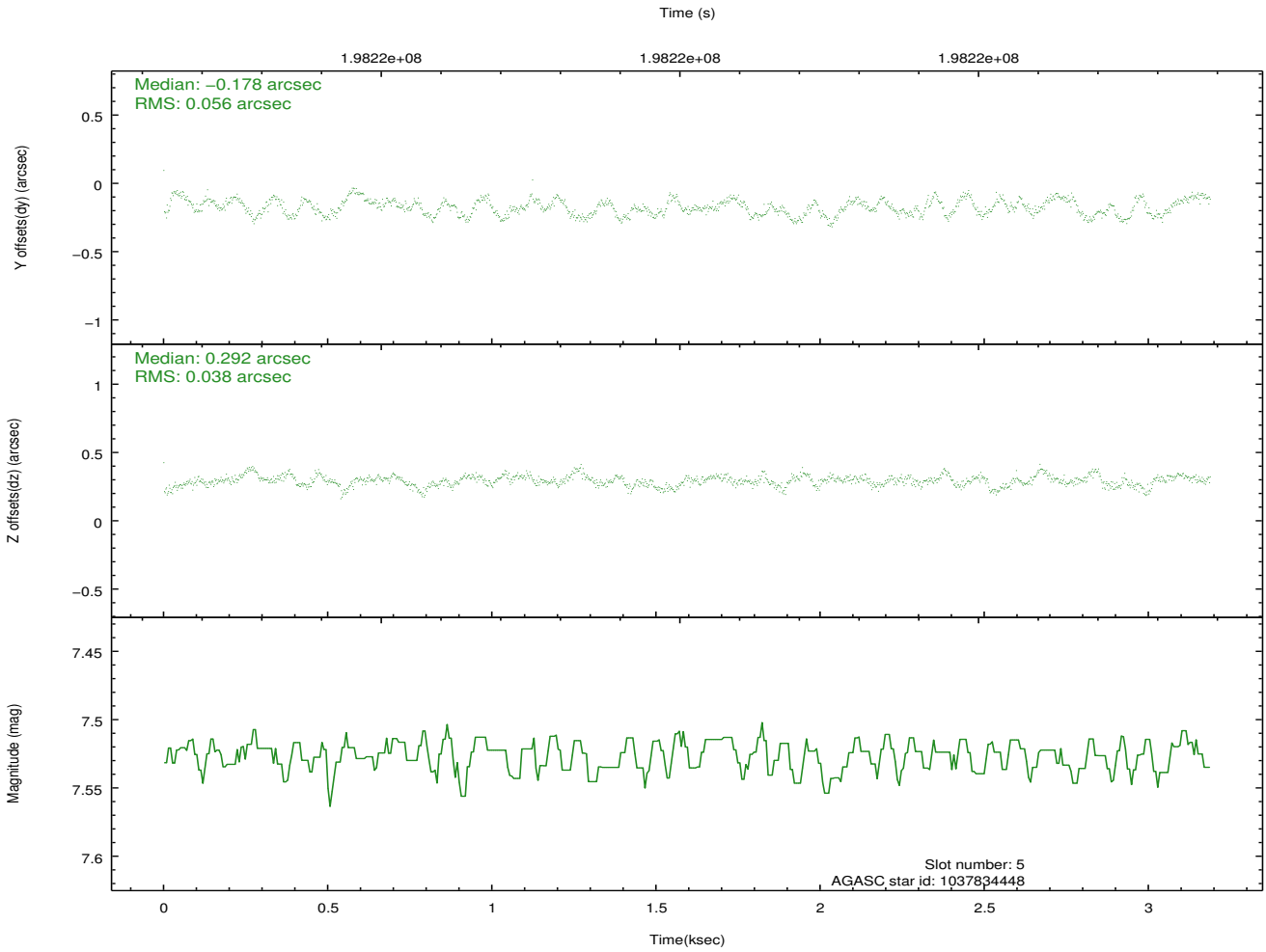
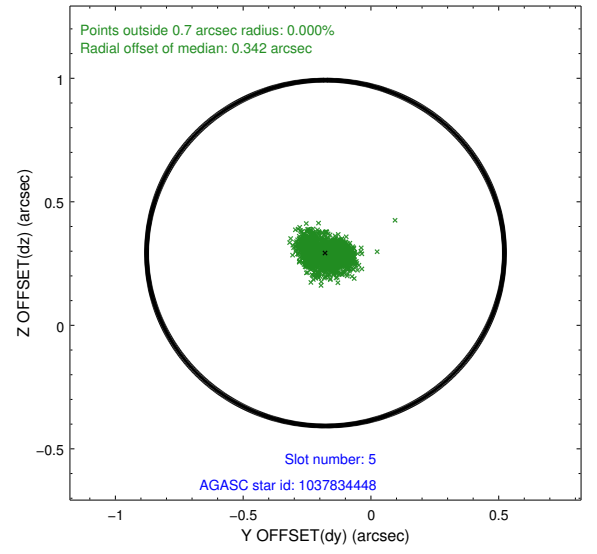
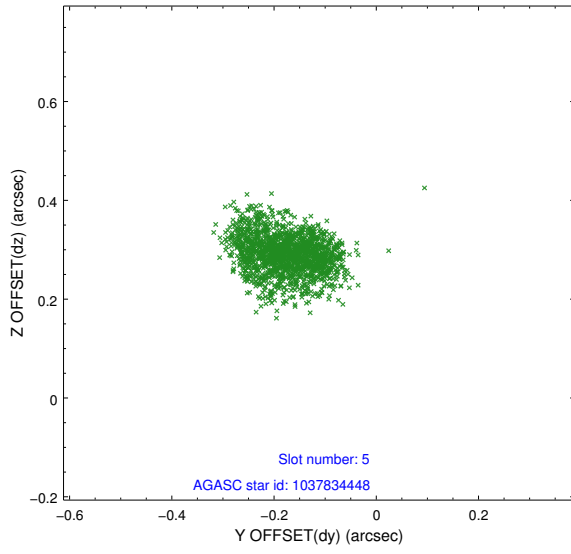
### 2.4.1 Slot 3



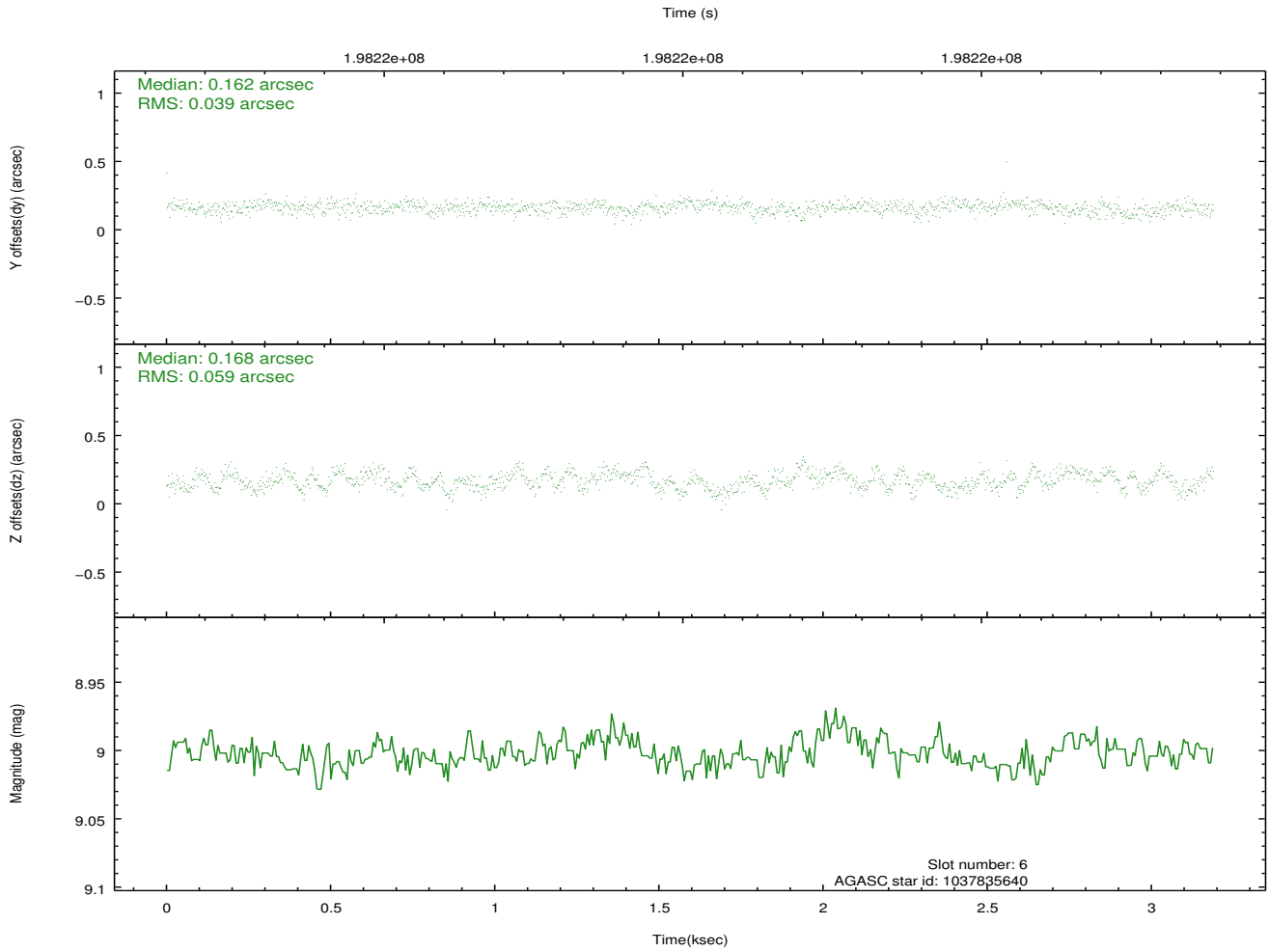
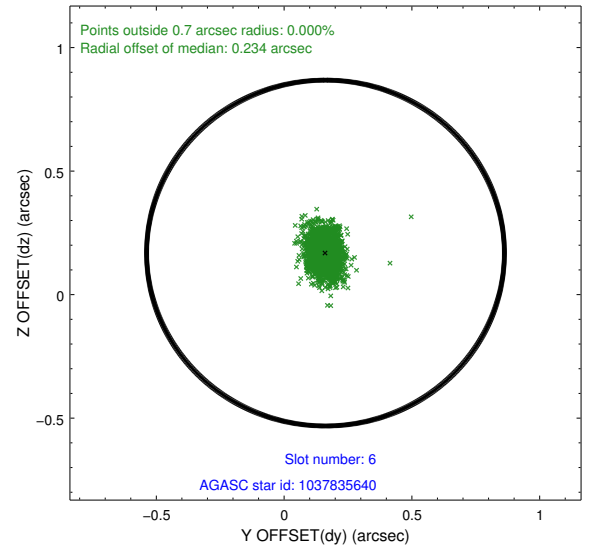
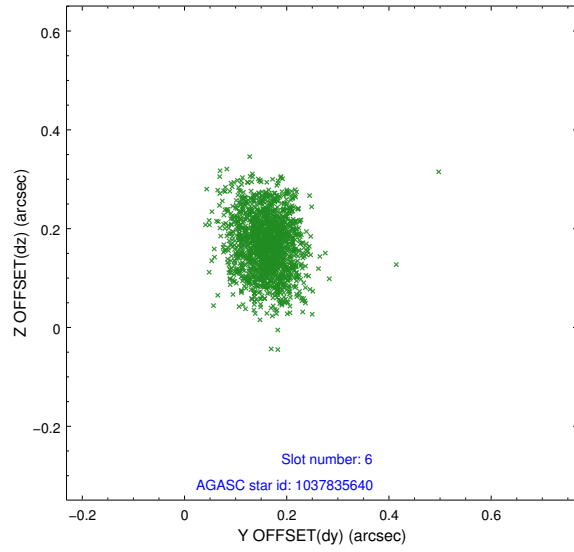
## 2.4.2 Slot 4



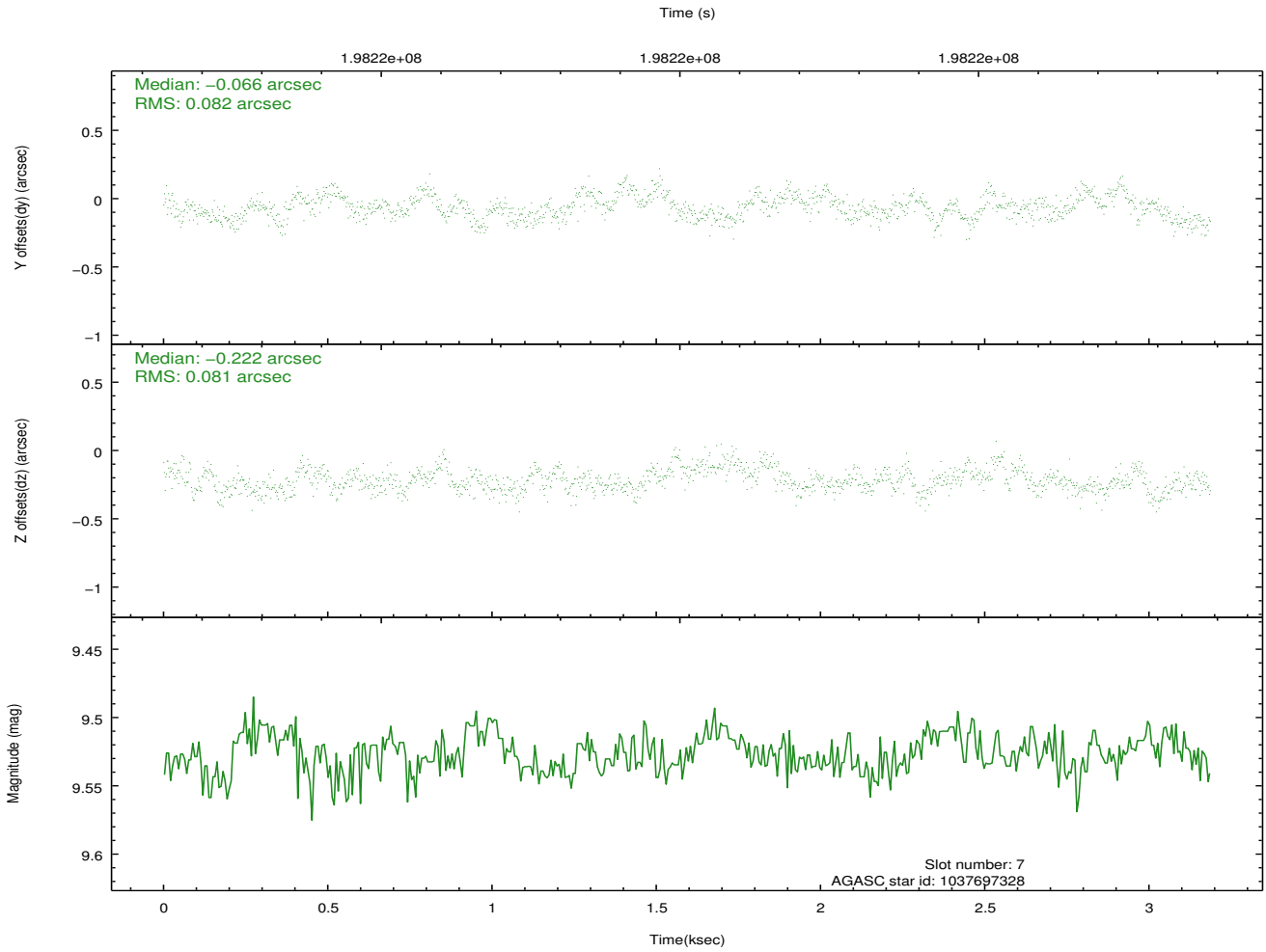
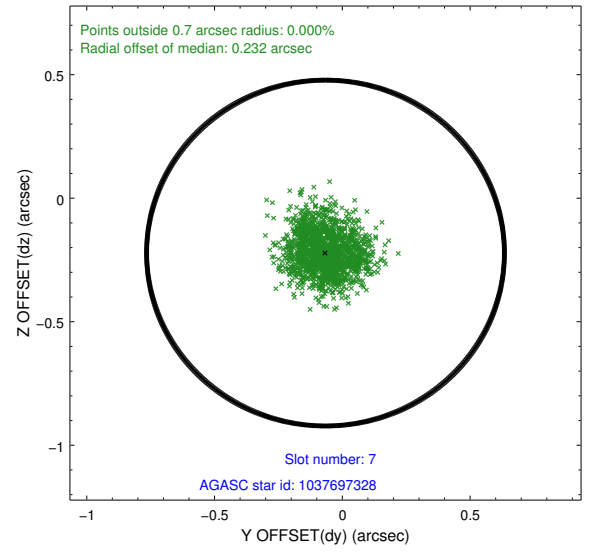
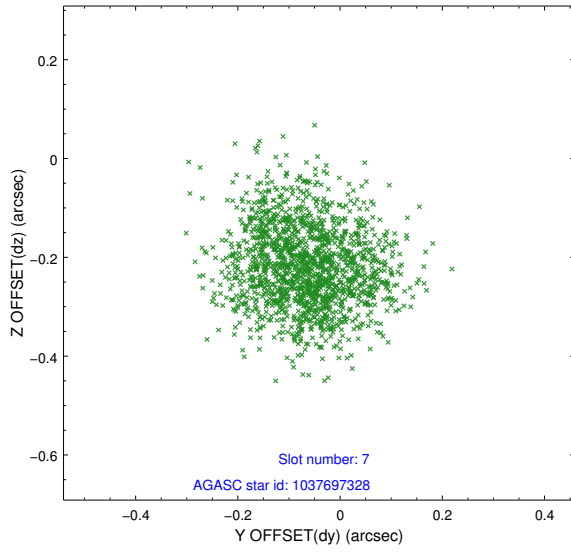
### 2.4.3 Slot 5



## 2.4.4 Slot 6

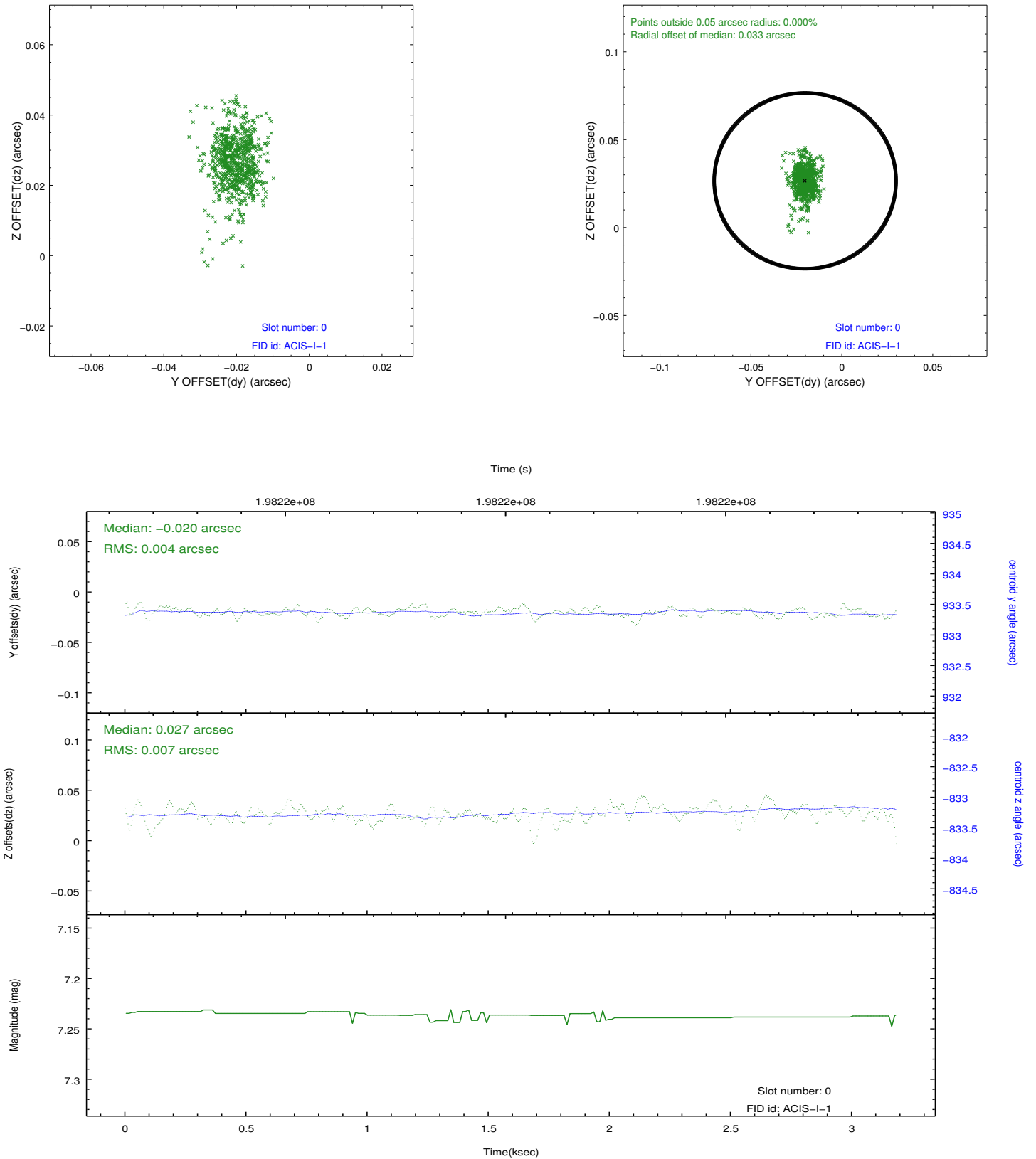


## 2.4.5 Slot 7

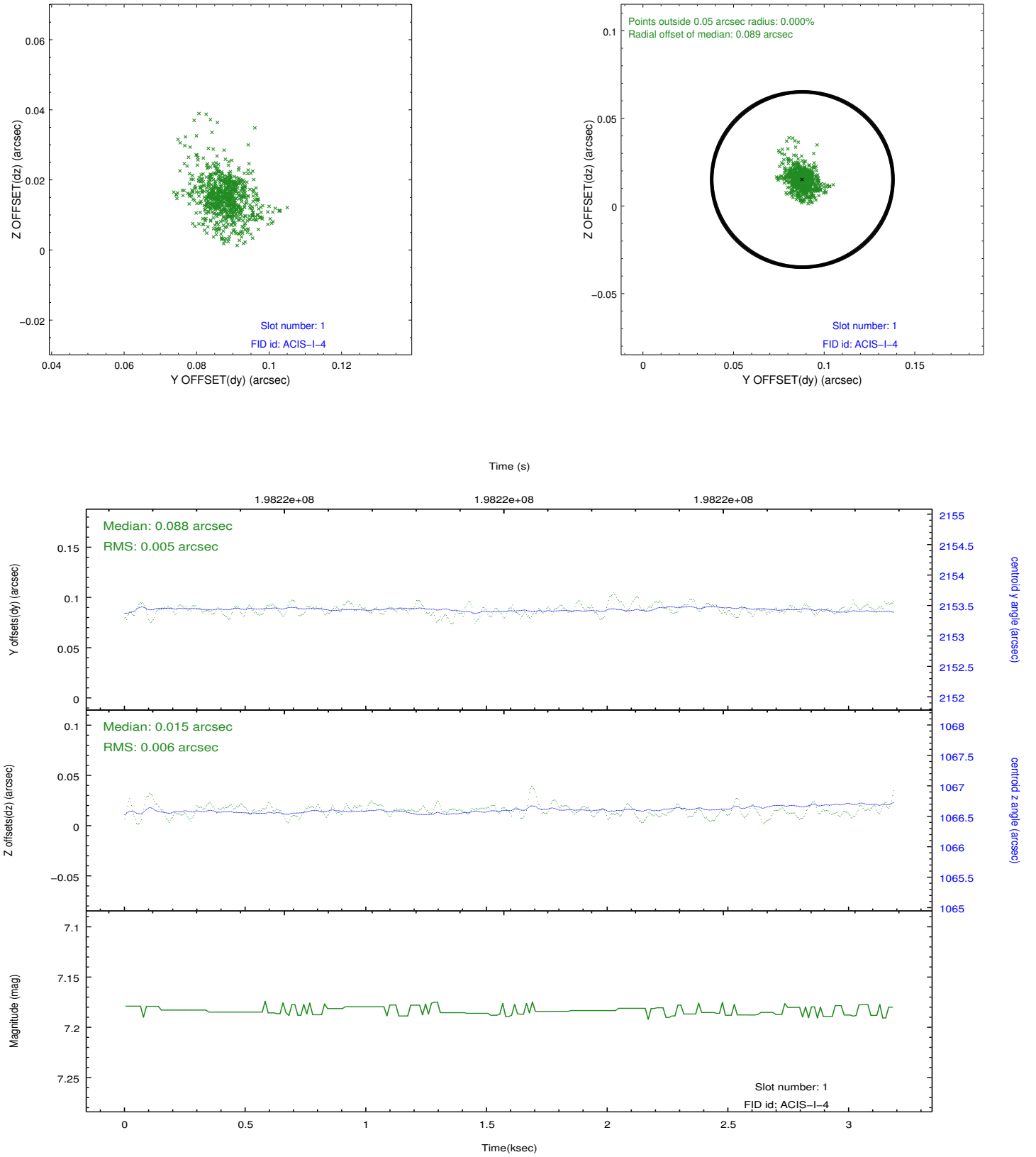


## 2.5 FID Slots

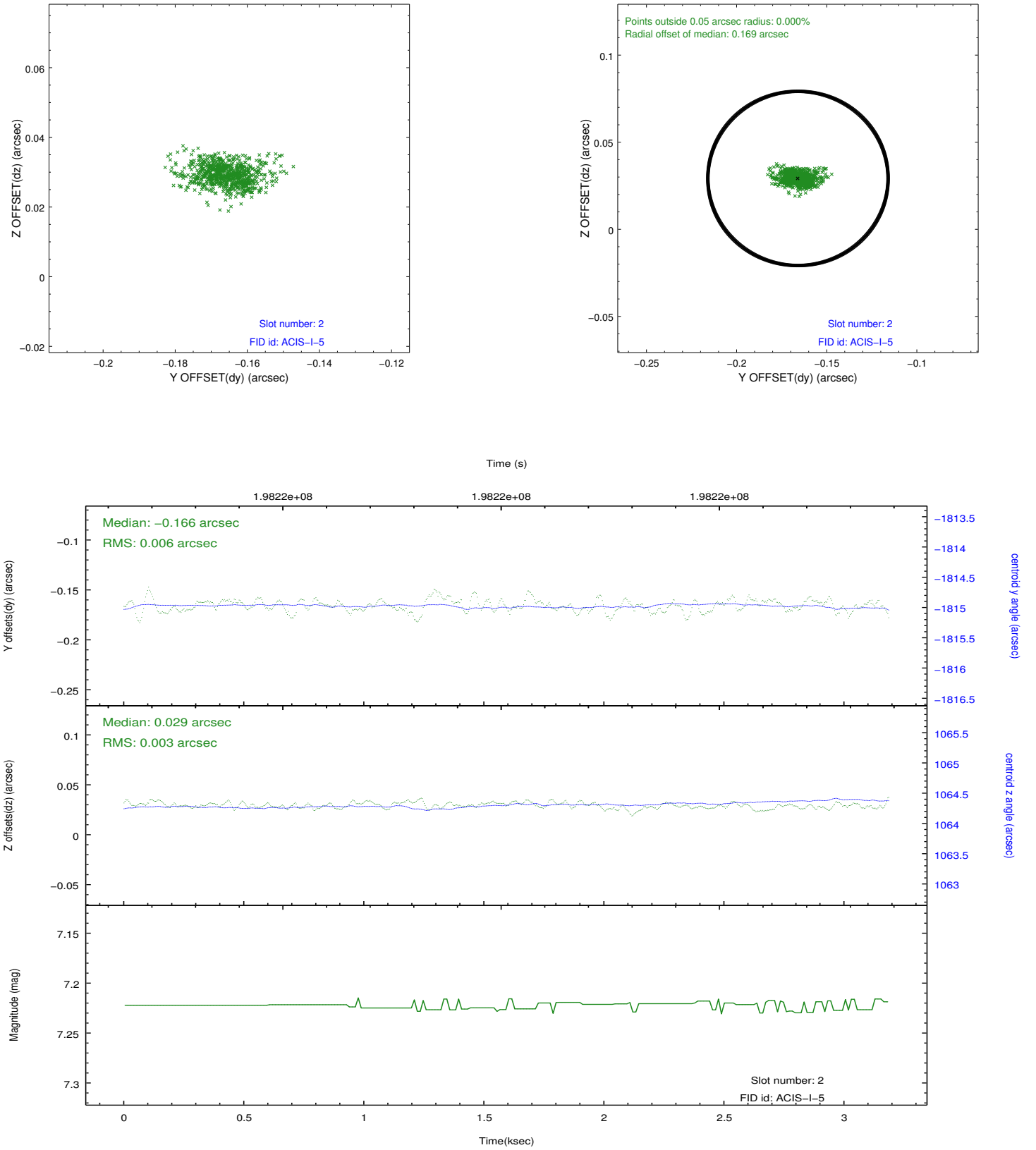
### 2.5.1 Slot 0



## 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)	2012.12.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.183

### **A.2 Comments**