

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 13977 - L2 Version 1  
Chandra X-Ray Center

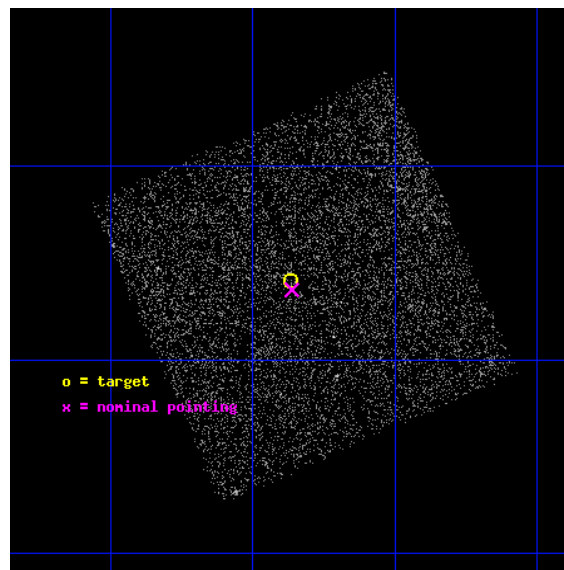
L2 Processing Date : Jul 1 2012

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# 1 Front

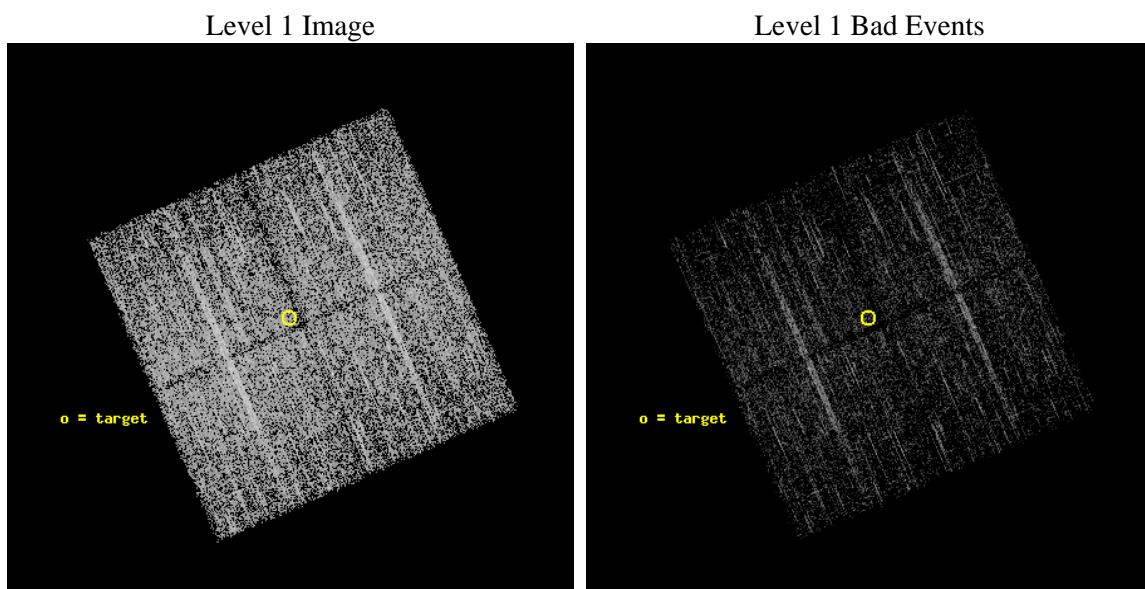
seq_num	702698	Sequence number
obs_id	13977	Observation id
title	Chandra observations of the faintest hard X-ray sources in the SIX survey	Proposal title
observer	Dr Eugenio Bottacini	Principal investigator
object	six-2	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	183.091667	Observer's specified target RA [deg]
dec_targ	-7.5985	Observer's specified target Dec [deg]
ra_nom	183.09081919876	Nominal RA [deg]
dec_nom	-7.6065059218104	Nominal Dec [deg]
roll_nom	246.35703357065	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5087.1000391245	Sum of GTIs [s]
livetime	5020.6333320448	Livetime [s]
ontime0	5087.1000391245	Sum of GTIs [s]
ontime1	5087.1000391245	Sum of GTIs [s]
ontime2	5087.1000391245	Sum of GTIs [s]
ontime3	5087.1000391245	Sum of GTIs [s]
l2events	12152	Number of level 2 events



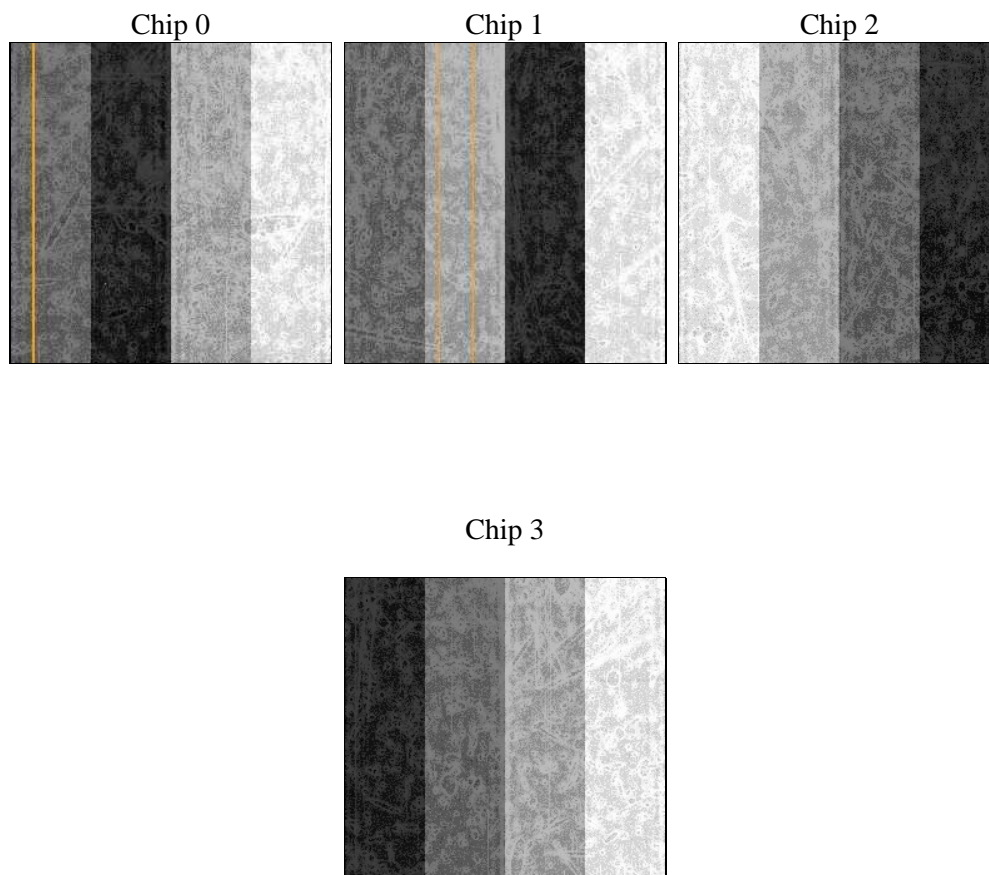
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5087.1000391245	Sum of GTIs [s]
caldsver	4.5.0	&#160	ontime0	5087.1000391245	Sum of GTIs [s]
date	2012-07-01T16:04:17	Date and time of file creation	ontime1	5087.1000391245	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5087.1000391245	Sum of GTIs [s]
			ontime3	5087.1000391245	Sum of GTIs [s]
			l1events	111780	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	26909	27511	29147	28213
rejected events	23307	23450	25711	24867
rejected %	86%	85%	88%	88%

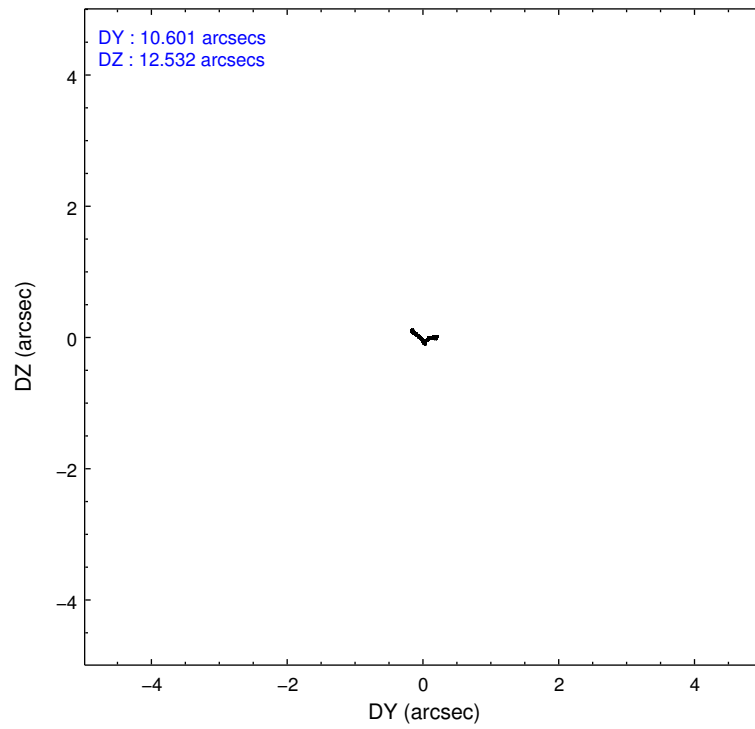
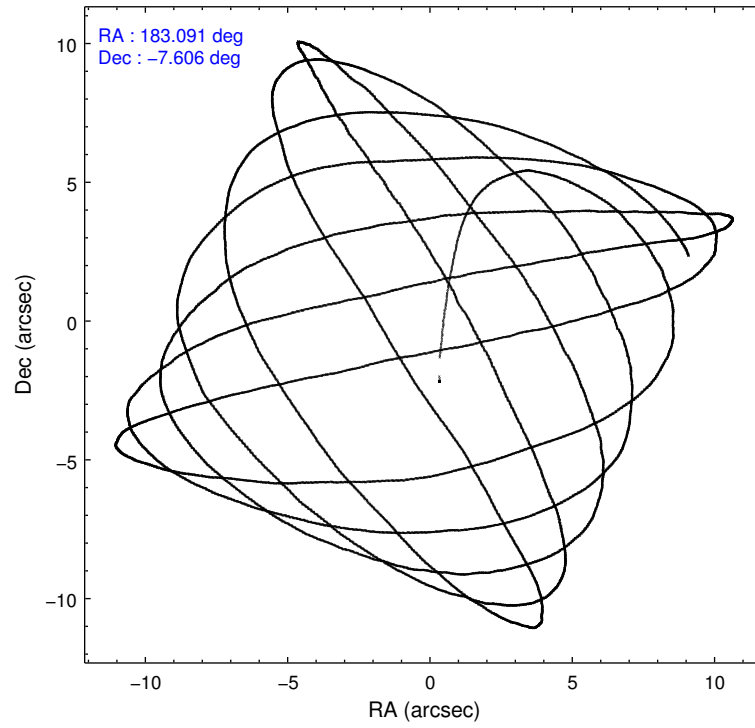
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1340	1501	1324	1235
	4%	5%	4%	4%
grade 1 events	17	16	16	19
	0%	0%	0%	0%
grade 2 events	853	950	824	710
	3%	3%	2%	2%
grade 3 events	382	372	321	361
	1%	1%	1%	1%
grade 4 events	329	356	328	339
	1%	1%	1%	1%
grade 5 events	1221	1471	1242	1524
	4%	5%	4%	5%
grade 6 events	703	885	644	705
	2%	3%	2%	2%
grade 7 events	22064	21960	24448	23320
	81%	79%	83%	82%

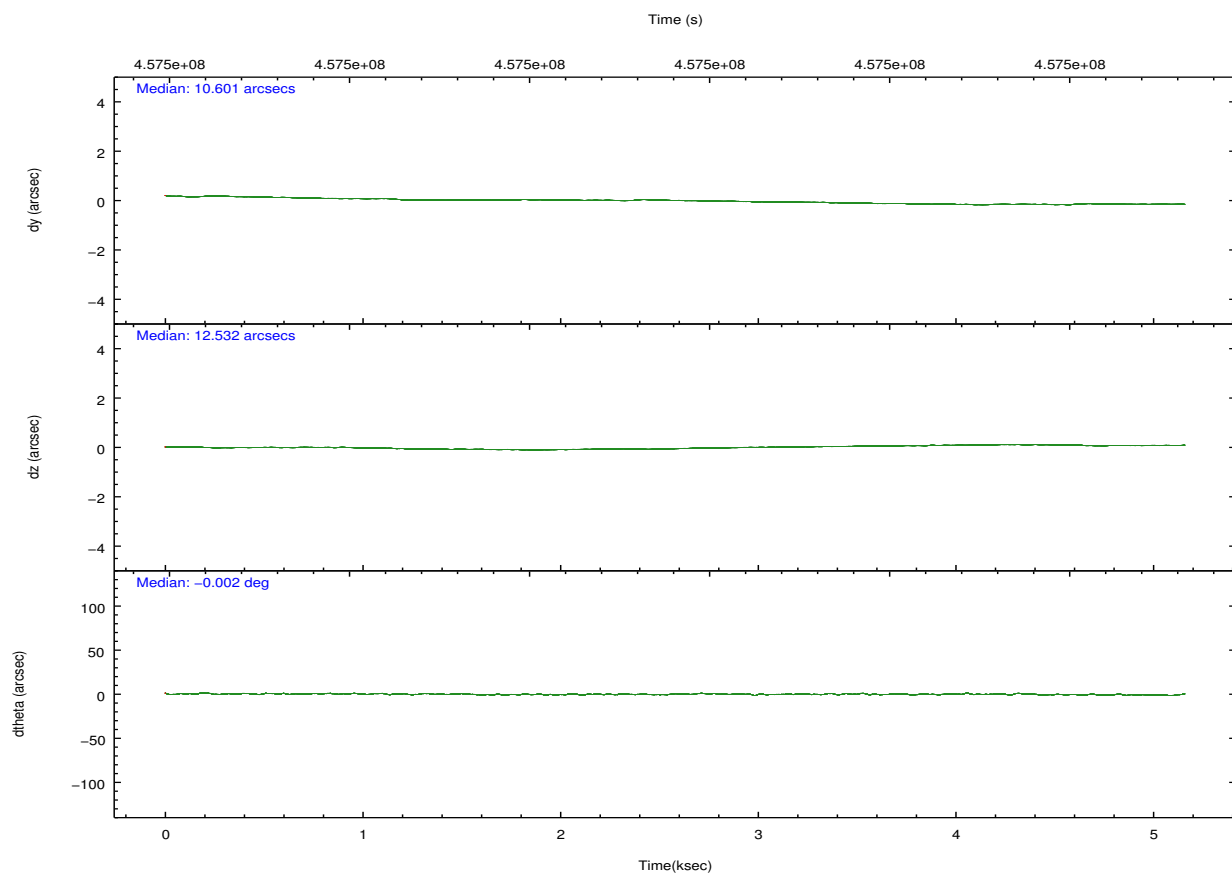
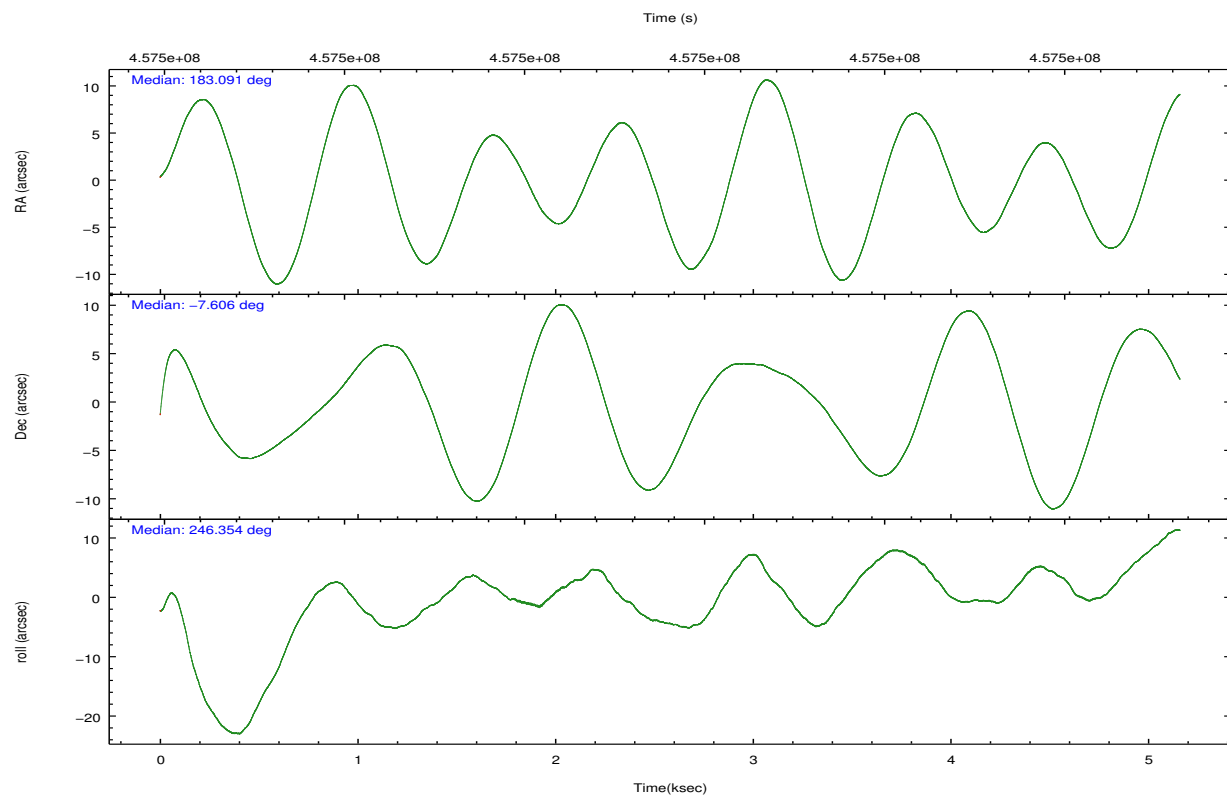


## 2.2 Compared Parameters

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	183.087587	183.0908191987641	Subarray requested	NONE	NONE
[deg] Pointing Dec	-7.579214	-7.606505921810374	Alternating exposures requested	N	N
[deg] Pointing Roll	246.147937	246.3570335706503	[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)	457499392.184000	457498294.90191			
Observation start date	2012-07-01T03:08:45	2012-07-01T02:51:34			
[s] Observation end time (MET)	457504392.184000	457505282.32728			
Observation end date	2012-07-01T04:32:05	2012-07-01T04:48:02			
Read mode	TIMED	TIMED			

## 2.3 Aspect



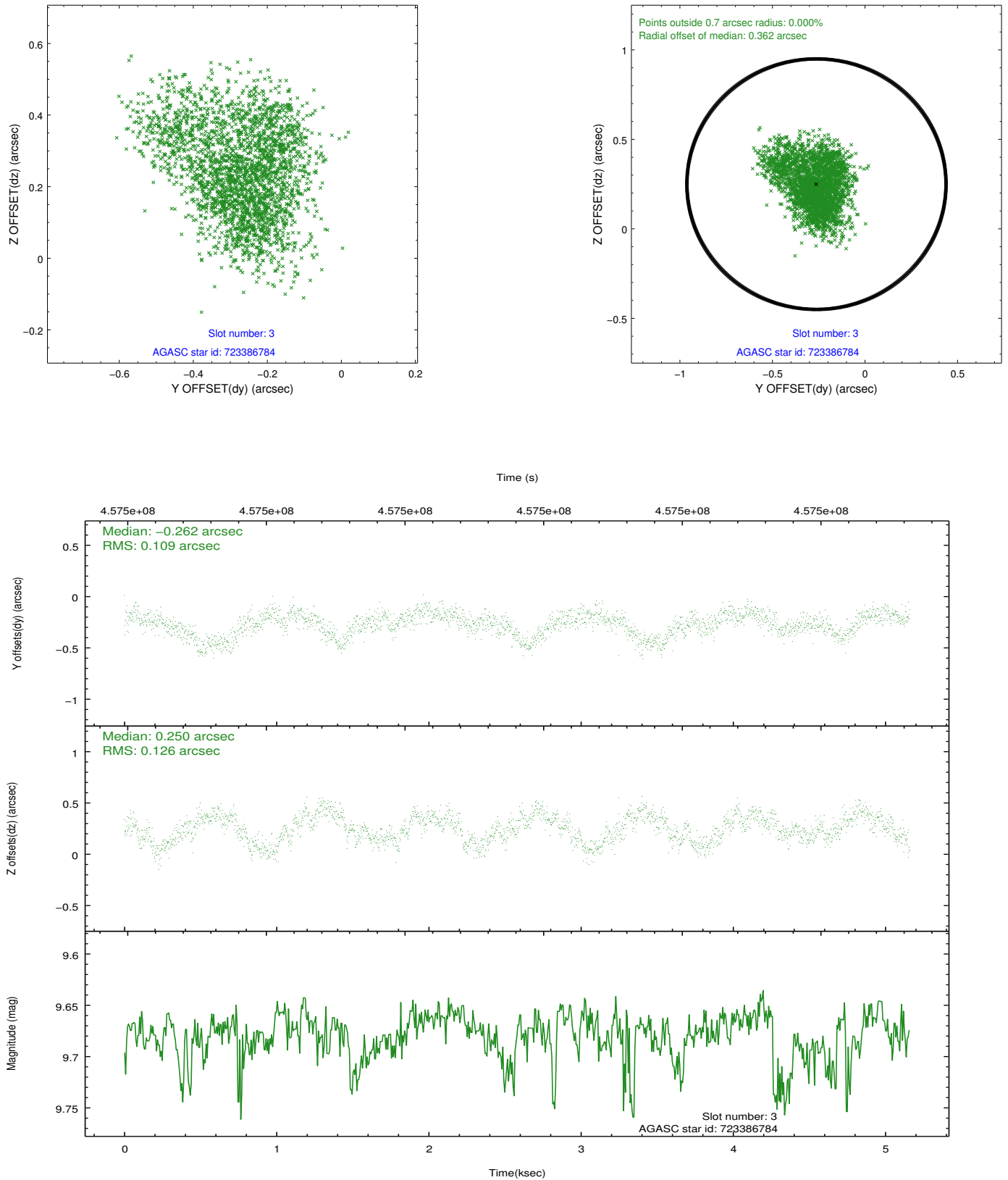


### Slot Statistics

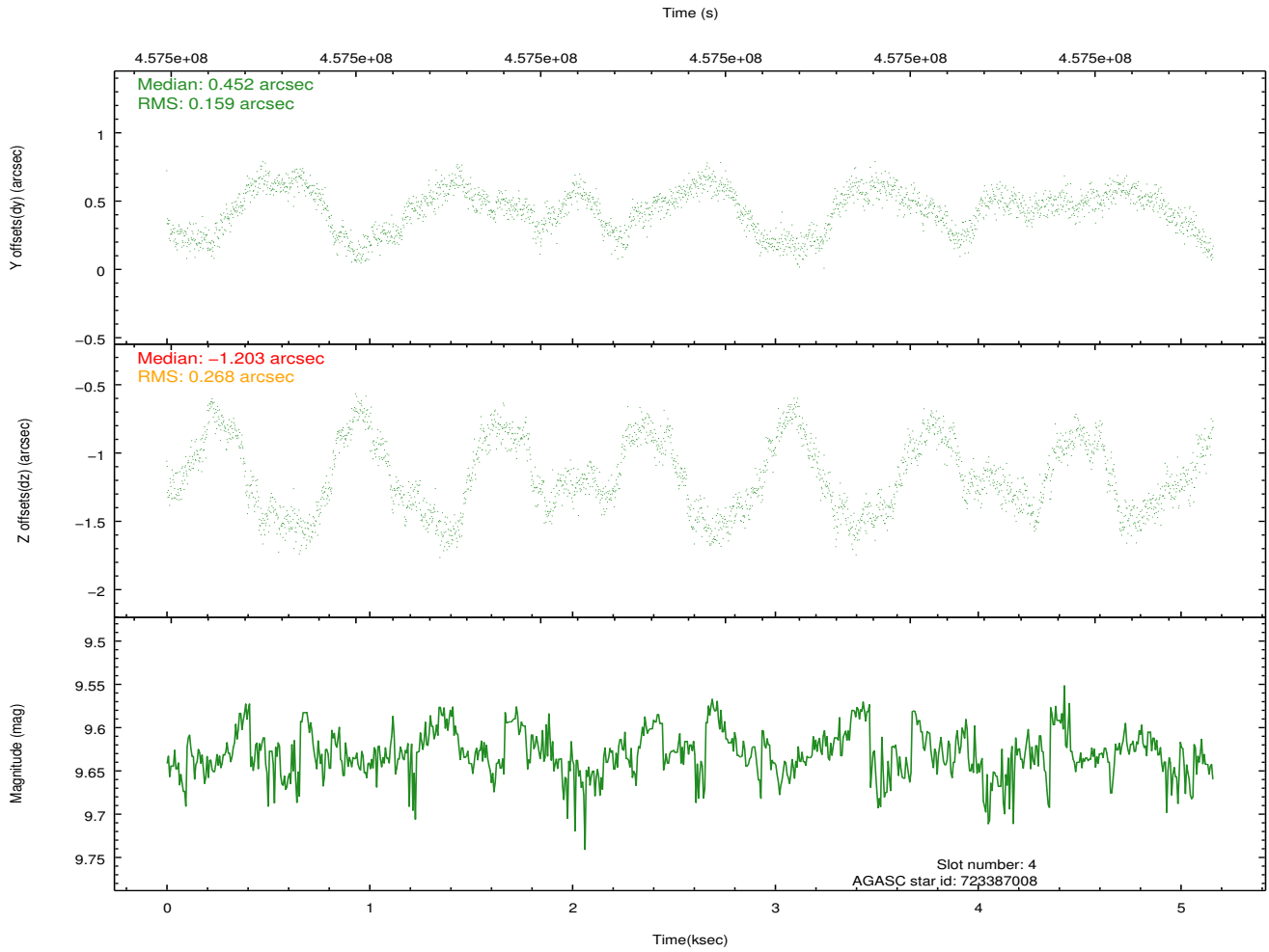
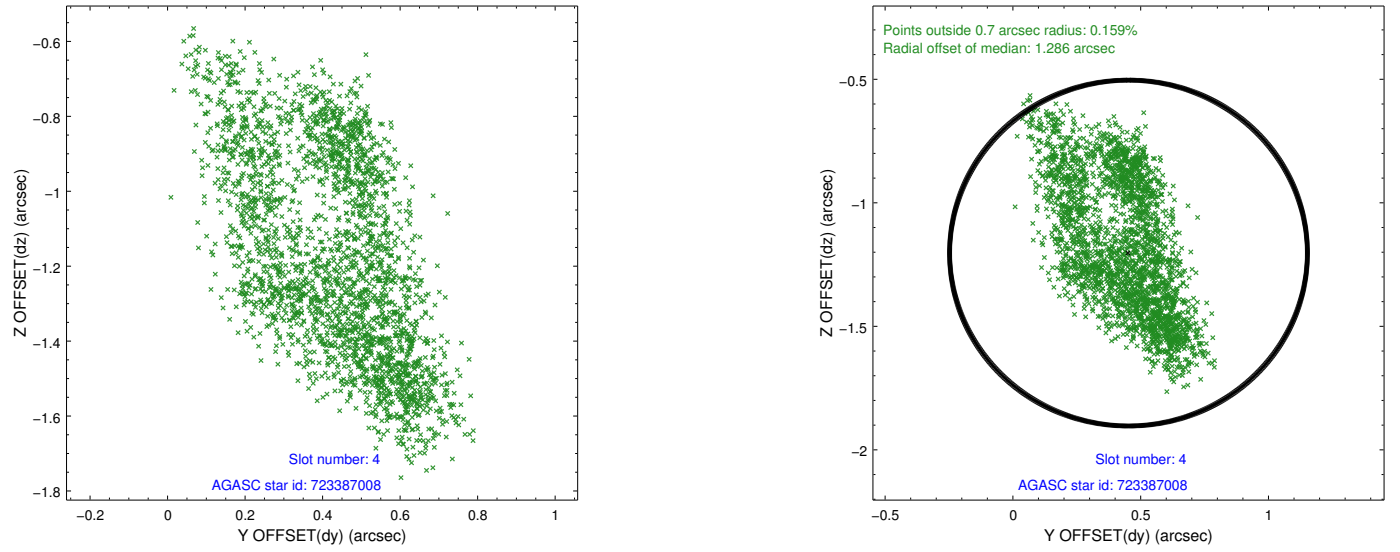
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.12	1259	0.105	-0.061	0.007	0.012	0.000000	0.000000	929.10	-836.14
1	FID	ACIS-I-5	7.10	1259	-0.244	0.098	0.006	0.010	0.000000	0.000000	-1818.69	1060.94
2	FID	ACIS-I-6	7.11	1259	0.048	0.033	0.007	0.013	0.000000	0.000000	393.33	1706.69
3	GUIDE	723386784	9.68	2512	-0.262	0.250	0.179	0.283	183.317706	-7.715723	117.78	949.89
4	GUIDE	723387008	9.63	2517	0.452	-1.203	0.341	0.513	182.905805	-7.606367	352.76	-554.22
5	GUIDE	723387160	9.39	2516	0.136	0.211	0.128	0.199	182.701321	-7.573283	539.22	-1268.84
6	GUIDE	723387792	9.12	2506	-0.205	0.293	0.163	0.257	183.452955	-8.123664	1267.30	1984.24
7	GUIDE	648283824	9.96	2501	-0.103	0.421	0.186	0.287	182.915839	-6.789897	-2349.55	-1709.22

## 2.4 Star Slots

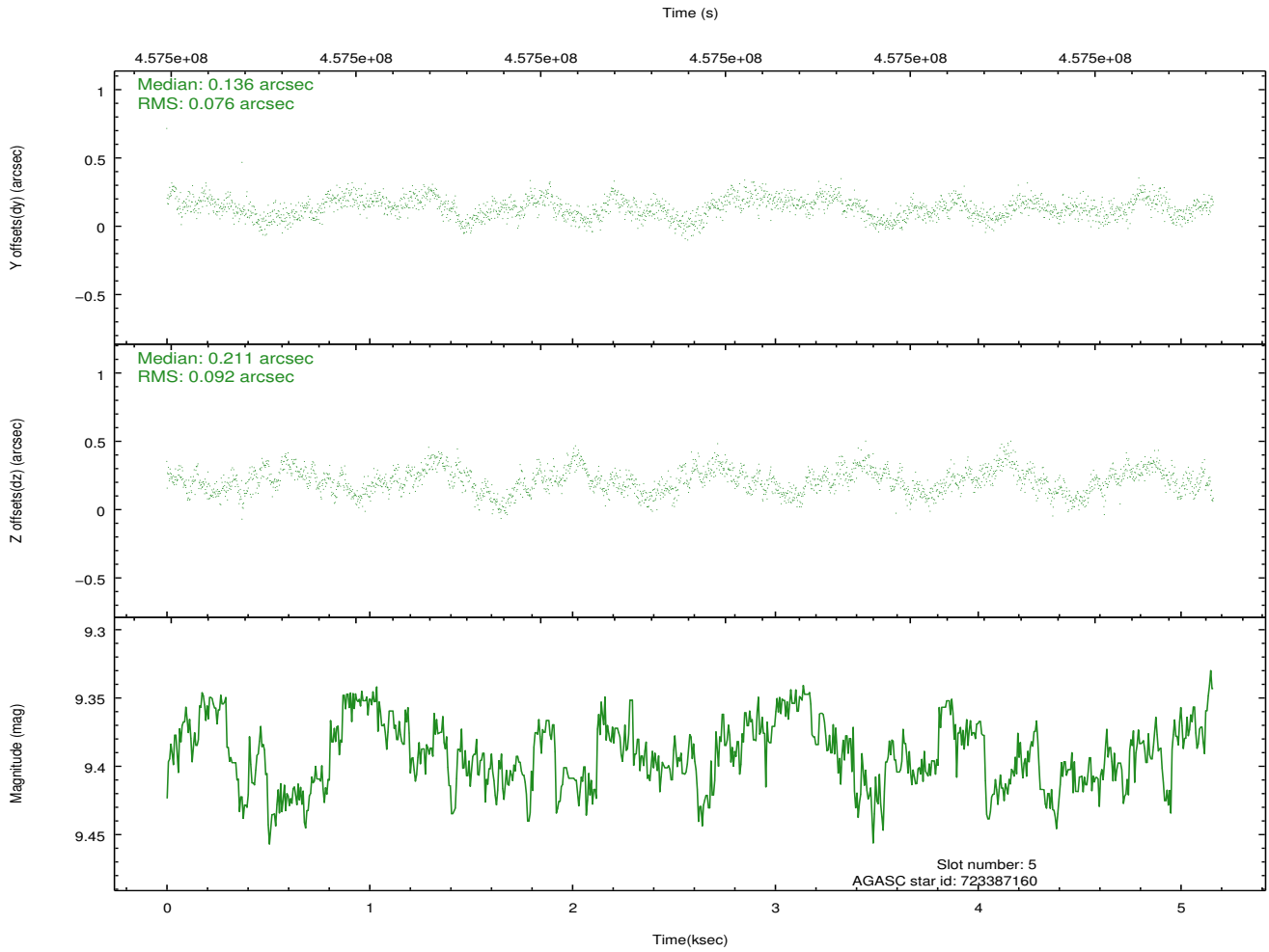
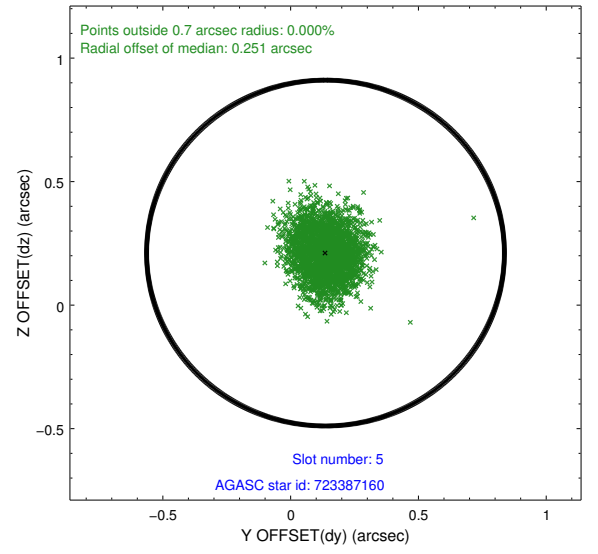
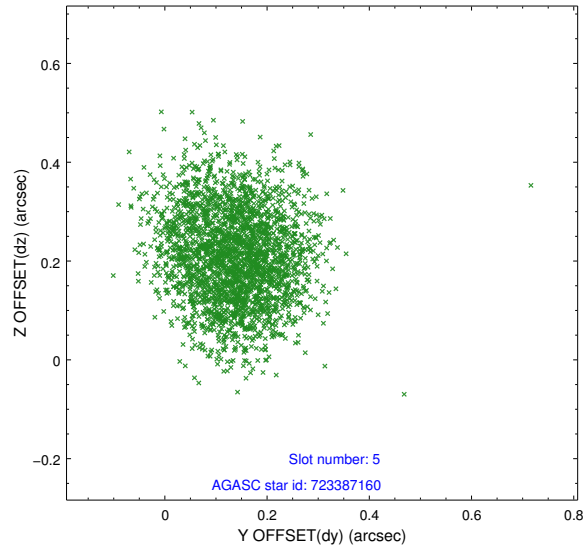
### 2.4.1 Slot 3



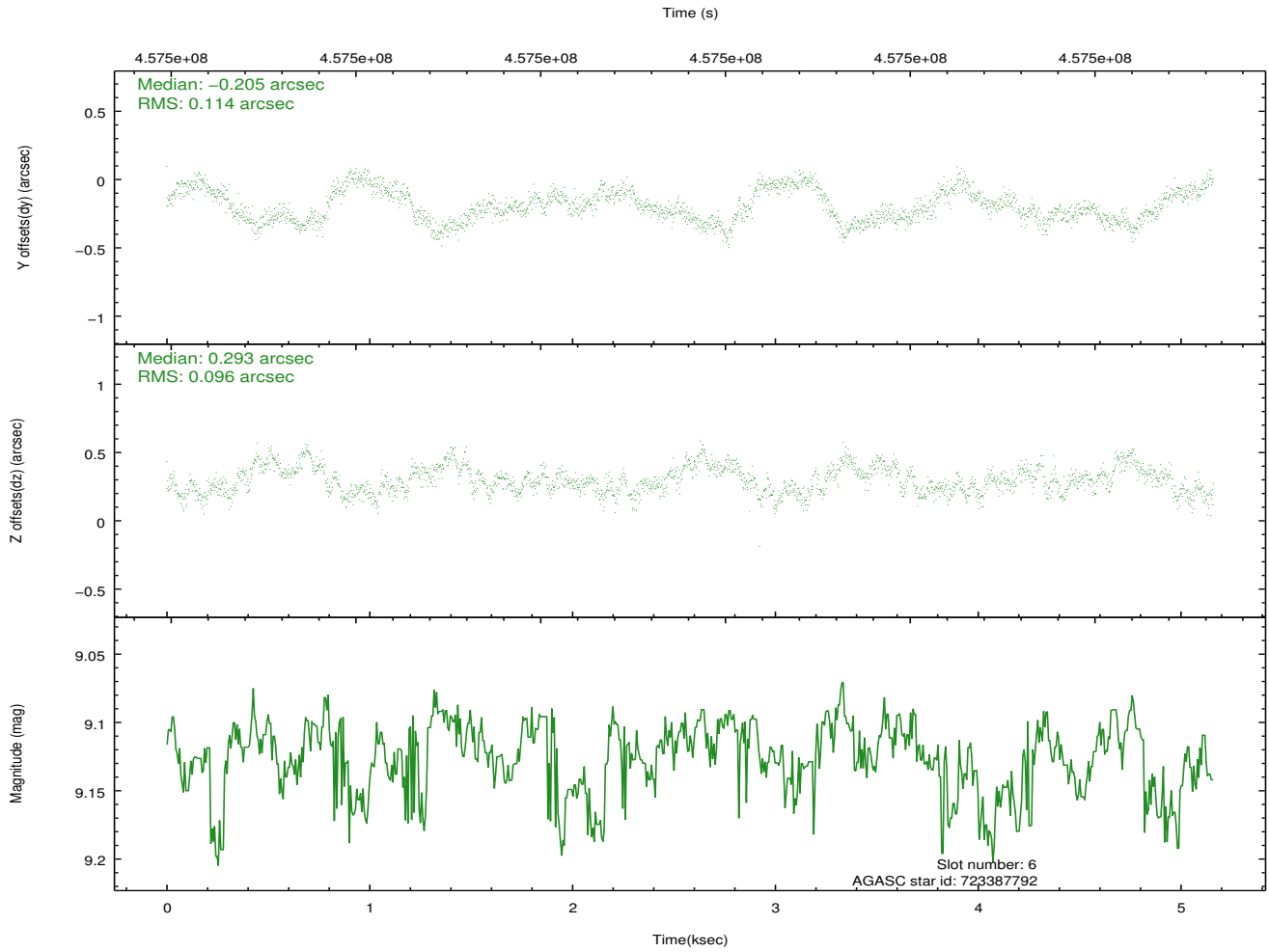
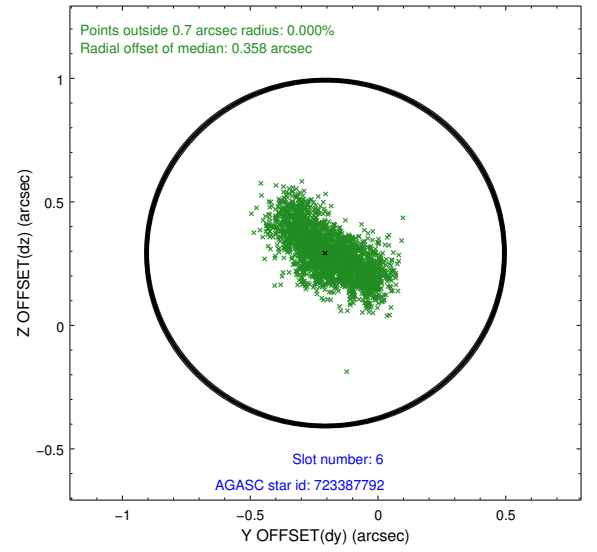
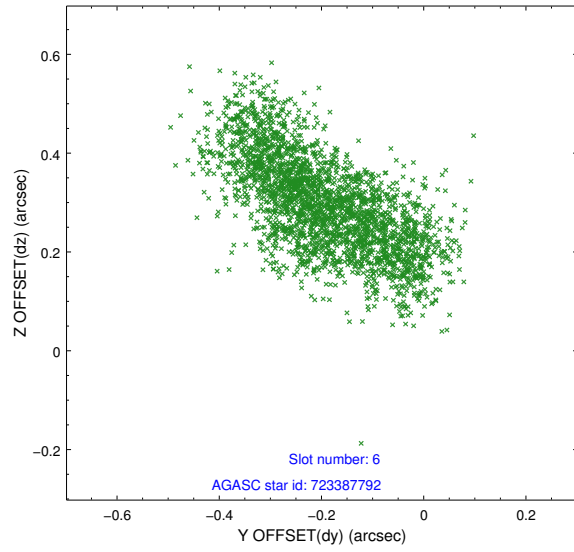
## 2.4.2 Slot 4



### 2.4.3 Slot 5

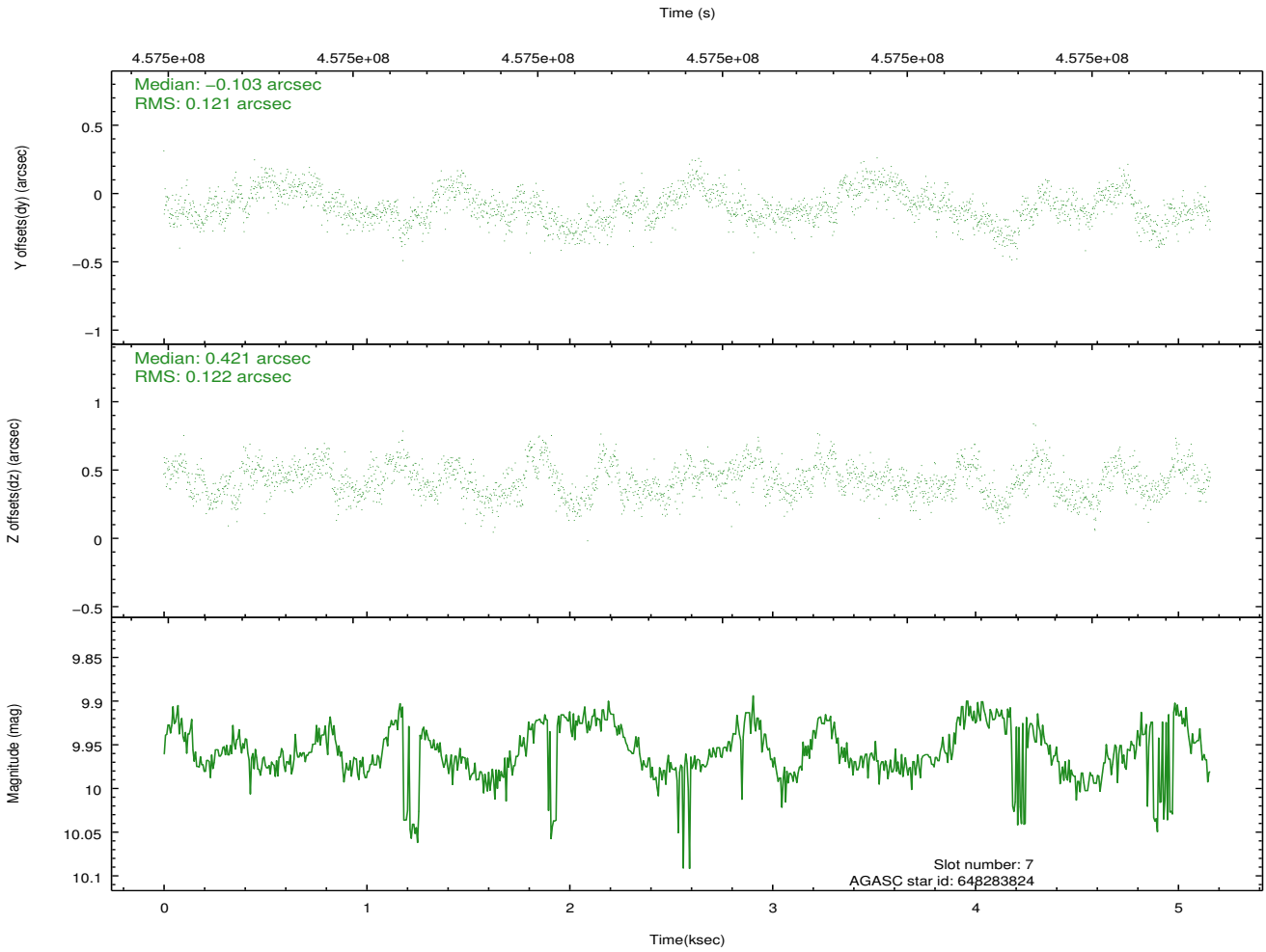
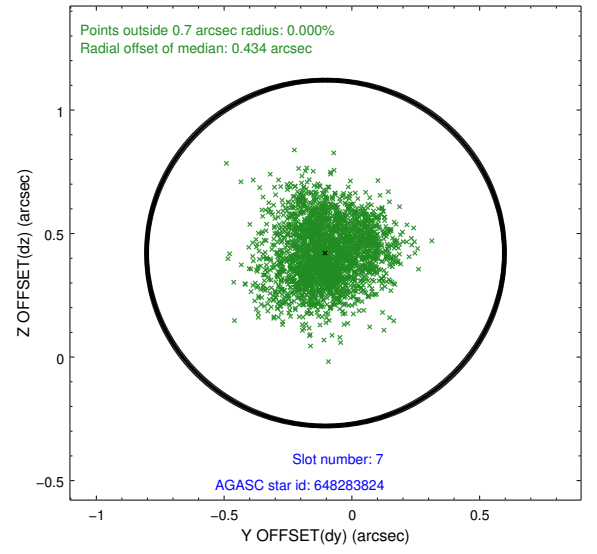
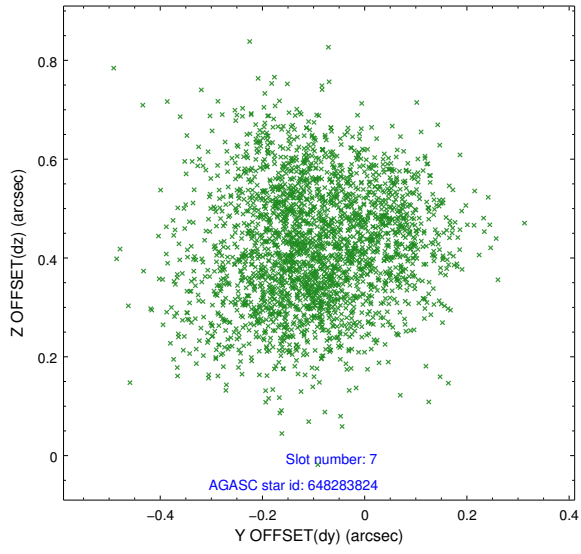


## 2.4.4 Slot 6



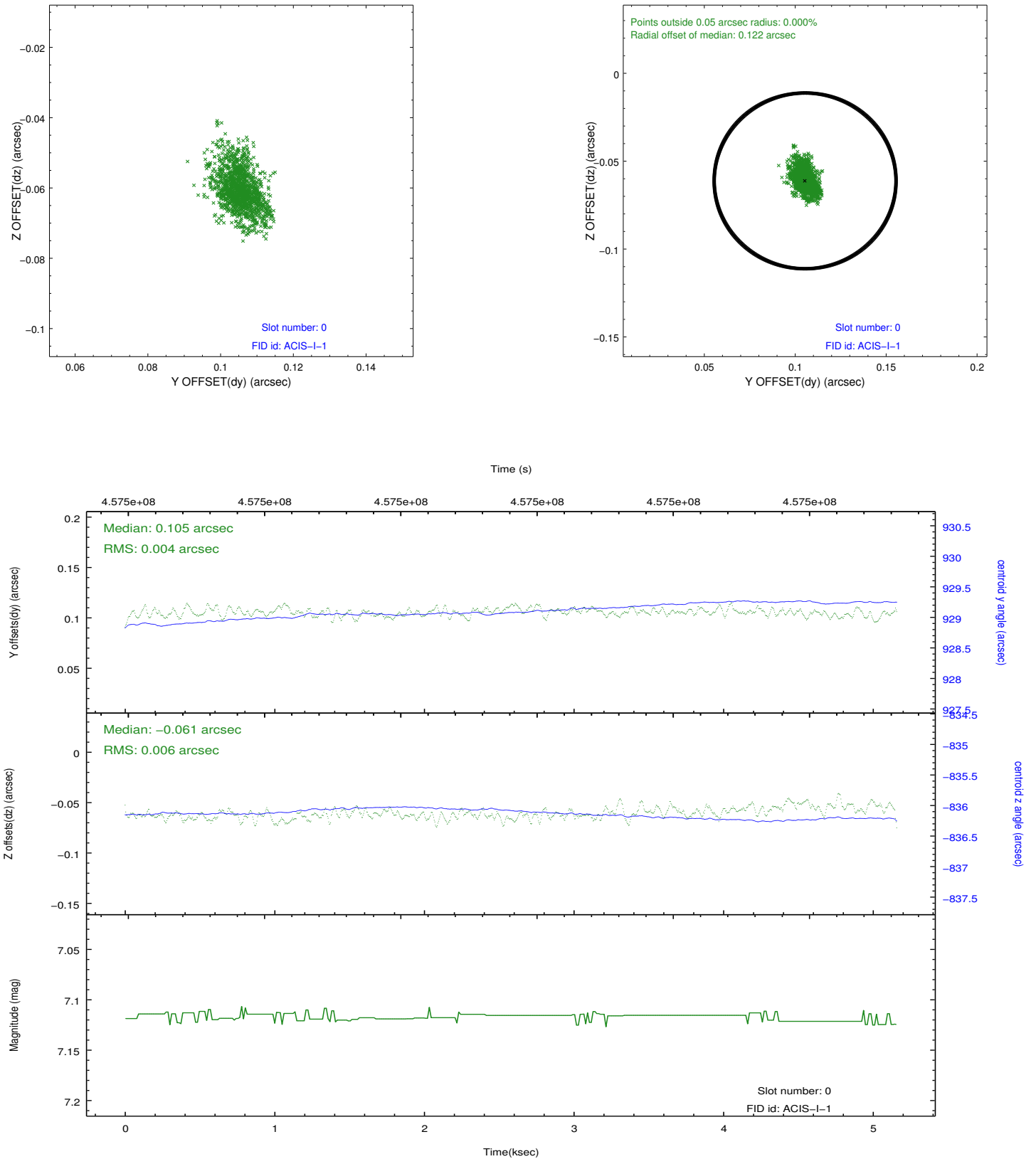


## 2.4.5 Slot 7

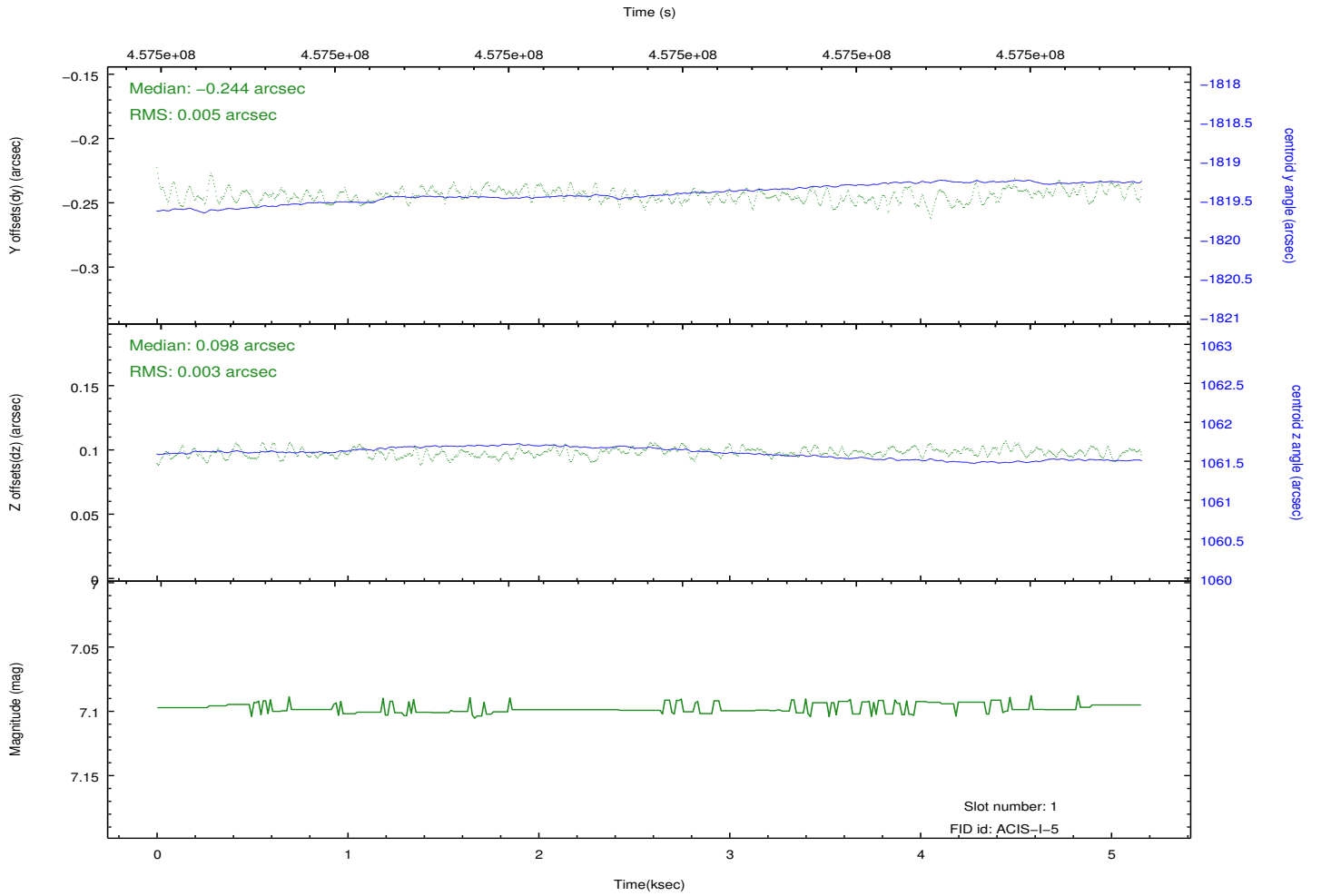
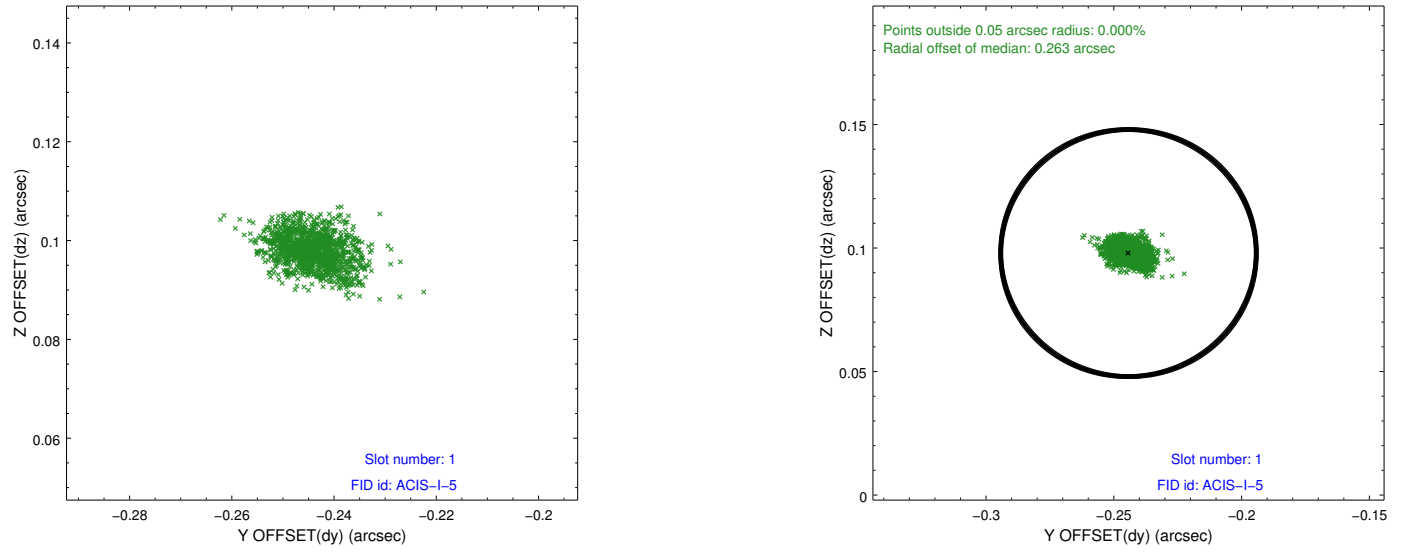


## 2.5 FID Slots

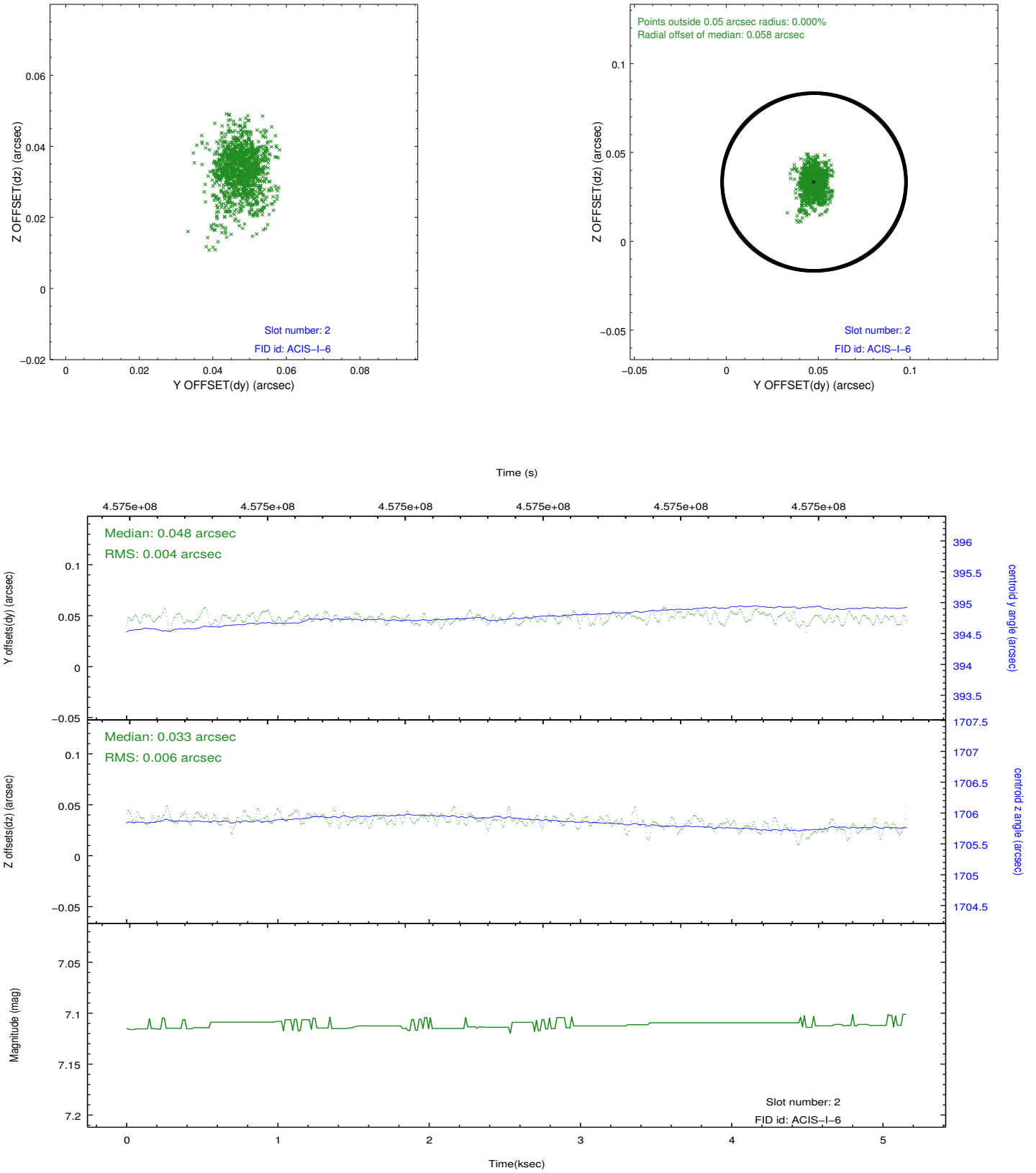
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.07.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0871000391245

### A.2 Comments