

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 5186 - L2 Version 3  
Chandra X-Ray Center

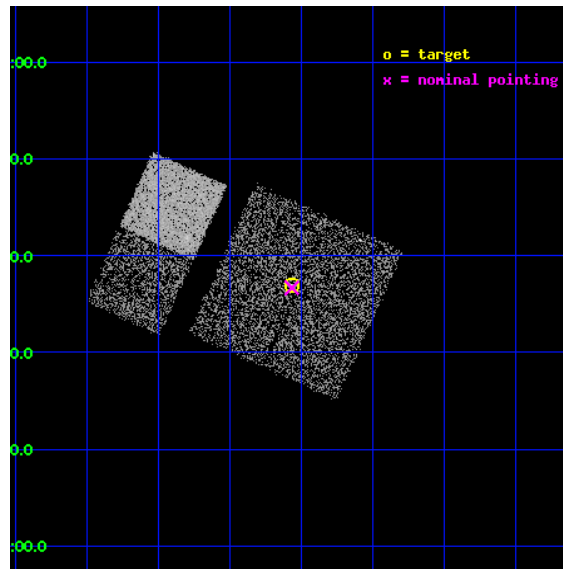
L2 Processing Date : Nov 10 2012

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# 1 Front

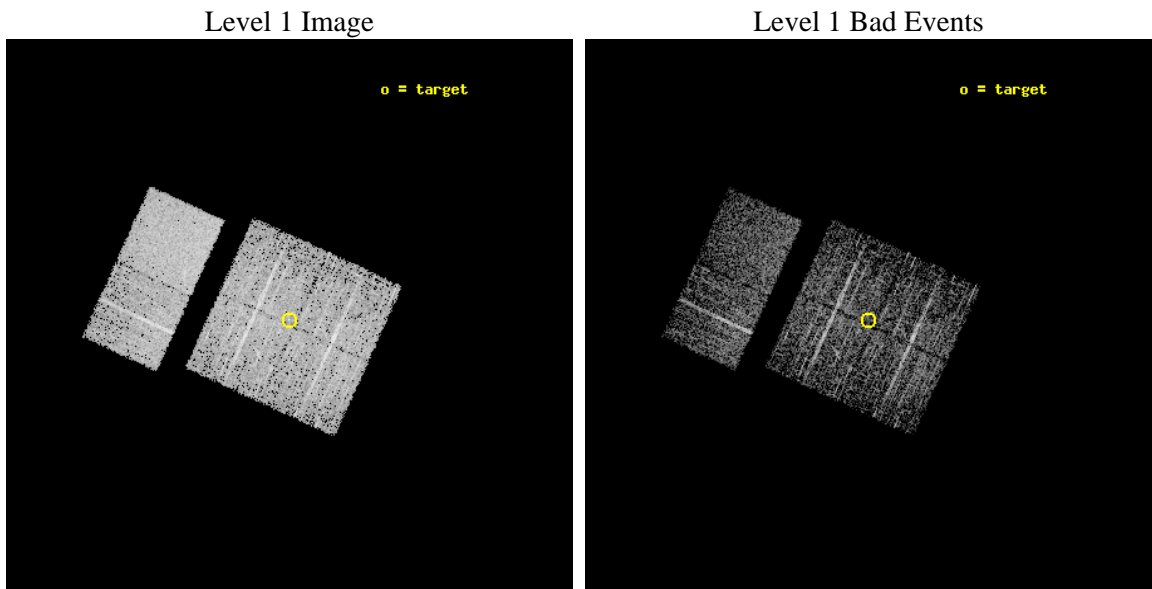
seq_num	200294	Sequence number
obs_id	5186	Observation id
title	Search for beta Pic analogs	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	HR 1610	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	75.14125	Observer's specified target RA [deg]
dec_targ	3.615833	Observer's specified target Dec [deg]
ra_nom	75.141302578057	Nominal RA [deg]
dec_nom	3.6112603052234	Nominal Dec [deg]
roll_nom	294.57236383419	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3151.9999882579	Sum of GTIs [s]
livetime	3112.0874665	Livetime [s]
ontime0	3151.9999882579	Sum of GTIs [s]
ontime1	3151.9999882579	Sum of GTIs [s]
ontime2	3151.9999882579	Sum of GTIs [s]
ontime3	3151.9999882579	Sum of GTIs [s]
ontime6	3151.9999882579	Sum of GTIs [s]
ontime7	3151.9999882579	Sum of GTIs [s]
l2events	21805	Number of level 2 events



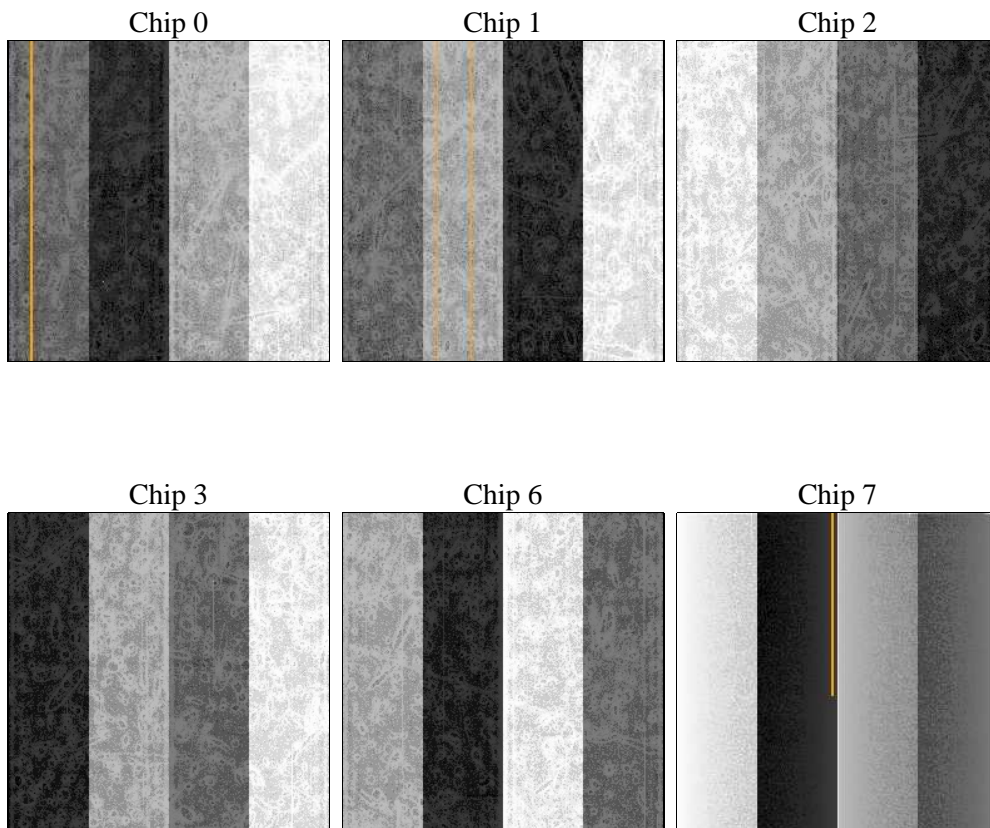
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	3151.9999882579	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	3151.9999882579	Sum of GTIs [s]
date	2012-11-10T22:02:03	Date and time of file creation	ontime1	3151.9999882579	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	3151.9999882579	Sum of GTIs [s]
			ontime3	3151.9999882579	Sum of GTIs [s]
			ontime6	3151.9999882579	Sum of GTIs [s]
			ontime7	3151.9999882579	Sum of GTIs [s]
			l1events	198968	Number of level 1 events

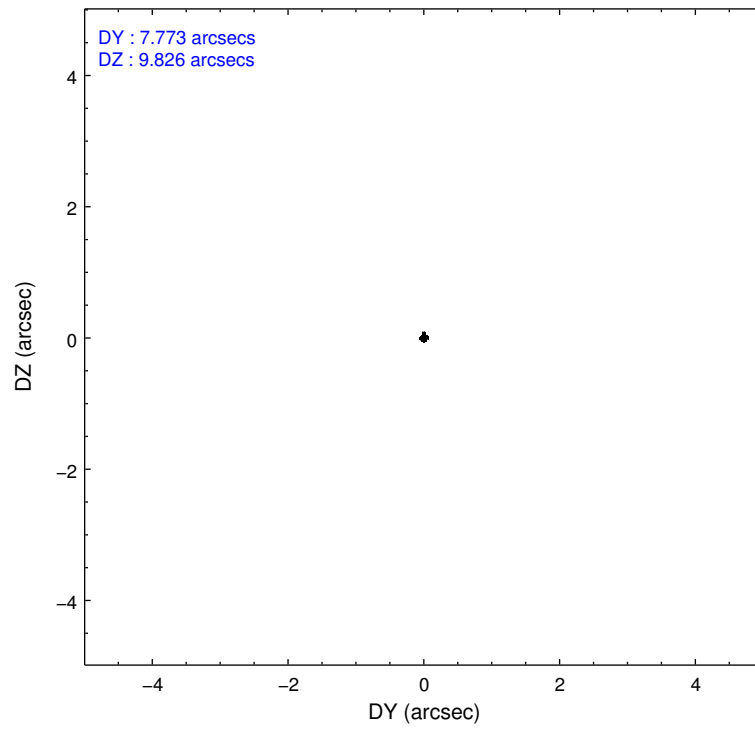
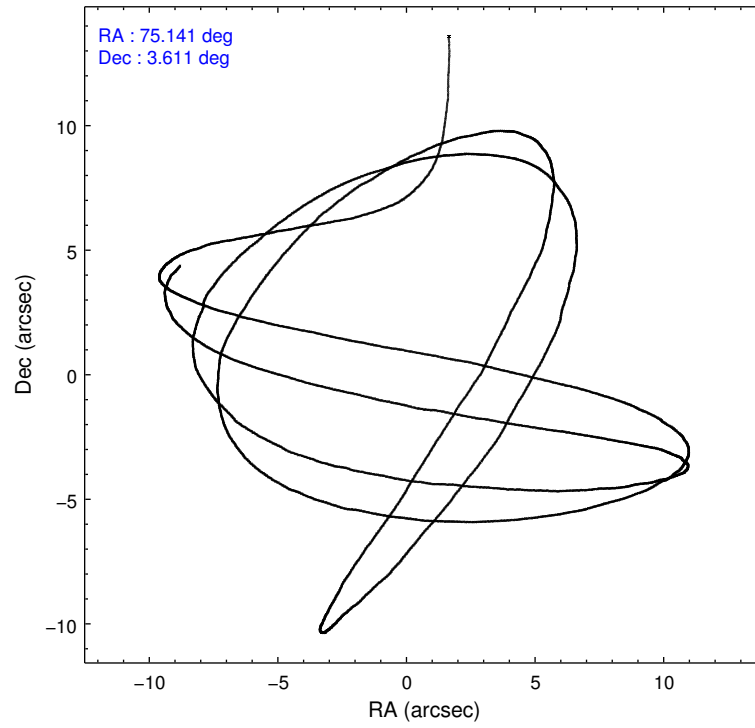
### 2.1.4 Events

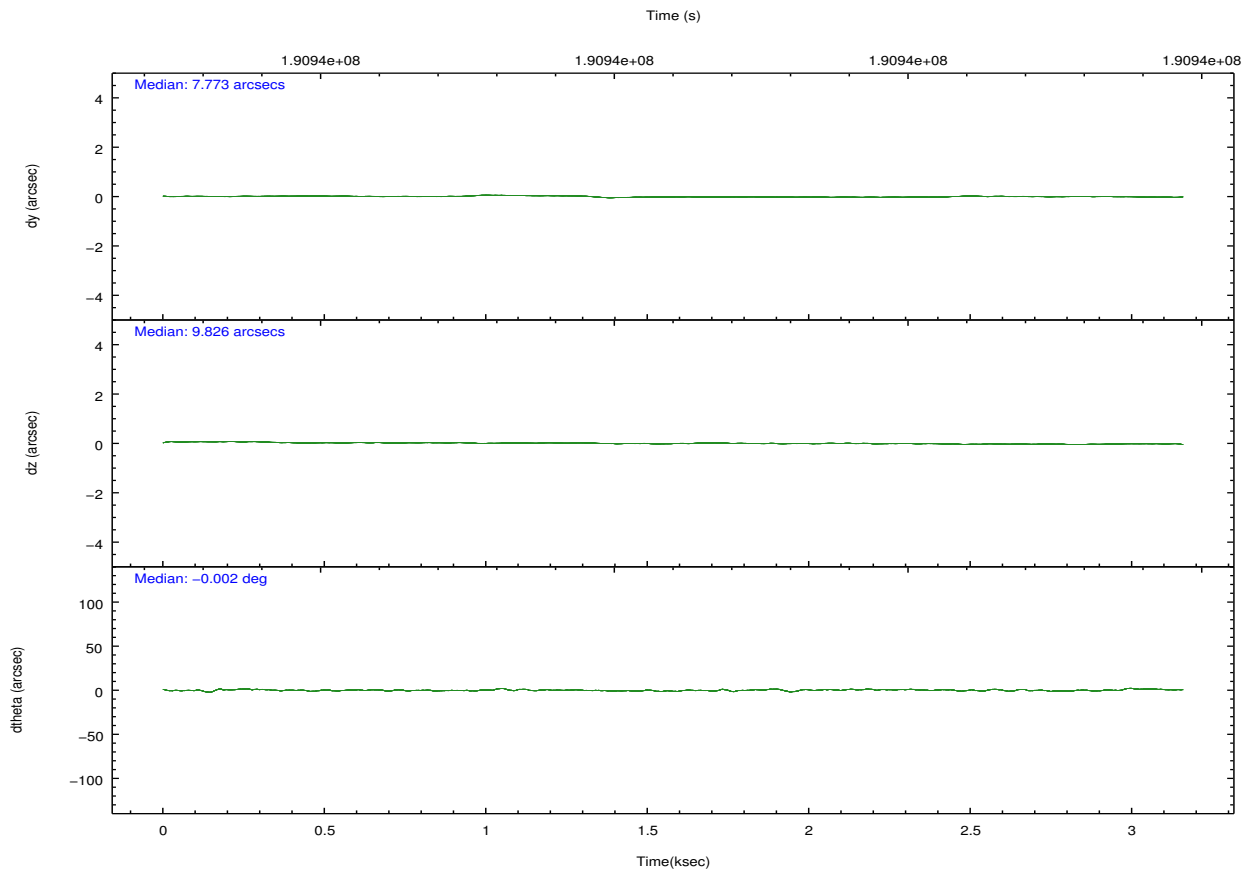
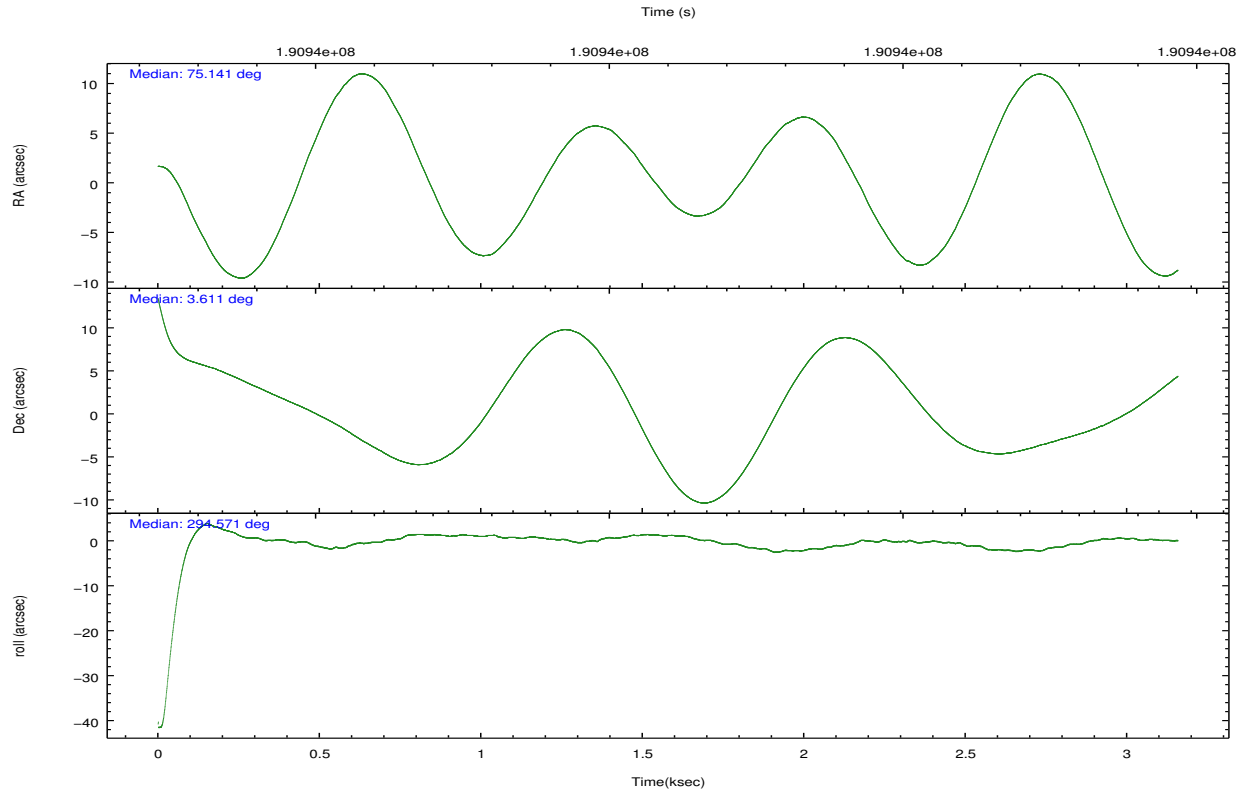
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	28981	29578	33287	30830	32565	43727	grade 0 events	1660	1700	1693	1704	1556	1607
rejected events	26513	26888	30893	28471	30179	32299		5%	5%	5%	5%	4%	3%
rejected %	91%	90%	92%	92%	92%	73%	grade 1 events	21	14	25	21	16	44
								0%	0%	0%	0%	0%	0%
							grade 2 events	788	853	756	660	798	3568
								2%	2%	2%	2%	2%	8%
							grade 3 events	377	412	327	354	372	1654
								1%	1%	0%	1%	1%	3%
							grade 4 events	342	383	405	373	339	1605
								1%	1%	1%	1%	1%	3%
							grade 5 events	1318	1390	1287	1483	1453	4187
								4%	4%	3%	4%	4%	9%
							grade 6 events	707	824	643	635	758	9737
								2%	2%	1%	2%	2%	22%
							grade 7 events	23768	24002	28151	25600	27273	21325
								82%	81%	84%	83%	83%	48%

## 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	75.118960	75.14130257805675	Subarray requested	NONE	NONE
[deg] Pointing Dec	3.626980	3.611260305223443	Alternating exposures requested	N	N
[deg] Pointing Roll	294.365273	294.5723638341902	[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)	190940784.184000	190938765.09422			
Observation start date	2004-01-19T23:05:20	2004-01-19T22:32:45			
[s] Observation end time (MET)	190943784.184000	190944366.20696			
Observation end date	2004-01-19T23:55:20	2004-01-20T00:06:06			
Read mode	TIMED	TIMED			

## 2.3 Aspect





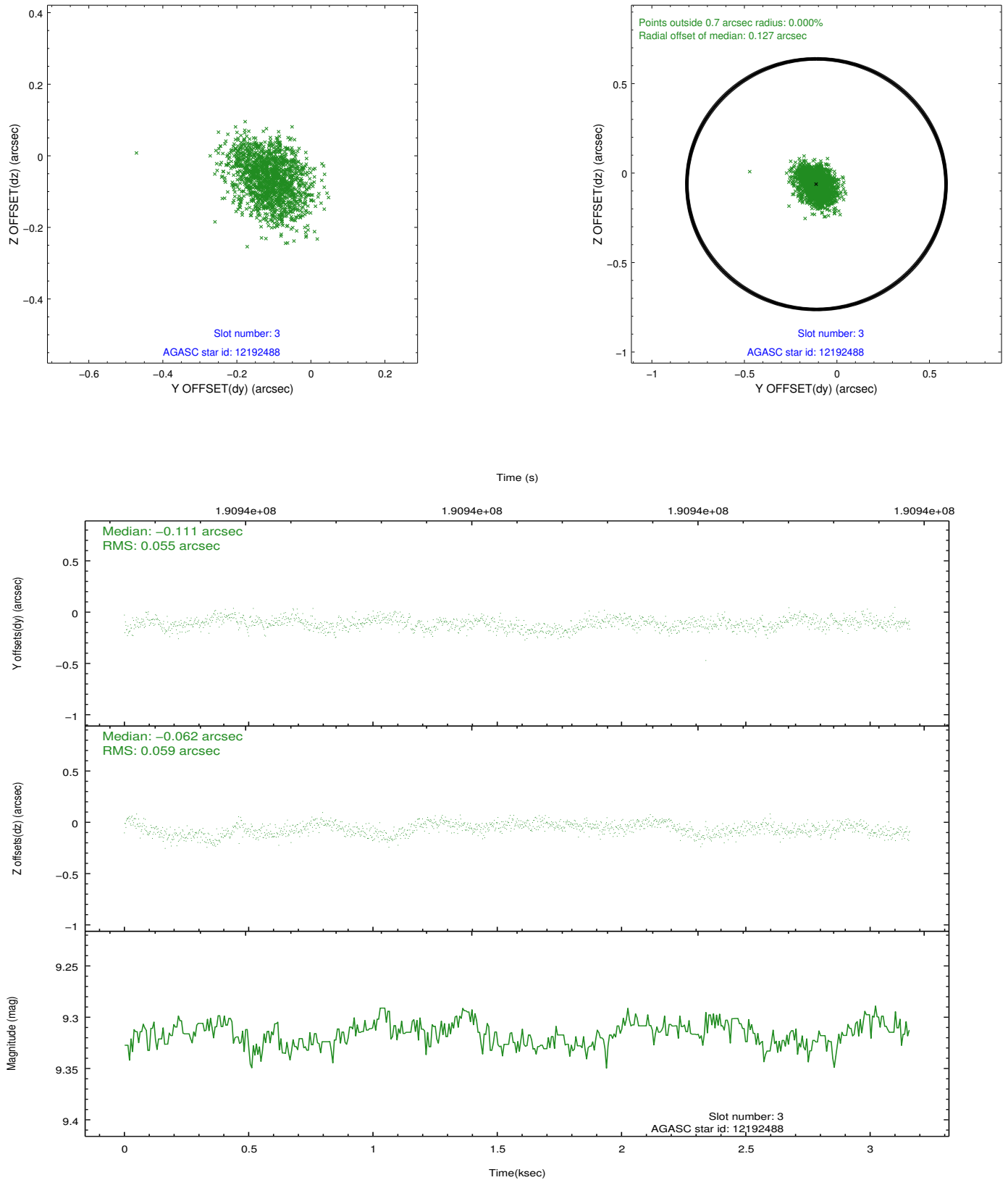
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.13	771	-0.068	-0.069	0.008	0.016	0.000000	0.000000	-762.35	-839.73
1	FID	ACIS-I-4	7.18	771	0.168	0.062	0.006	0.011	0.000000	0.000000	2151.03	1065.55
2	FID	ACIS-I-5	7.22	771	-0.202	0.076	0.009	0.015	0.000000	0.000000	-1813.72	1065.73
3	GUIDE	12192488	9.32	1542	-0.111	-0.062	0.087	0.135	74.981383	4.187024	-2040.02	381.97
4	GUIDE	13372304	8.23	1542	-0.060	-0.044	0.062	0.098	75.358097	3.499204	772.54	593.53
5	GUIDE	13372952	7.20	1542	-0.026	-0.087	0.048	0.077	75.034248	3.286674	991.39	-782.16
6	GUIDE	13371472	7.82	1542	0.019	0.075	0.060	0.094	75.685637	3.457706	1395.79	1603.72
7	GUIDE	13373280	9.24	1541	0.179	0.116	0.092	0.145	75.978665	3.315154	2297.66	2353.70

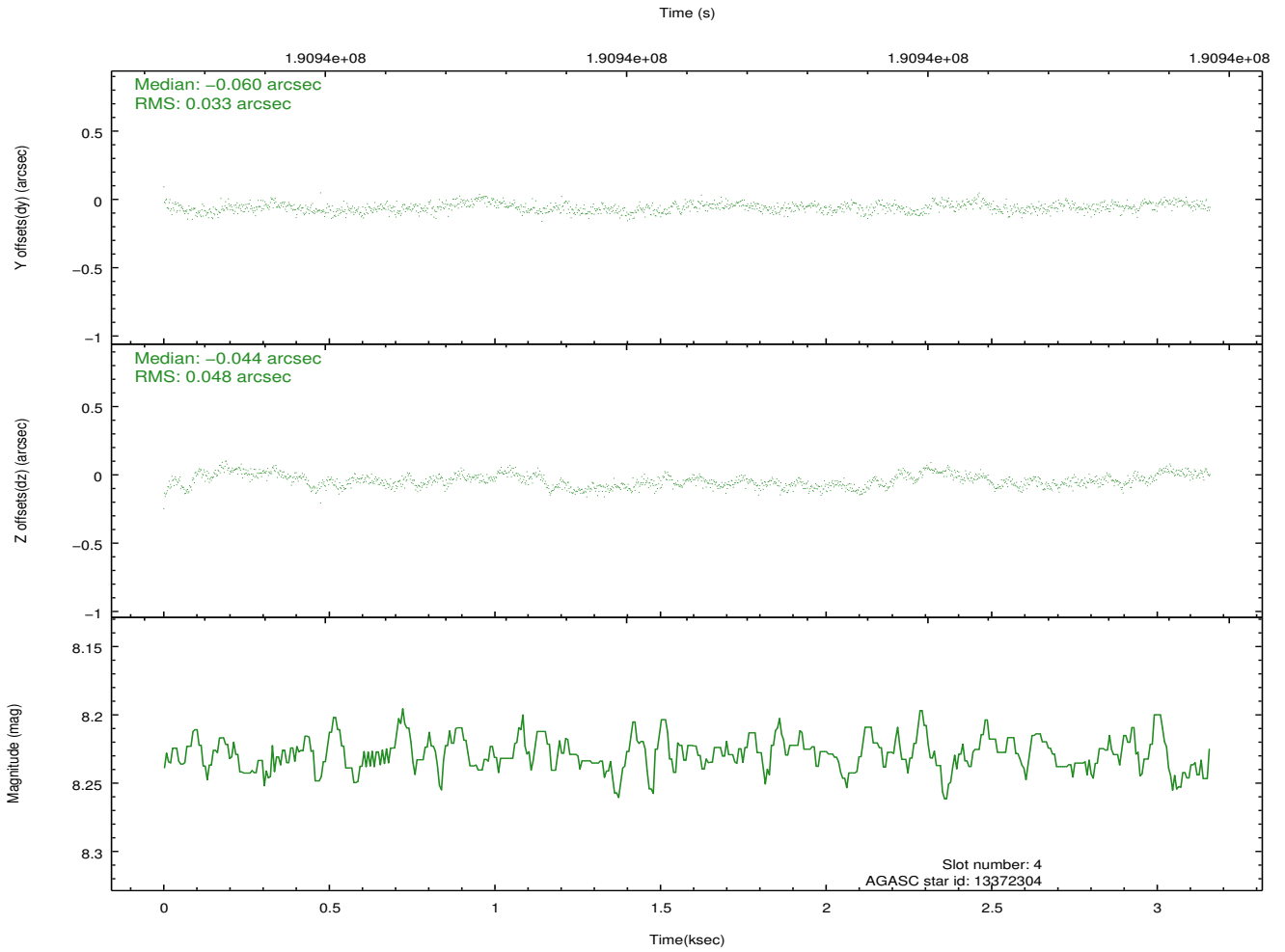
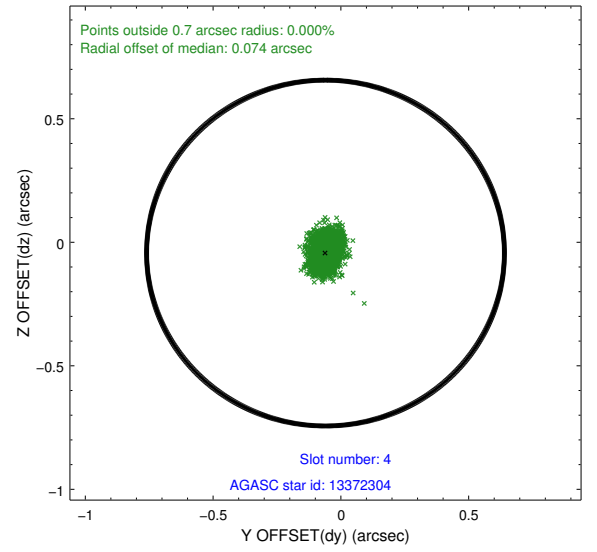
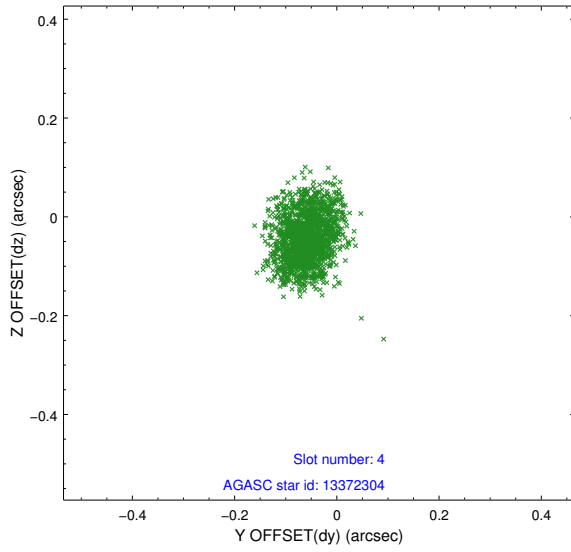


## 2.4 Star Slots

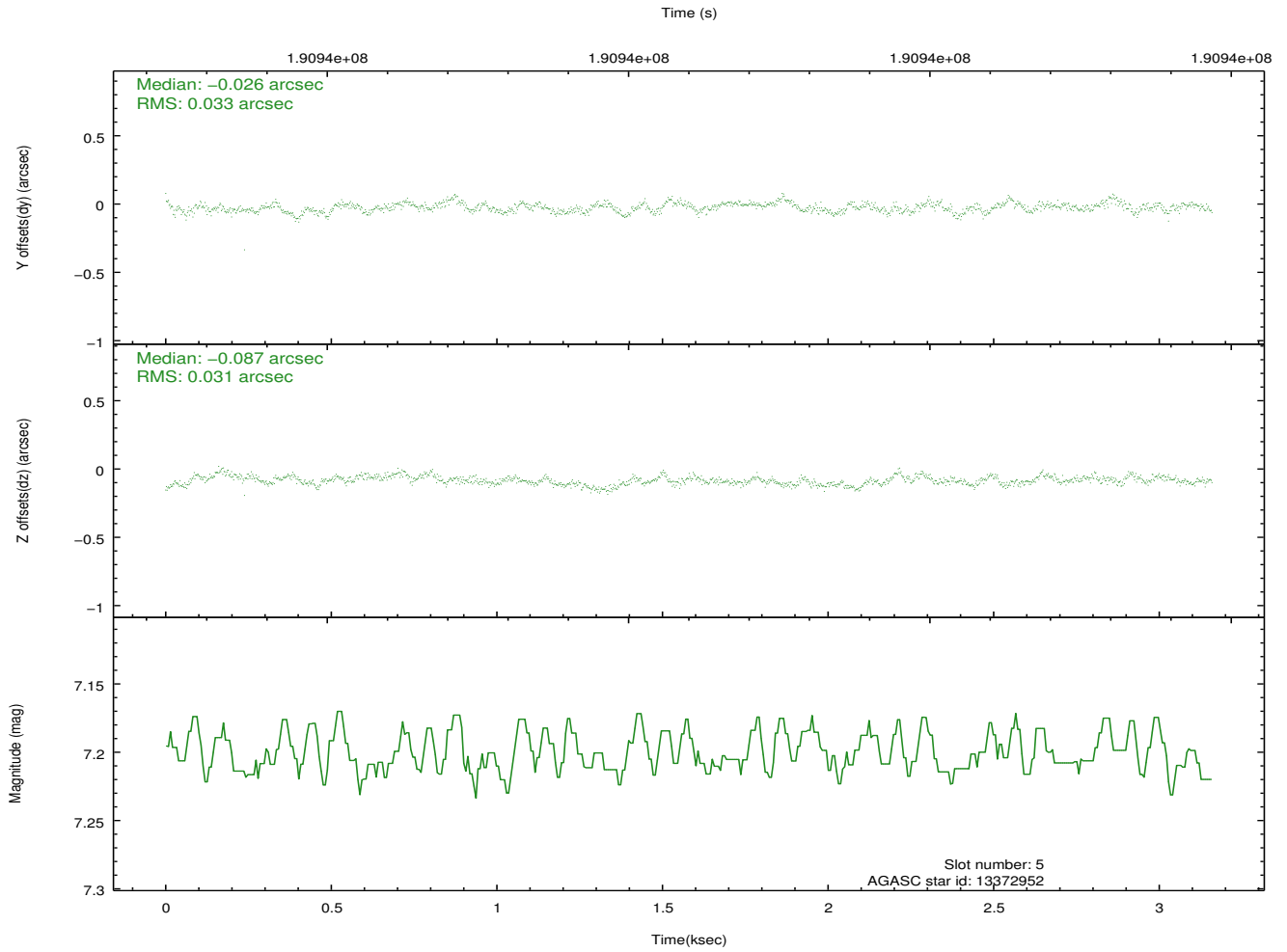
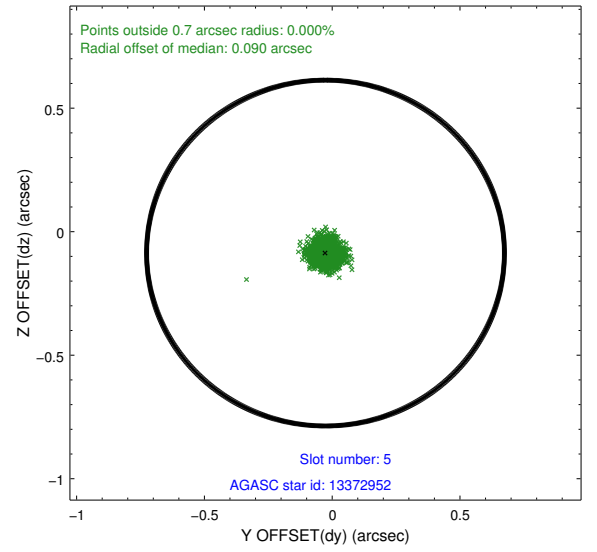
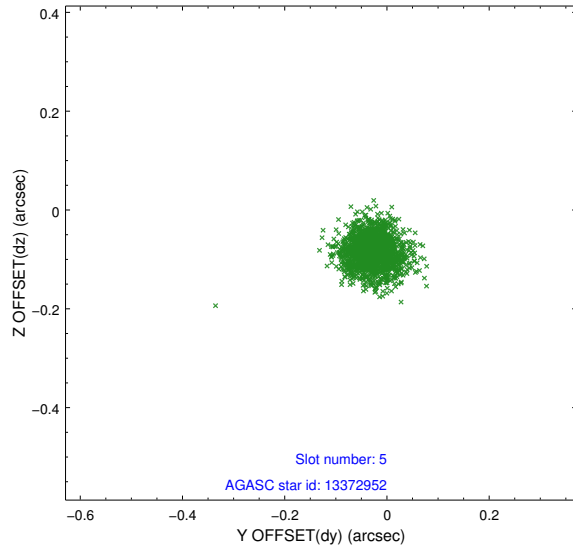
### 2.4.1 Slot 3



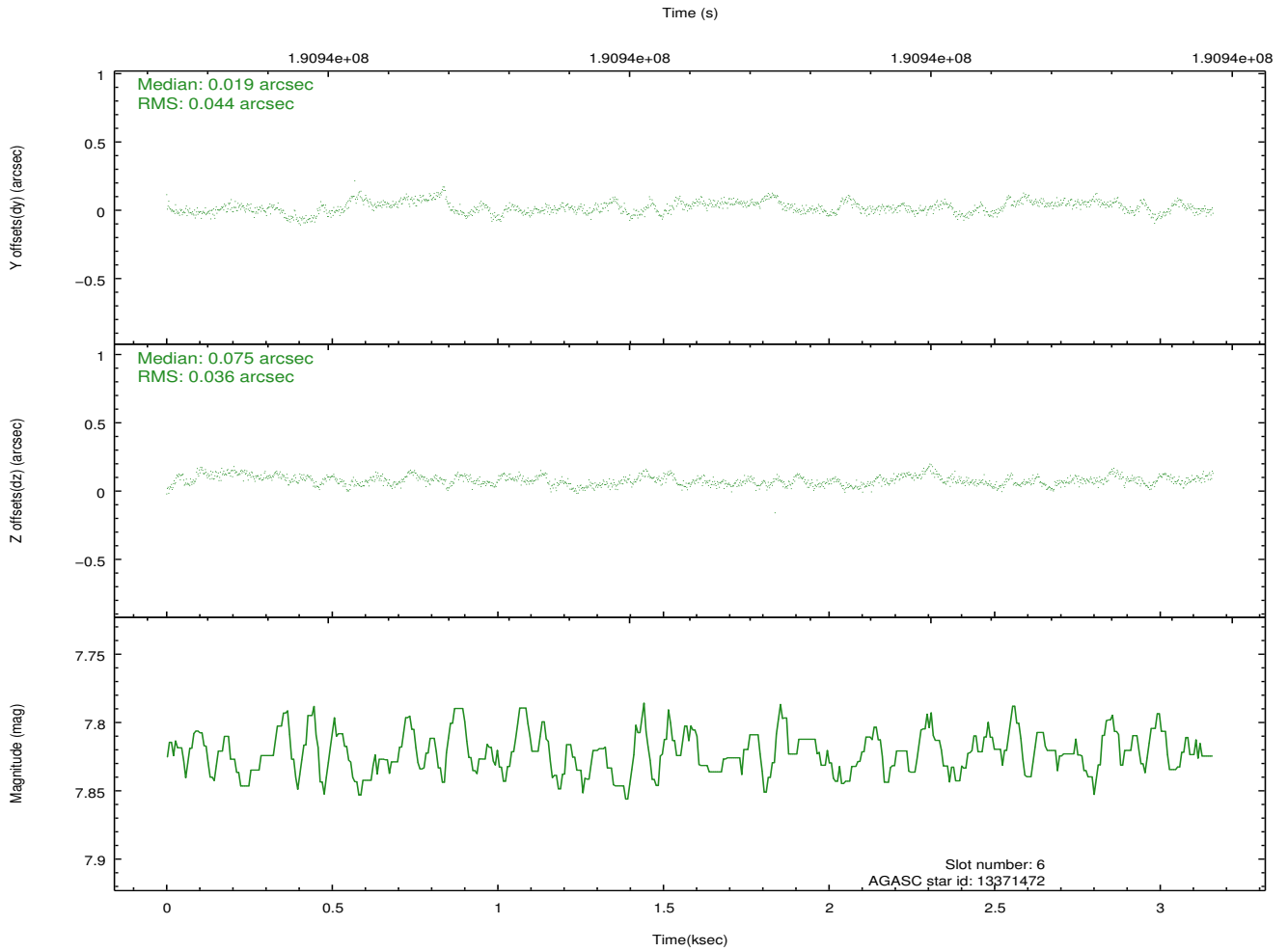
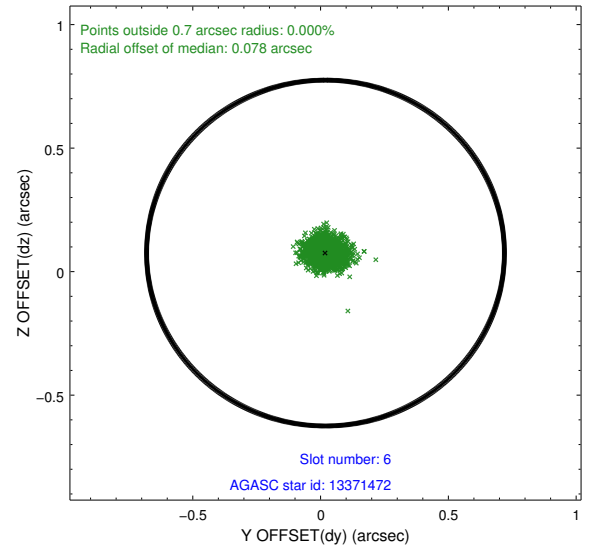
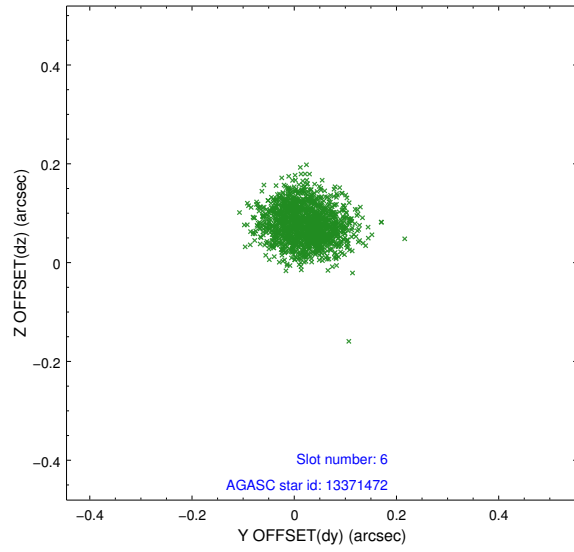
## 2.4.2 Slot 4



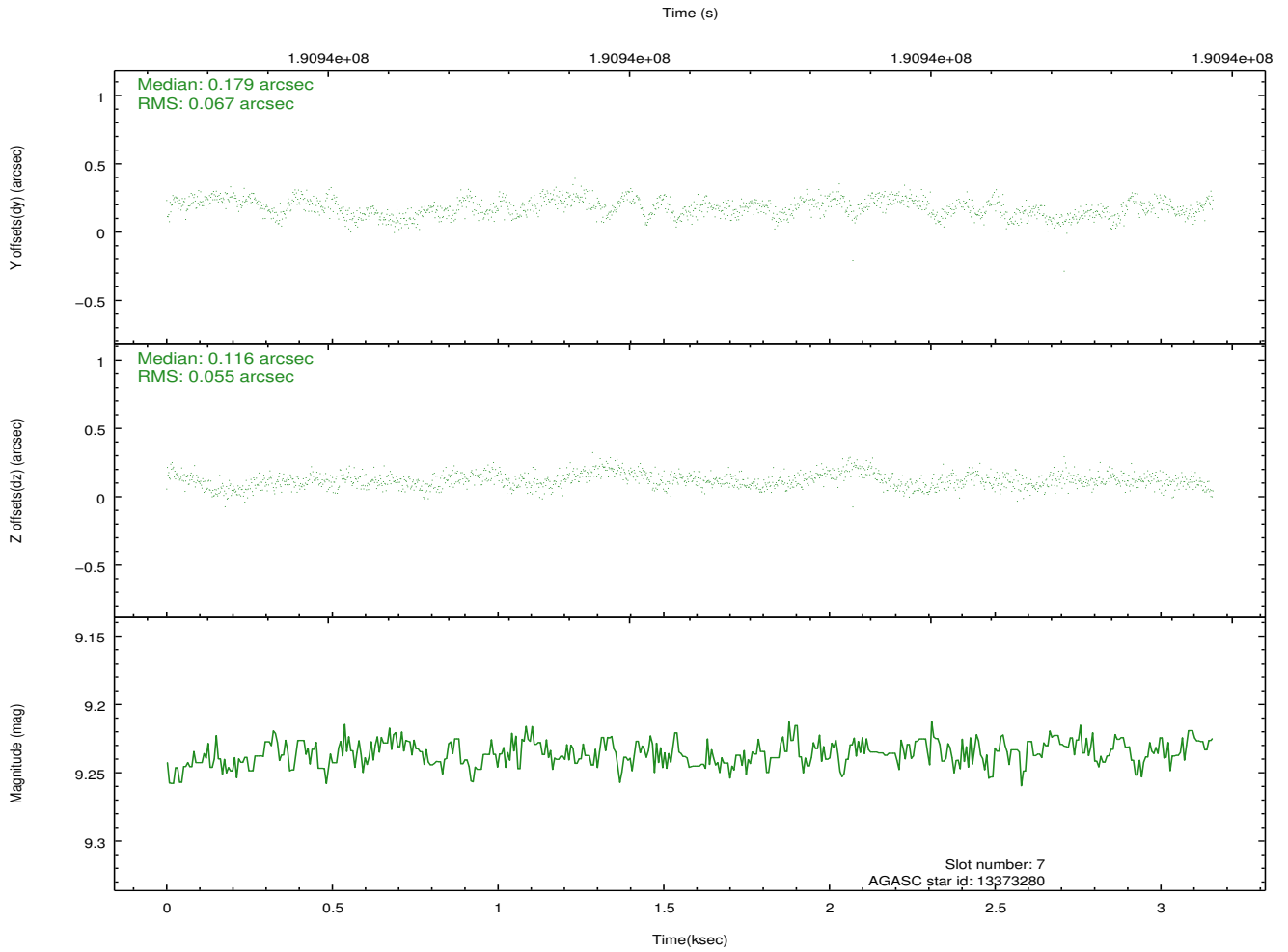
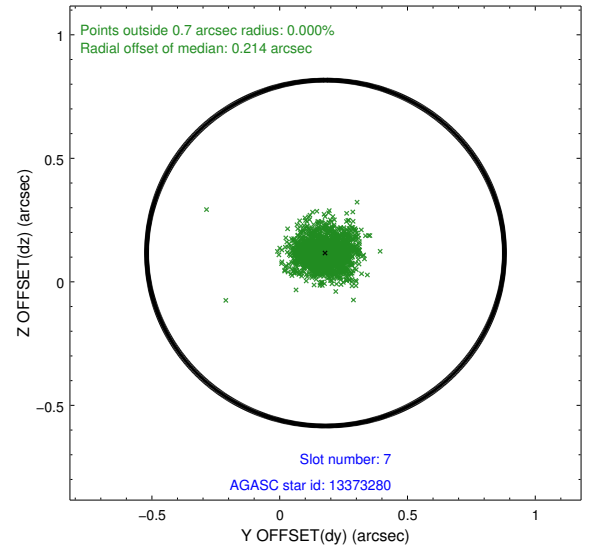
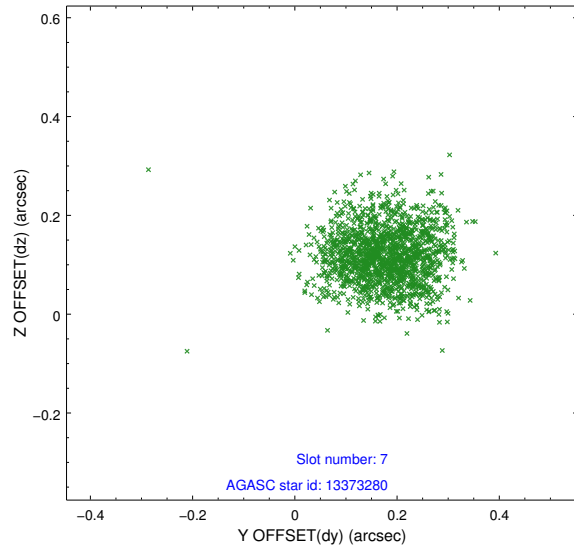
### 2.4.3 Slot 5



## 2.4.4 Slot 6

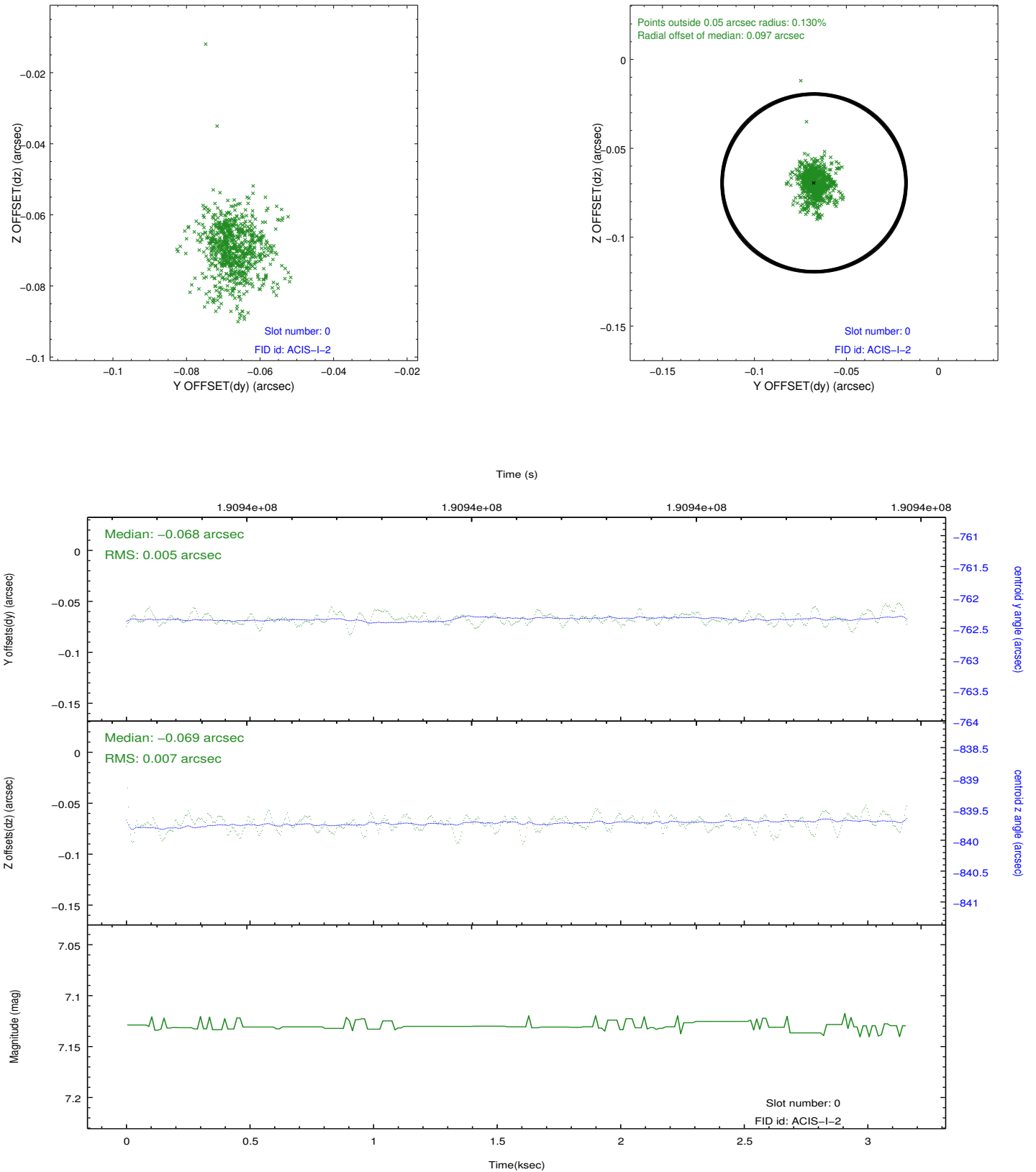


## 2.4.5 Slot 7

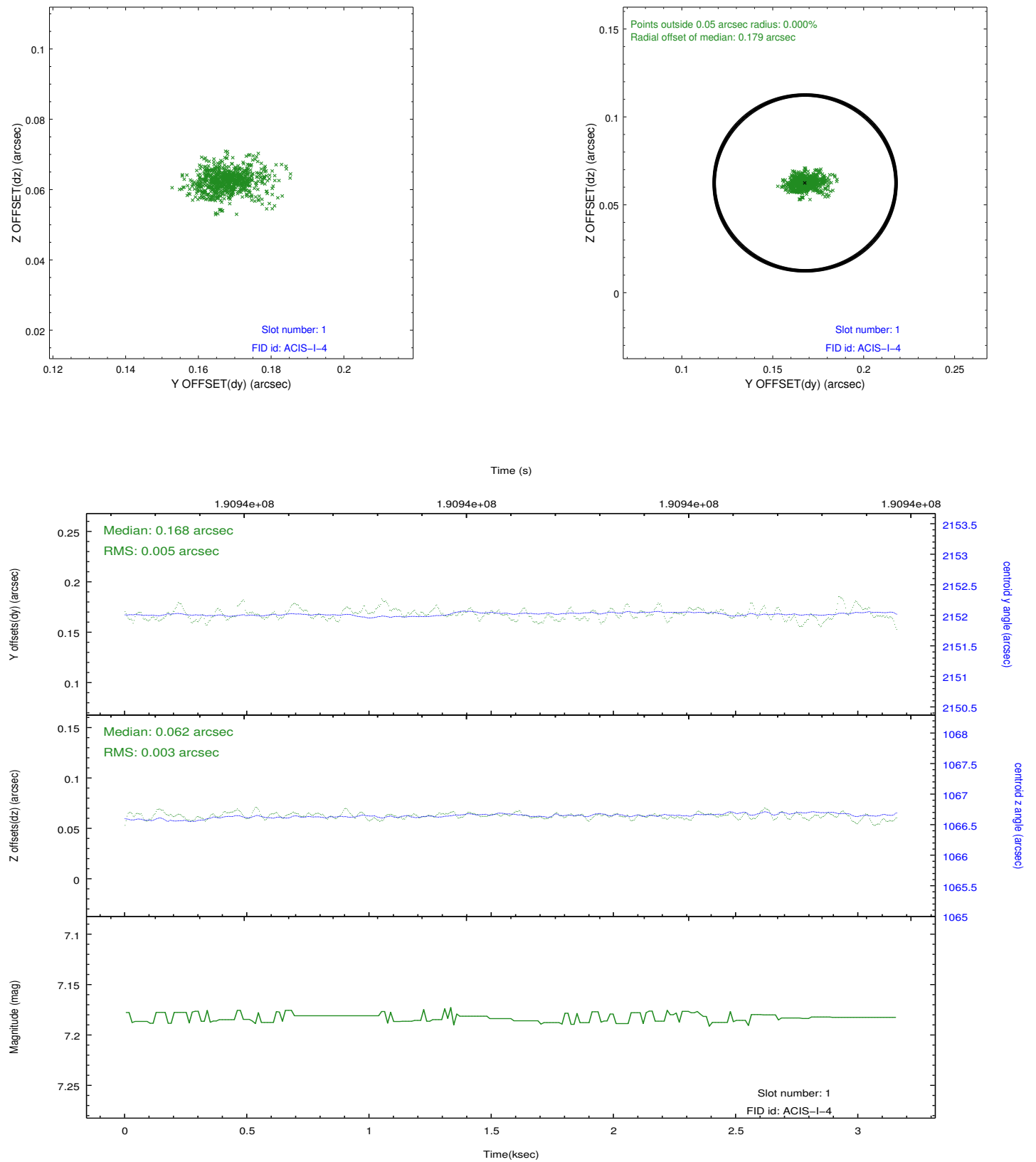


## 2.5 FID Slots

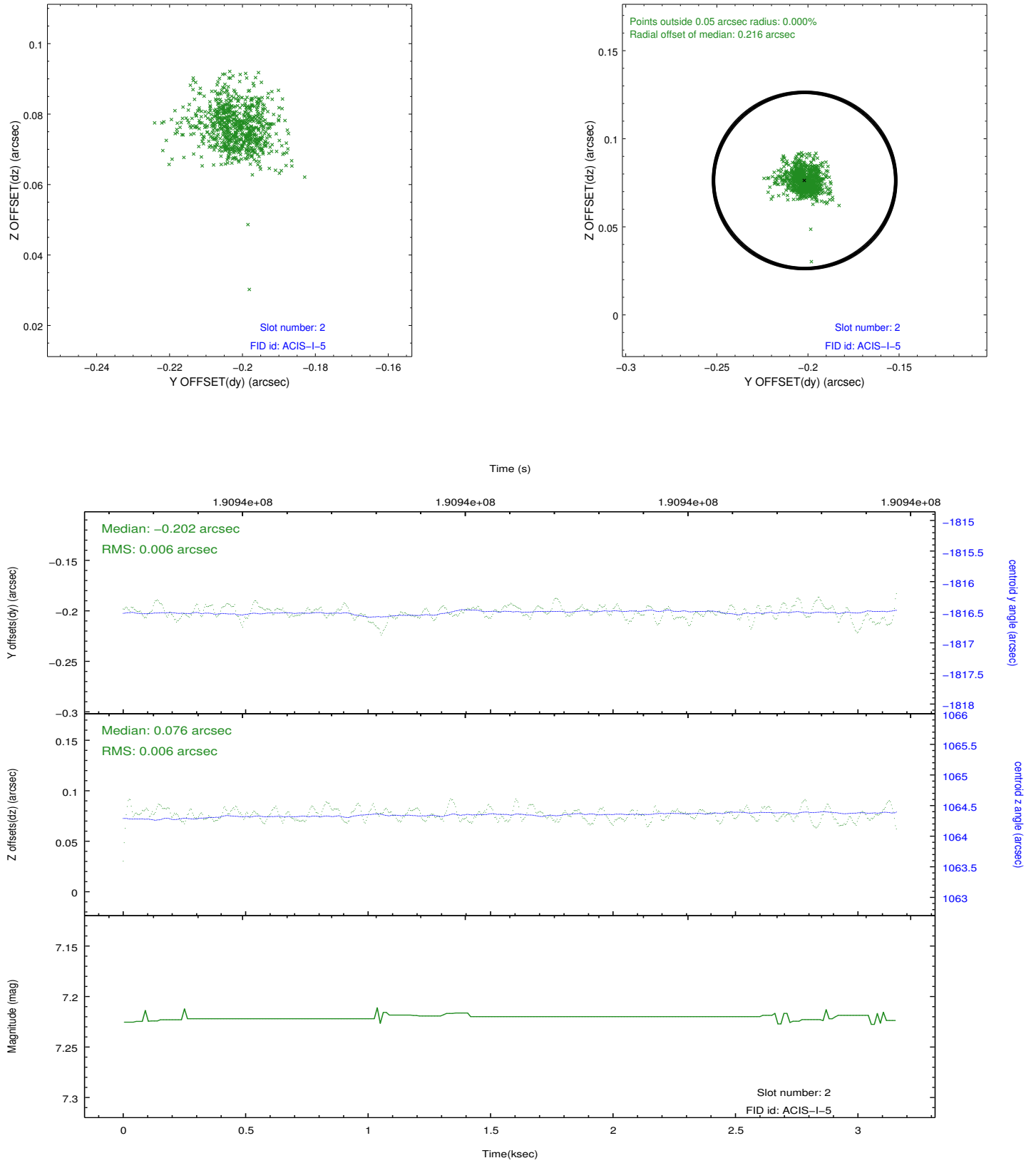
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.11.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.151

### A.2 Comments