

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 5593 - L2 Version 3  
Chandra X-Ray Center

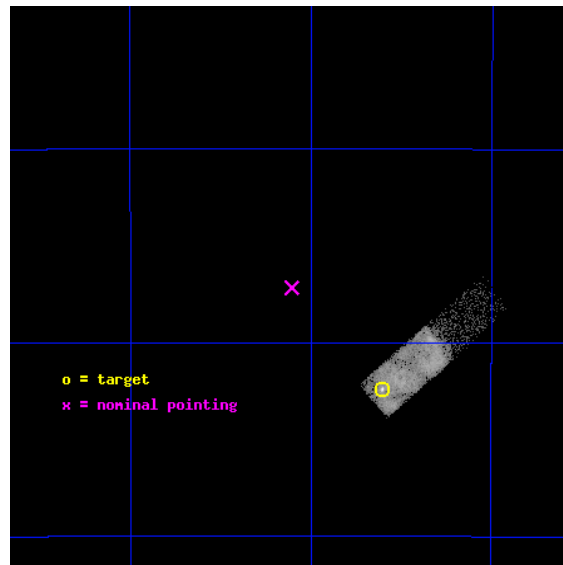
L2 Processing Date : Dec 22 2012

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# 1 Front

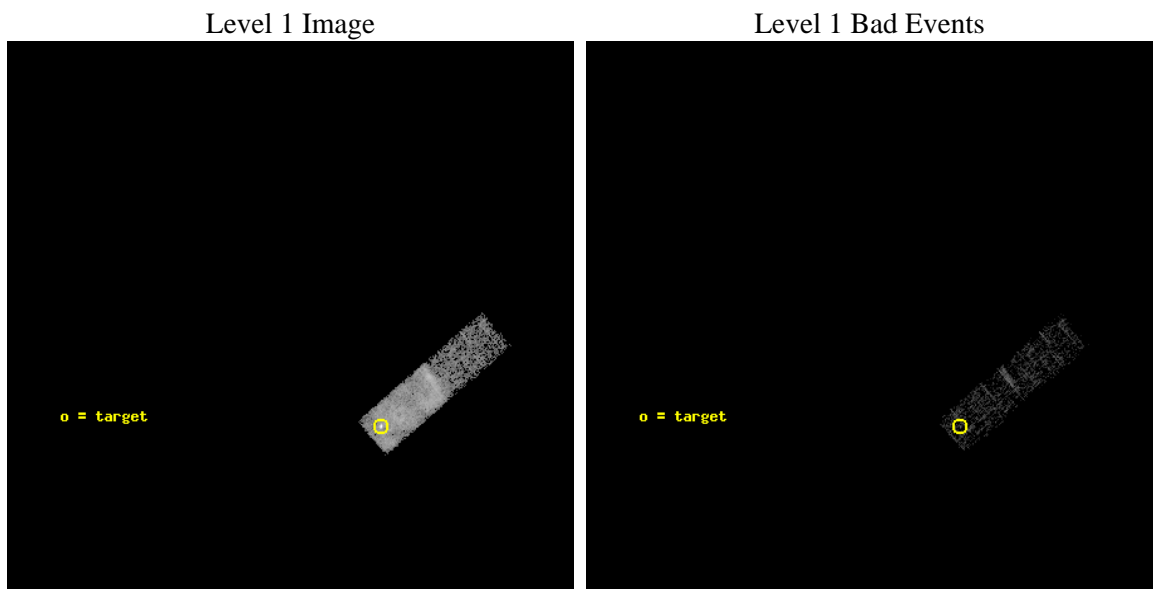
seq_num	500582	Sequence number
obs_id	5593	Observation id
title	Monitoring of the Central Object in RCW103	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	RCW103	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	244.40125	Observer's specified target RA [deg]
dec_targ	-51.040278	Observer's specified target Dec [deg]
ra_nom	244.52652220965	Nominal RA [deg]
dec_nom	-50.952877885719	Nominal Dec [deg]
roll_nom	49.094582855227	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5184.7590571642	Sum of GTIs [s]
livetime	4931.7597804282	Livetime [s]
ontime3	5184.7590571642	Sum of GTIs [s]
l2events	16769	Number of level 2 events



## 2 OBI

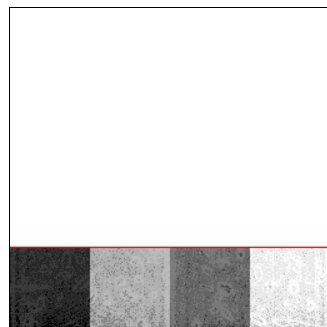
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 3



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	5184.7590571642	Sum of GTIs [s]
caldbver	4.5.5	&#160	ontime3	5184.7590571642	Sum of GTIs [s]
date	2012-12-22T14:09:01	Date and time of file creation	l1events	26008	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

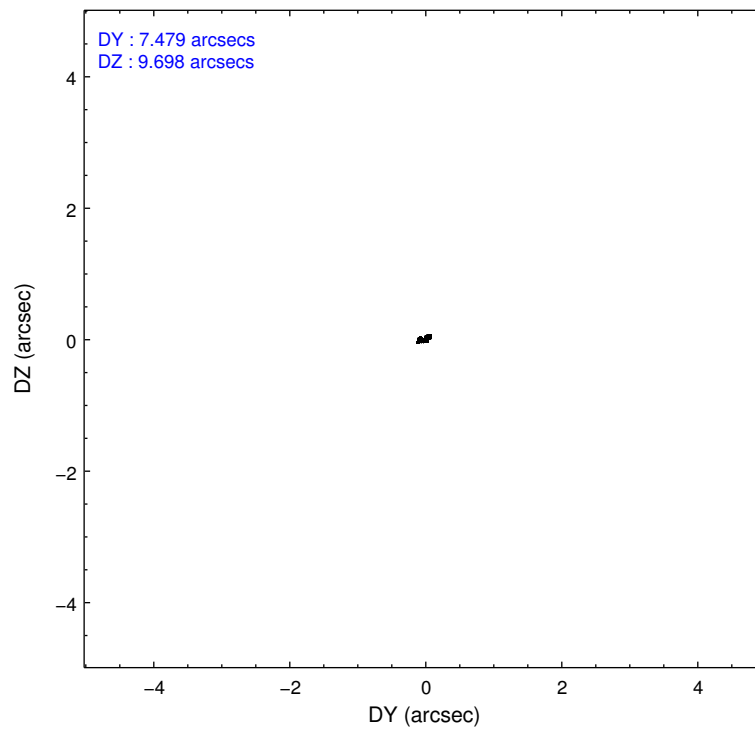
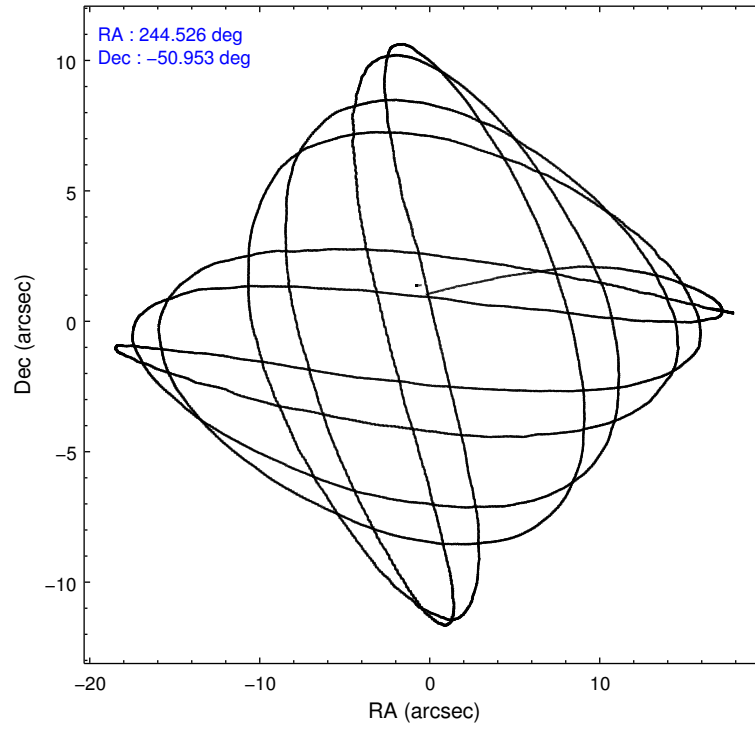
	<b>ccd 3</b>
level 1 events	26008
rejected events	8650
rejected %	33%

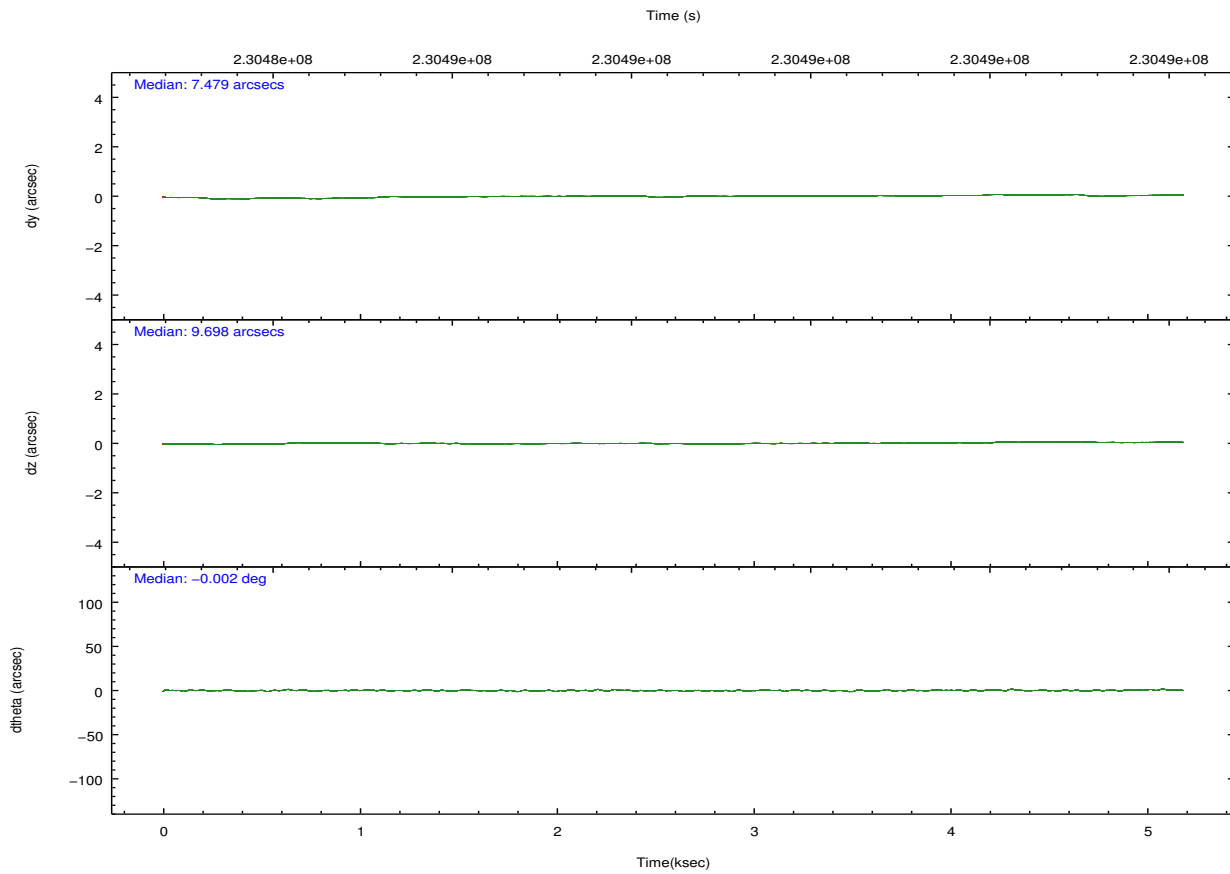
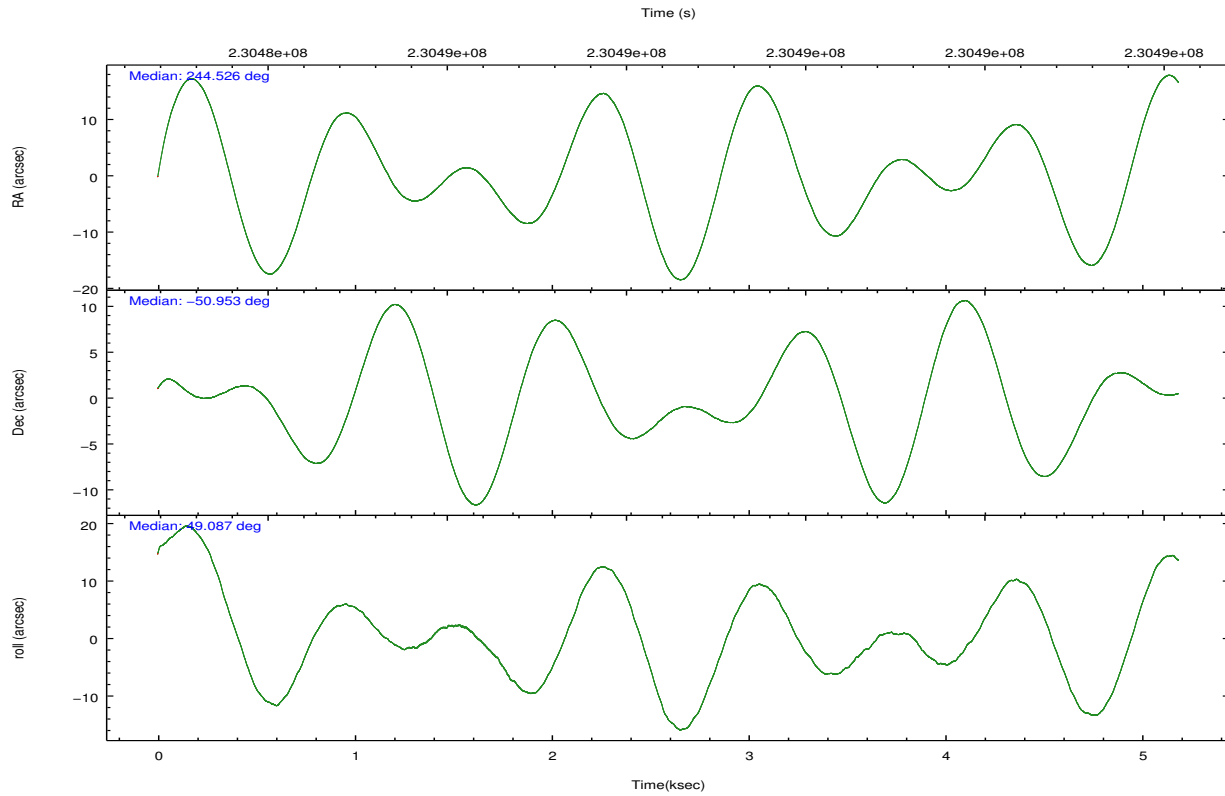
	<b>ccd 3</b>
grade 0 events	14639
	56%
grade 1 events	15
	0%
grade 2 events	1519
	5%
grade 3 events	537
	2%
grade 4 events	522
	2%
grade 5 events	163
	0%
grade 6 events	290
	1%
grade 7 events	8323
	32%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3	ACIS-3	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	244.518340	244.5265222096544	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-50.979833	-50.95287788571854	Subarray start row	1	1
[deg] Pointing Roll	48.879525	49.0945828552271	Subarray row count	256	256
[mm] SIM focus pos	-0.782348	-0.7809083437167272	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001439871863259334	[s] Primary exposure time	0.000000	0.8
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	230484822.184000	230484164.24481			
Observation start date	2005-04-21T15:32:38	2005-04-21T15:22:44			
[s] Observation end time (MET)	230489822.184000	230490275.80759			
Observation end date	2005-04-21T16:55:58	2005-04-21T17:04:35			
Read mode	TIMED	TIMED			

## 2.3 Aspect



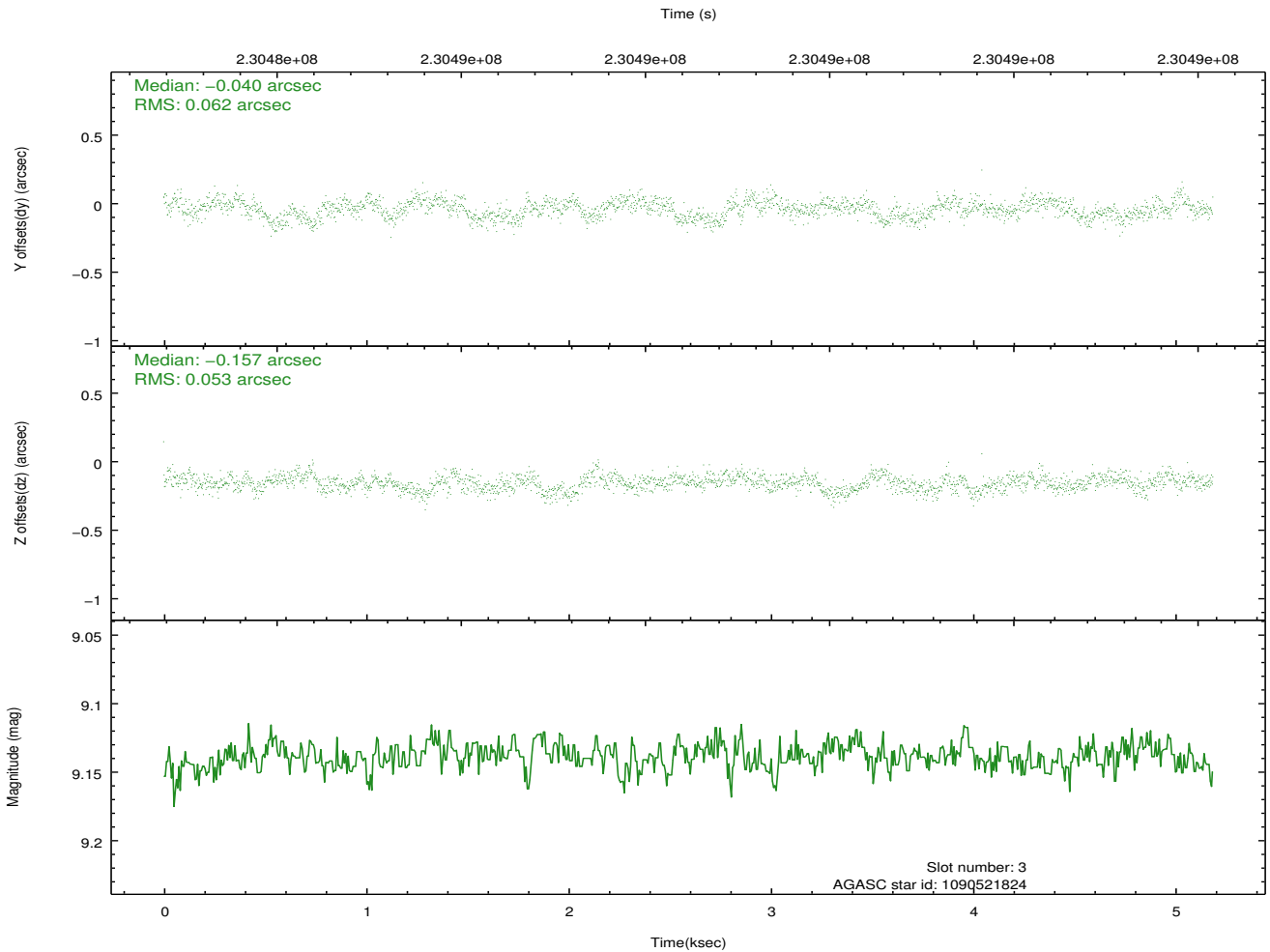
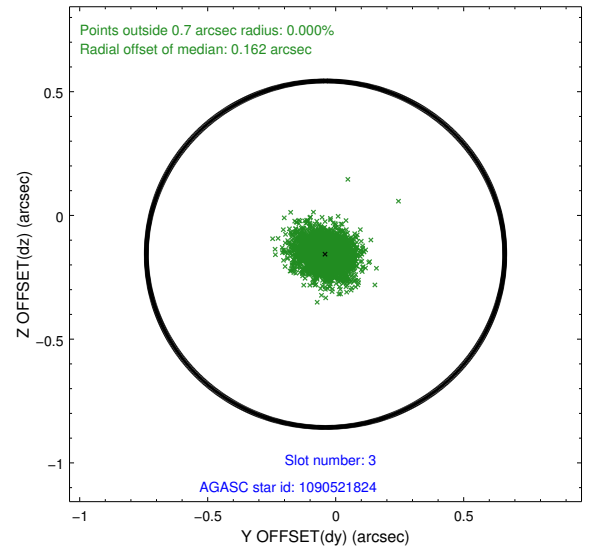
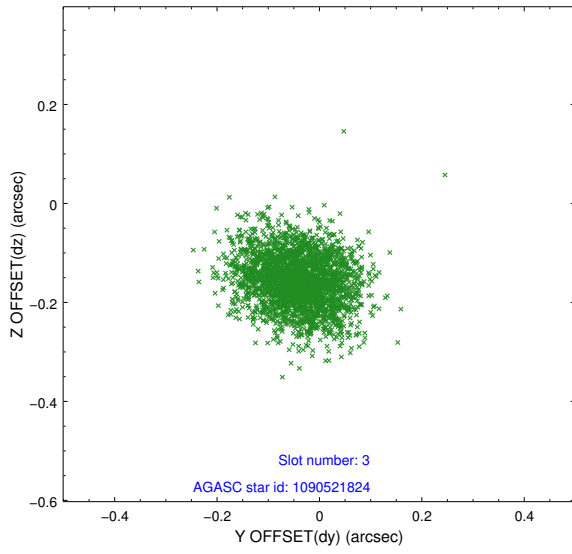


### Slot Statistics

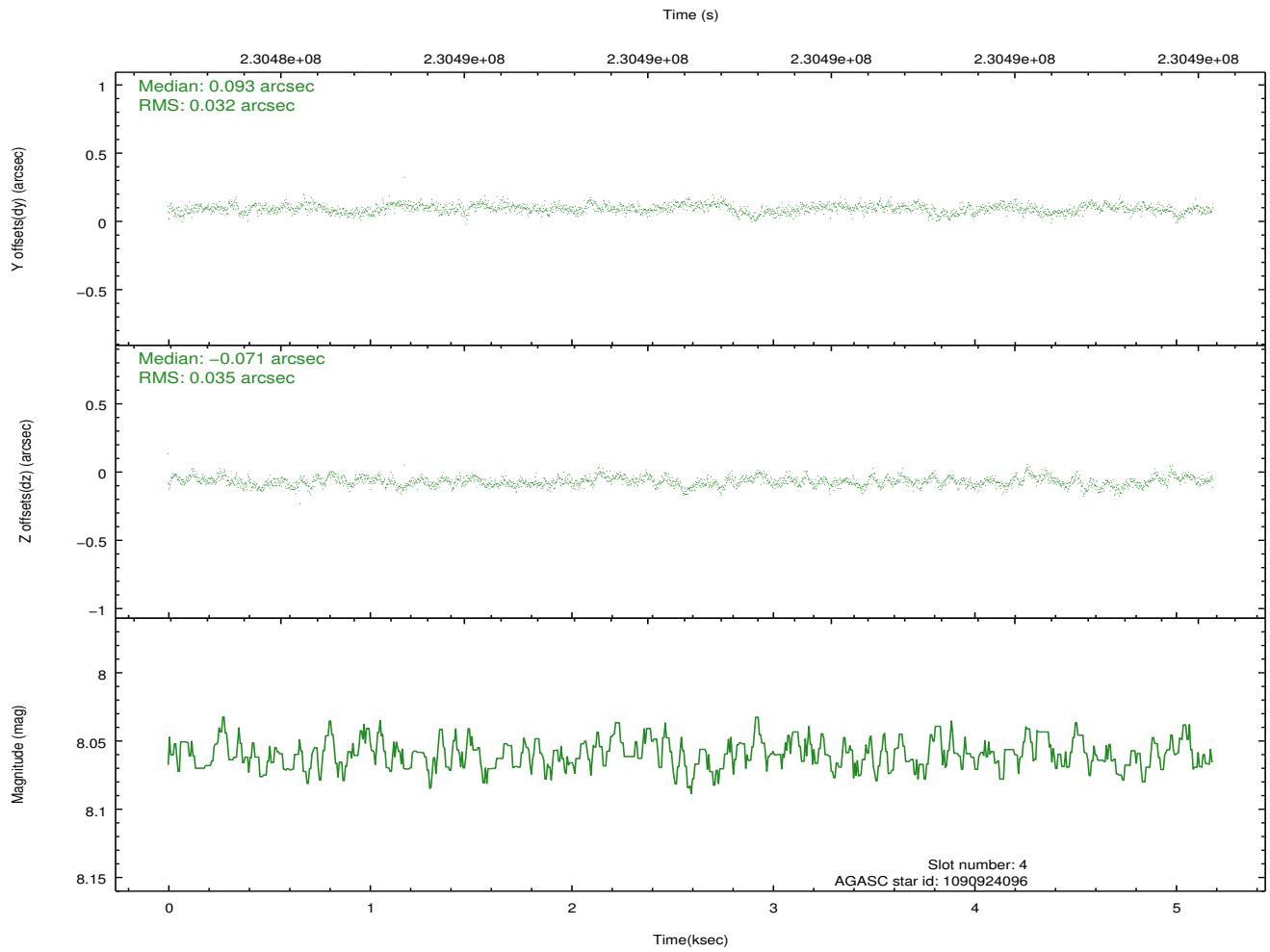
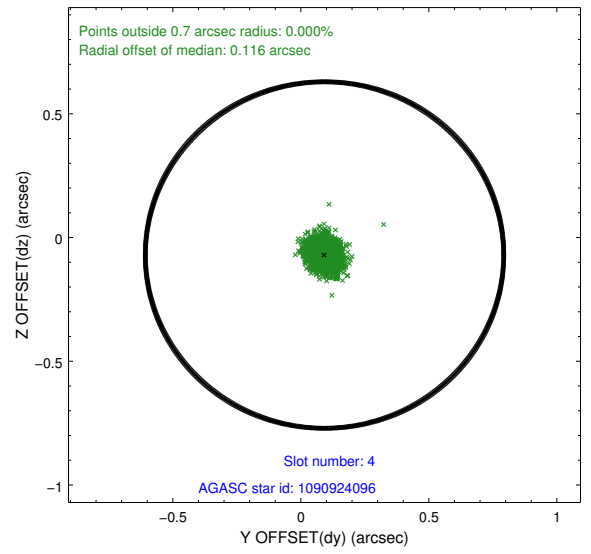
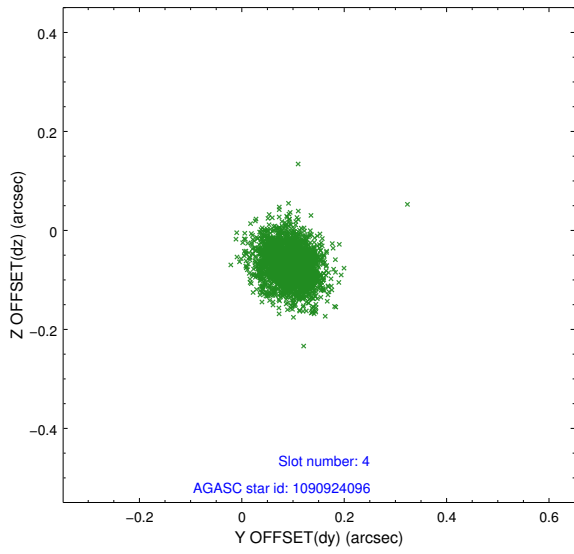
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1265	0.002	0.027	0.007	0.012	0.000000	0.000000	932.21	-833.13
1	FID	ACIS-I-5	7.23	1266	-0.158	0.025	0.006	0.011	0.000000	0.000000	-1815.42	1063.76
2	FID	ACIS-I-6	7.25	1266	0.065	0.019	0.007	0.013	0.000000	0.000000	396.54	1709.59
3	GUIDE	1090521824	9.14	2531	-0.040	-0.157	0.086	0.139	244.711253	-50.470098	1672.46	873.70
4	GUIDE	1090924096	8.06	2531	0.093	-0.071	0.050	0.083	243.849549	-51.016855	-1101.10	1049.14
5	GUIDE	1090924384	8.06	2531	0.177	-0.245	0.069	0.115	243.330505	-50.934017	-1665.16	2124.56
6	GUIDE	1091057912	9.14	2529	-0.194	0.305	0.090	0.147	245.642757	-51.112070	1297.29	-2238.69
7	GUIDE	1091059112	9.06	2529	-0.036	0.170	0.082	0.127	245.180420	-50.736664	1646.84	-565.41

## 2.4 Star Slots

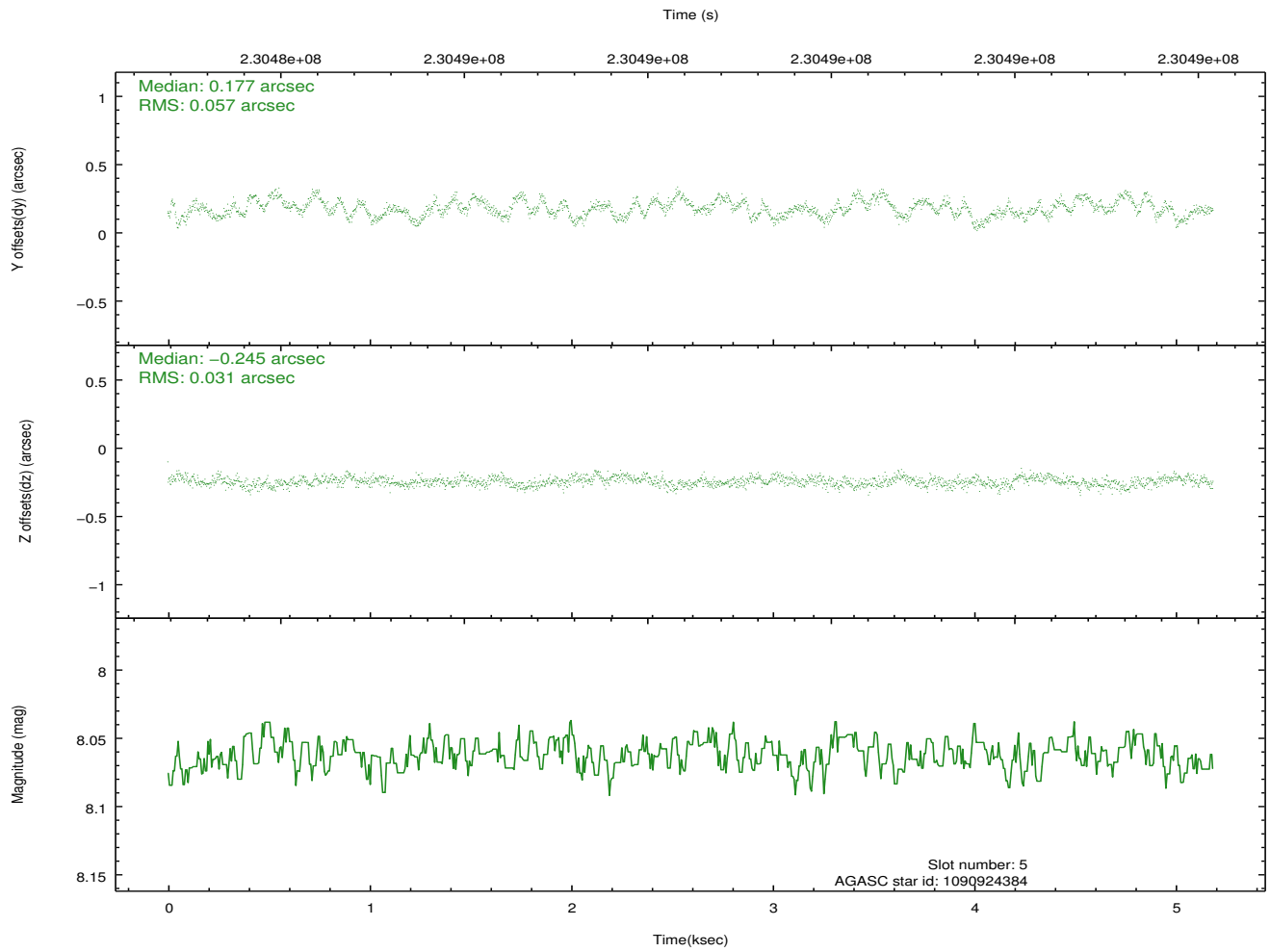
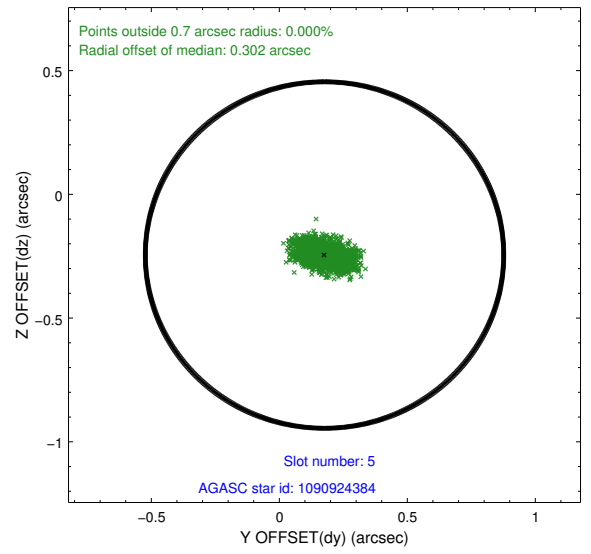
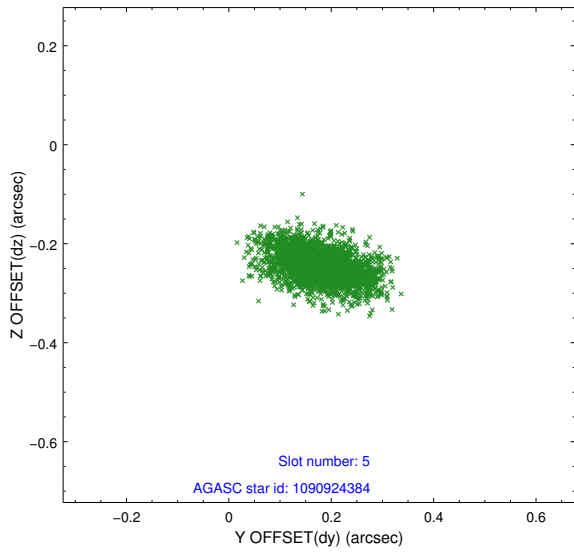
### 2.4.1 Slot 3



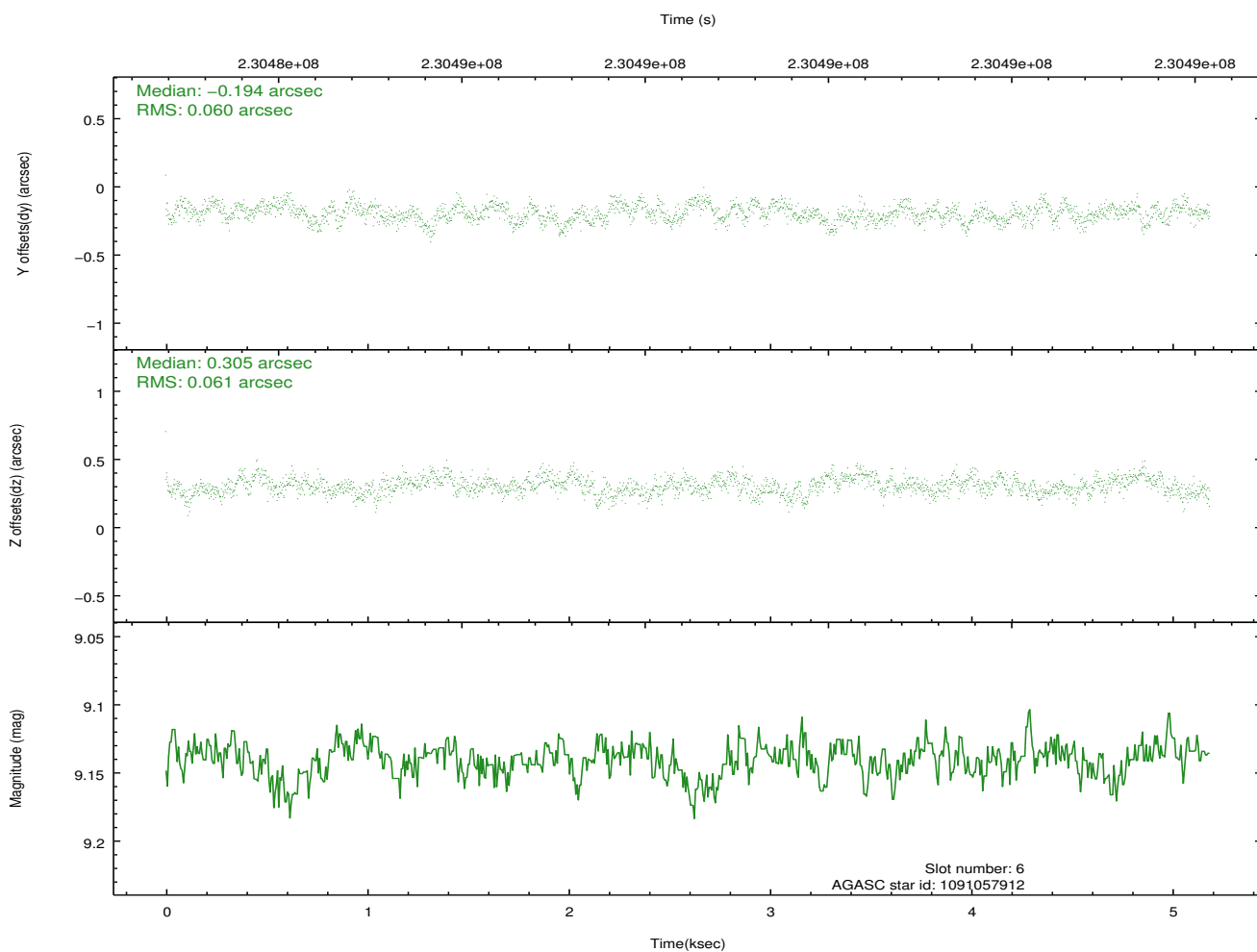
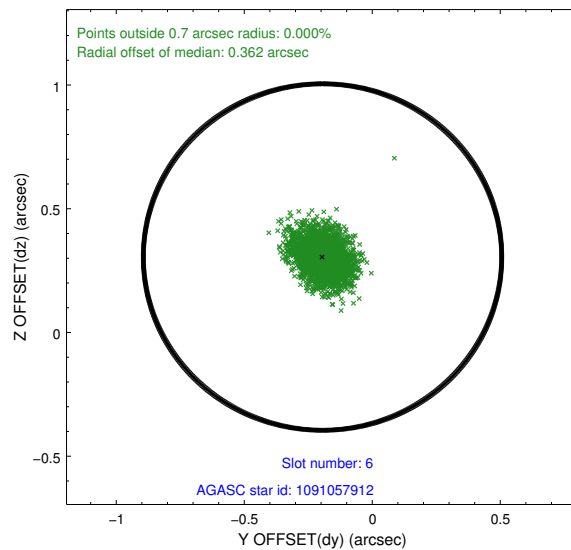
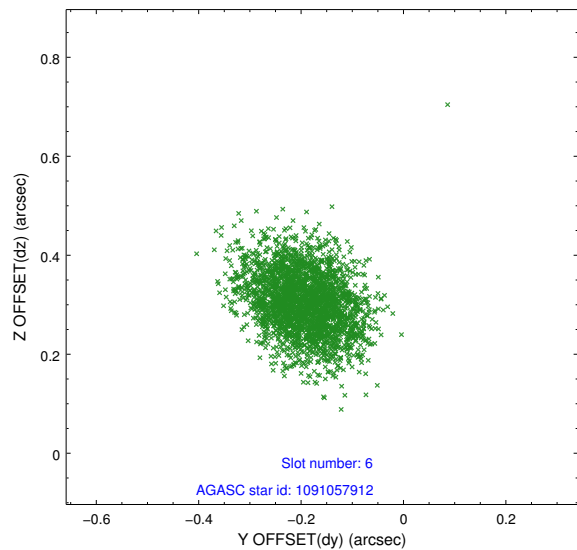
## 2.4.2 Slot 4



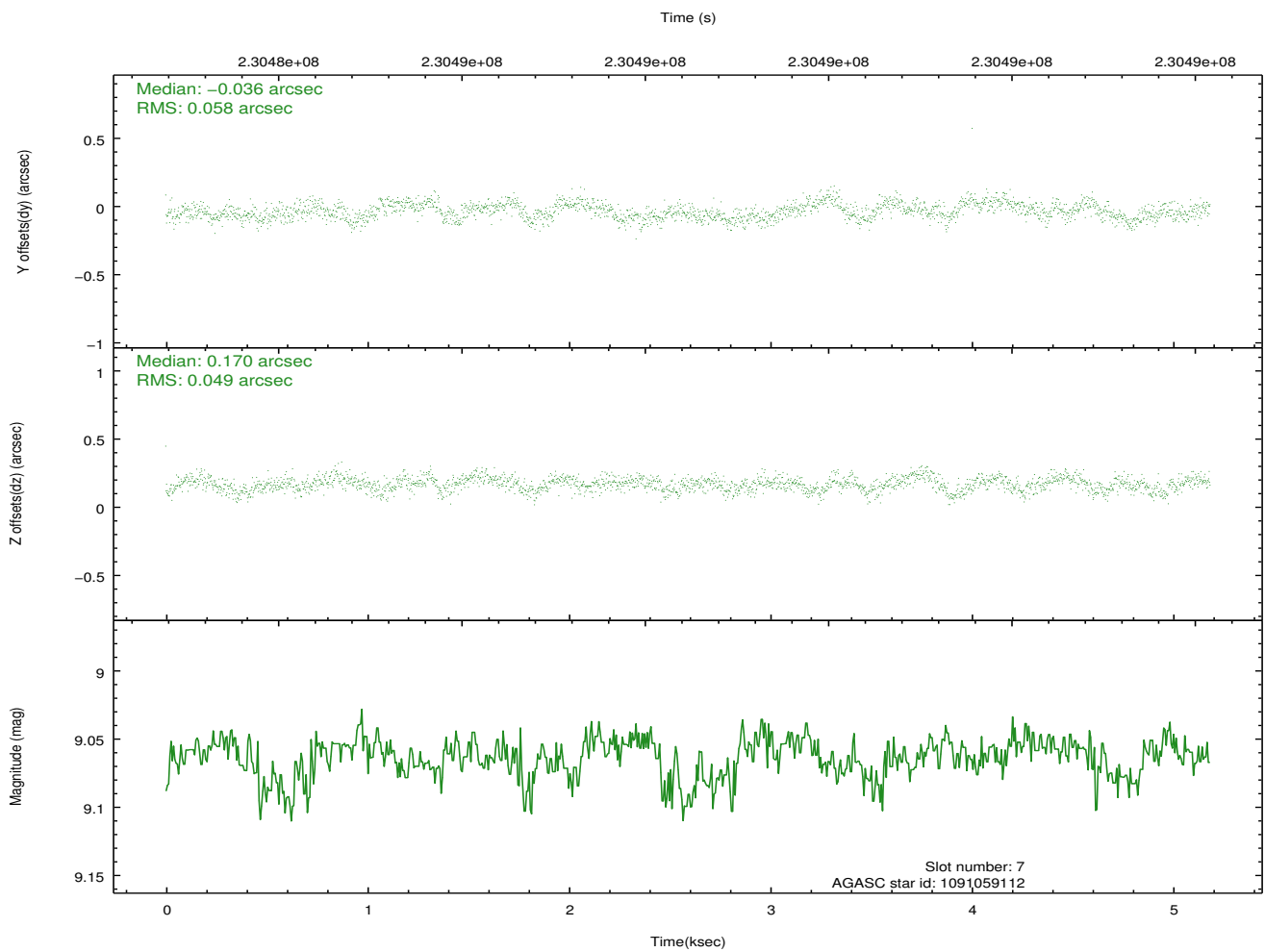
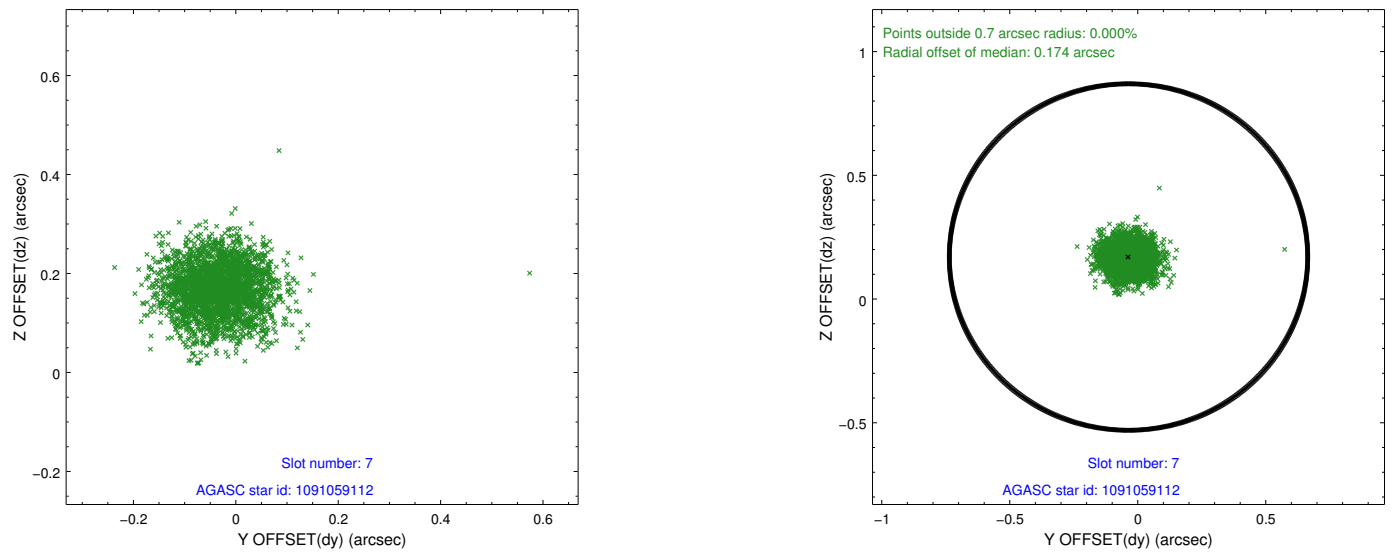
### 2.4.3 Slot 5



## 2.4.4 Slot 6

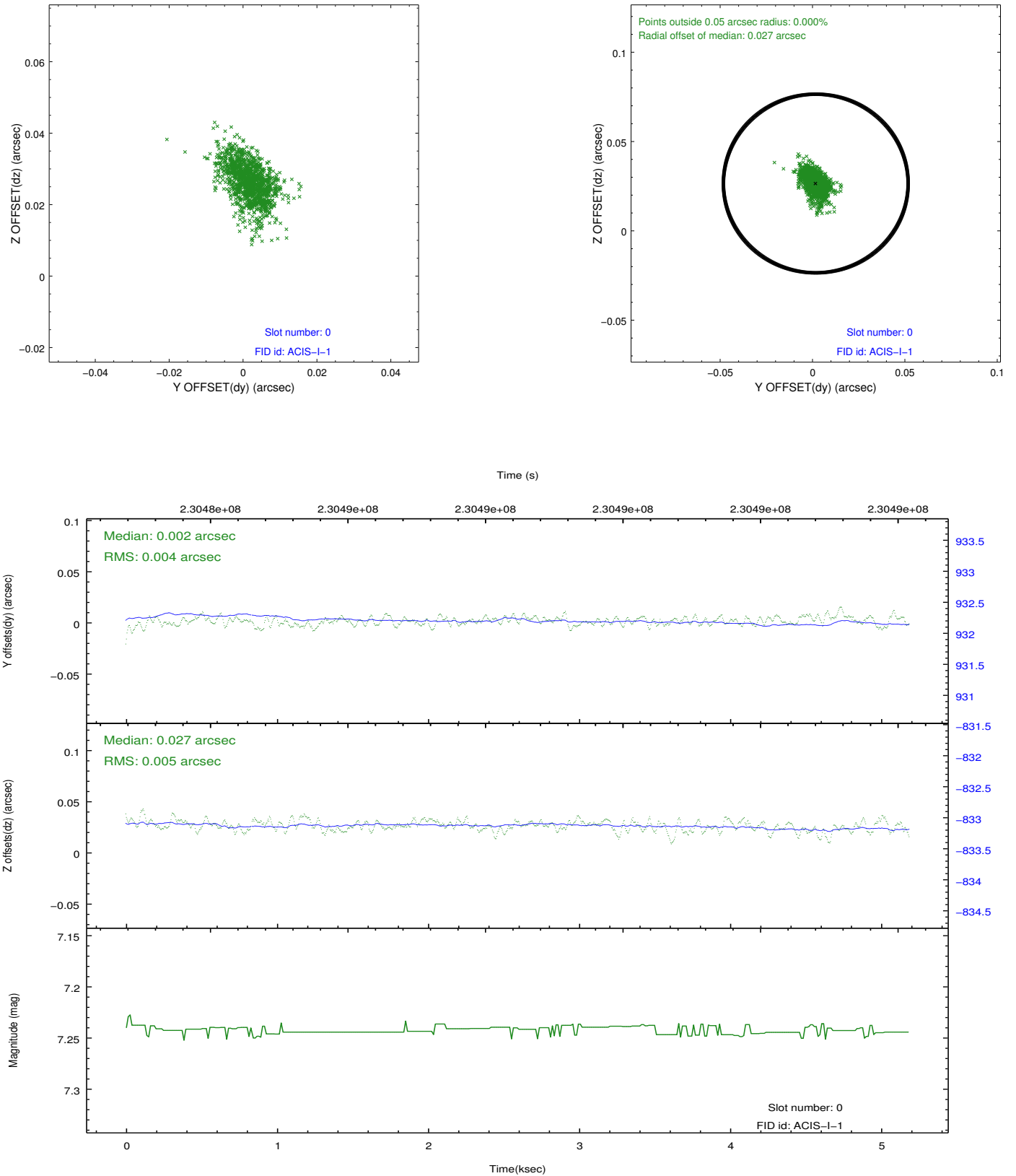


## 2.4.5 Slot 7

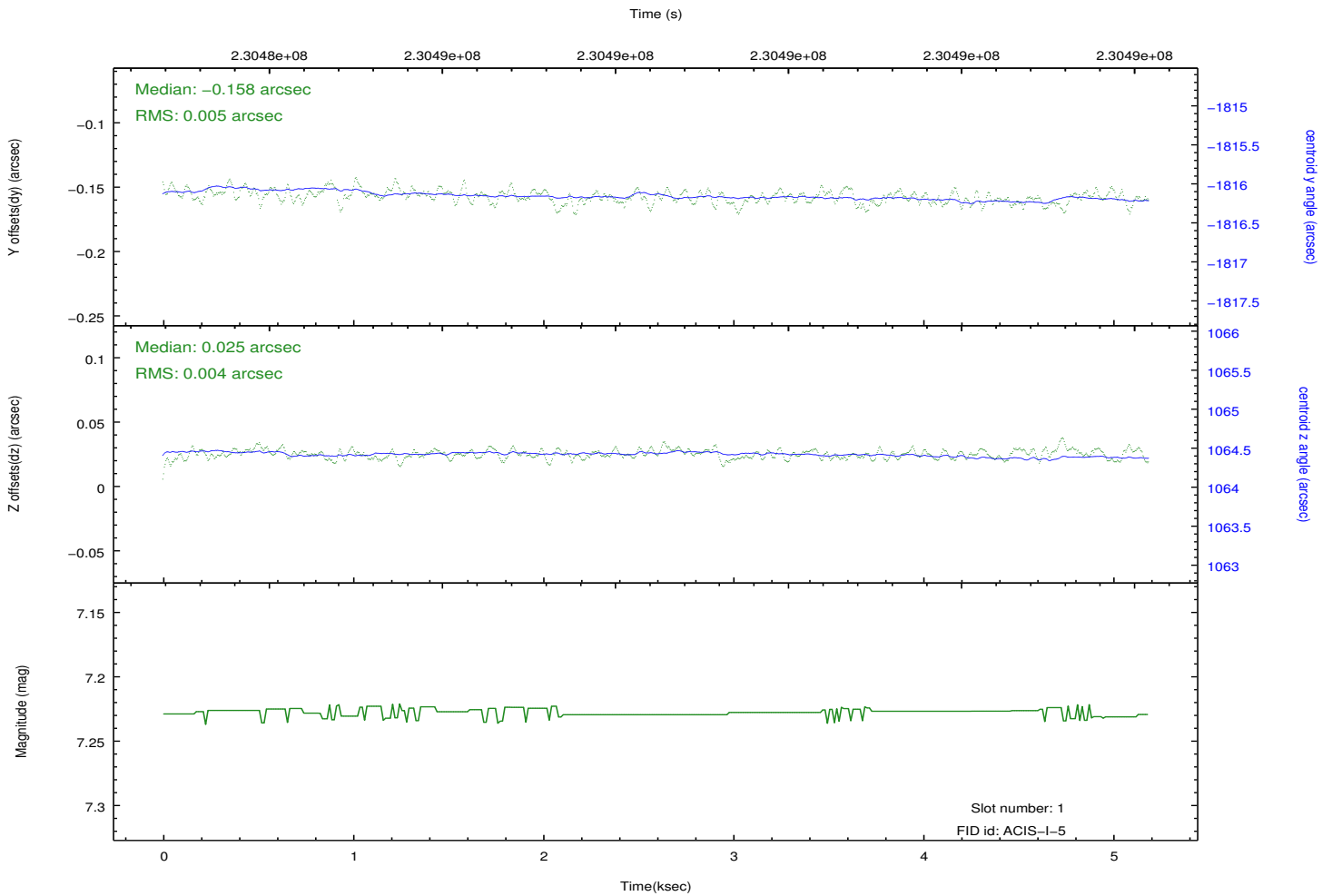
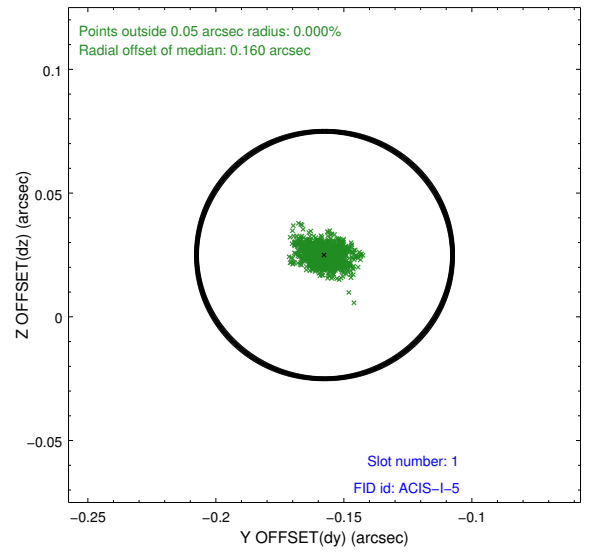
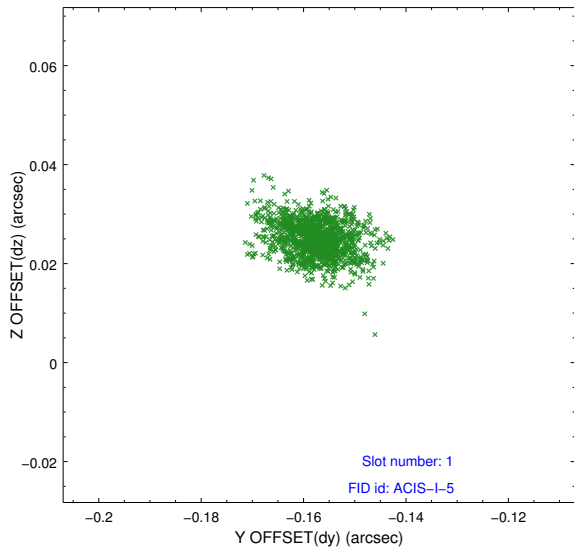


## 2.5 FID Slots

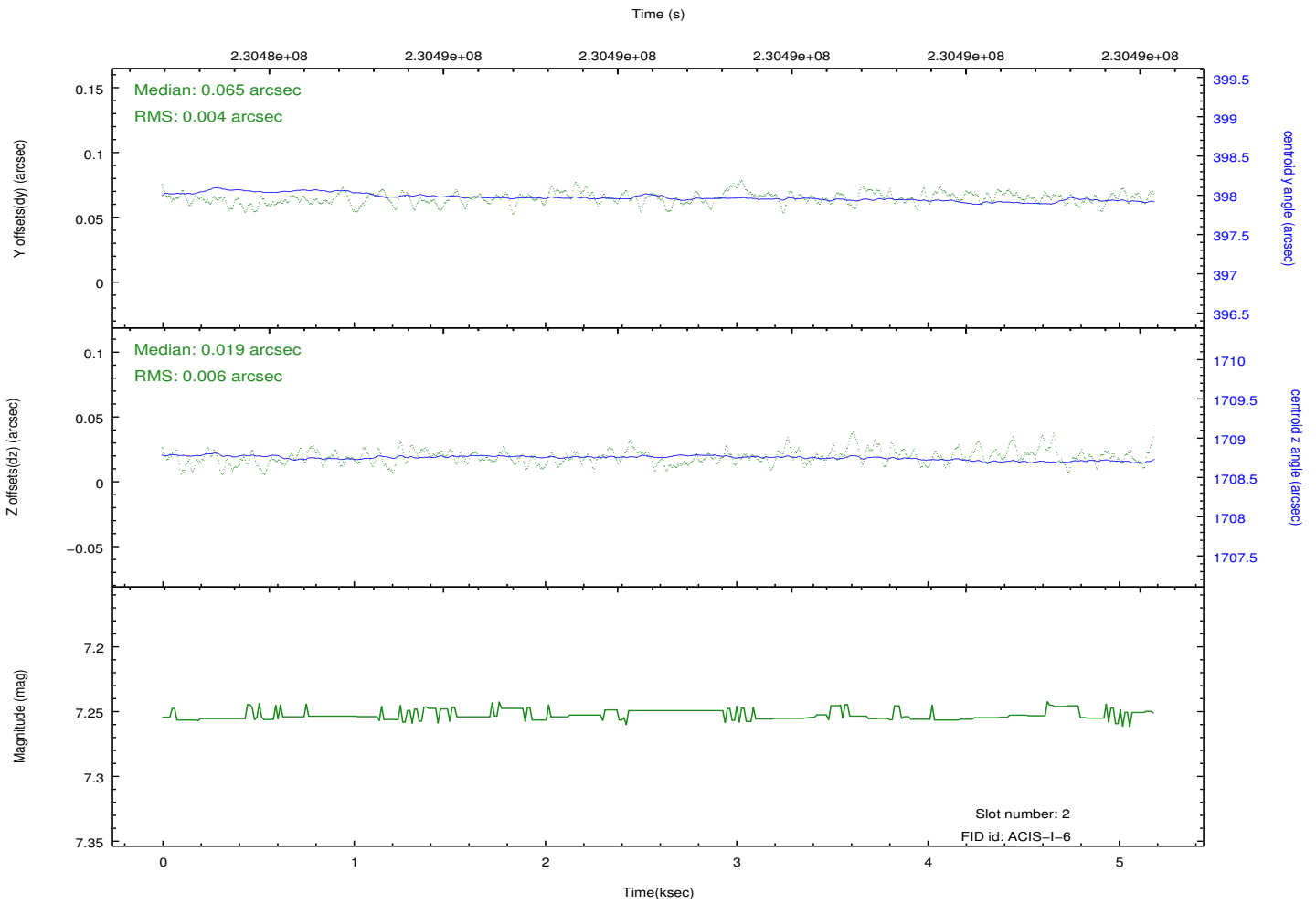
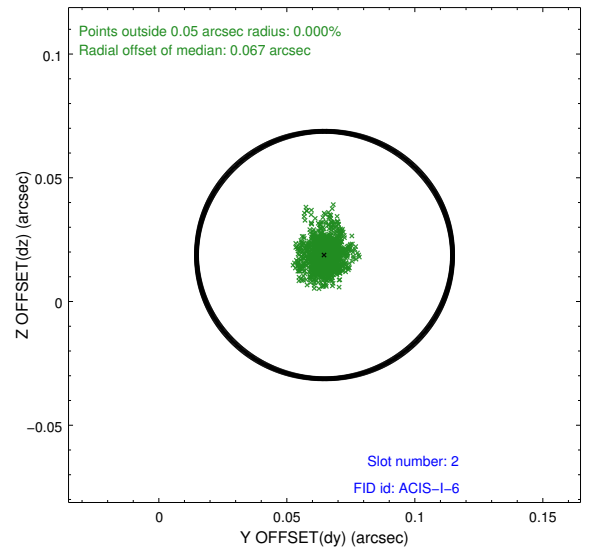
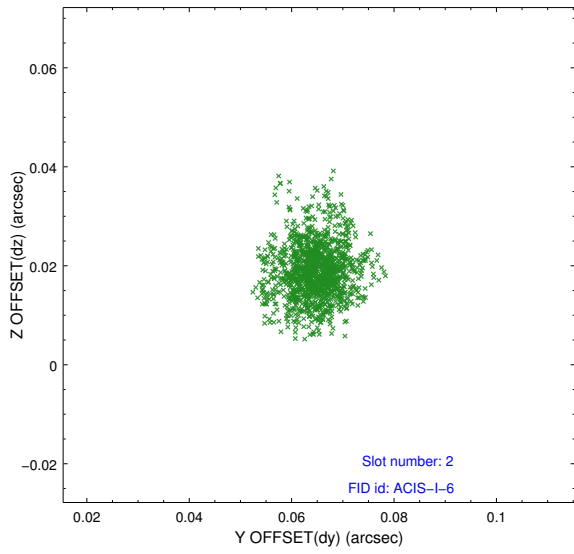
### 2.5.1 Slot 0



## 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)	2013.01.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.184759

## A.2 Comments

Monitor constraint met. Target deliberately offset from aimpoint by about 45 arcsec to the SW, mitigating pileup.PSF may be affected.