

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2544 - L2 Version 3  
Chandra X-Ray Center

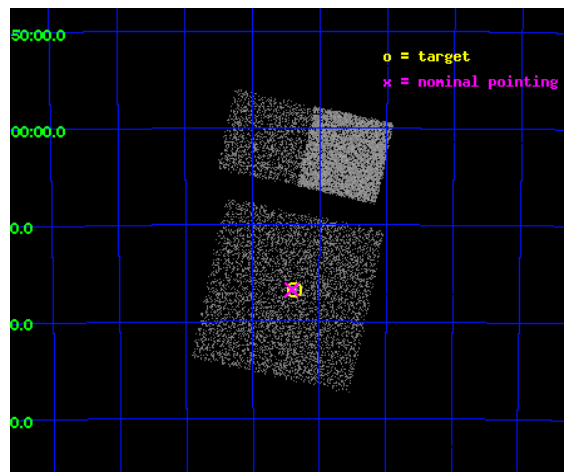
L2 Processing Date : Oct 9 2012

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# 1 Front

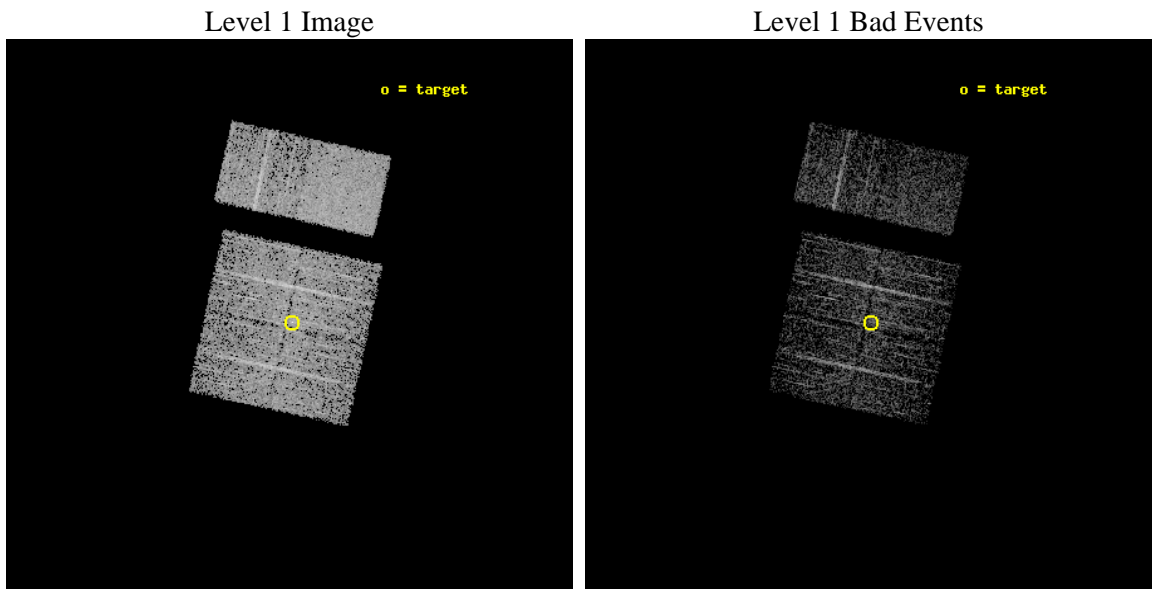
seq_num	200152	Sequence number
obs_id	2544	Observation id
title	ON THE ORIGIN OF THE X-RAY EMISSION IN LATE B-TYPE STARS	Proposal
observer	Dr. Nuria Huelamo	Principal investigator
object	HD169978	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	277.843333	Observer's specified target RA [deg]
dec_targ	-62.278306	Observer's specified target Dec [deg]
ra_nom	277.8533882547	Nominal RA [deg]
dec_nom	-62.278912666445	Nominal Dec [deg]
roll_nom	12.486305269287	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2451.1999908686	Sum of GTIs [s]
livetime	2420.1614206488	Livetime [s]
ontime0	2451.1999908686	Sum of GTIs [s]
ontime1	2451.1999908686	Sum of GTIs [s]
ontime2	2451.1999908686	Sum of GTIs [s]
ontime3	2451.1999908686	Sum of GTIs [s]
ontime6	2451.1999908686	Sum of GTIs [s]
ontime7	2451.1999908686	Sum of GTIs [s]
l2events	16842	Number of level 2 events



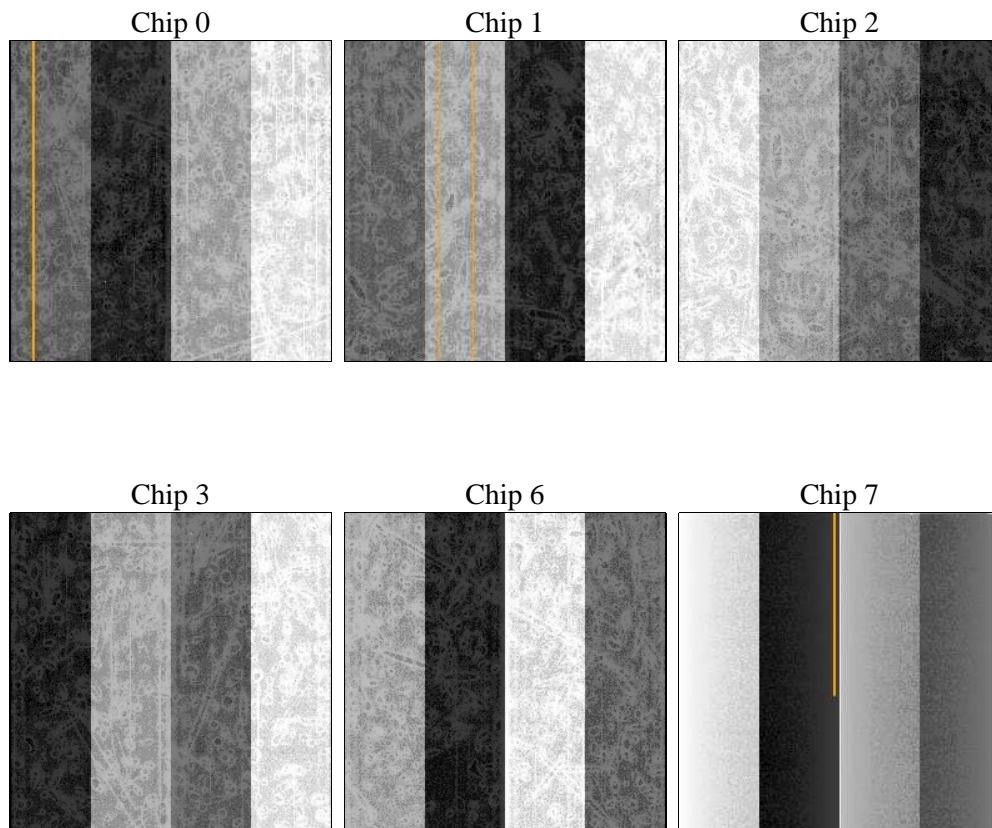
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2300.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	2451.1999908686	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	2451.1999908686	Sum of GTIs [s]
date	2012-10-10T00:21:31	Date and time of file creation	ontime1	2451.1999908686	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	2451.1999908686	Sum of GTIs [s]
			ontime3	2451.1999908686	Sum of GTIs [s]
			ontime6	2451.1999908686	Sum of GTIs [s]
			ontime7	2451.1999908686	Sum of GTIs [s]
			l1events	137012	Number of level 1 events

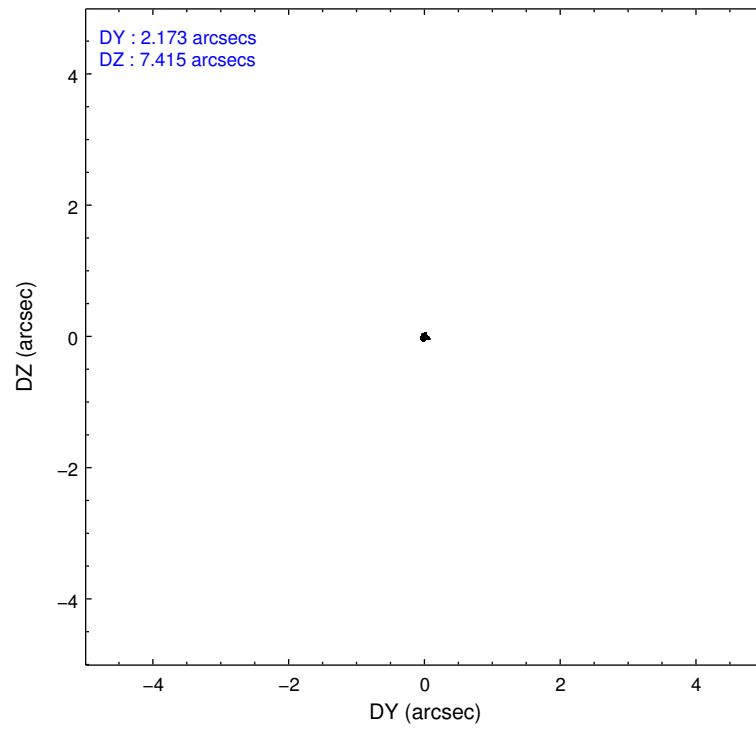
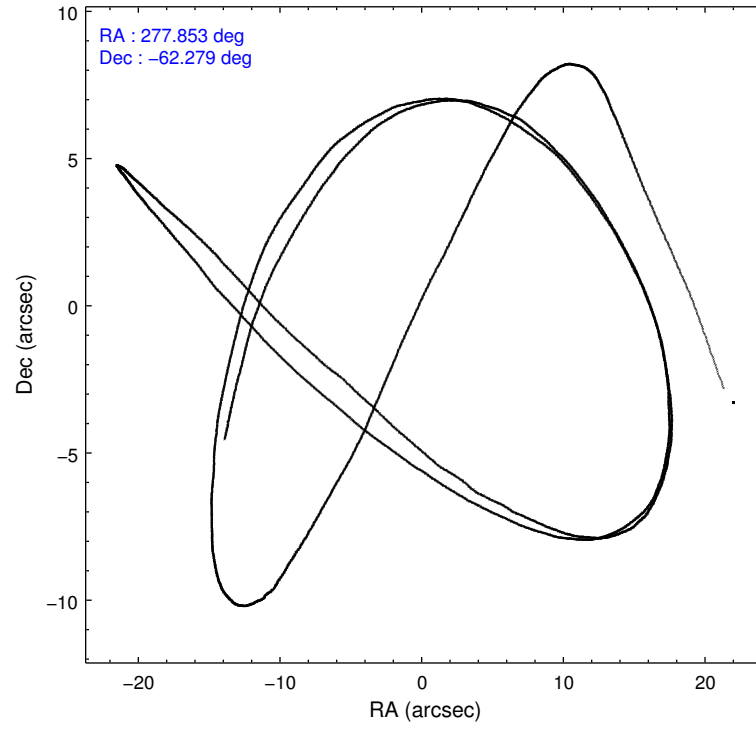
### 2.1.4 Events

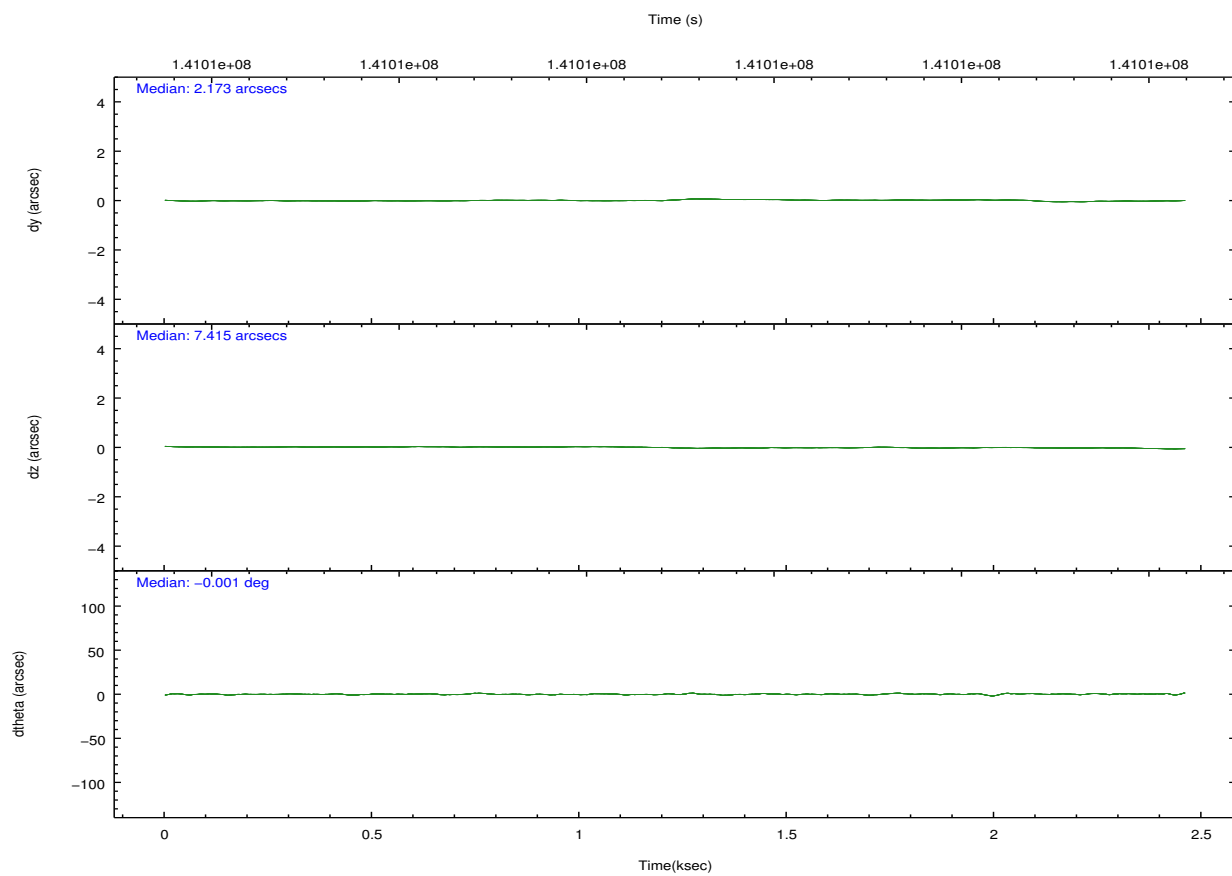
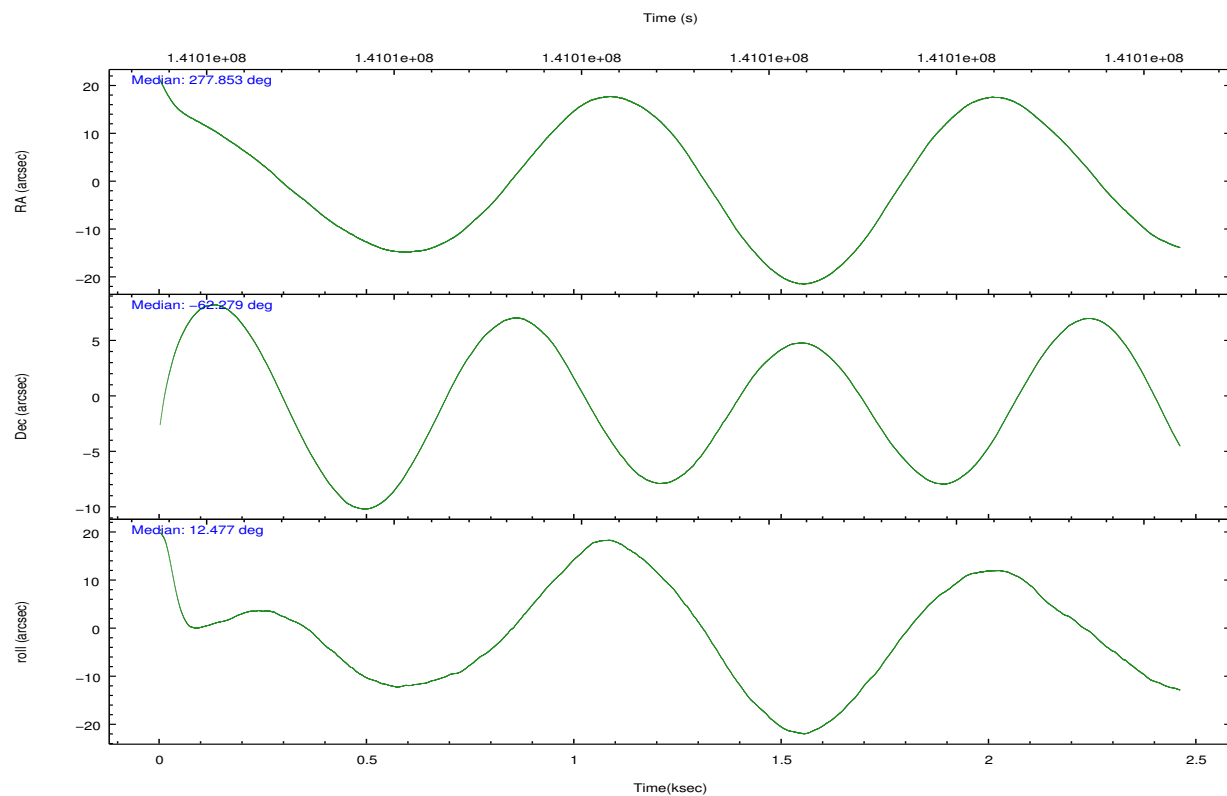
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	20100	19801	22220	22333	23374	29184	grade 0 events	1243	1139	1170	1309	1108	1179
rejected events	18061	17847	20321	20293	21414	20657		6%	5%	5%	5%	4%	4%
rejected %	89%	90%	91%	90%	91%	70%	grade 1 events	5	13	8	15	15	26
								0%	0%	0%	0%	0%	0%
							grade 2 events	600	569	574	541	550	2337
								2%	2%	2%	2%	2%	8%
							grade 3 events	265	274	242	248	260	1131
								1%	1%	1%	1%	1%	3%
							grade 4 events	236	284	215	264	271	1099
								1%	1%	0%	1%	1%	3%
							grade 5 events	840	941	756	942	971	2820
								4%	4%	3%	4%	4%	9%
							grade 6 events	476	487	441	487	553	6264
								2%	2%	1%	2%	2%	21%
							grade 7 events	16435	16094	18814	18527	19646	14328
								81%	81%	84%	82%	84%	49%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	277.809862	277.8533882546984	Subarray requested	NONE	NONE
[deg] Pointing Dec	-62.297728	-62.27891266644509	Alternating exposures requested	N	N
[deg] Pointing Roll	12.239014	12.48630526928685	[s] Primary exposure time	0.000000	3.2
[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)	141009666.184000	141008116.84869			
Observation start date	2002-06-21T01:20:02	2002-06-21T00:55:16			
[s] Observation end time (MET)	141011966.184000	141012543.82388			
Observation end date	2002-06-21T01:58:22	2002-06-21T02:09:03			
Read mode	TIMED	TIMED			

## 2.3 Aspect





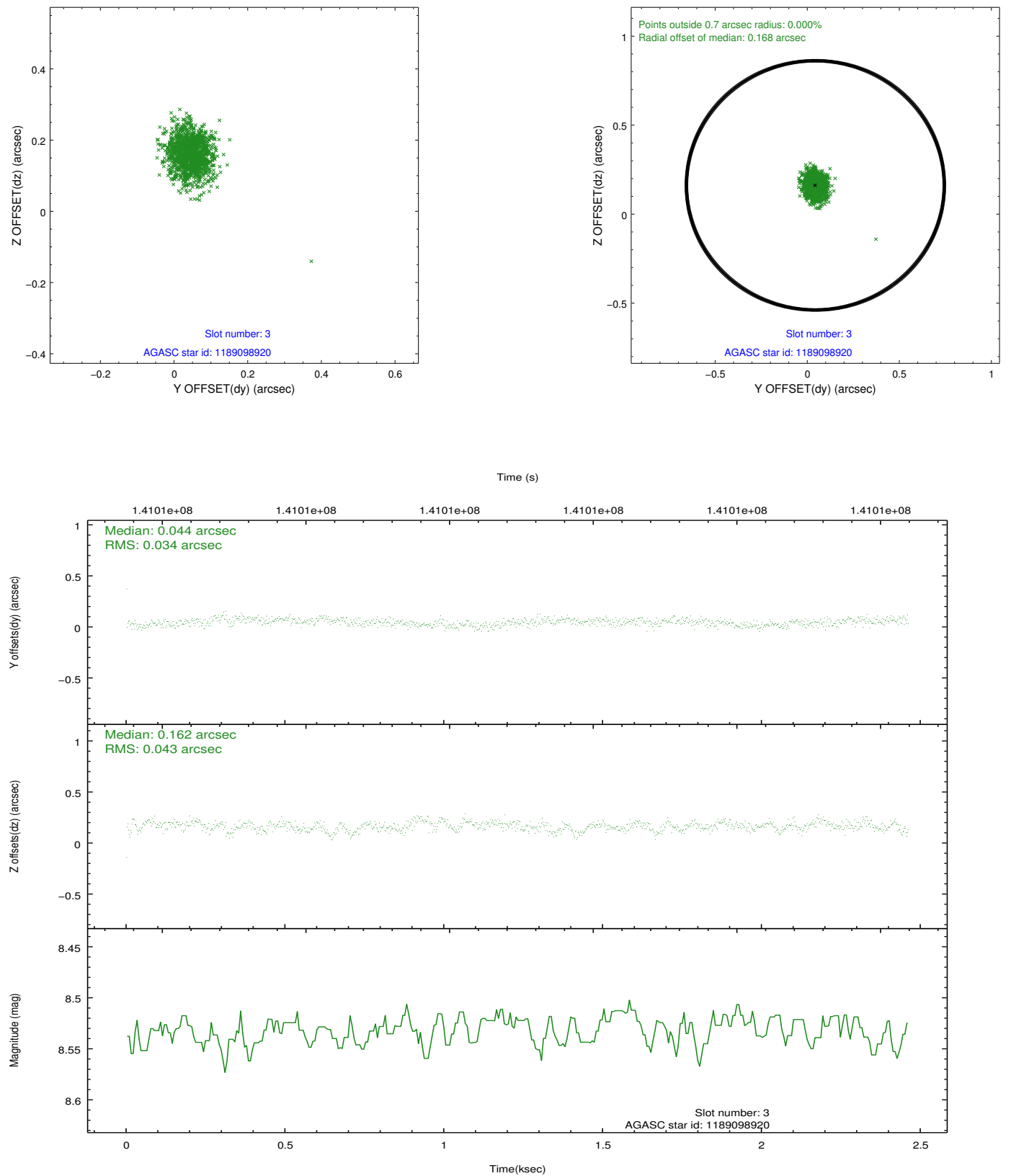
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	600	-0.016	0.044	0.006	0.012	0.000000	0.000000	937.60	-830.79
1	FID	ACIS-I-5	7.23	600	-0.037	0.045	0.006	0.012	0.000000	0.000000	-1809.01	1065.45
2	FID	ACIS-I-6	7.26	600	-0.039	-0.019	0.007	0.011	0.000000	0.000000	400.33	1712.82
3	GUIDE	1189098920	8.53	1201	0.044	0.162	0.056	0.091	277.940123	-62.863736	-222.89	-2035.80
4	GUIDE	1189087024	9.26	1201	-0.031	-0.071	0.065	0.105	278.422874	-62.085262	1170.21	523.05
5	GUIDE	1188577712	9.29	1200	-0.105	-0.075	0.096	0.153	278.337108	-61.715031	1323.25	1857.30
6	GUIDE	1189095768	9.82	1200	0.062	0.077	0.097	0.157	277.768011	-62.510921	-229.63	-732.83
7	GUIDE	1188575392	9.27	1200	0.034	-0.095	0.091	0.143	277.754857	-61.645267	405.21	2315.61

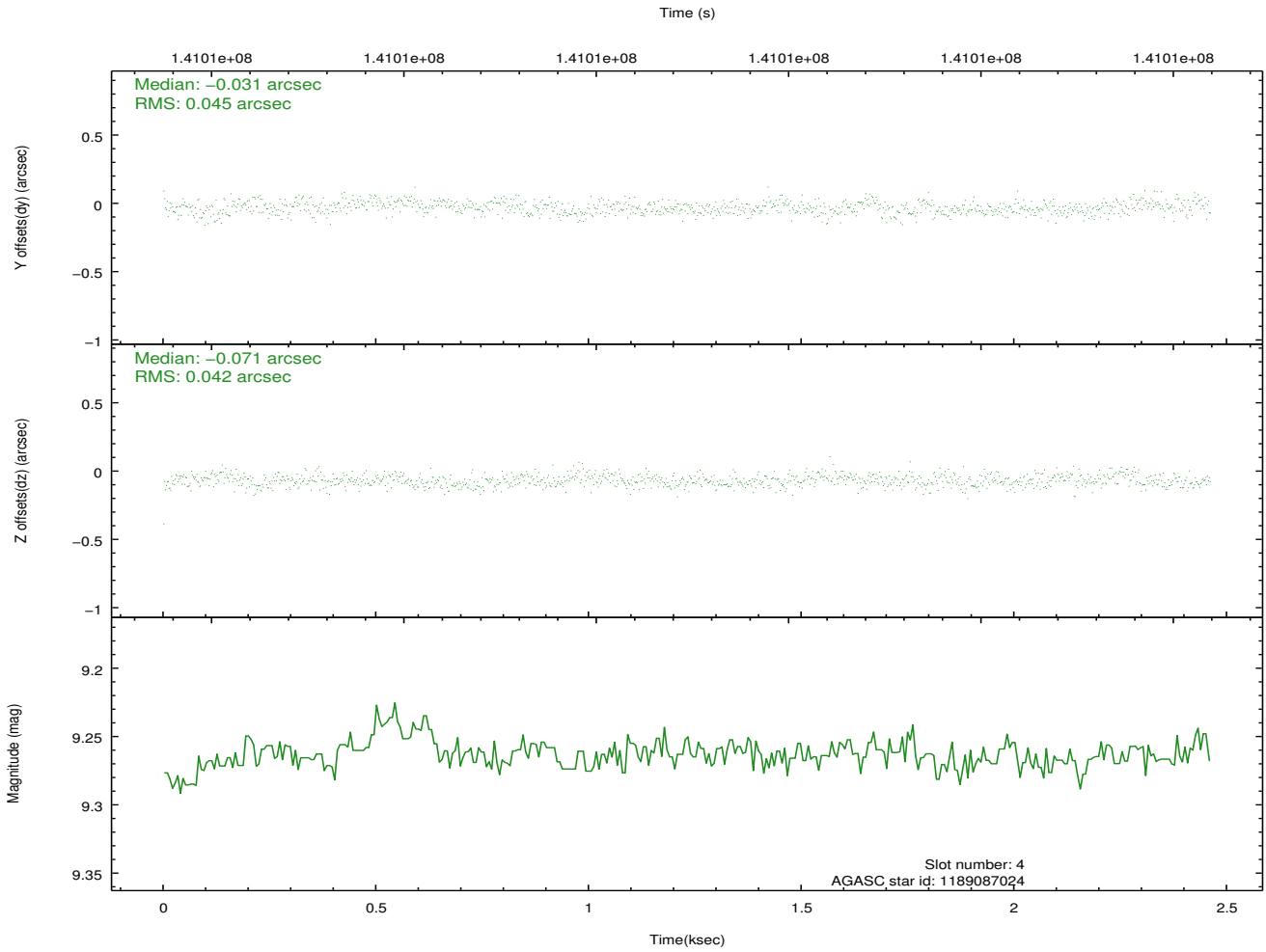
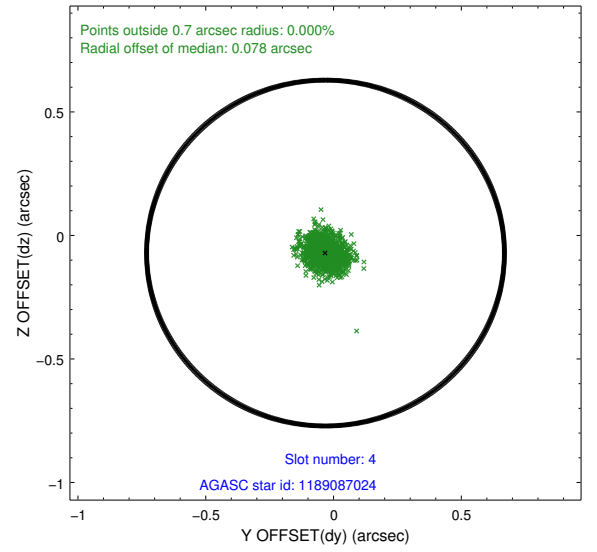
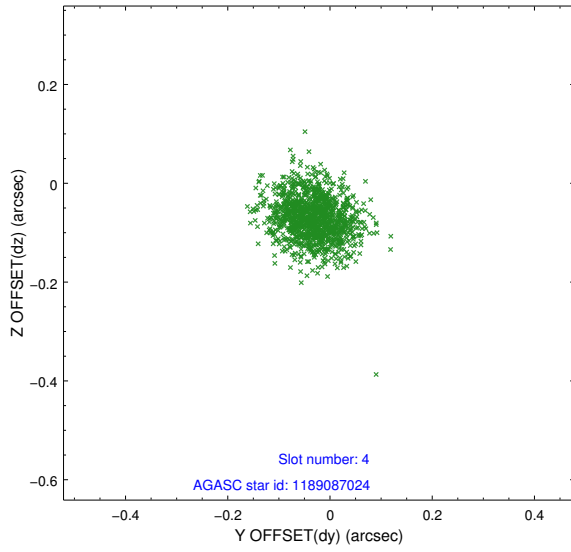


## 2.4 Star Slots

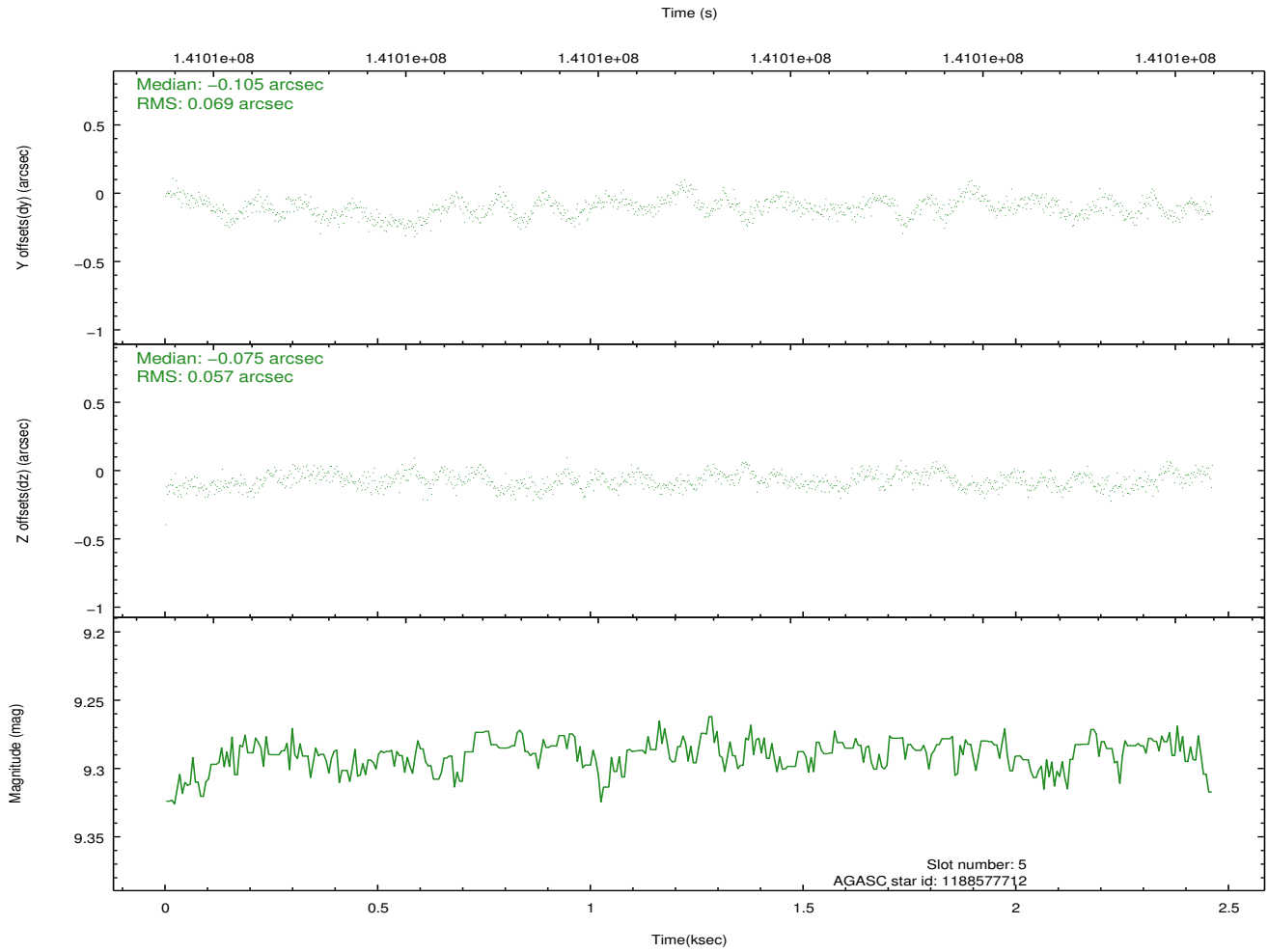
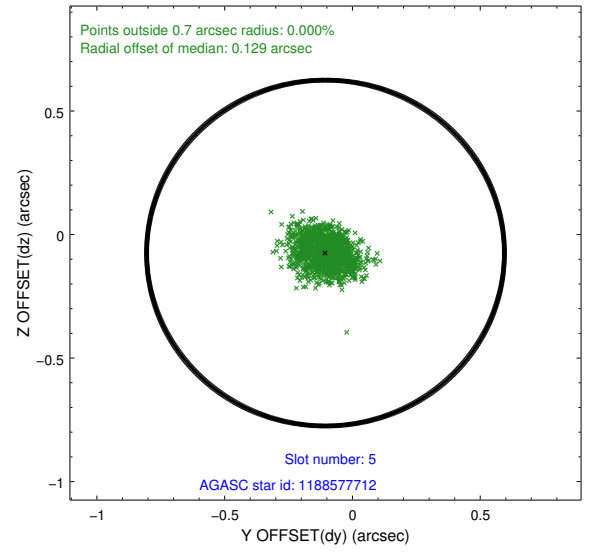
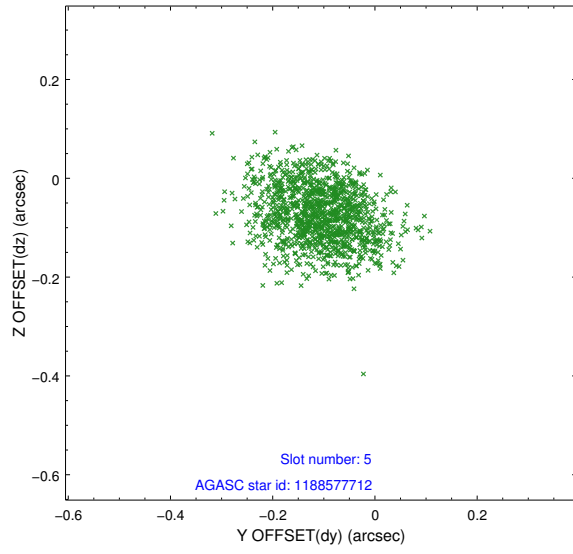
### 2.4.1 Slot 3



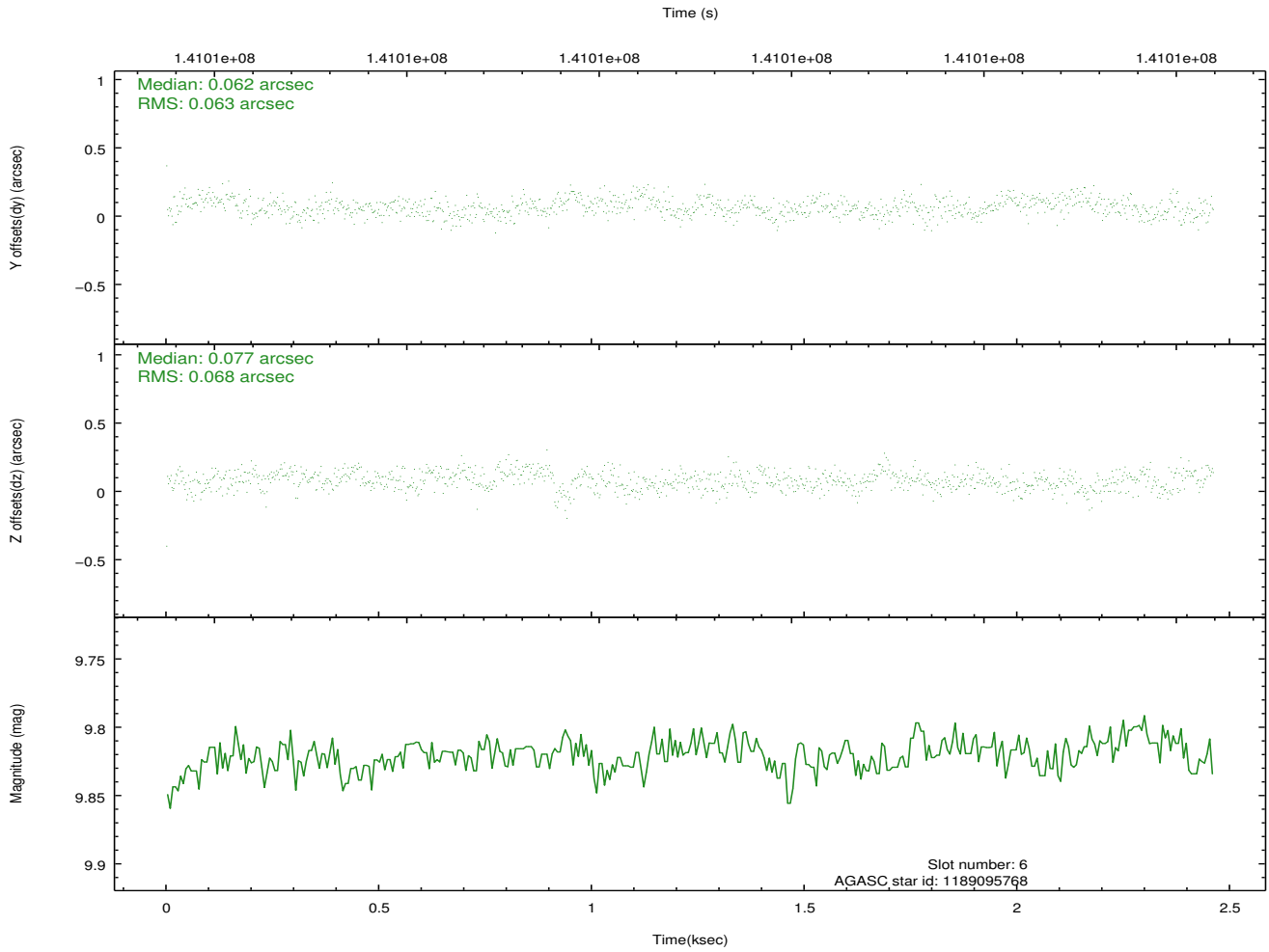
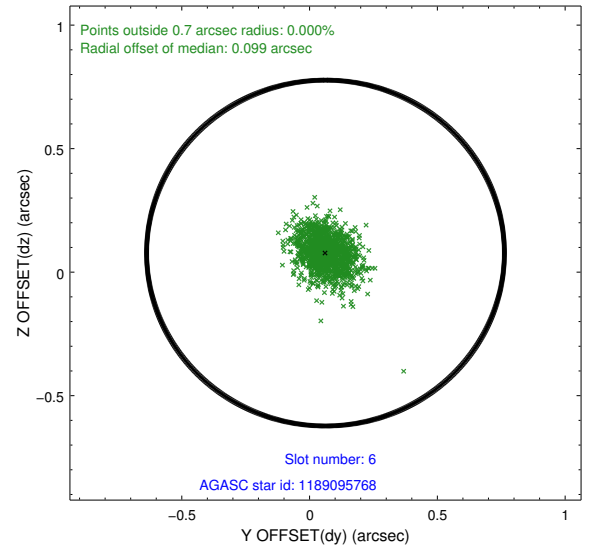
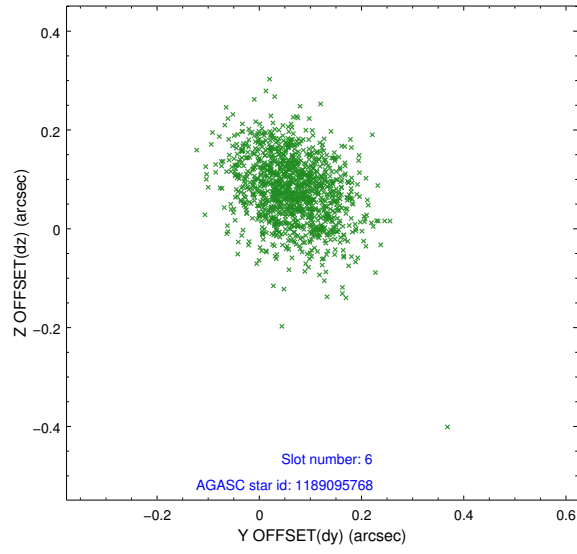
## 2.4.2 Slot 4



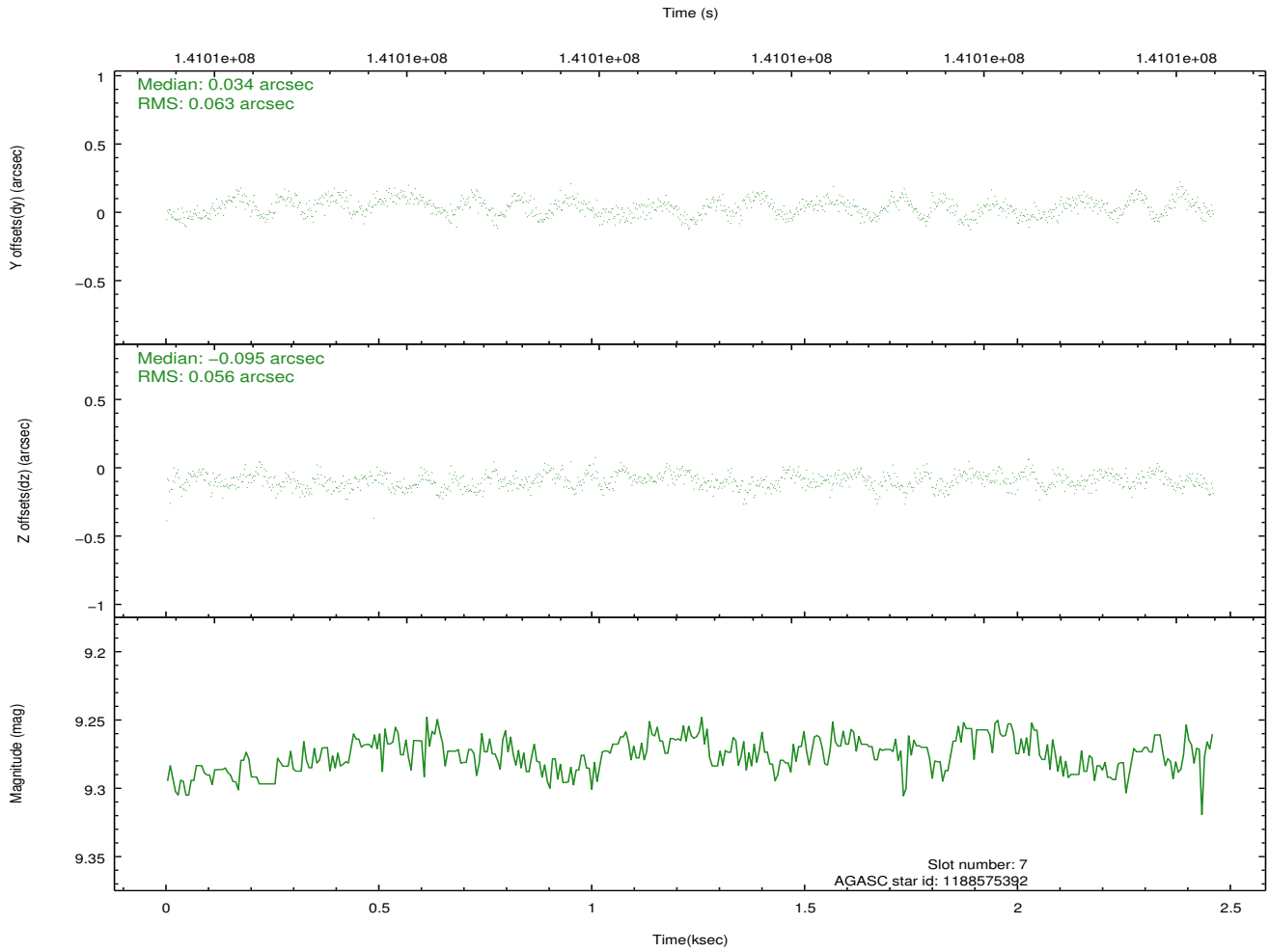
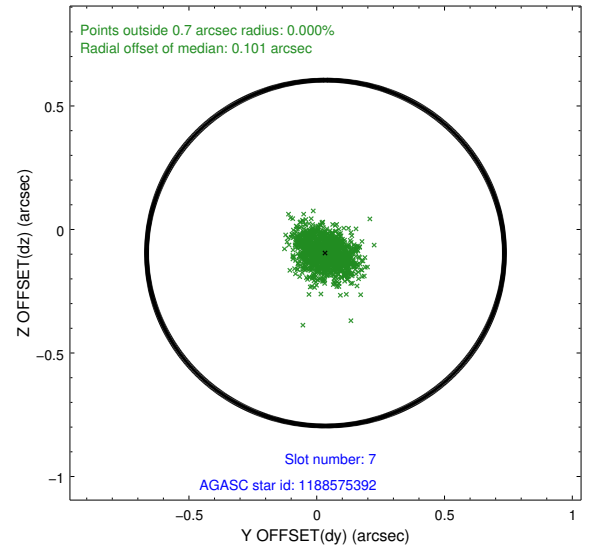
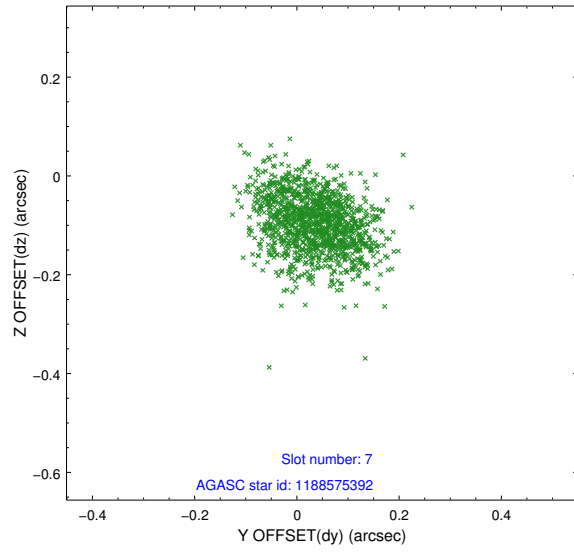
### 2.4.3 Slot 5



## 2.4.4 Slot 6

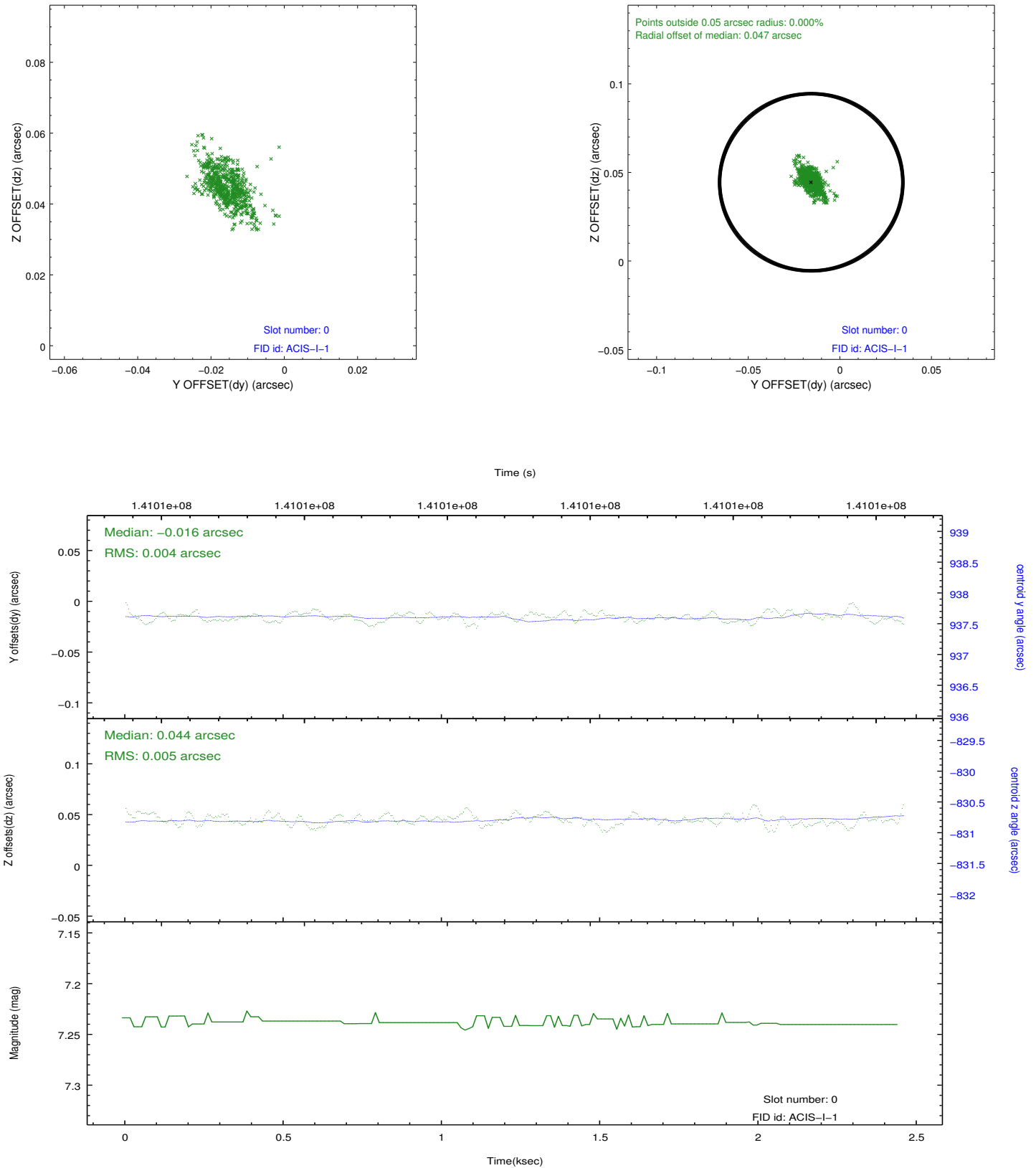


## 2.4.5 Slot 7

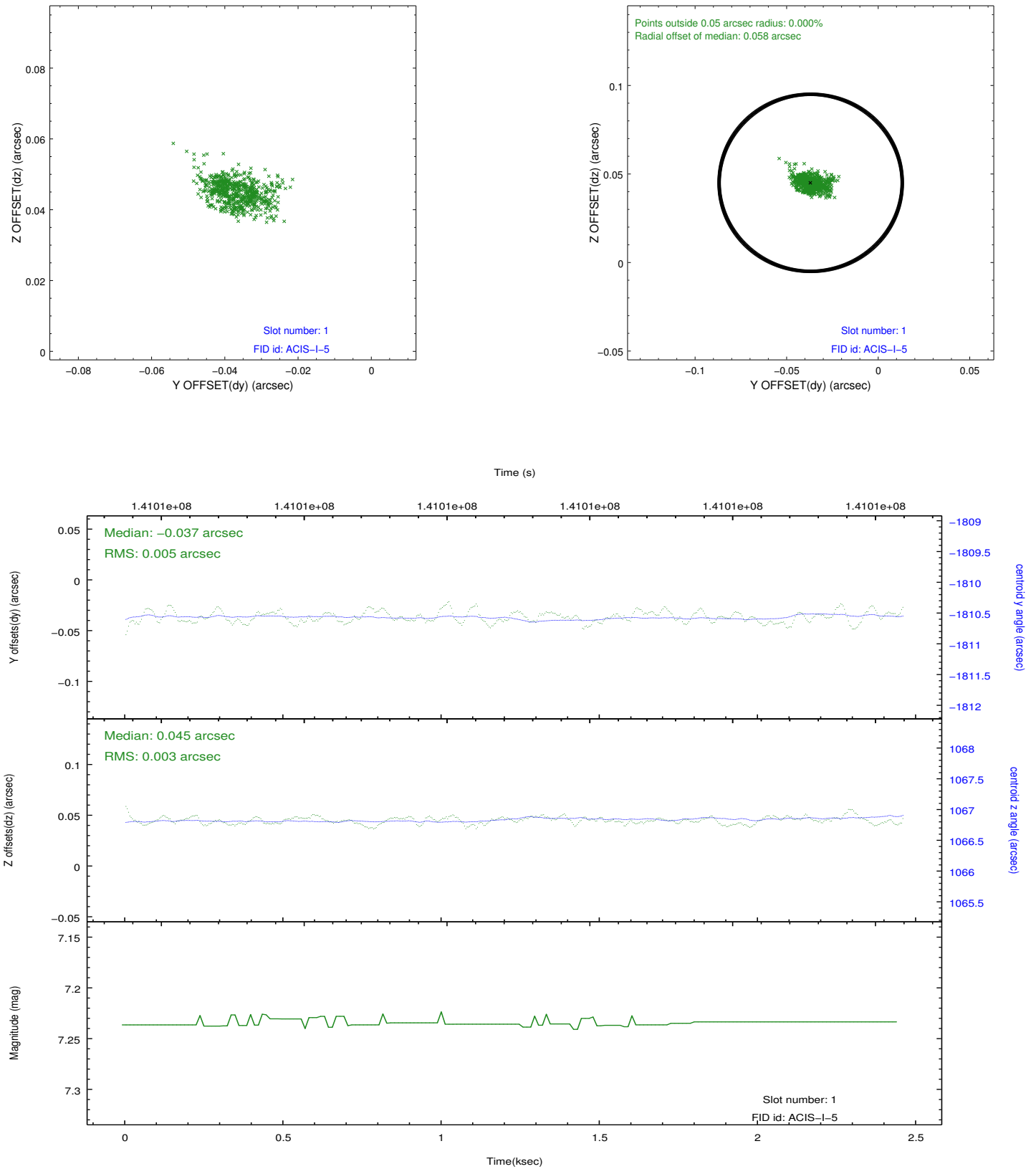


## 2.5 FID Slots

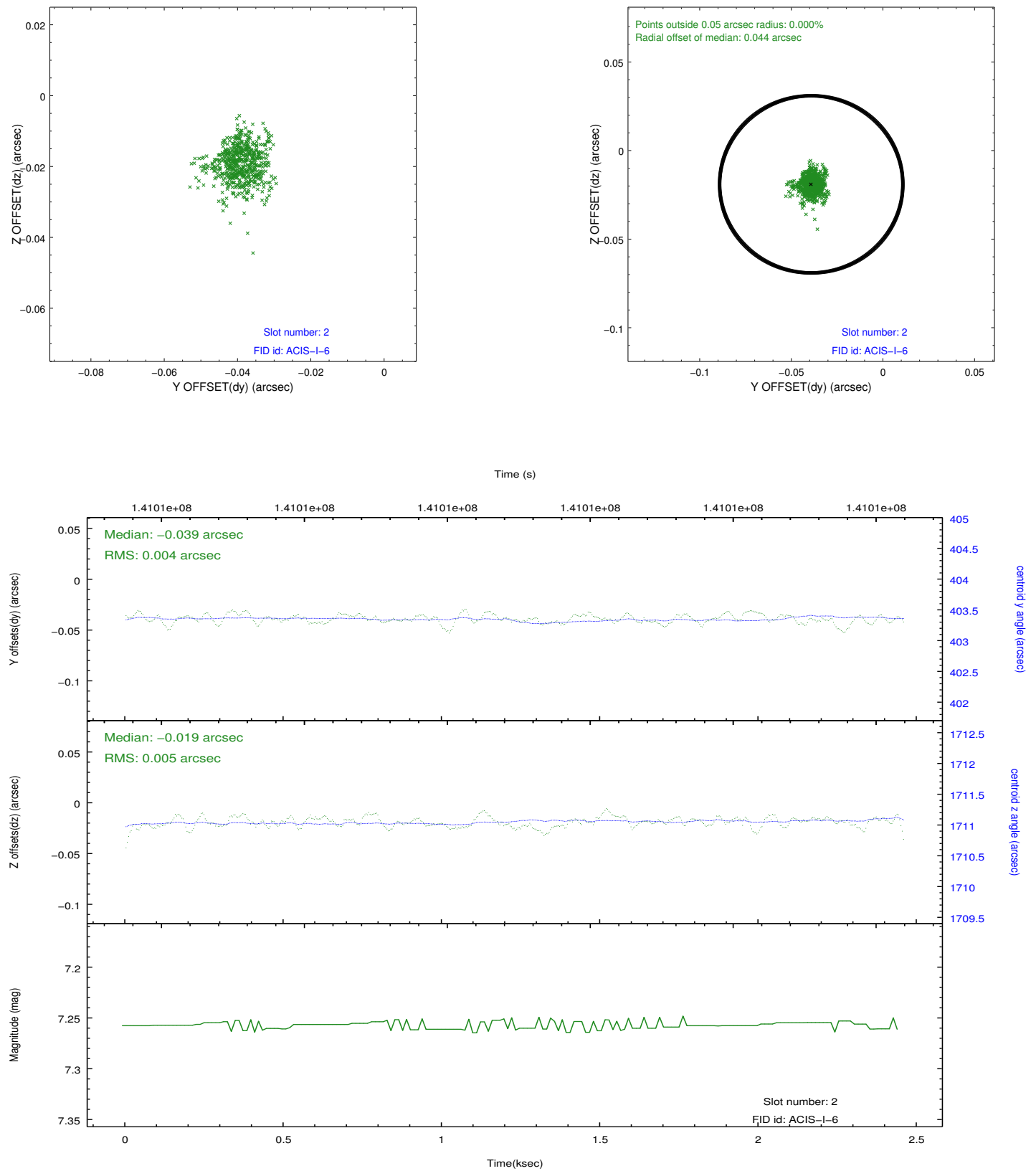
### 2.5.1 Slot 0



## 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)	2012.10.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.451

### A.2 Comments