

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 17662 - L2 Version 1  
Chandra X-Ray Center

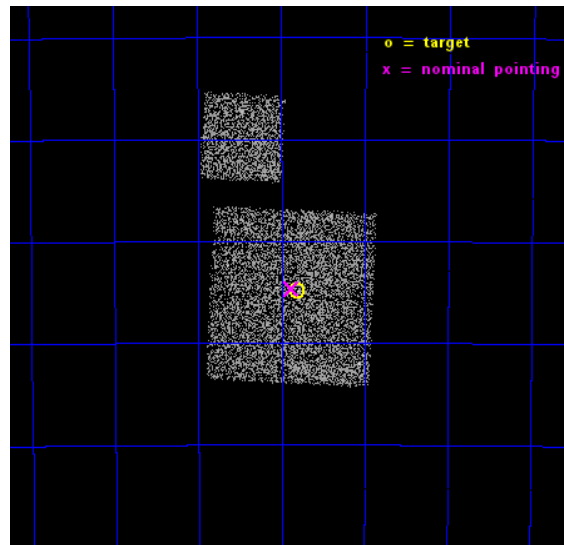
L2 Processing Date : May 21 2015

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# 1 Front

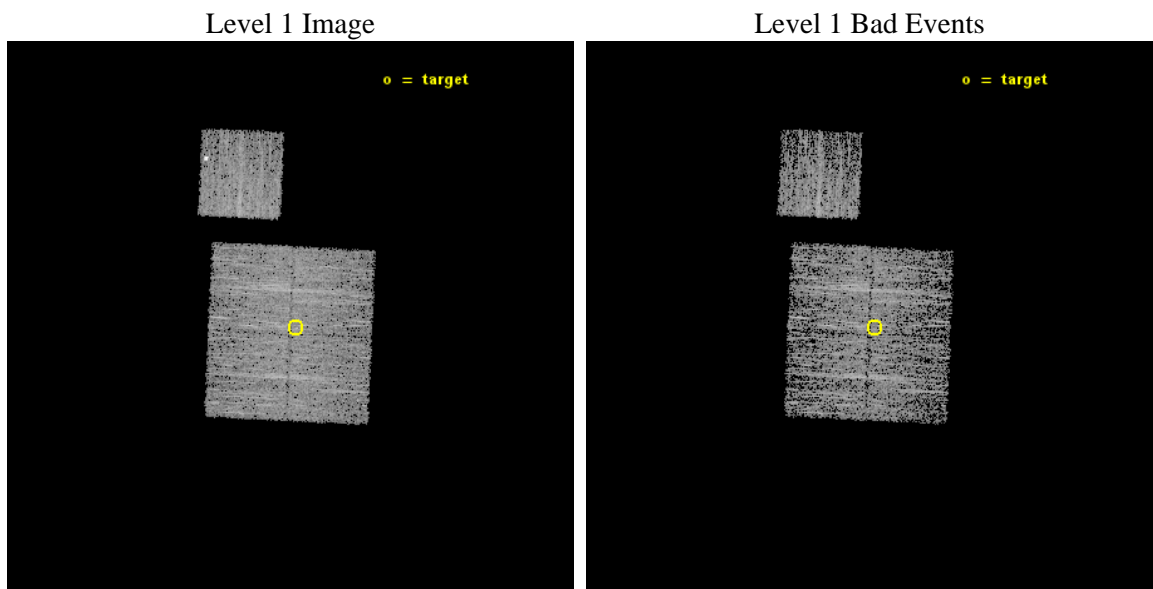
seq_num	401693	Sequence number
obs_id	17662	Observation id
title	Snapshot observations of 2S1553-542: determination of the source nature	Proposal title
observer	DR. ALEXANDER LUTOVINOV	Principal investigator
object	2S1553-542	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	239.454167	Observer's specified target RA [deg]
dec_targ	-54.415	Observer's specified target Dec [deg]
ra_nom	239.4701007843	Nominal RA [deg]
dec_nom	-54.411337523835	Nominal Dec [deg]
roll_nom	2.7160595939361	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5080.900039196	Sum of GTIs [s]
livetime	5014.5143396797	Livetime [s]
ontime0	5080.8970998526	Sum of GTIs [s]
ontime1	5080.900039196	Sum of GTIs [s]
ontime2	5080.900039196	Sum of GTIs [s]
ontime3	5080.900039196	Sum of GTIs [s]
ontime6	5080.8560597897	Sum of GTIs [s]
l2events	13768	Number of level 2 events



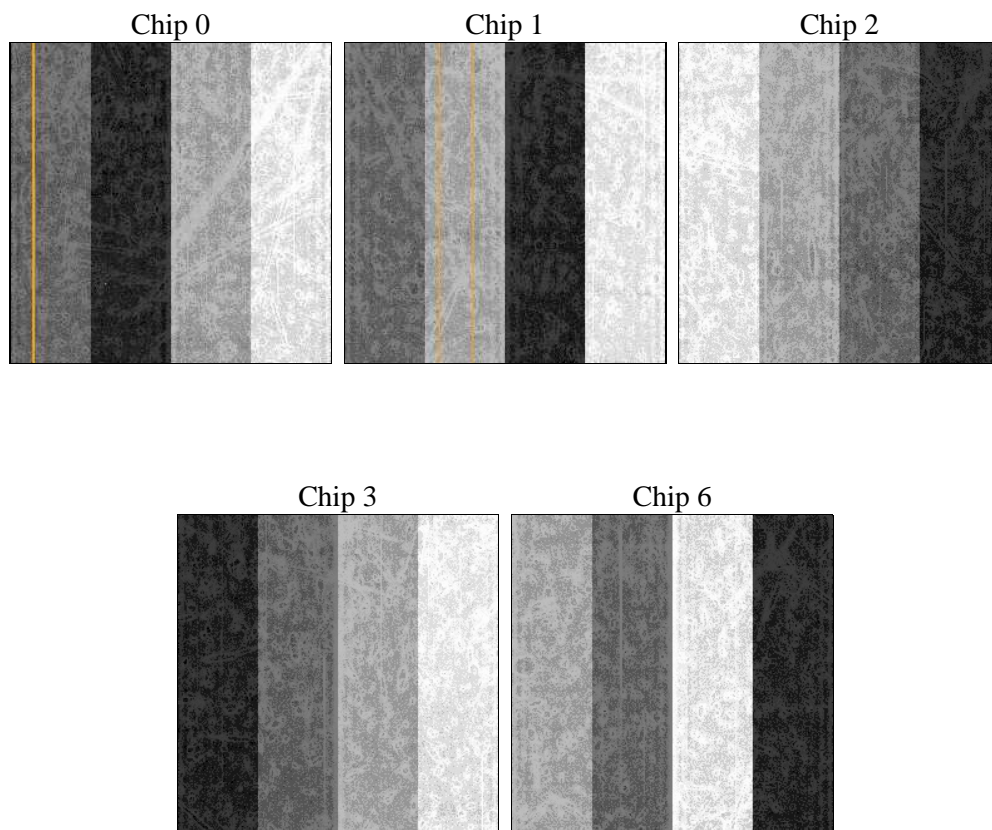
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	5080.900039196	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime0	5080.8970998526	Sum of GTIs [s]
date	2015-05-22T03:24:42	Date and time of file creation	ontime1	5080.900039196	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5080.900039196	Sum of GTIs [s]
			ontime3	5080.900039196	Sum of GTIs [s]
			ontime6	5080.8560597897	Sum of GTIs [s]
			l1events	121888	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	23726	22570	26565	23539	25488
rejected events	20533	19049	23428	20510	20693
rejected %	86%	84%	88%	87%	81%

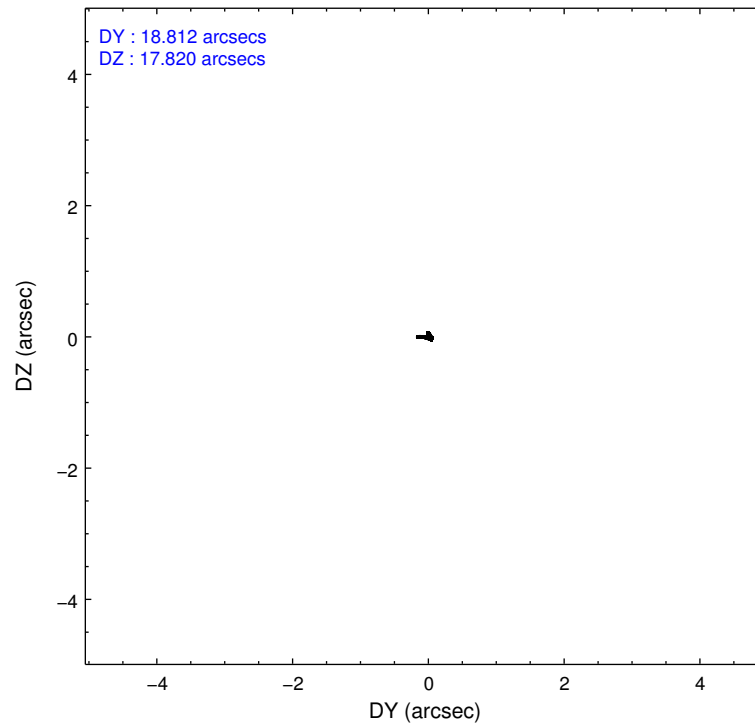
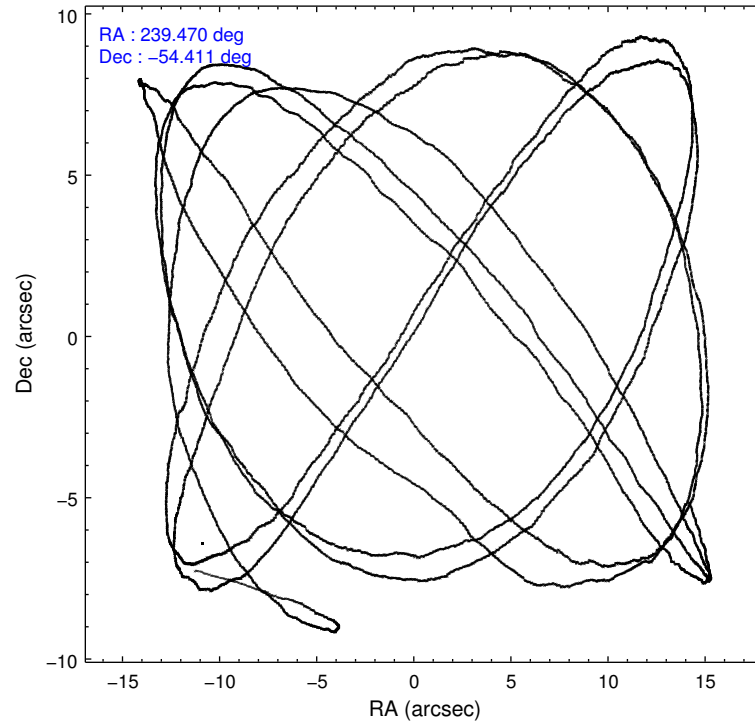
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	1198	1380	1284	1209	2764
	5%	6%	4%	5%	10%
grade 1 events	15	9	21	15	15
	0%	0%	0%	0%	0%
grade 2 events	783	753	735	667	711
	3%	3%	2%	2%	2%
grade 3 events	334	302	268	308	309
	1%	1%	1%	1%	1%
grade 4 events	289	360	286	283	321
	1%	1%	1%	1%	1%
grade 5 events	1186	1231	1117	1405	1299
	4%	5%	4%	5%	5%
grade 6 events	593	727	569	562	693
	2%	3%	2%	2%	2%
grade 7 events	19328	17808	22285	19090	19376
	81%	78%	83%	81%	76%

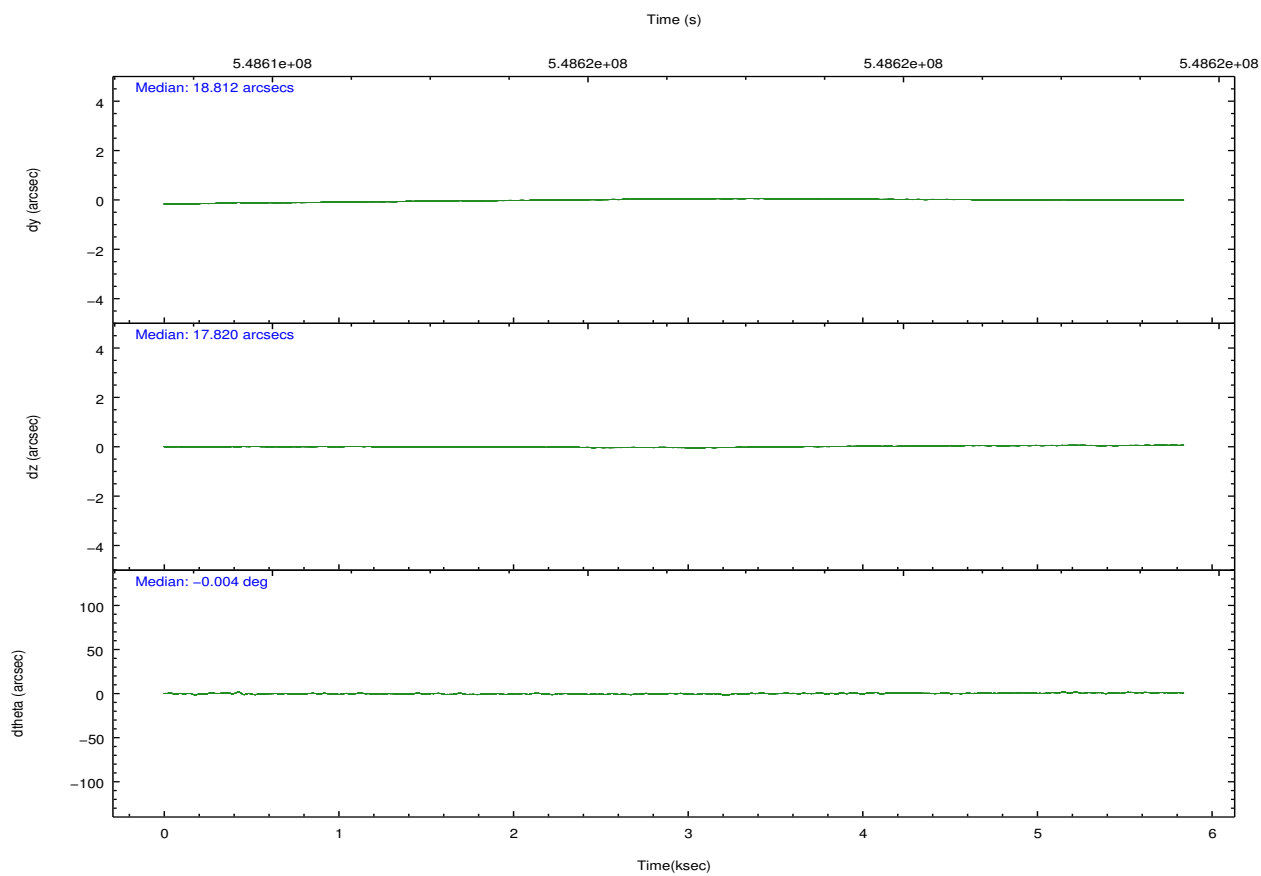
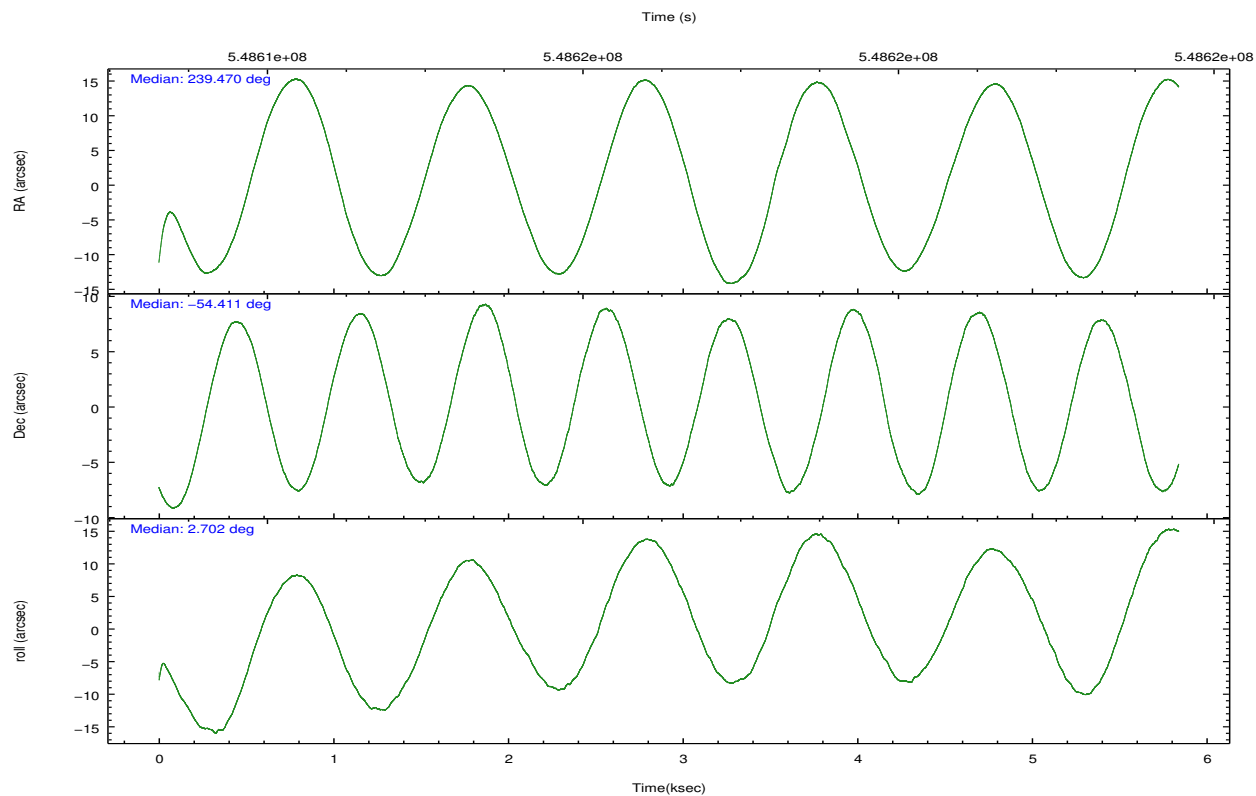


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	239.430344	239.470100784304	Subarray requested	NONE	NONE
[deg] Pointing Dec	-54.426275	-54.41133752383518	Alternating exposures requested	N	N
[deg] Pointing Roll	2.475034	2.716059593936088	[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)	548614470.184000	548612821.29449			
Observation start date	2015-05-21T16:53:23	2015-05-21T16:27:01			
[s] Observation end time (MET)	548619470.184000	548620067.5324			
Observation end date	2015-05-21T18:16:43	2015-05-21T18:27:47			
Read mode	TIMED	TIMED			

## 2.3 Aspect



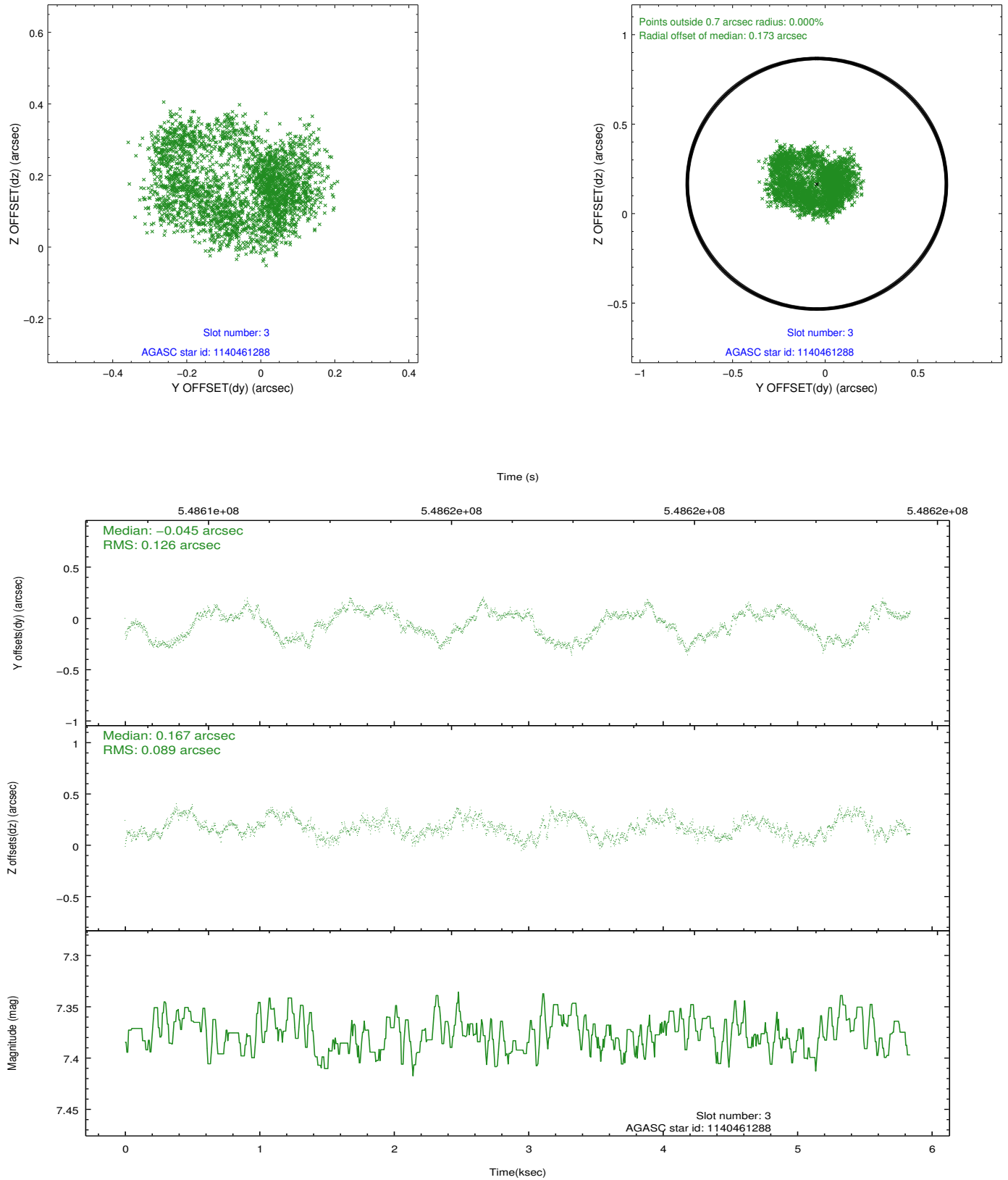


### Slot Statistics

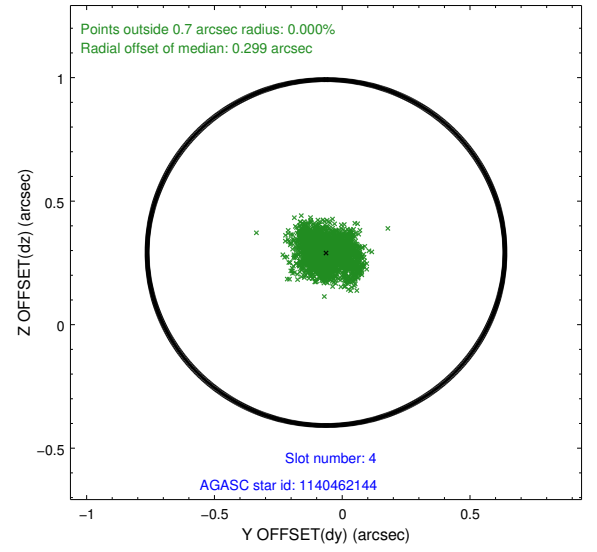
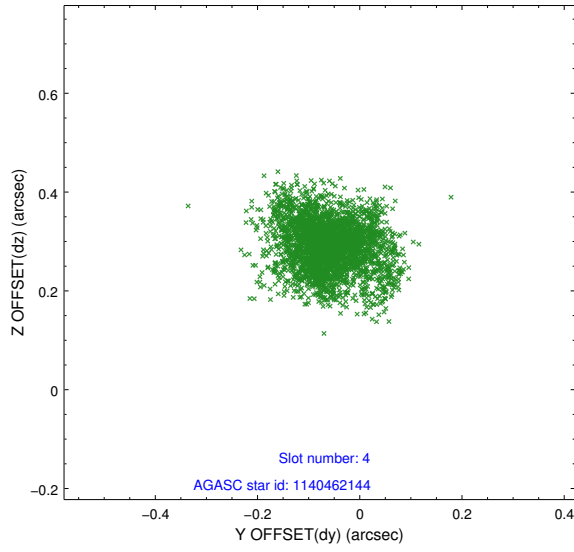
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.02	1425	0.071	0.002	0.007	0.012	0.000000	0.000000	920.66	-841.47
1	FID		ACIS-I-5	7.01	1425	-0.317	0.052	0.006	0.010	0.000000	0.000000	-1827.34	1055.47
2	FID		ACIS-I-6	7.02	1425	0.155	0.016	0.007	0.011	0.000000	0.000000	385.09	1701.16
3	GUIDE	used	1140461288	7.38	2850	-0.045	0.167	0.169	0.244	239.862473	-54.571210	878.89	-562.30
4	GUIDE	used	1140462144	6.93	2850	-0.063	0.292	0.082	0.136	239.669780	-54.707652	454.77	-1033.86
5	GUIDE	used	1139945368	7.37	2849	0.061	-0.217	0.081	0.132	239.183286	-53.789004	-425.42	2313.59
6	GUIDE	used	1139942520	8.85	2850	0.093	-0.059	0.131	0.202	239.251595	-53.828601	-286.65	2166.53
7	GUIDE	used	1139943192	8.50	2848	-0.040	-0.199	0.107	0.179	239.465782	-53.757522	178.95	2402.52

## 2.4 Star Slots

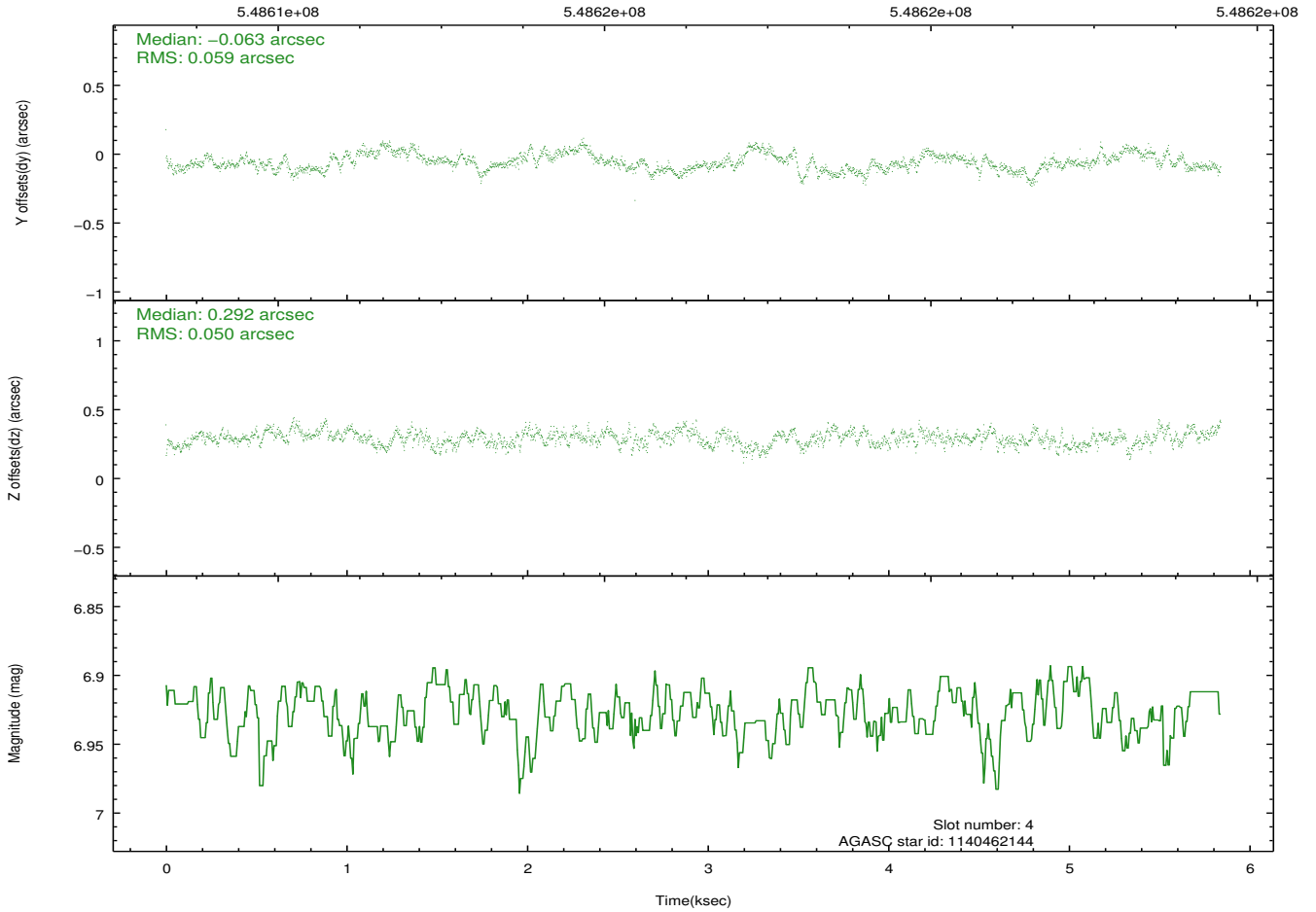
### 2.4.1 Slot 3



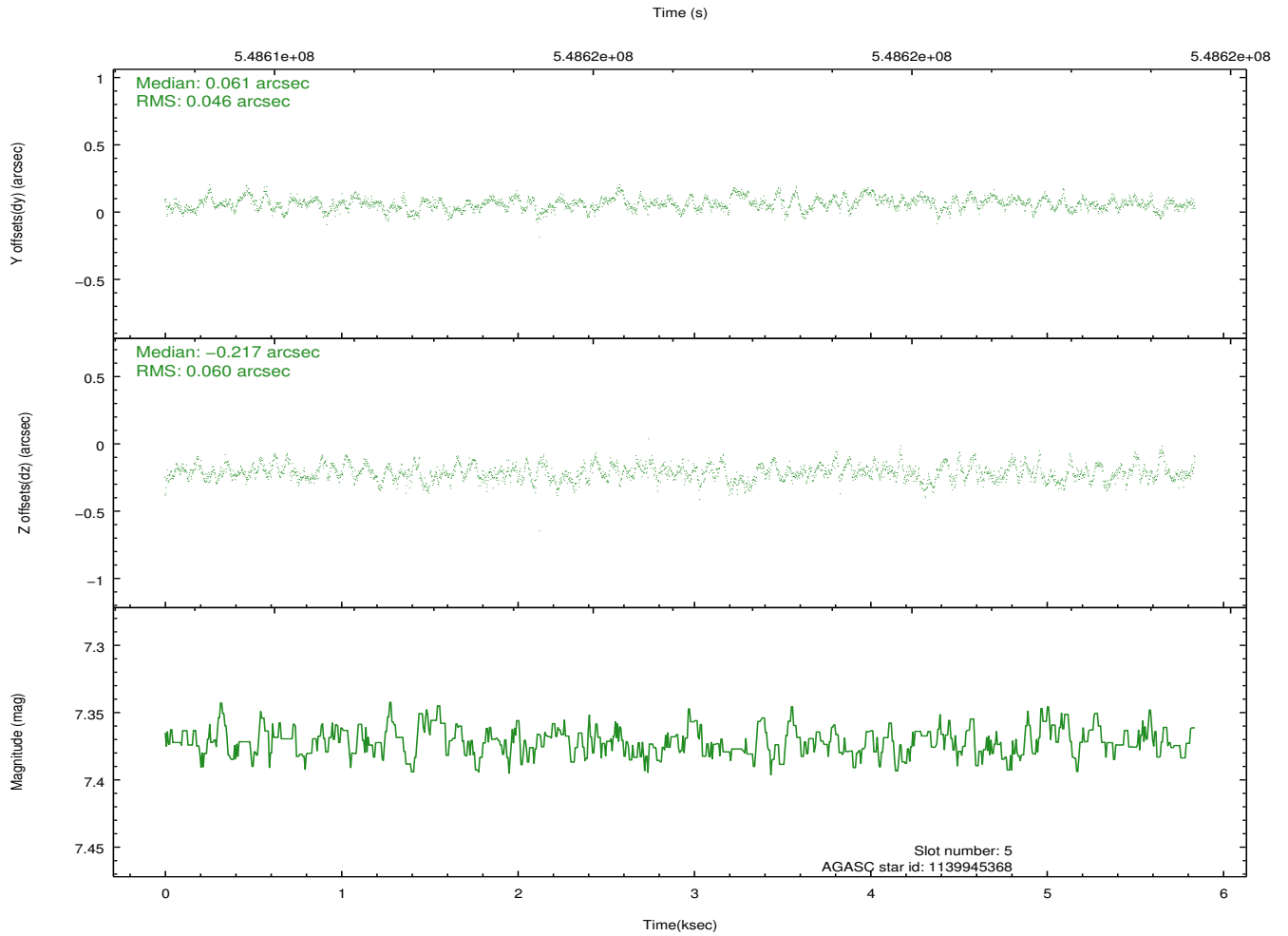
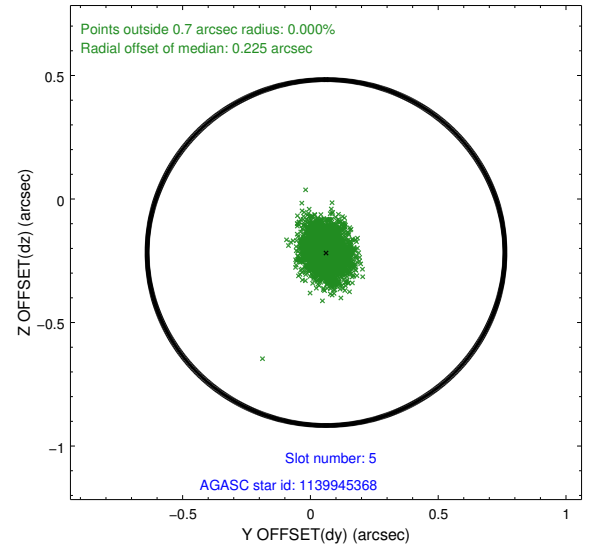
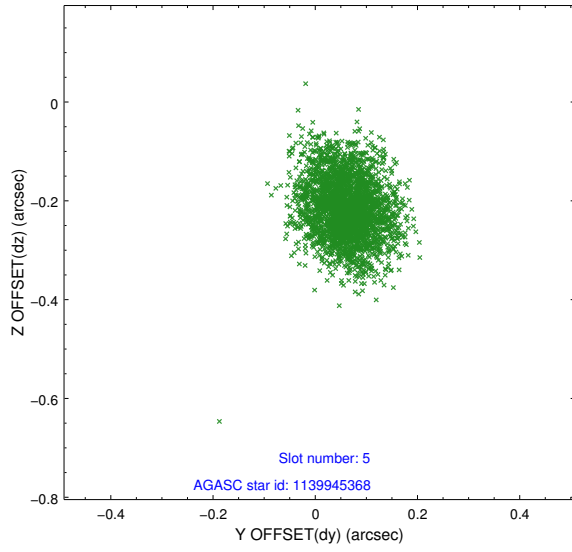
## 2.4.2 Slot 4



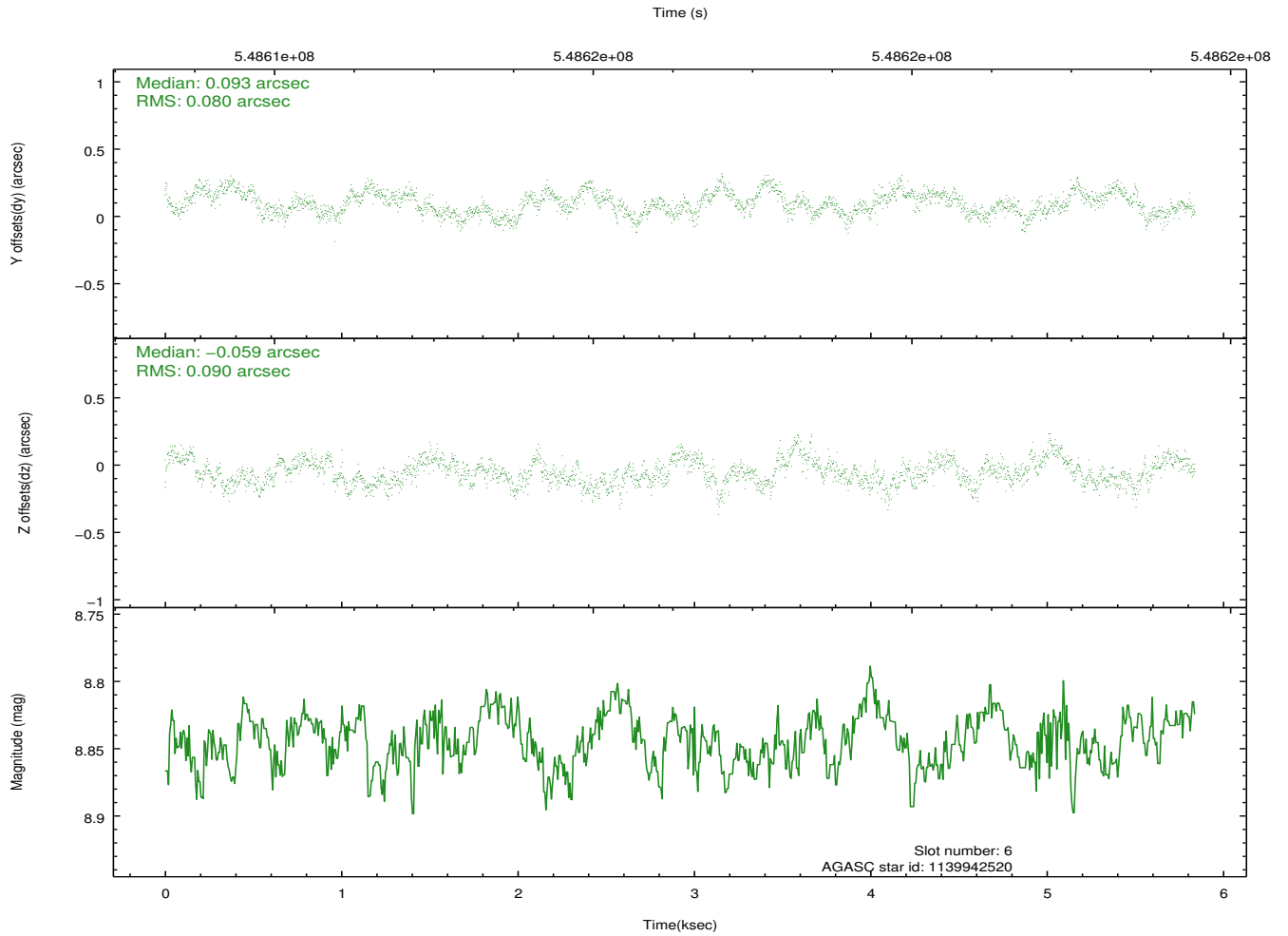
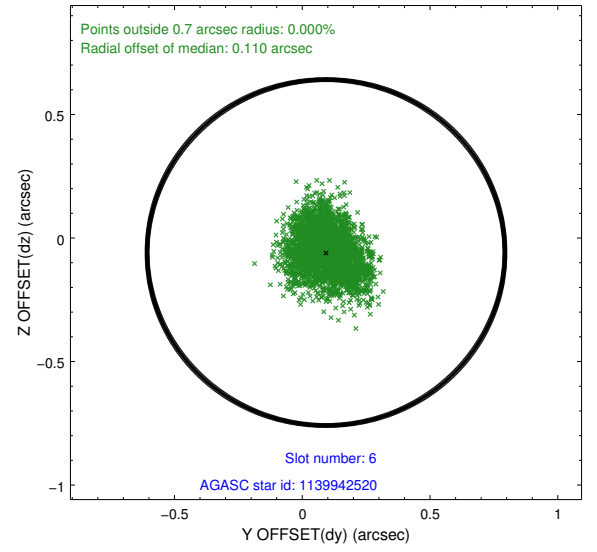
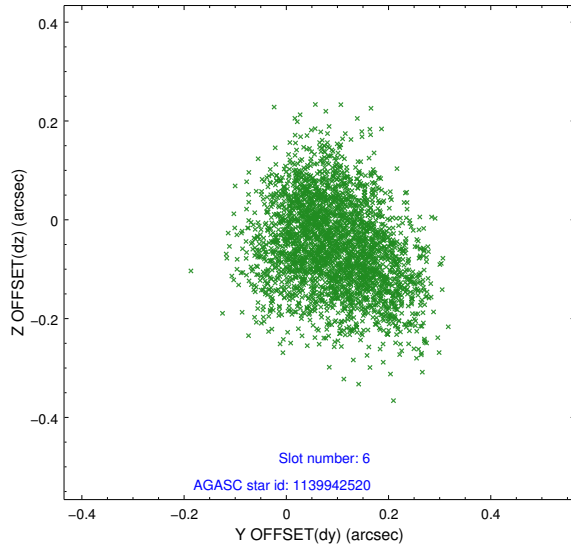
Time (s)



### 2.4.3 Slot 5

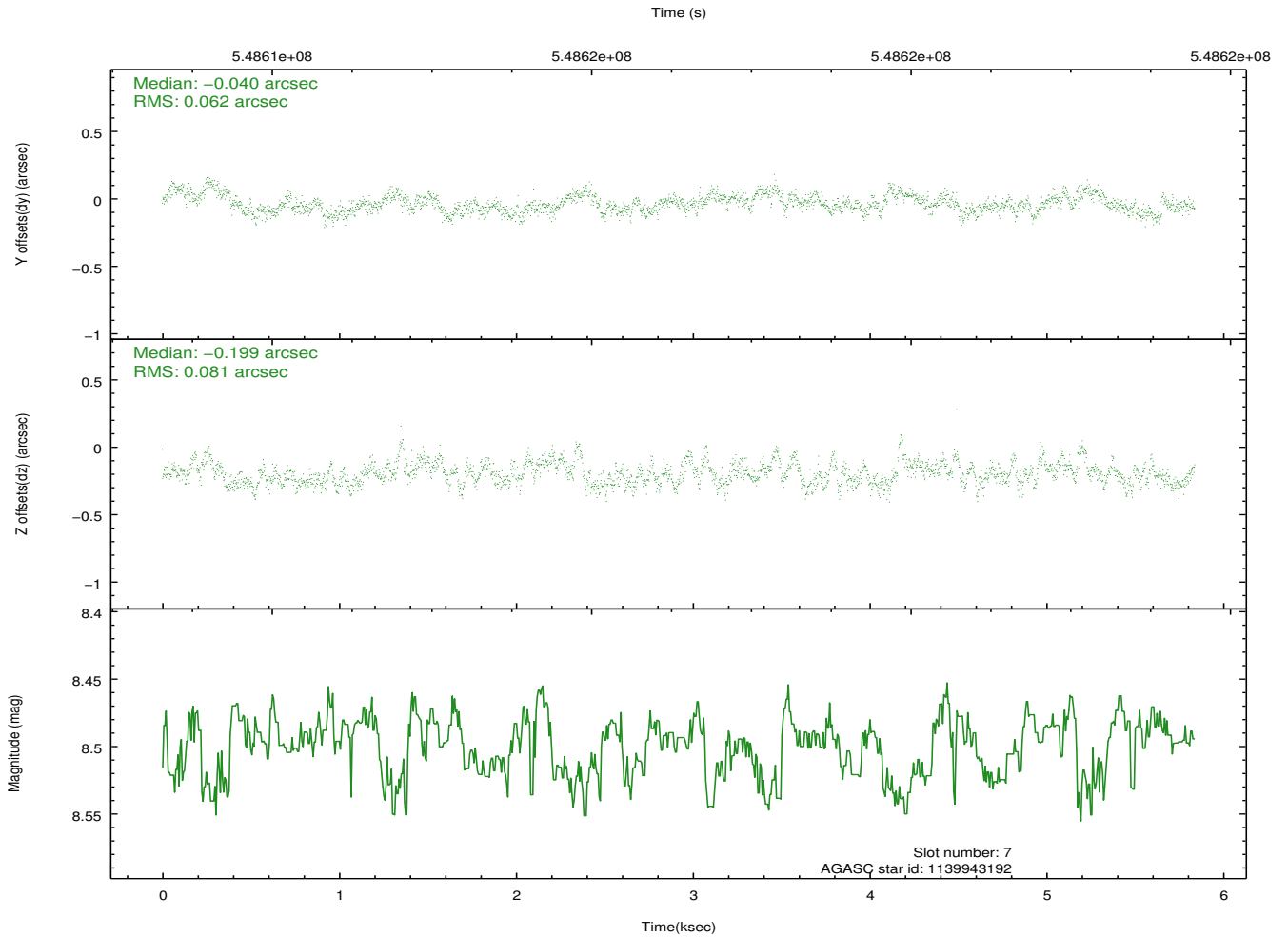
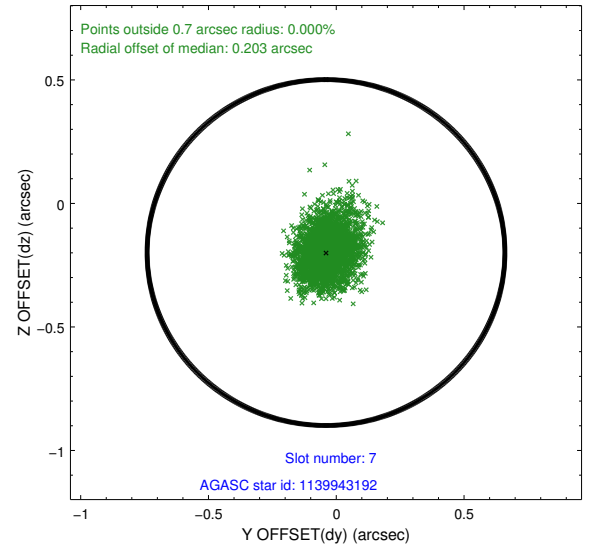
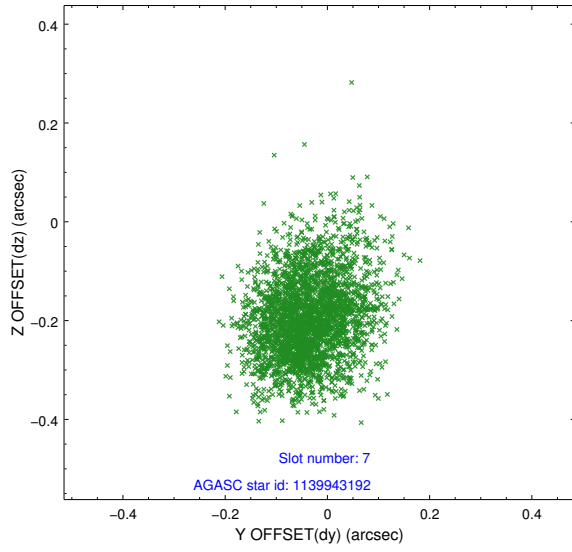


## 2.4.4 Slot 6



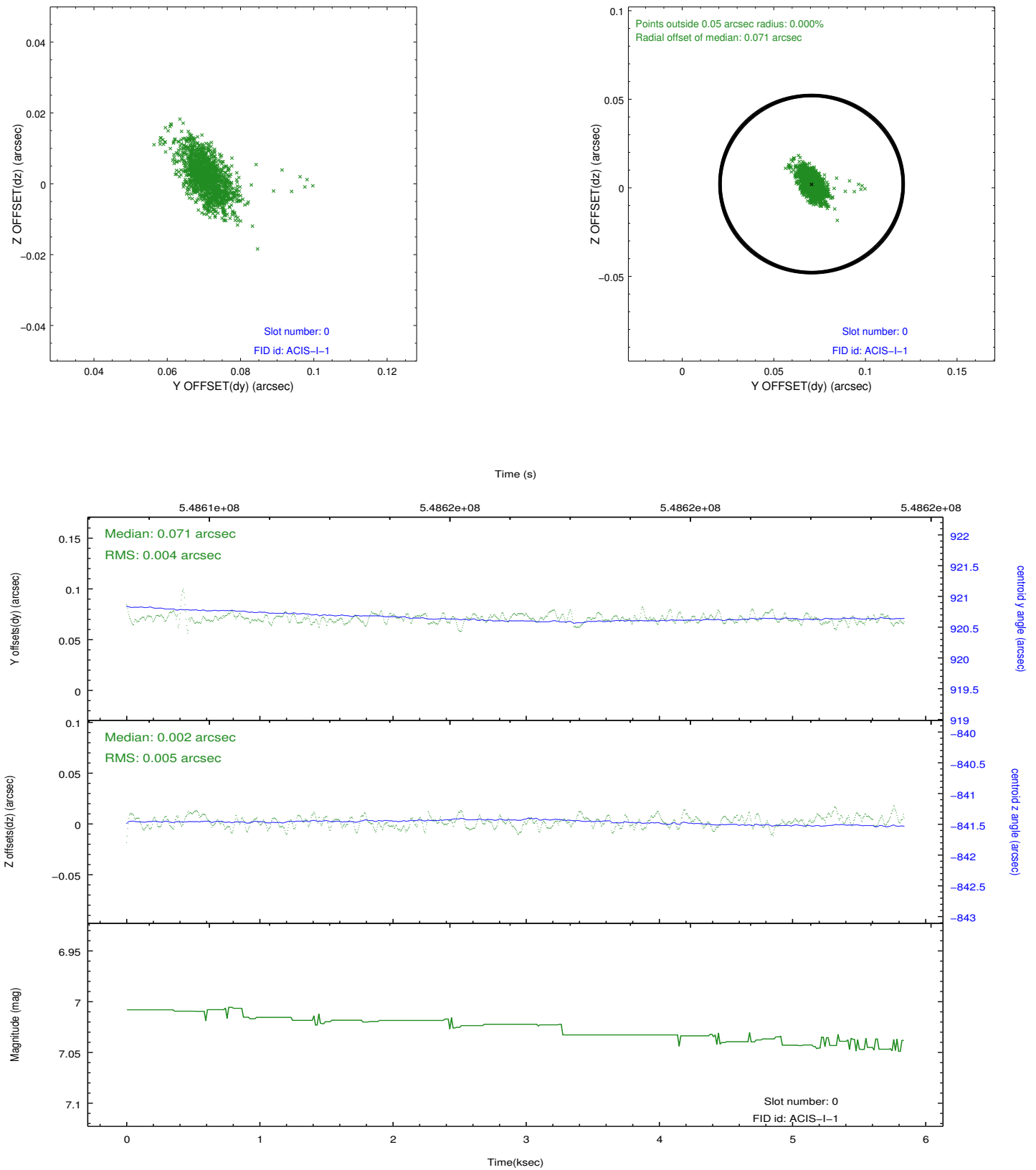


## 2.4.5 Slot 7

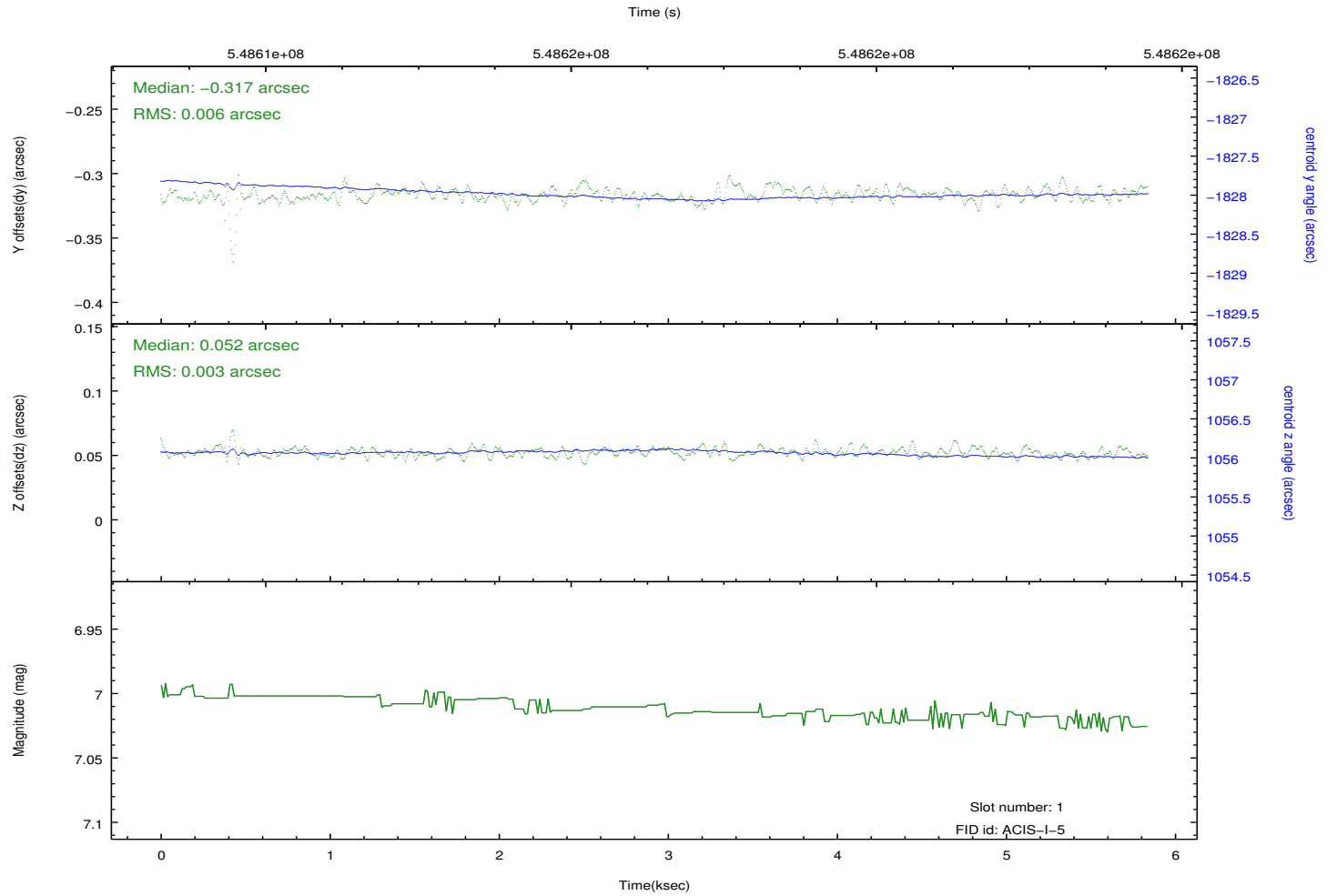
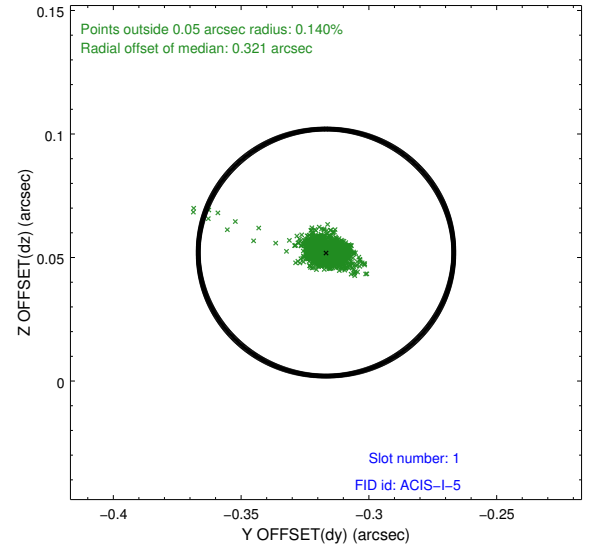
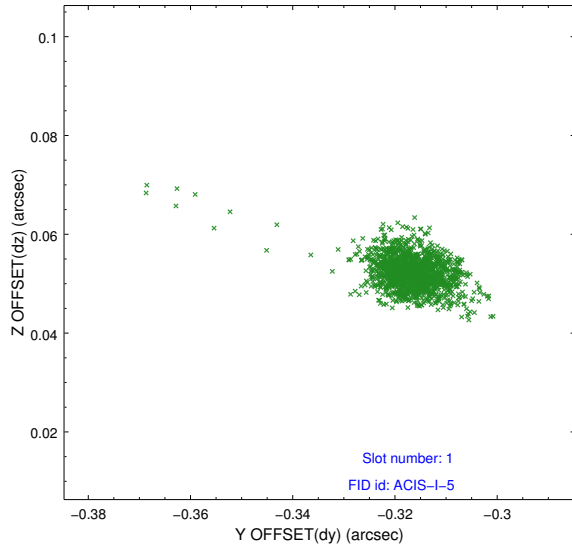


## 2.5 FID Slots

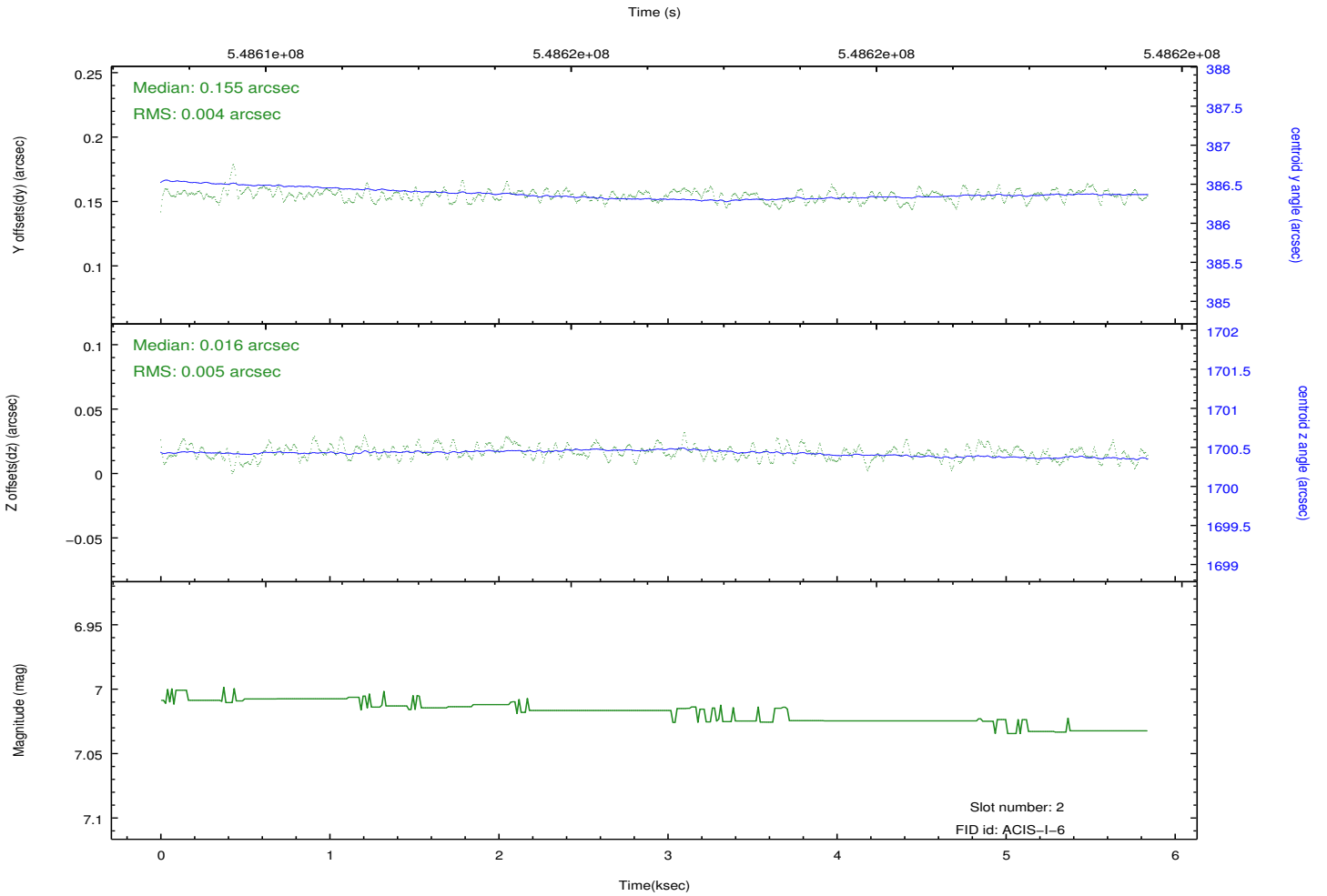
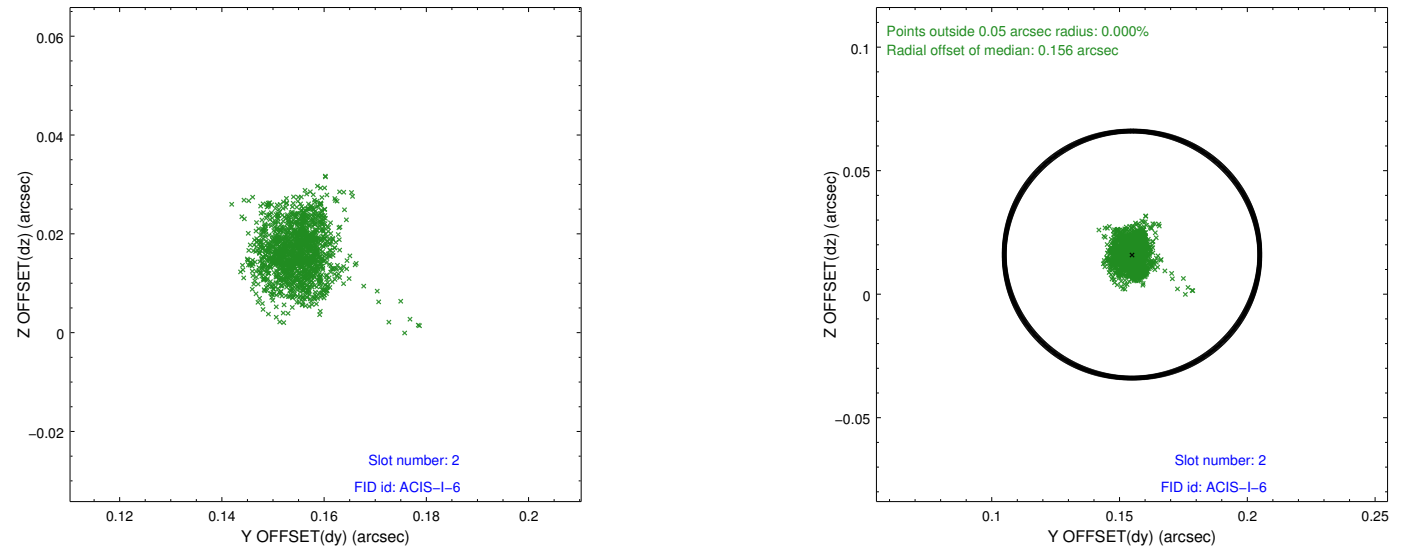
### 2.5.1 Slot 0



## 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)	2015.05.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.080900039196

### A.2 Comments