

# V&V Reference Report

## L2 ASCDS Version : 10.3

Observation 16671 - L2 Version 1  
Chandra X-Ray Center

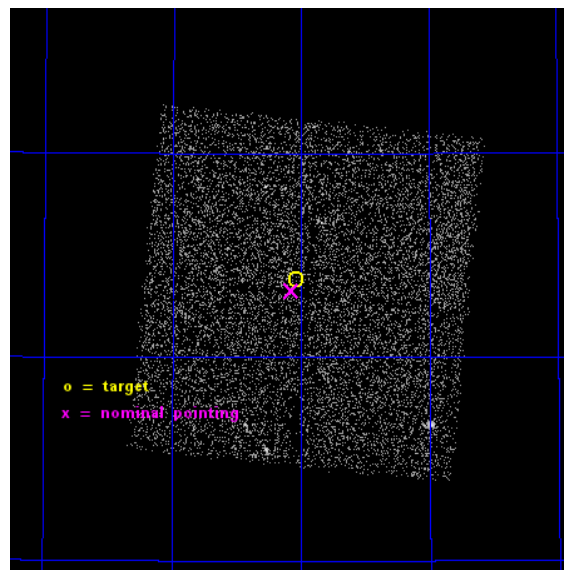
L2 Processing Date : Dec 4 2014

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# 1 Front

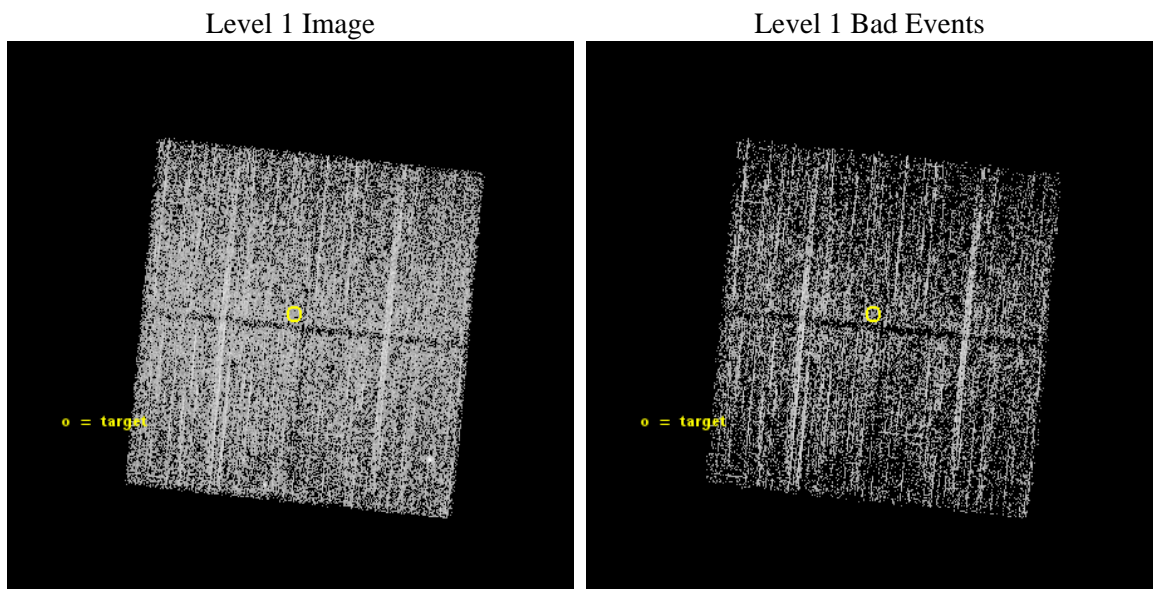
seq_num	200992	Sequence number
obs_id	16671	Observation id
title	A Study of Colliding Winds in Short Period B Star Binaries	Proposa
observer	Professor Richard Ignace	Principal investigator
object	CW Cep	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	346.009167	Observer's specified target RA [deg]
dec_targ	63.396861	Observer's specified target Dec [deg]
ra_nom	346.01860060278	Nominal RA [deg]
dec_nom	63.387702958795	Nominal Dec [deg]
roll_nom	275.78213313405	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7091.6998680234	Sum of GTIs [s]
livetime	6999.0415884142	Livetime [s]
ontime0	7091.5767480135	Sum of GTIs [s]
ontime1	7088.4768076539	Sum of GTIs [s]
ontime2	7091.6588280201	Sum of GTIs [s]
ontime3	7091.6998680234	Sum of GTIs [s]
l2events	14430	Number of level 2 events



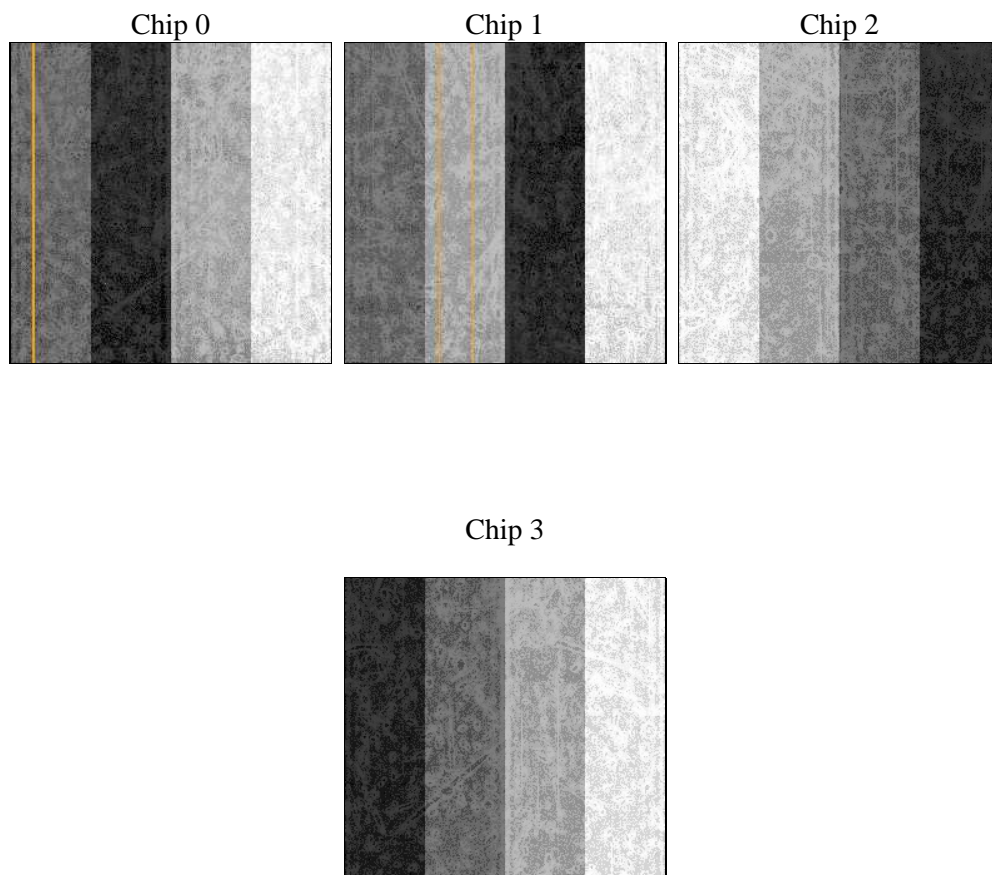
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	7091.6998680234	Sum of GTIs [s]
caldsver	4.6.4	&#160	ontime0	7091.5767480135	Sum of GTIs [s]
date	2014-12-05T00:05:41	Date and time of file creation	ontime1	7088.4768076539	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	7091.6588280201	Sum of GTIs [s]
			ontime3	7091.6998680234	Sum of GTIs [s]
			l1events	130403	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	30721	30474	36135	33073
rejected events	26338	25904	31911	29105
rejected %	85%	85%	88%	88%

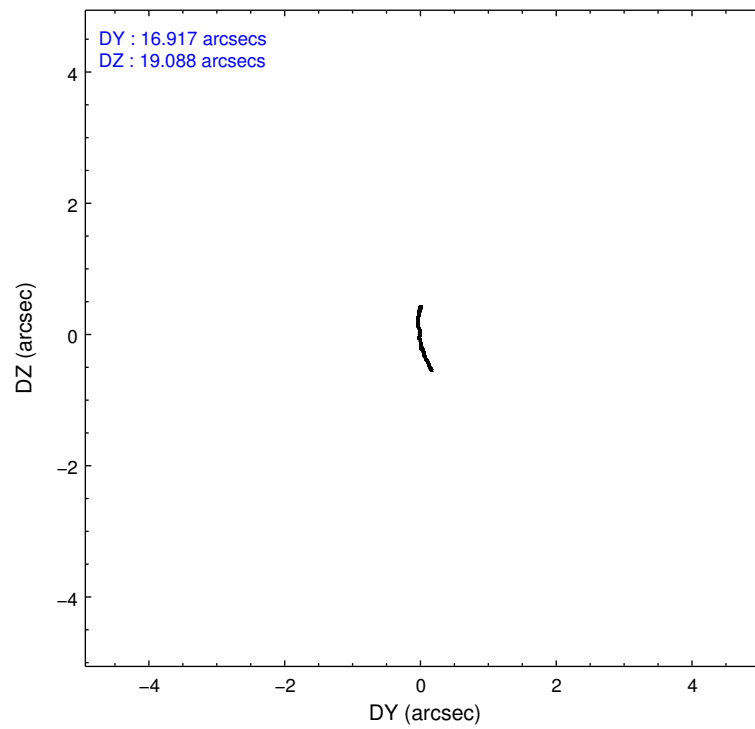
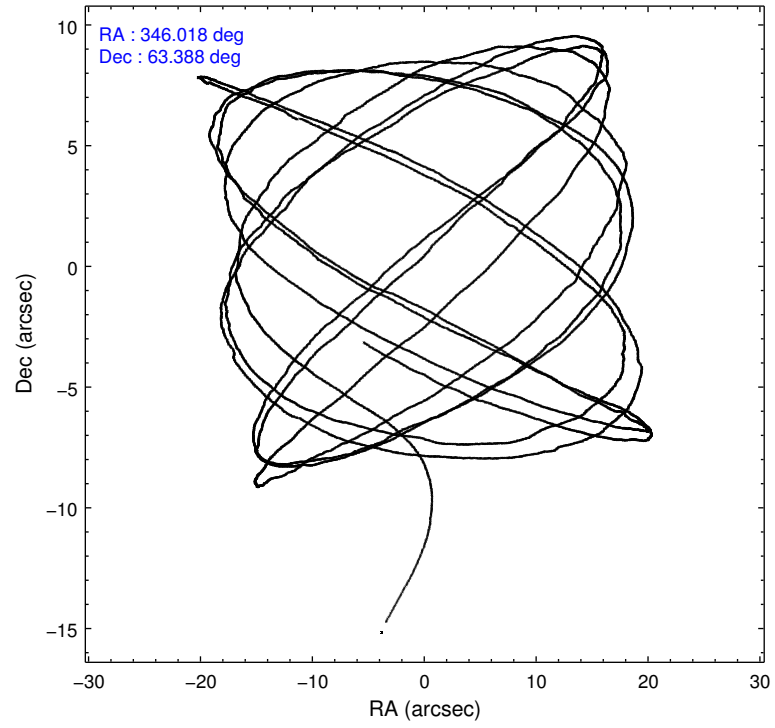
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1624	1618	1582	1545
	5%	5%	4%	4%
grade 1 events	15	24	25	15
	0%	0%	0%	0%
grade 2 events	1048	1080	1080	857
	3%	3%	2%	2%
grade 3 events	437	417	402	408
	1%	1%	1%	1%
grade 4 events	446	454	388	389
	1%	1%	1%	1%
grade 5 events	1565	1632	1533	1810
	5%	5%	4%	5%
grade 6 events	828	1001	773	771
	2%	3%	2%	2%
grade 7 events	24758	24248	30352	27278
	80%	79%	83%	82%

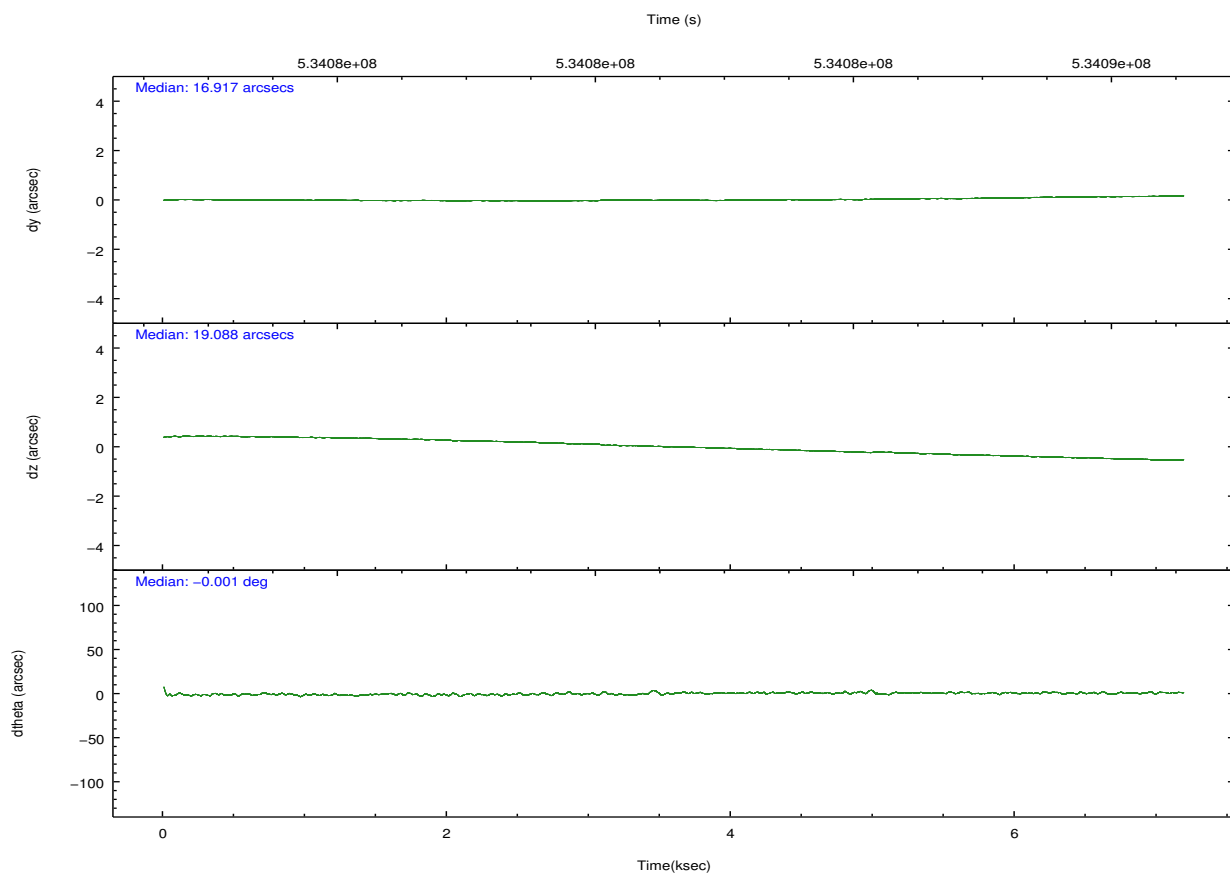
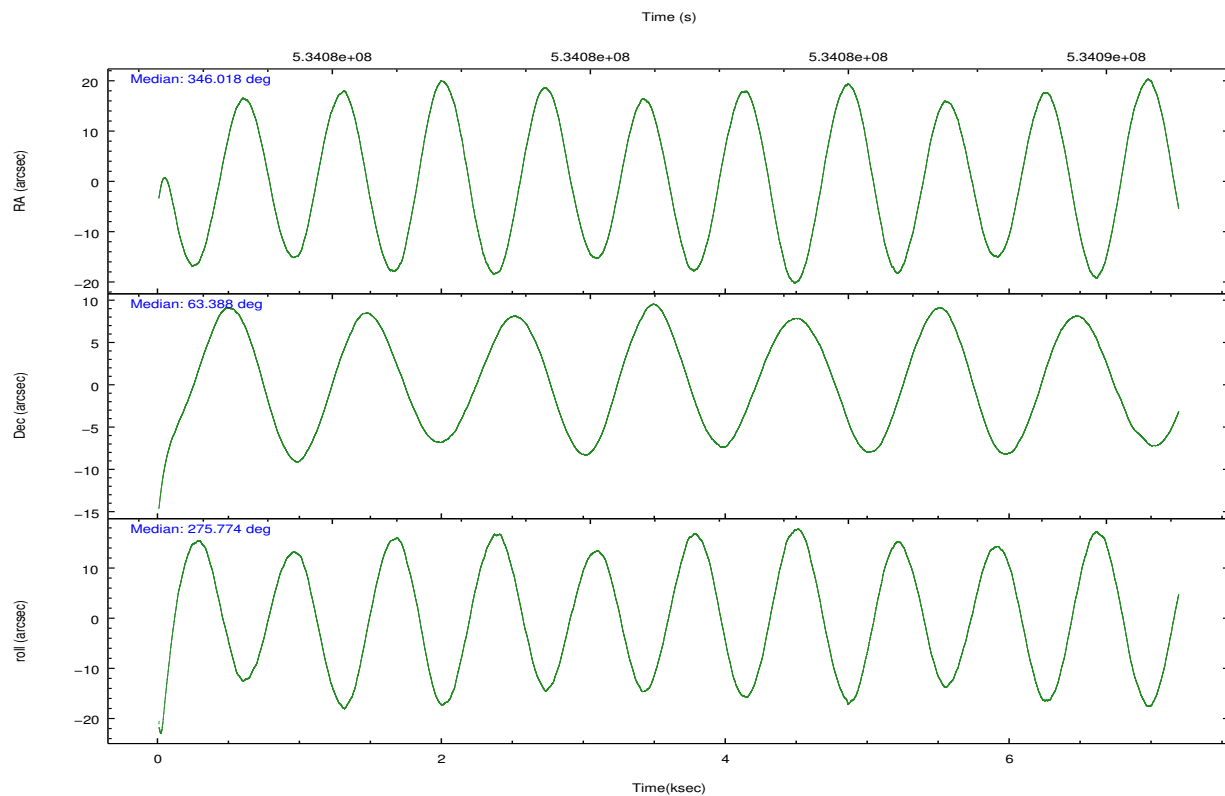


## 2.2 Compared Parameters

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	345.982329	346.0186006027802	Subarray requested	NONE	NONE
[deg] Pointing Dec	63.410097	63.38770295879527	Alternating exposures requested	N	N
[deg] Pointing Roll	275.605906	275.782133134051	[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)	534079203.184000	534078132.90681			
Observation start date	2014-12-04T11:18:56	2014-12-04T11:02:12			
[s] Observation end time (MET)	534086203.184000	534087590.58234			
Observation end date	2014-12-04T13:15:36	2014-12-04T13:39:50			
Read mode	TIMED	TIMED			

## 2.3 Aspect



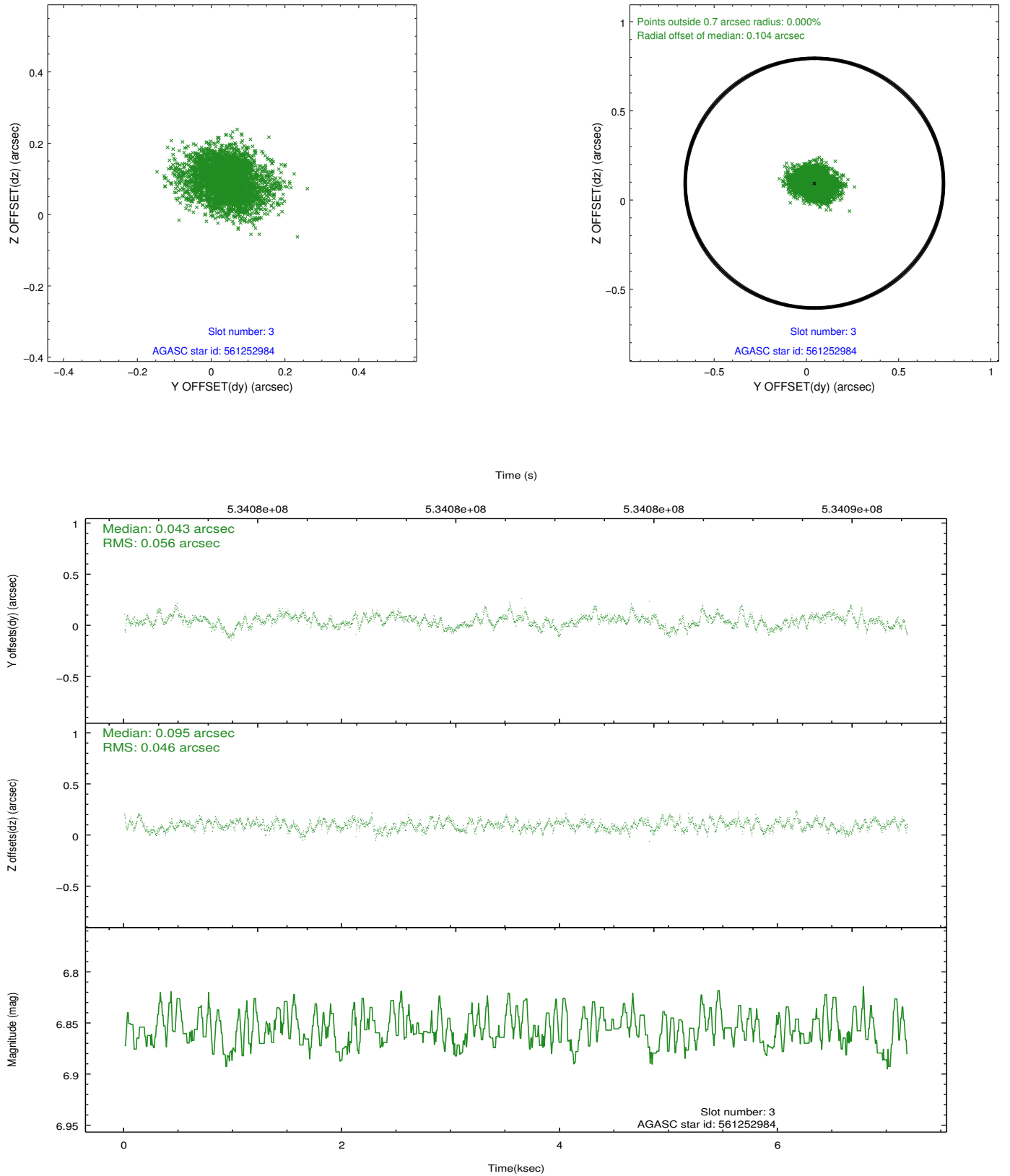


### Slot Statistics

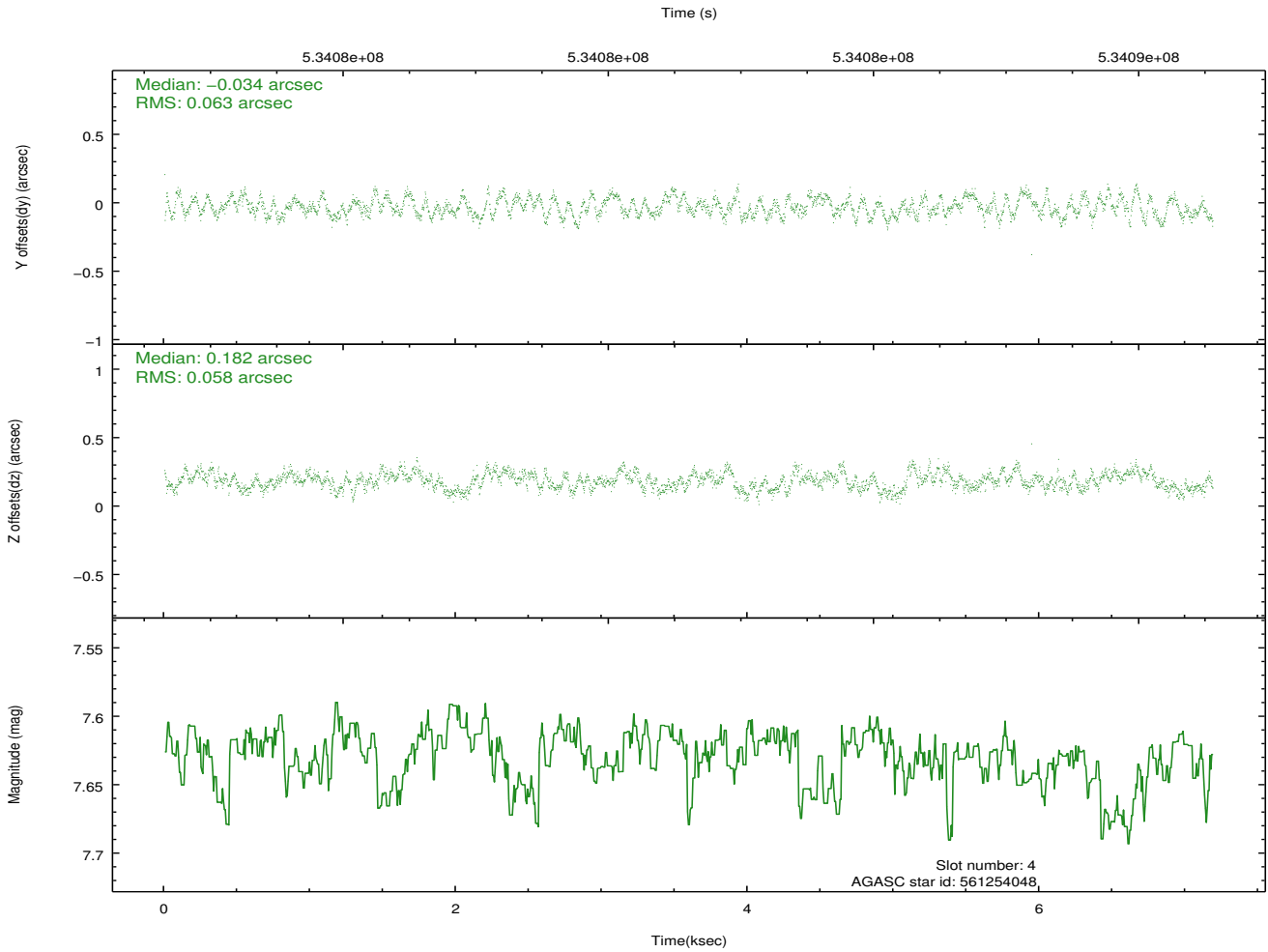
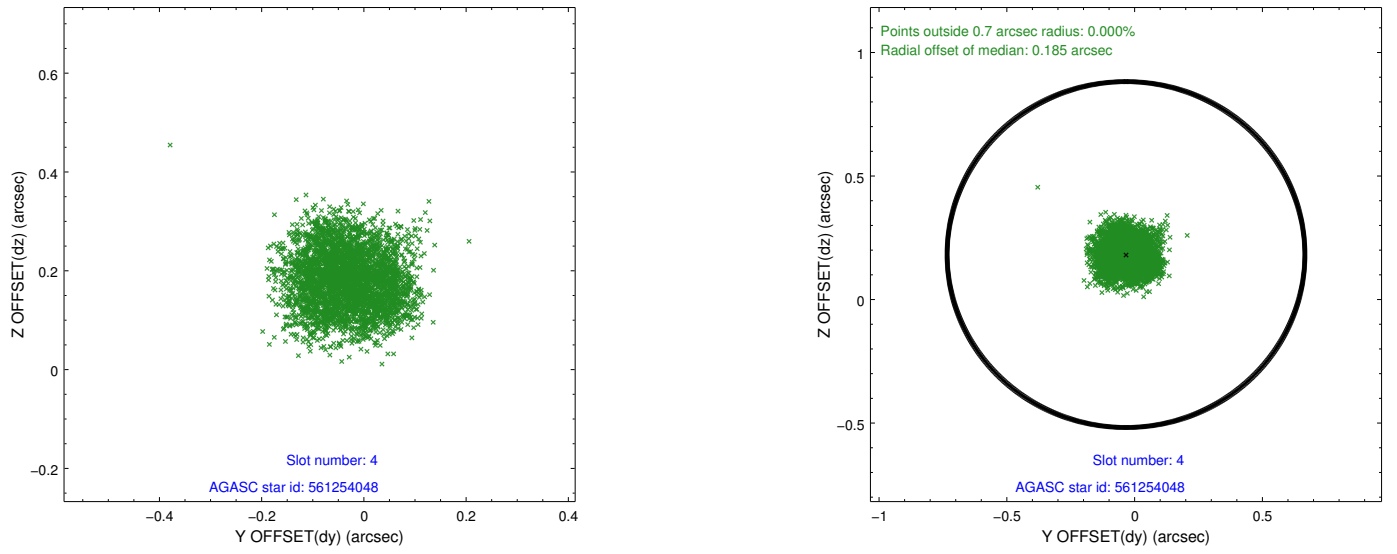
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.06	1753	-0.078	0.063	0.011	0.019	0.000000	0.000000	922.37	-842.74
1	FID		ACIS-I-2	6.98	1753	-0.120	-0.081	0.012	0.022	0.000000	0.000000	-771.32	-849.70
2	FID		ACIS-I-4	7.00	1753	0.097	0.089	0.012	0.023	0.000000	0.000000	2142.10	1056.66
3	GUIDE	used	561252984	6.86	3506	0.043	0.095	0.076	0.127	345.385490	63.292033	324.36	-1001.78
4	GUIDE	used	561254048	7.63	3504	-0.034	0.182	0.094	0.139	344.665806	63.077158	961.71	-2250.29
5	GUIDE	used	561915472	8.35	3505	0.043	-0.105	0.085	0.142	347.288784	63.998985	-1929.50	2260.29
6	GUIDE	used	561390176	7.23	3506	-0.079	-0.165	0.085	0.134	347.244727	62.815566	2311.87	1860.13
7	GUIDE	used	561777152	8.87	3502	0.025	-0.006	0.093	0.157	347.130440	64.086577	-2263.06	2037.55

## 2.4 Star Slots

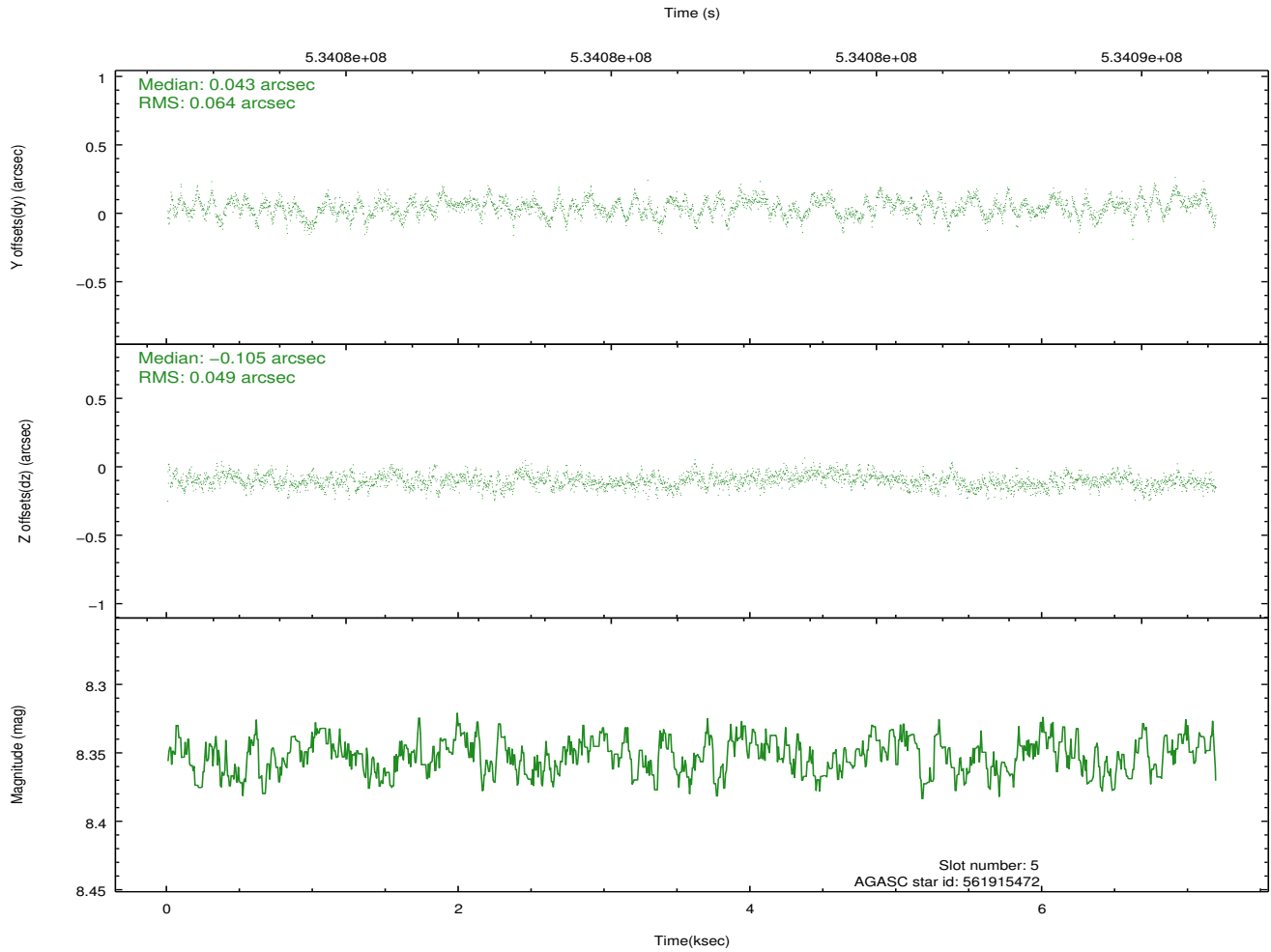
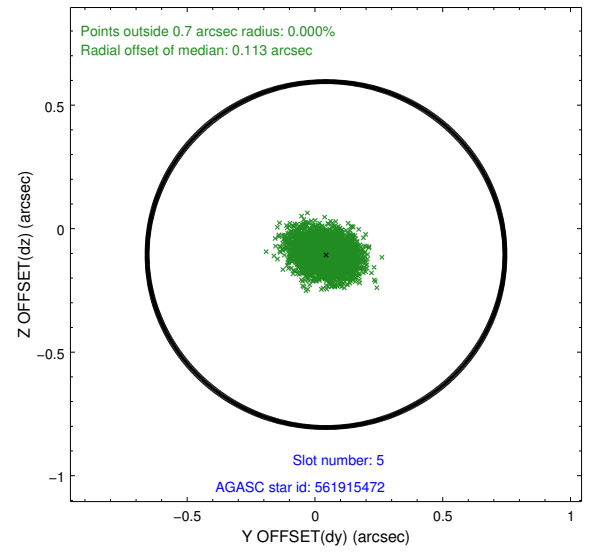
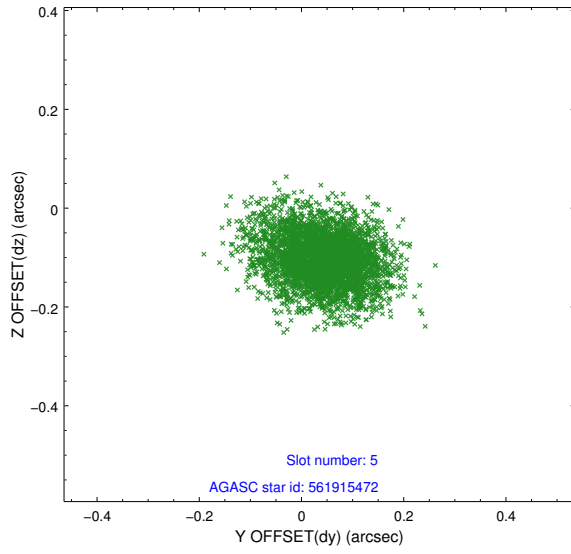
### 2.4.1 Slot 3



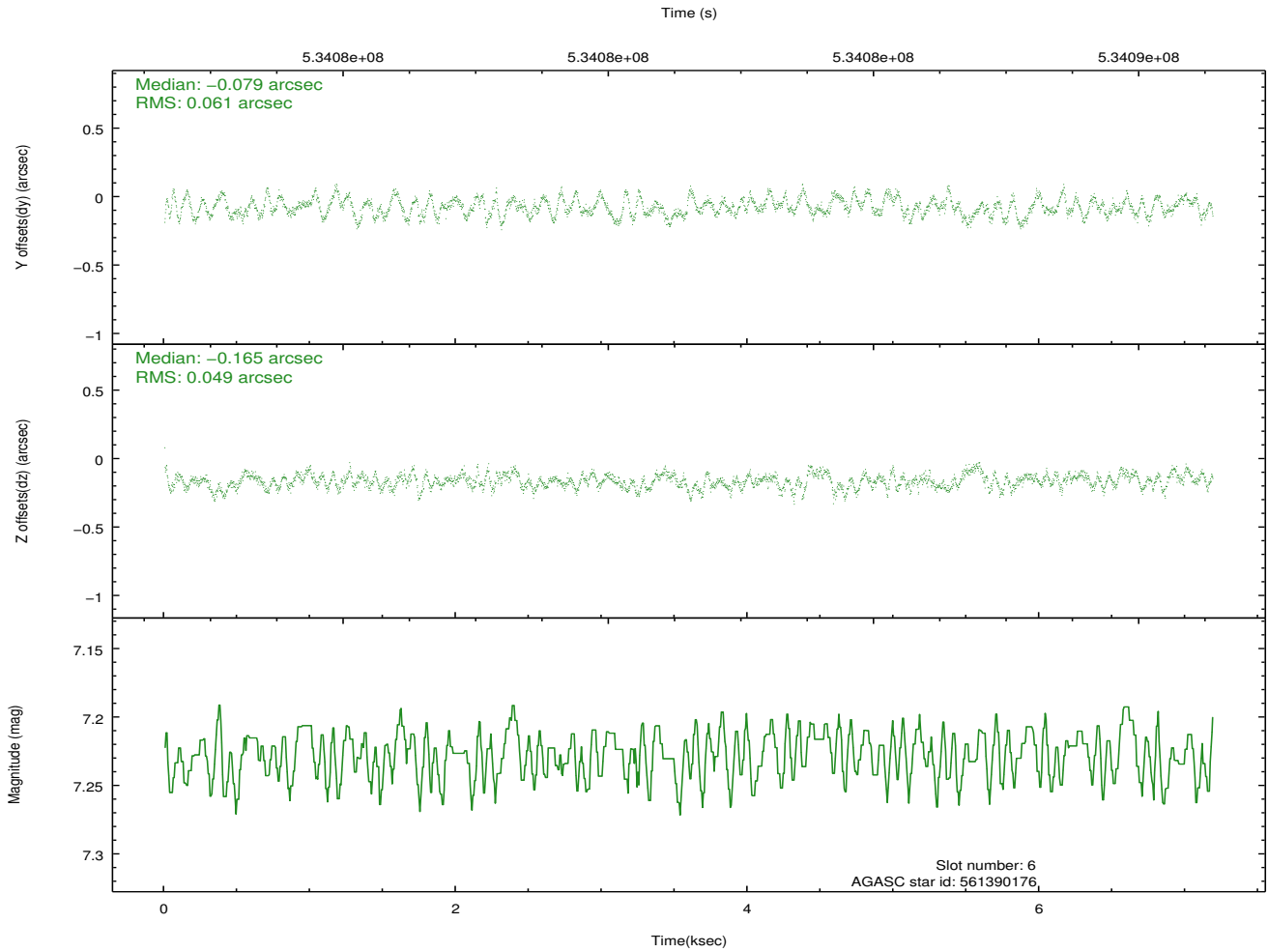
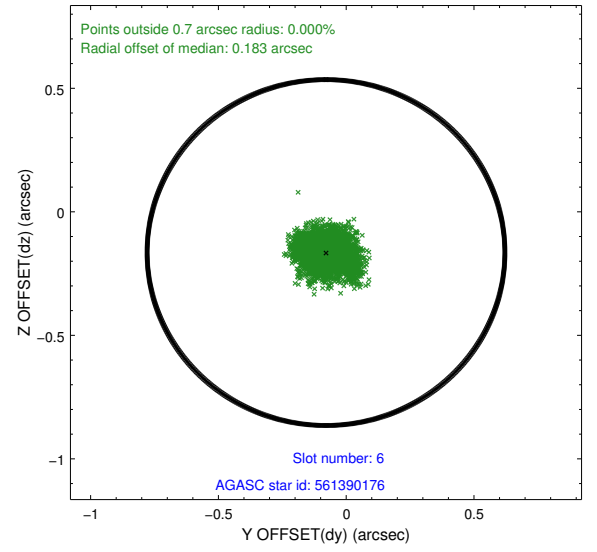
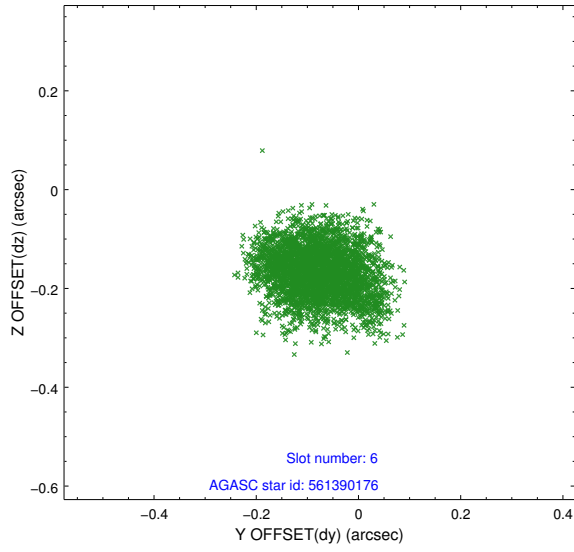
## 2.4.2 Slot 4



### 2.4.3 Slot 5

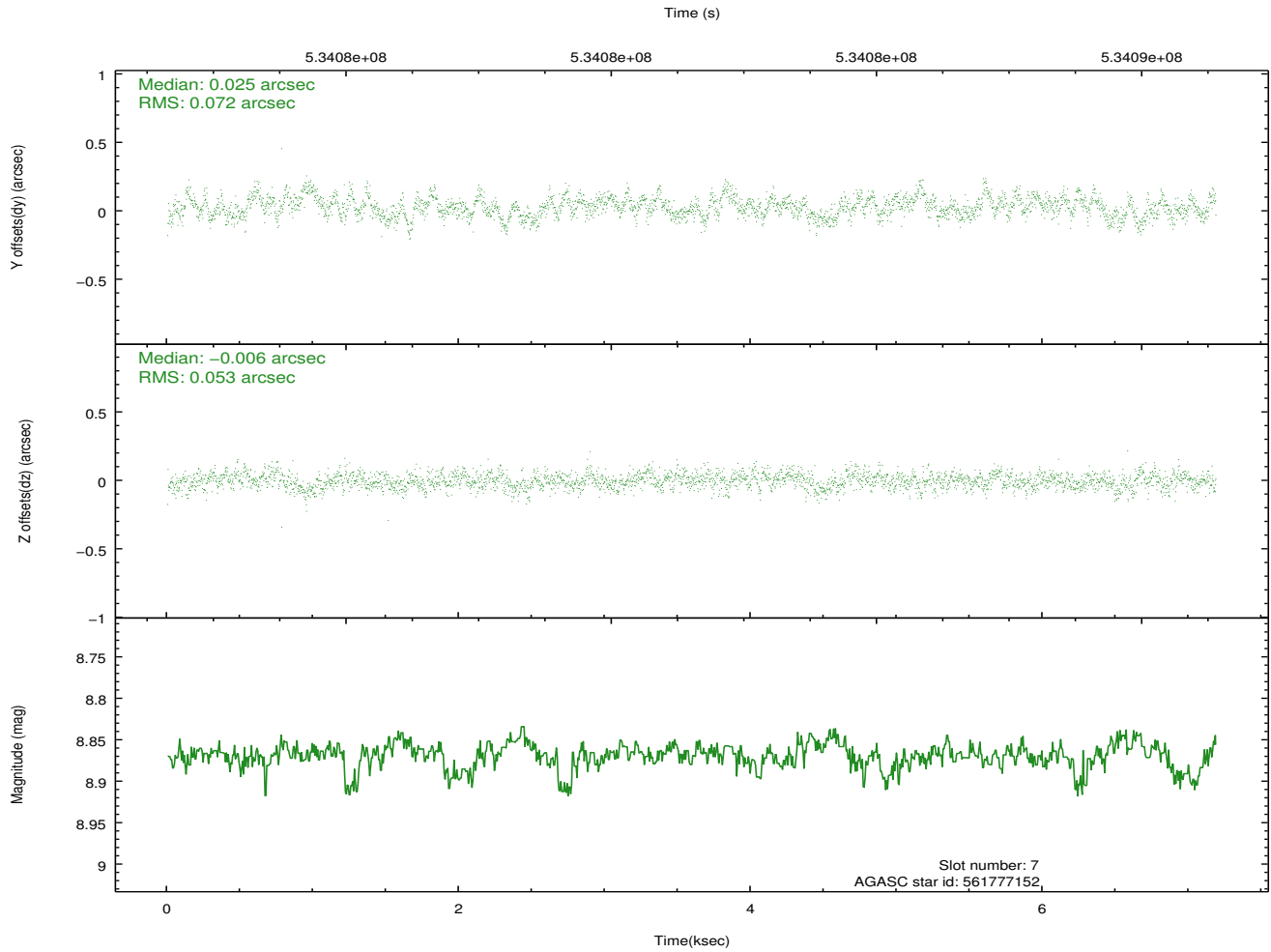
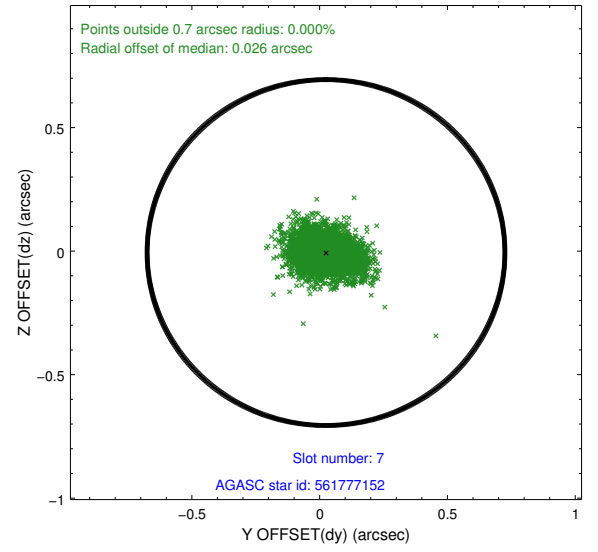
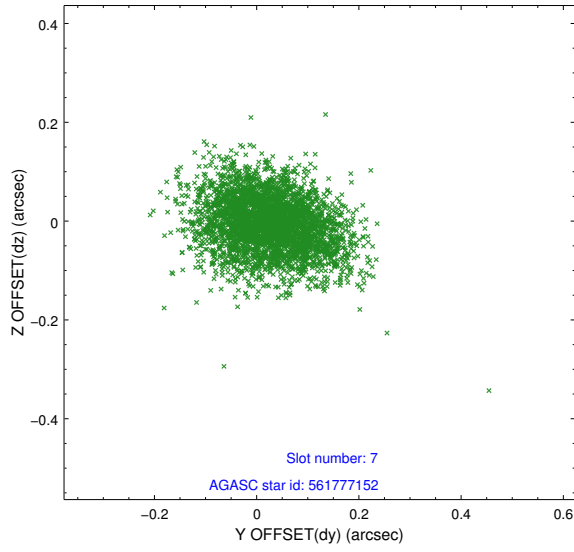


## 2.4.4 Slot 6



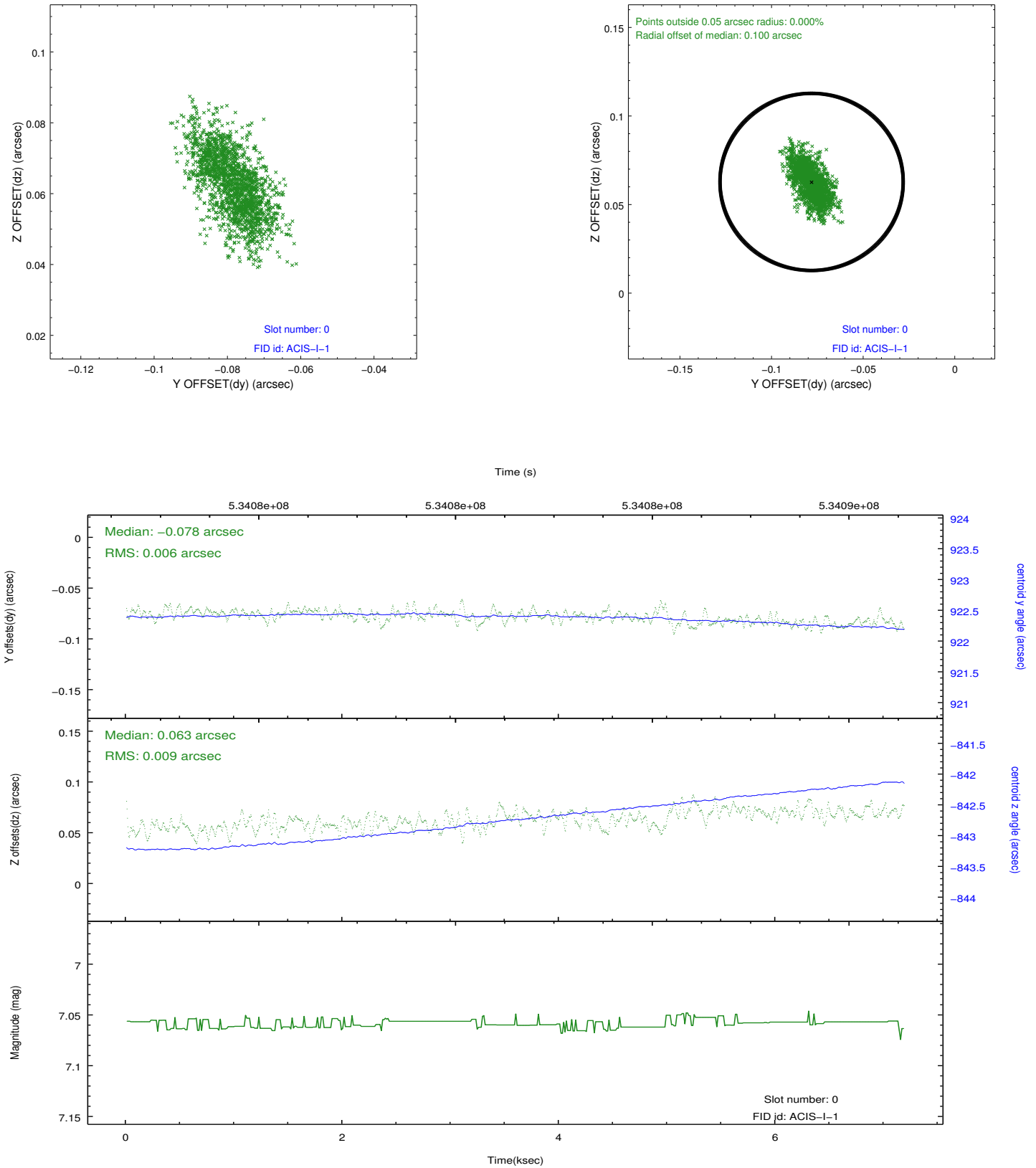


## 2.4.5 Slot 7

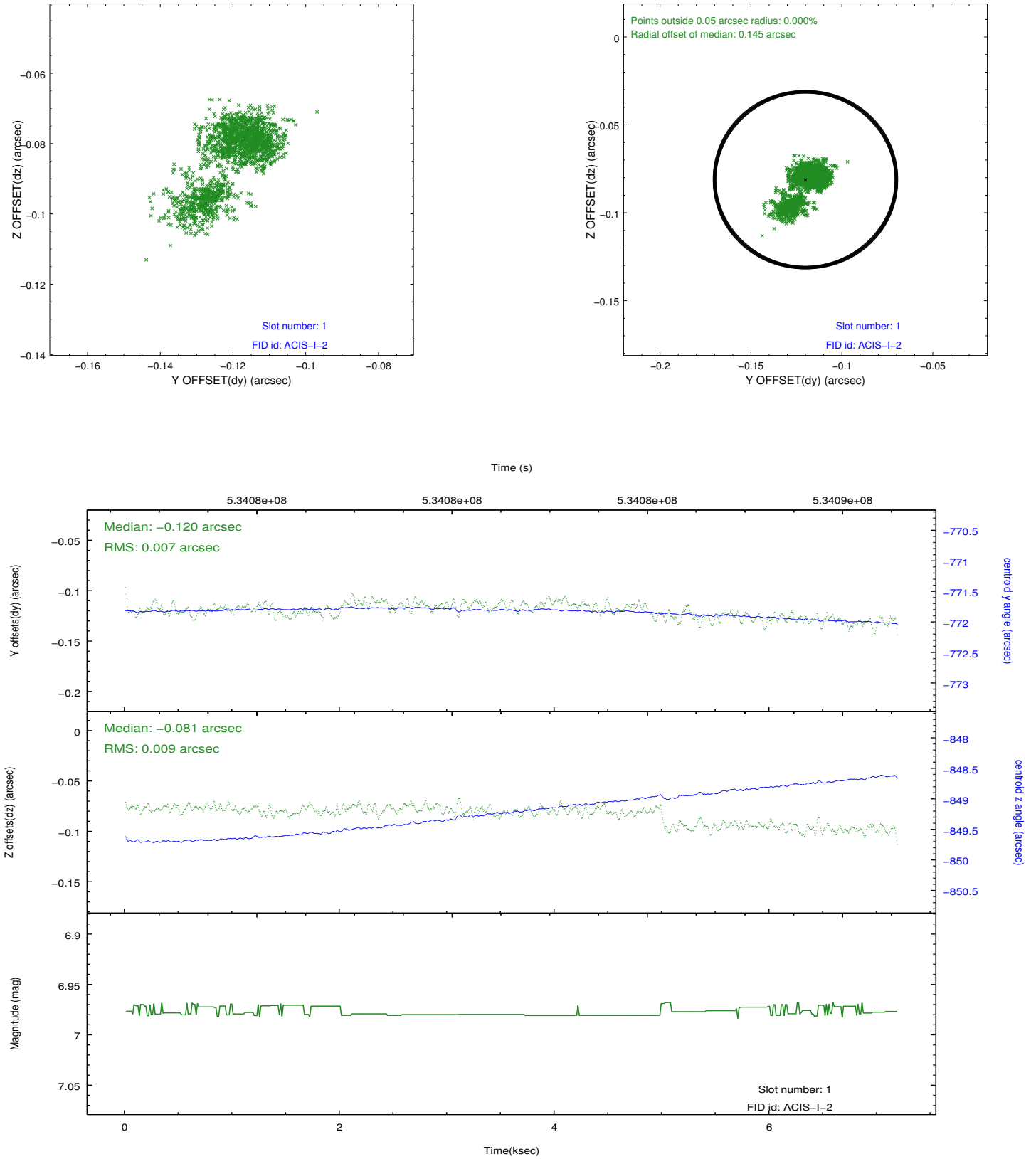


## 2.5 FID Slots

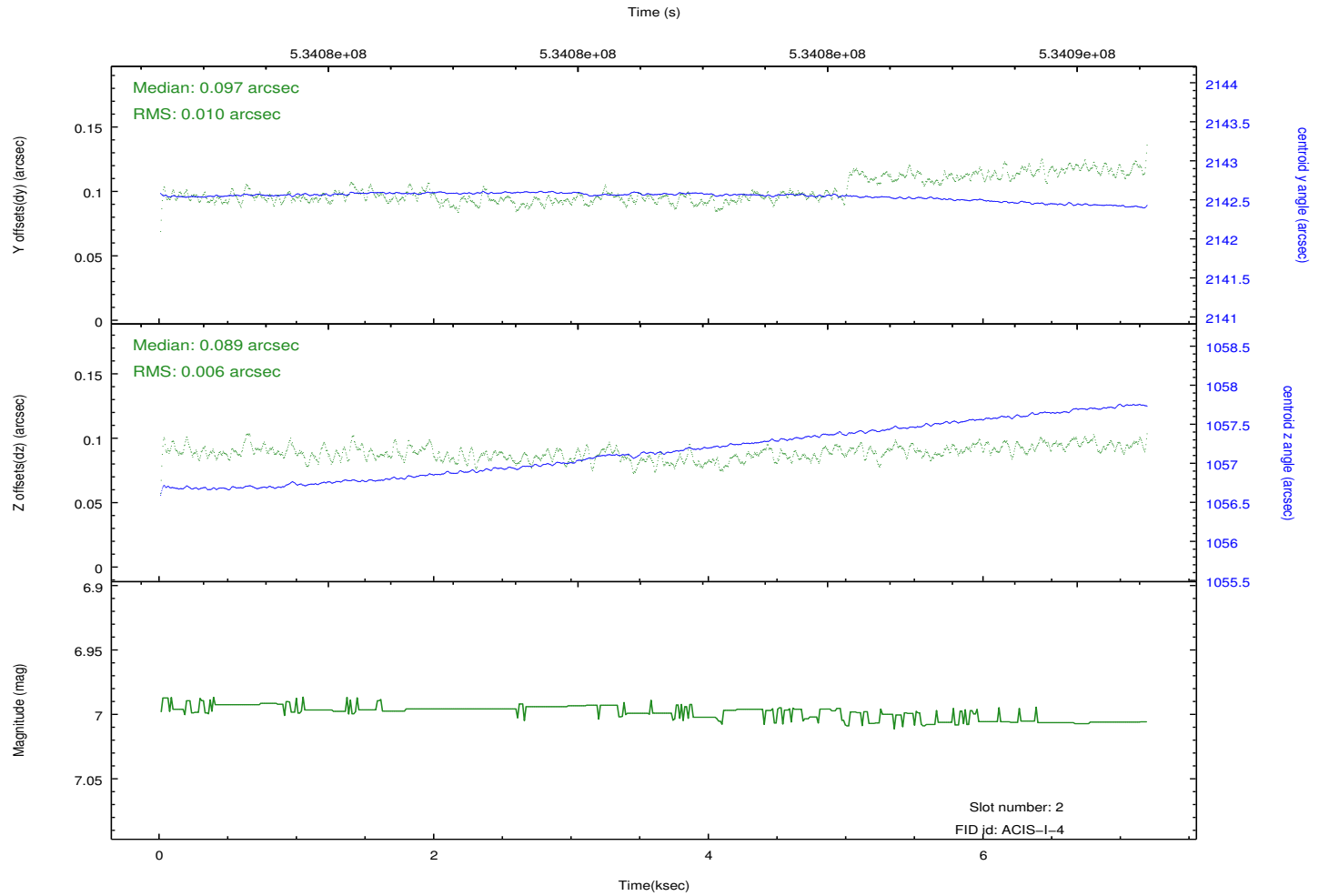
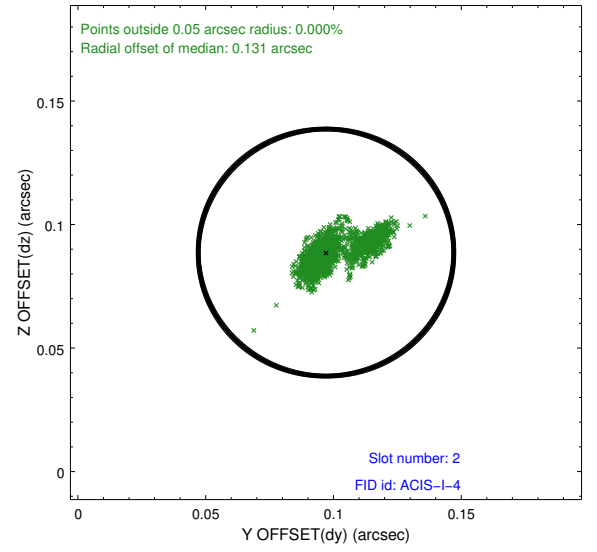
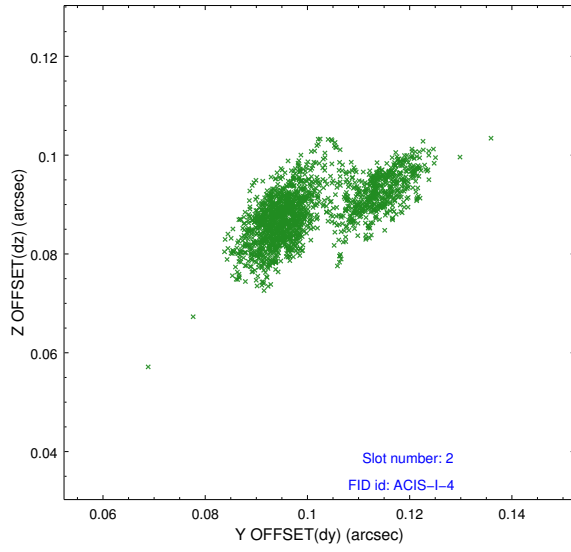
### 2.5.1 Slot 0



## 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)	2014.12.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.0916998680234

### A.2 Comments