

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 16163 - L2 Version 1  
Chandra X-Ray Center

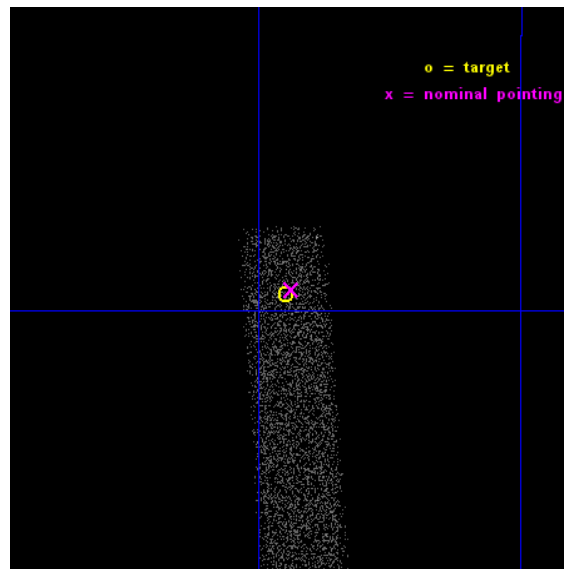
L2 Processing Date : Jan 31 2015

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# 1 Front

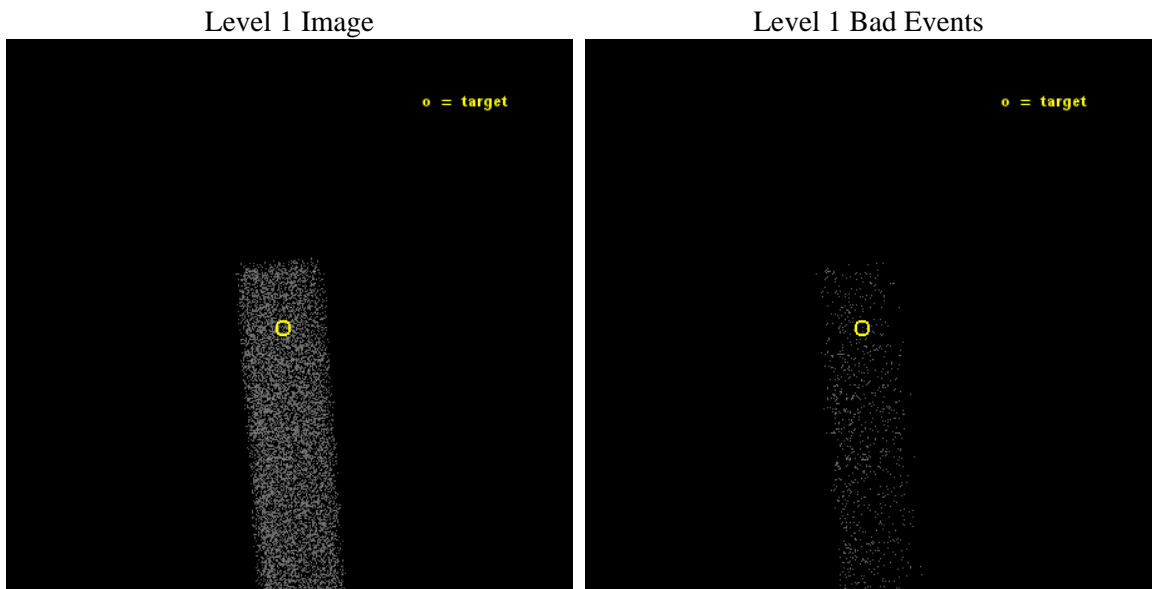
seq_num	901103	Sequence number
obs_id	16163	Observation id
title	Chandra Studies of Unidentified X-ray Sources in the Galactic Bulge	&#160
observer	Dr. Hideyuki Mori	Principal investigator
object	1RXS J170856.9-235936	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	257.237083	Observer's specified target RA [deg]
dec_targ	-23.993333	Observer's specified target Dec [deg]
ra_nom	257.23437756547	Nominal RA [deg]
dec_nom	-23.991445350832	Nominal Dec [deg]
roll_nom	85.891947900496	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7060.7995791435	Sum of GTIs [s]
livetime	6716.2556636008	Livetime [s]
ontime7	7060.7995791435	Sum of GTIs [s]
l2events	5919	Number of level 2 events



## 2 OBI

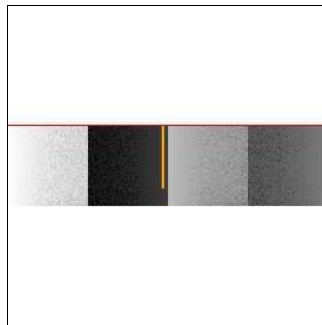
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	7060.7995791435	Sum of GTIs [s]
caldsver	4.6.6	&#160	ontime7	7060.7995791435	Sum of GTIs [s]
date	2015-01-31T23:57:00	Date and time of file creation	l1events	12114	Number of level 1 events
revision	1	Processing version of data			

### 2.1.4 Events

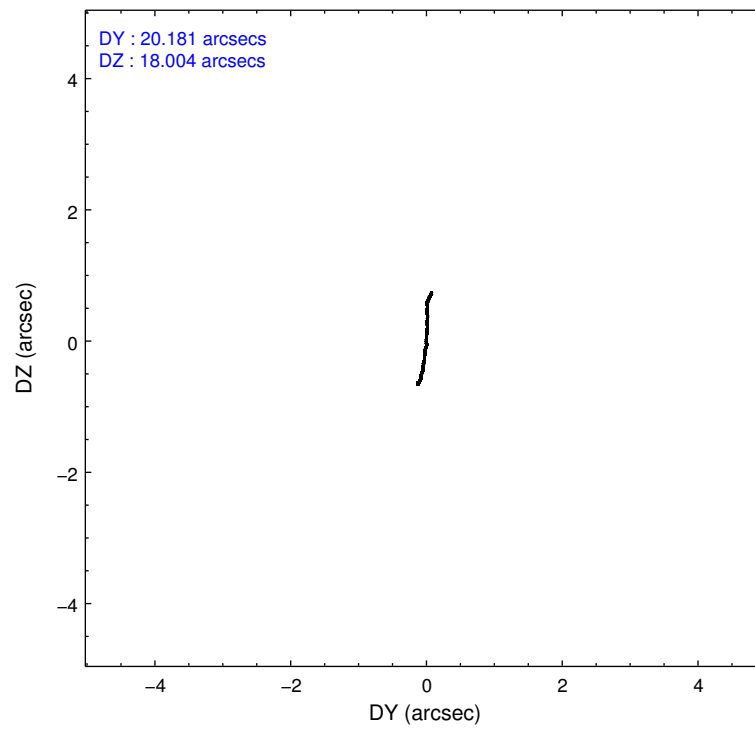
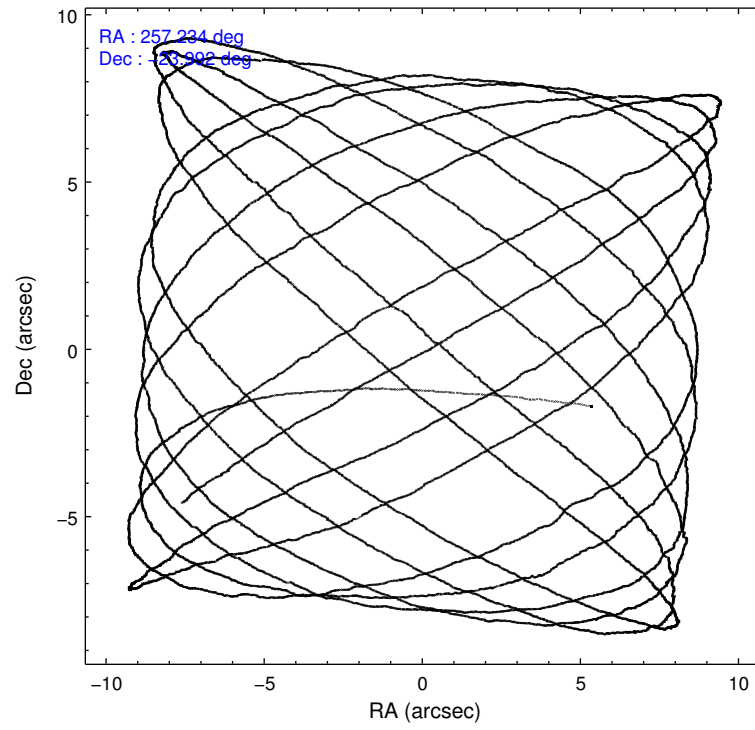
	<b>ccd 7</b>
level 1 events	12114
rejected events	6032
rejected %	49%

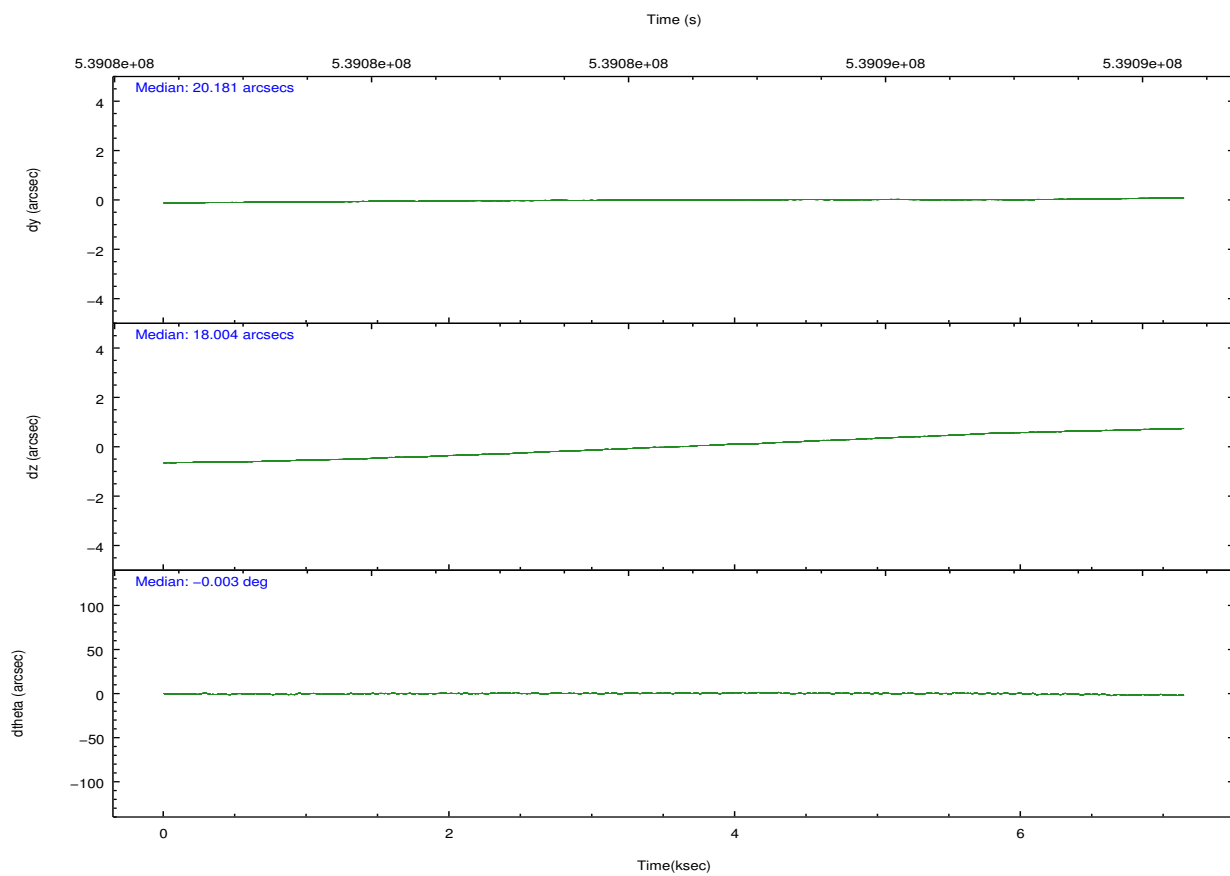
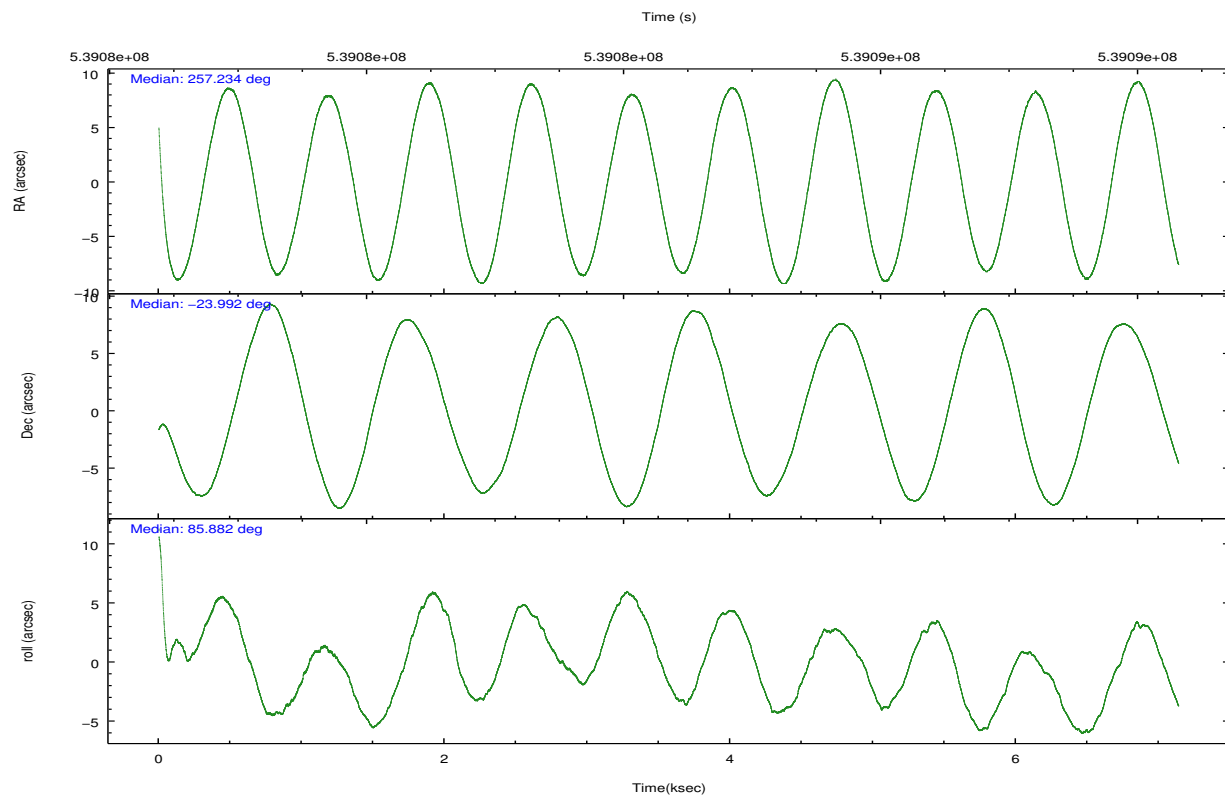
	<b>ccd 7</b>
grade 0 events	737
	6%
grade 1 events	13
	0%
grade 2 events	1242
	10%
grade 3 events	724
	5%
grade 4 events	709
	5%
grade 5 events	1228
	10%
grade 6 events	2671
	22%
grade 7 events	4790
	39%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	257.247867	257.2343775654701	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	-24.015957	-23.99144535083231	Subarray start row	385	385
[deg] Pointing Roll	85.740804	85.89194790049649	Subarray row count	256	256
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.8
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	539080912.184000	539079723.69835			
Observation start date	2015-01-31T08:40:45	2015-01-31T08:22:03			
[s] Observation end time (MET)	539087912.184000	539088859.52386			
Observation end date	2015-01-31T10:37:25	2015-01-31T10:54:19			
Read mode	TIMED	TIMED			

## 2.3 Aspect



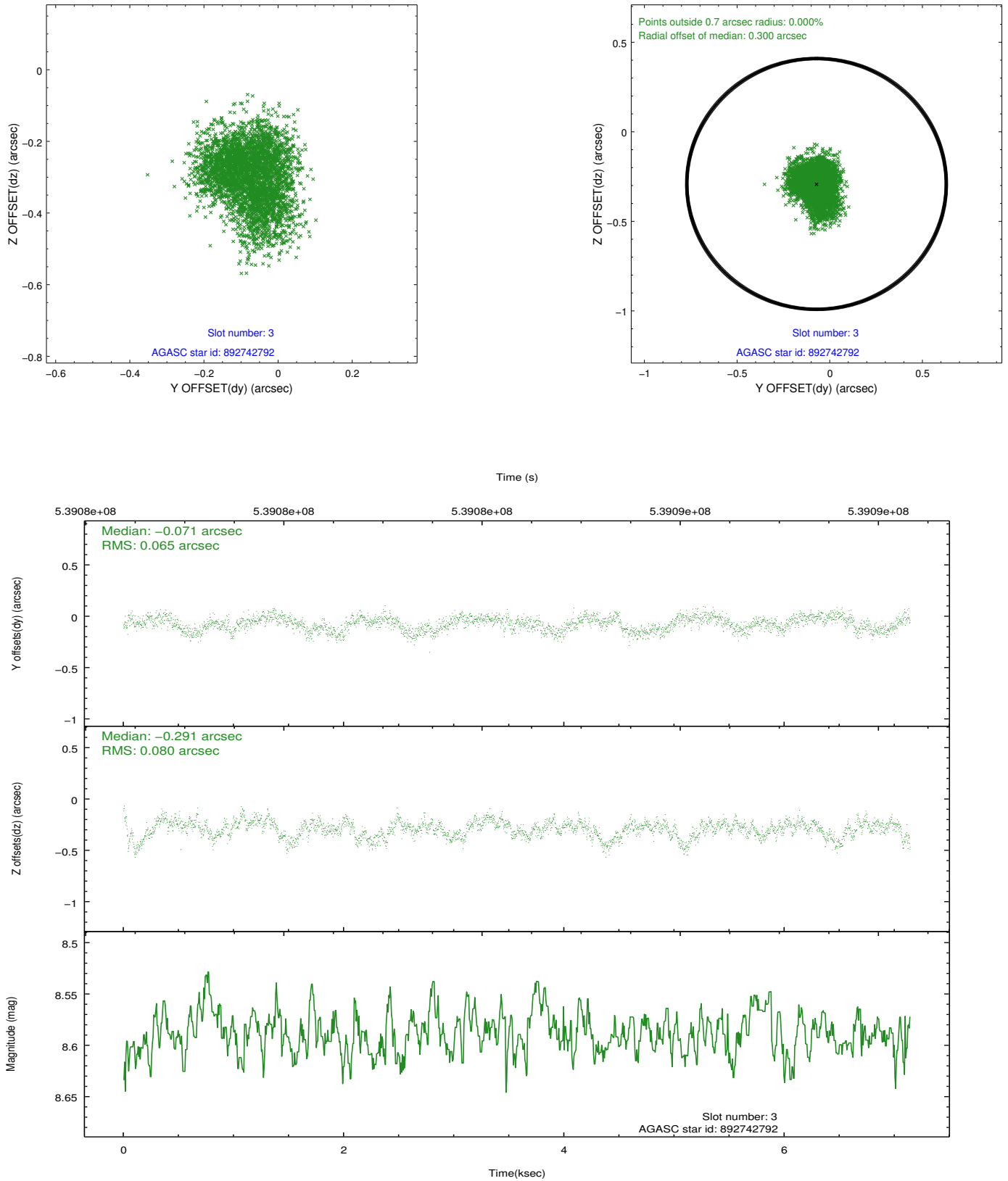


### Slot Statistics

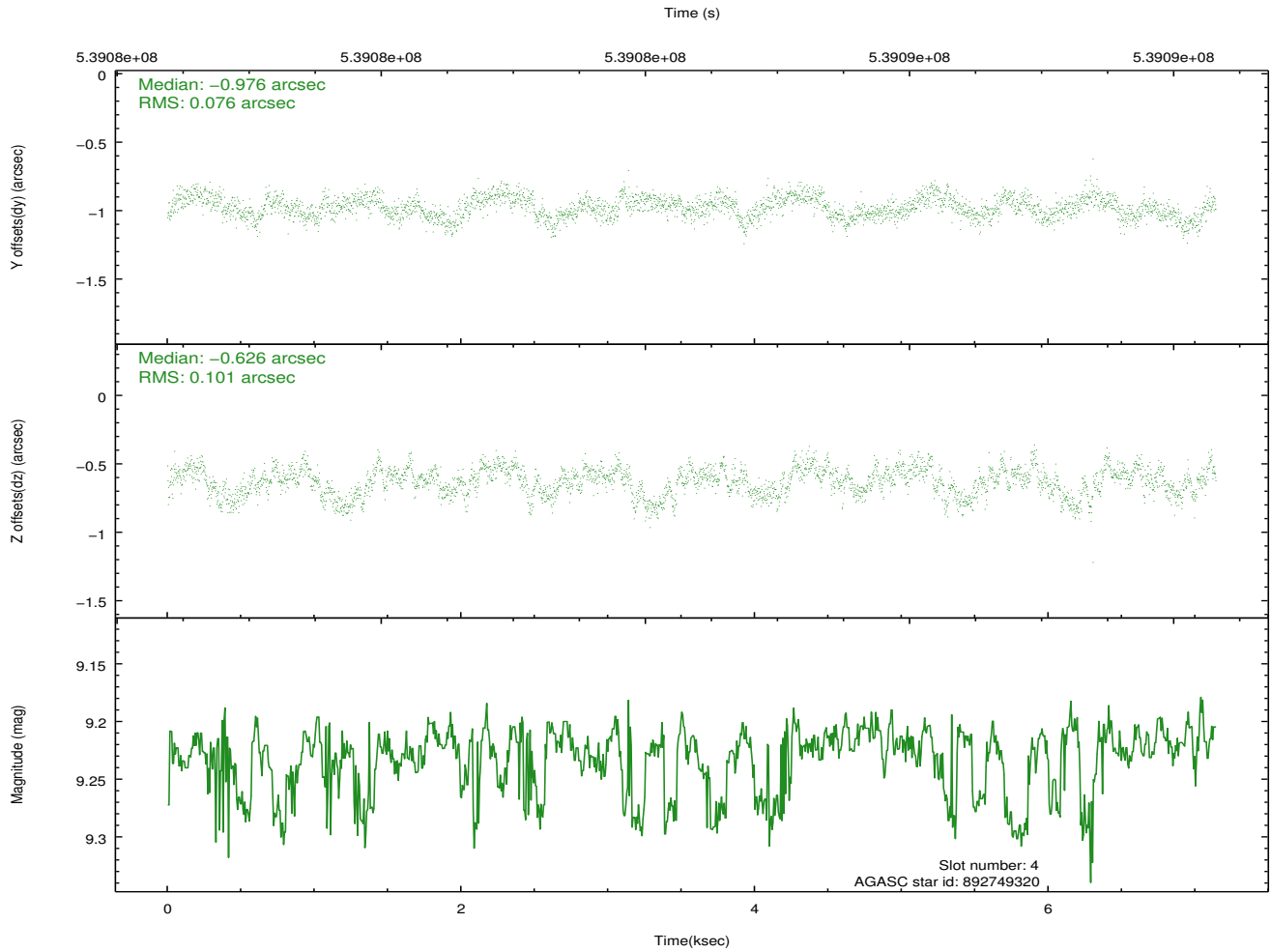
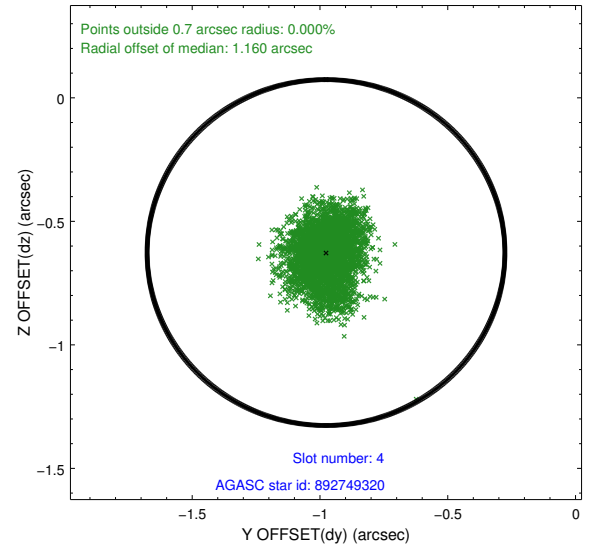
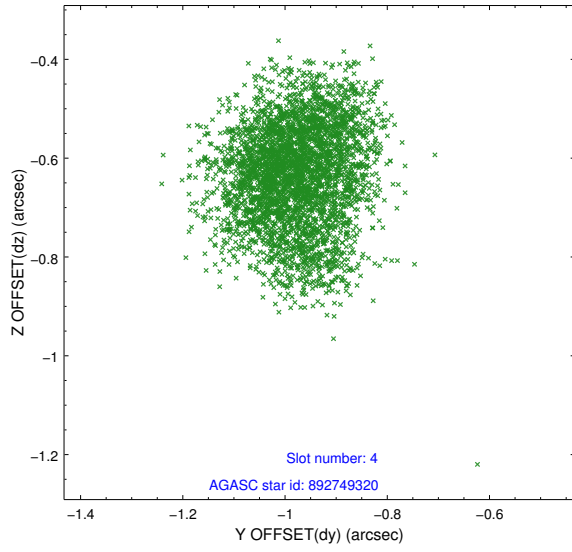
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.05	1742	-0.140	-0.093	0.016	0.025	0.000000	0.000000	-773.44	-1739.50
1	FID		ACIS-S-4	7.15	1742	0.357	0.092	0.009	0.014	0.000000	0.000000	2139.99	168.27
2	FID		ACIS-S-5	7.16	1742	-0.247	0.009	0.010	0.018	0.000000	0.000000	-1825.33	162.84
3	GUIDE	used	892742792	8.59	3483	-0.071	-0.291	0.109	0.178	257.106945	-23.592779	1484.43	576.80
4	GUIDE	used	892749320	9.23	3484	-0.976	-0.626	0.135	0.215	256.618708	-23.488842	1732.76	2212.12
5	GUIDE	used	892865960	8.47	3480	0.178	0.300	0.085	0.142	257.518652	-24.013697	74.34	-886.43
6	GUIDE	used	892866344	9.30	3479	0.273	0.556	0.116	0.183	257.798677	-24.165148	-404.06	-1844.00
7	GUIDE	used	893267224	9.01	3481	0.605	0.082	0.125	0.201	256.719517	-24.559792	-2083.84	1578.91

## 2.4 Star Slots

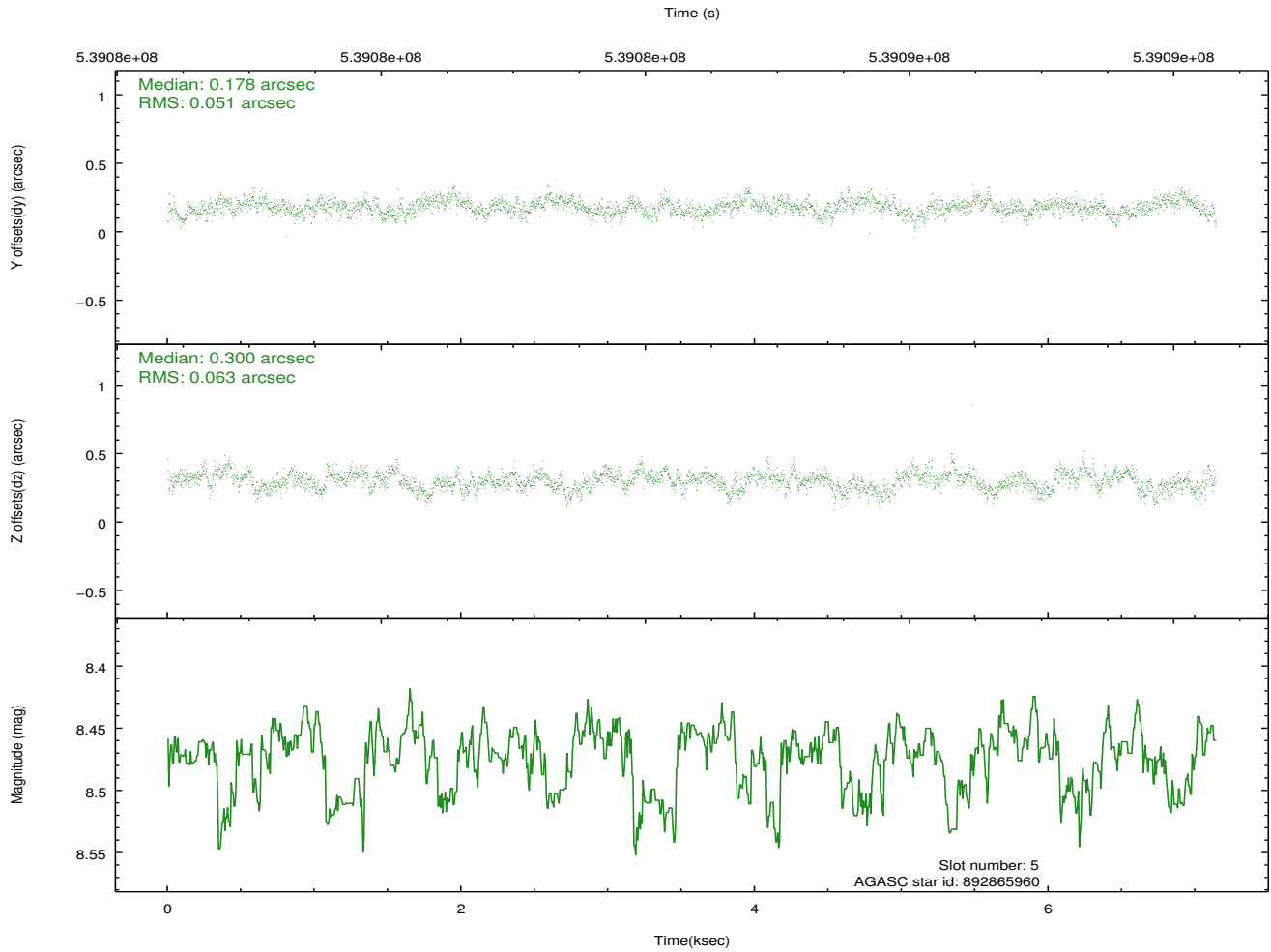
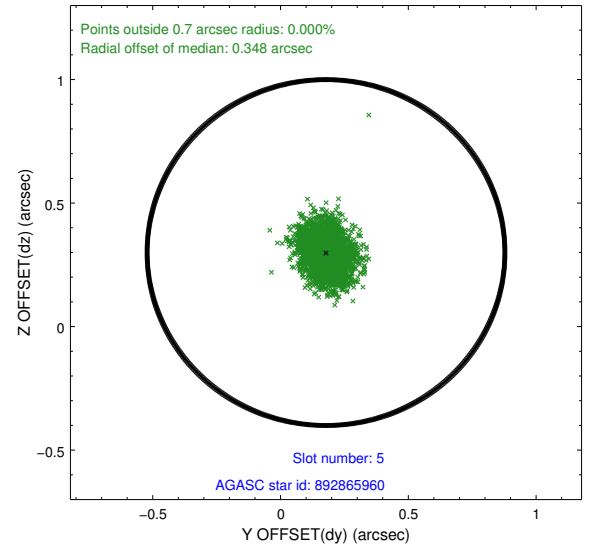
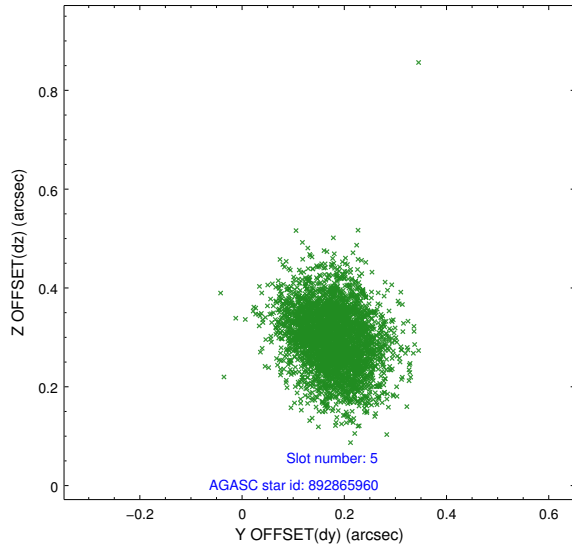
### 2.4.1 Slot 3



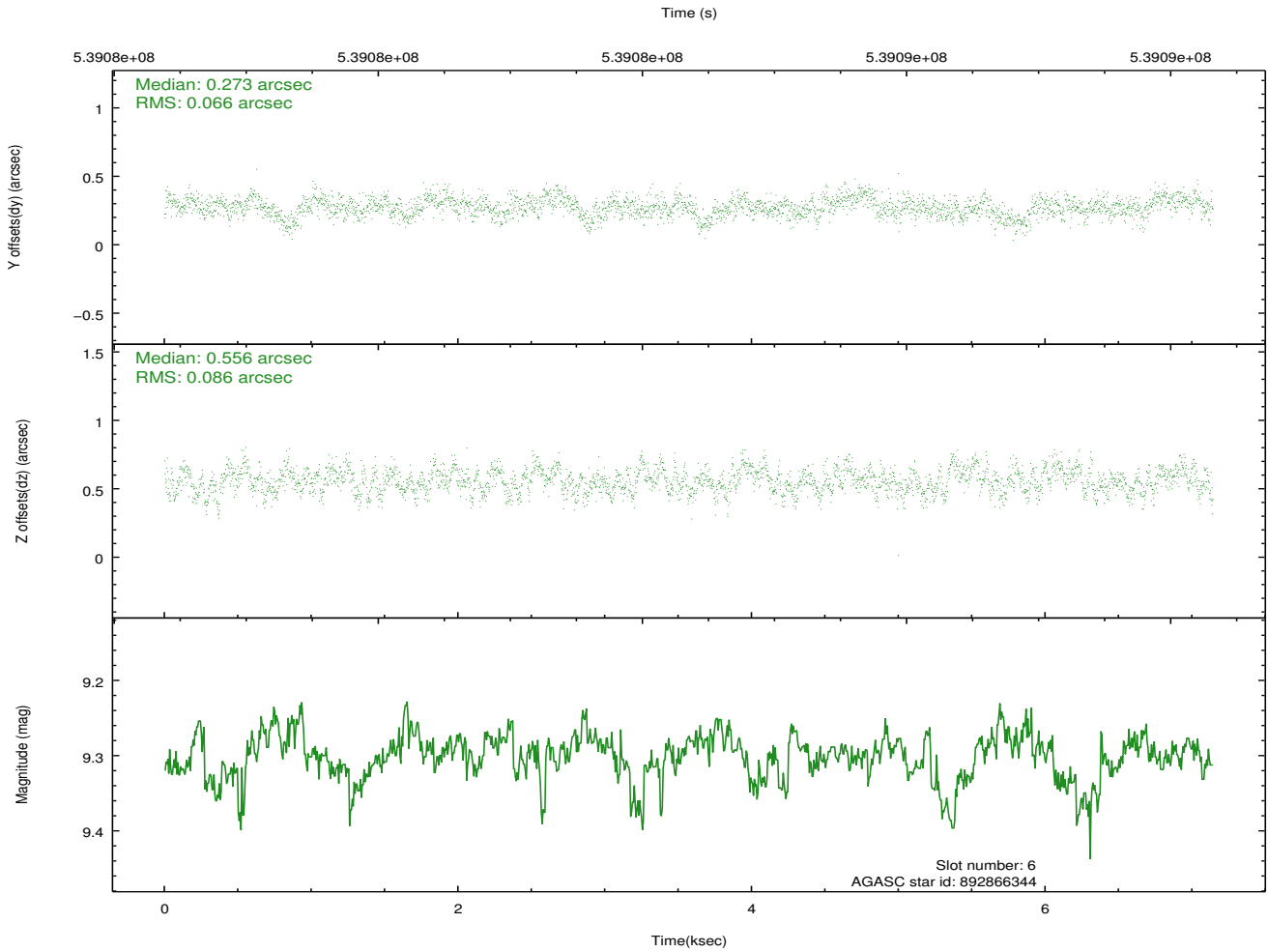
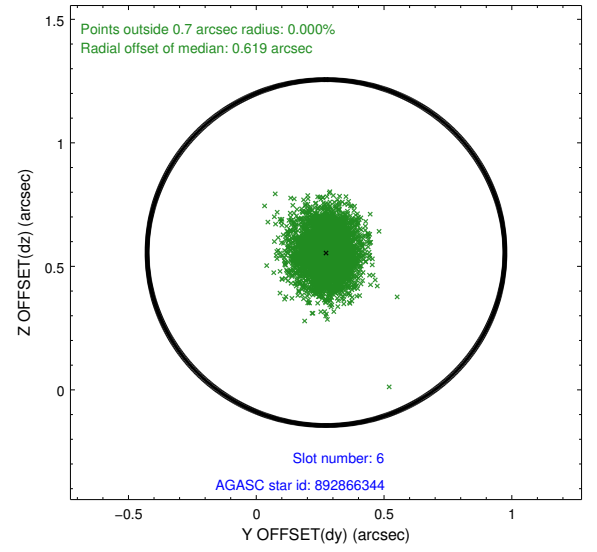
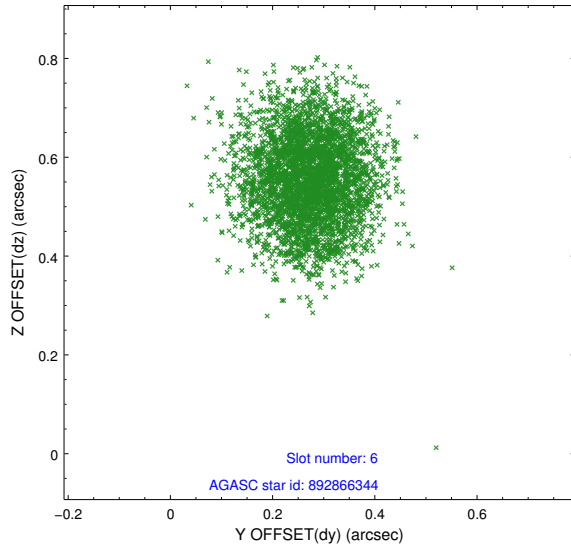
## 2.4.2 Slot 4



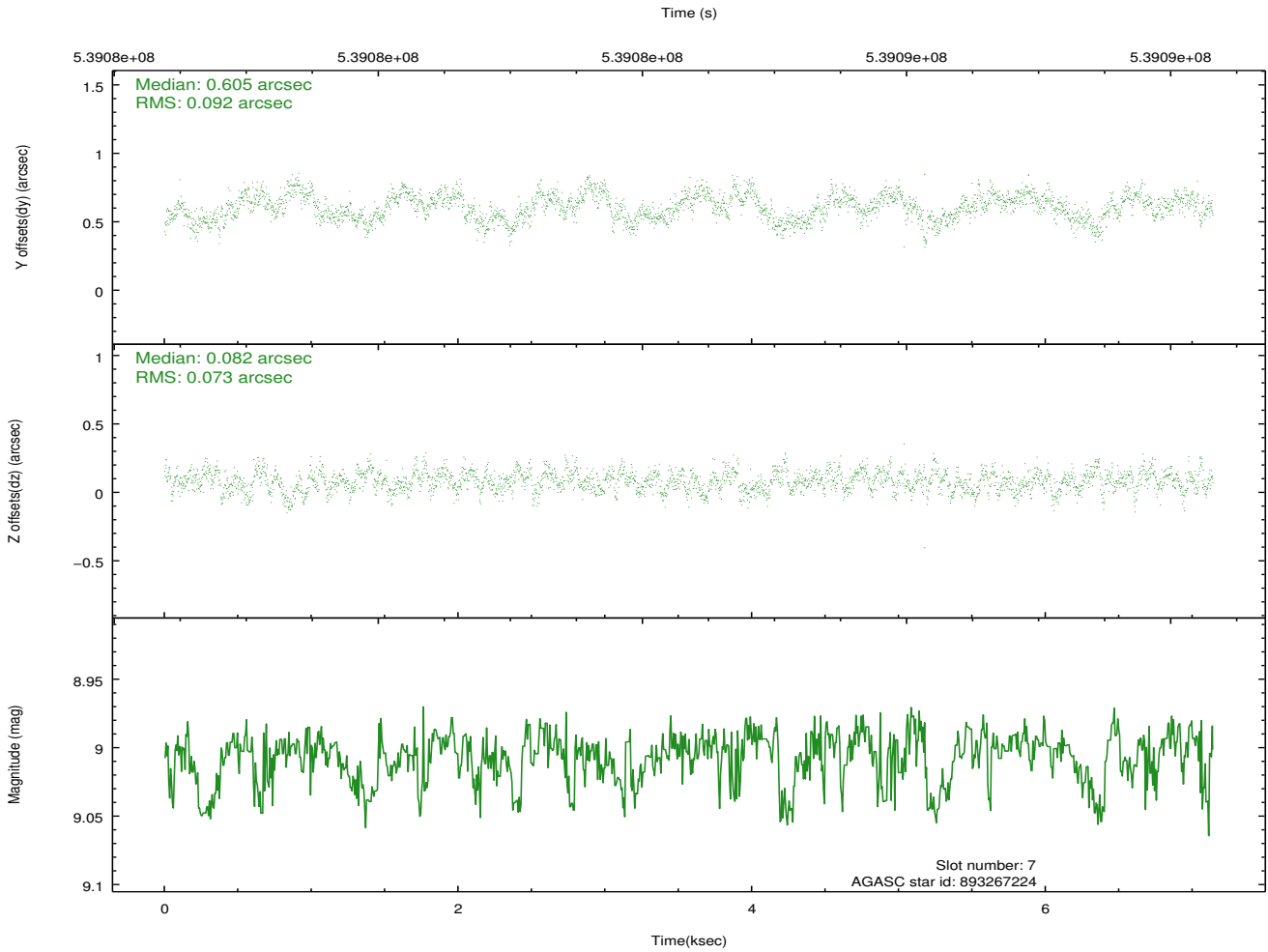
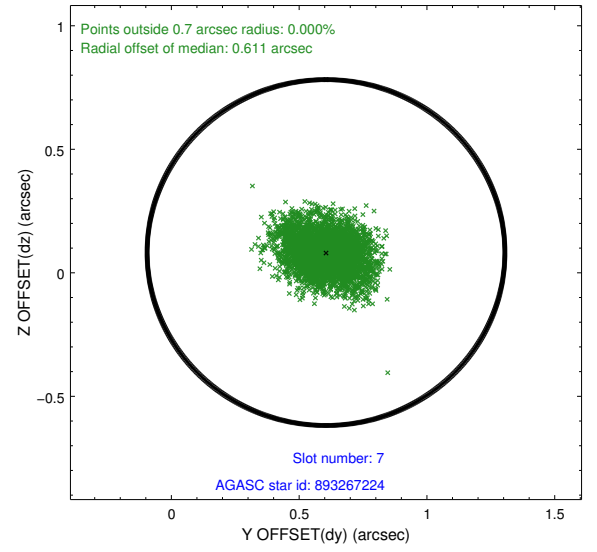
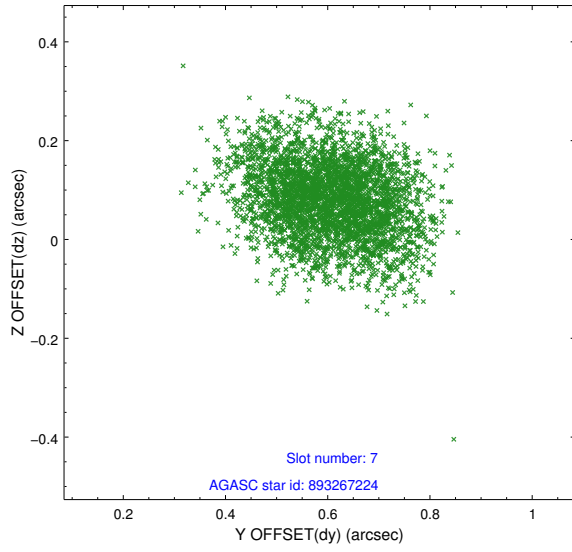
### 2.4.3 Slot 5



## 2.4.4 Slot 6

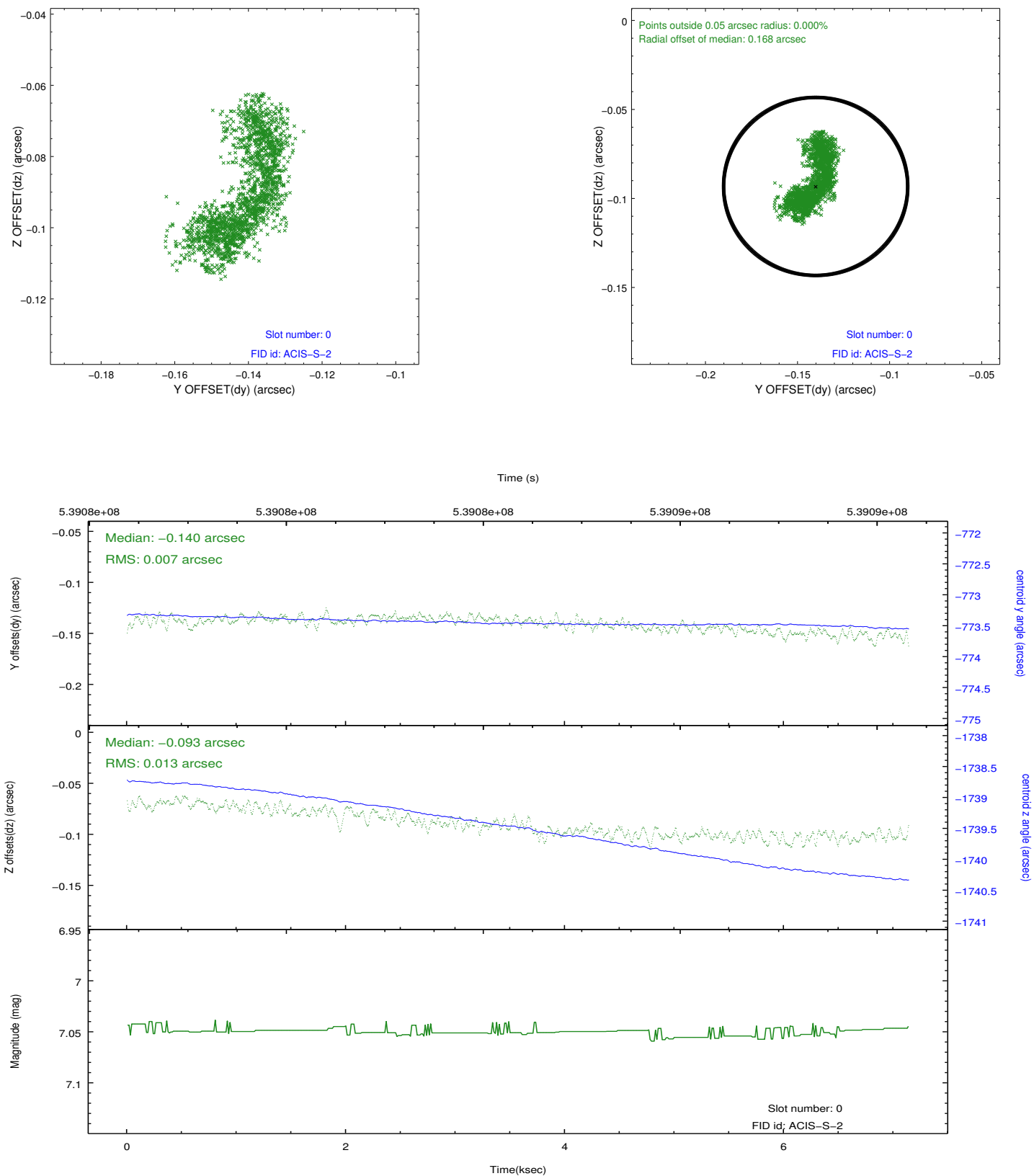


## 2.4.5 Slot 7

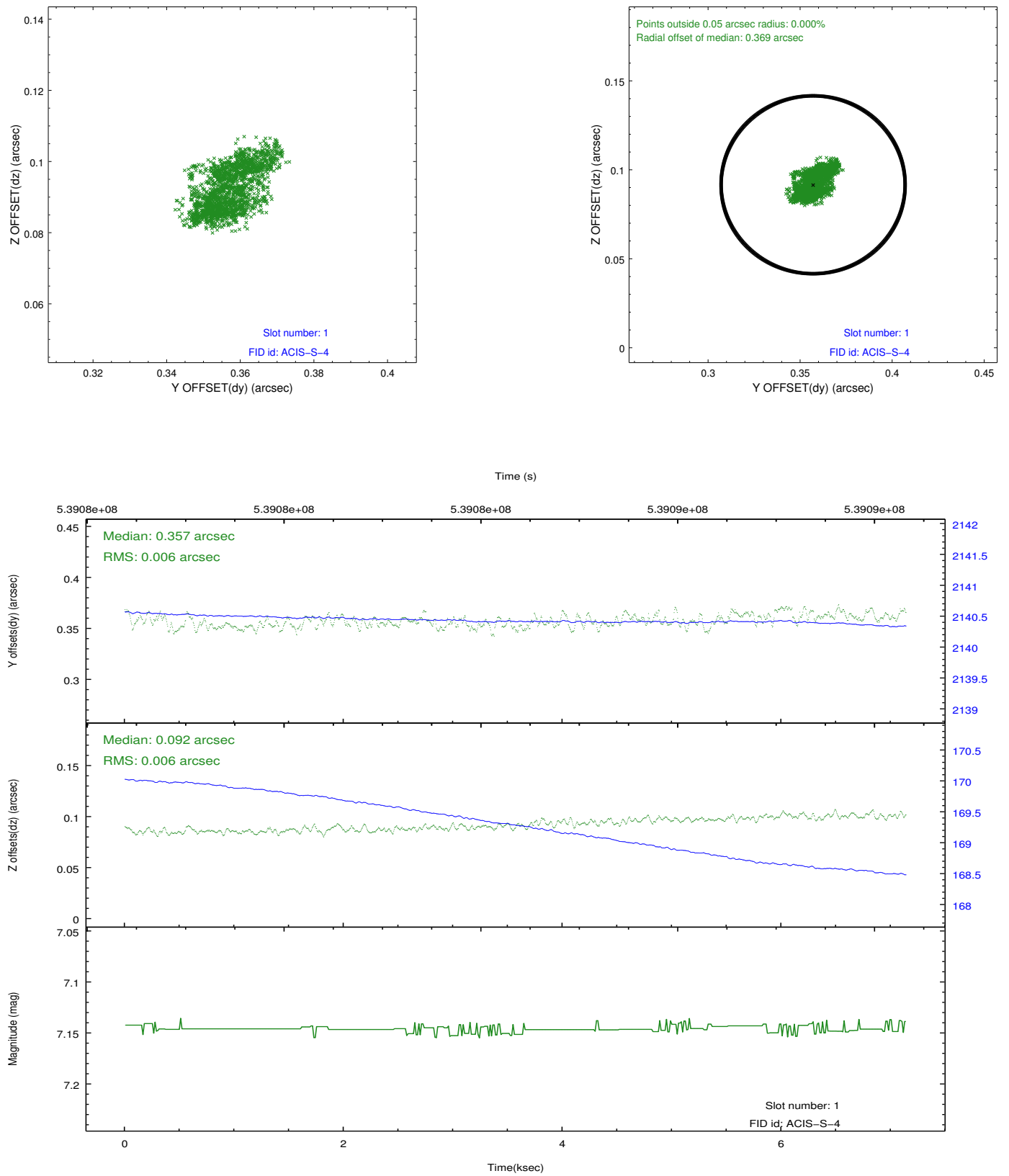


## 2.5 FID Slots

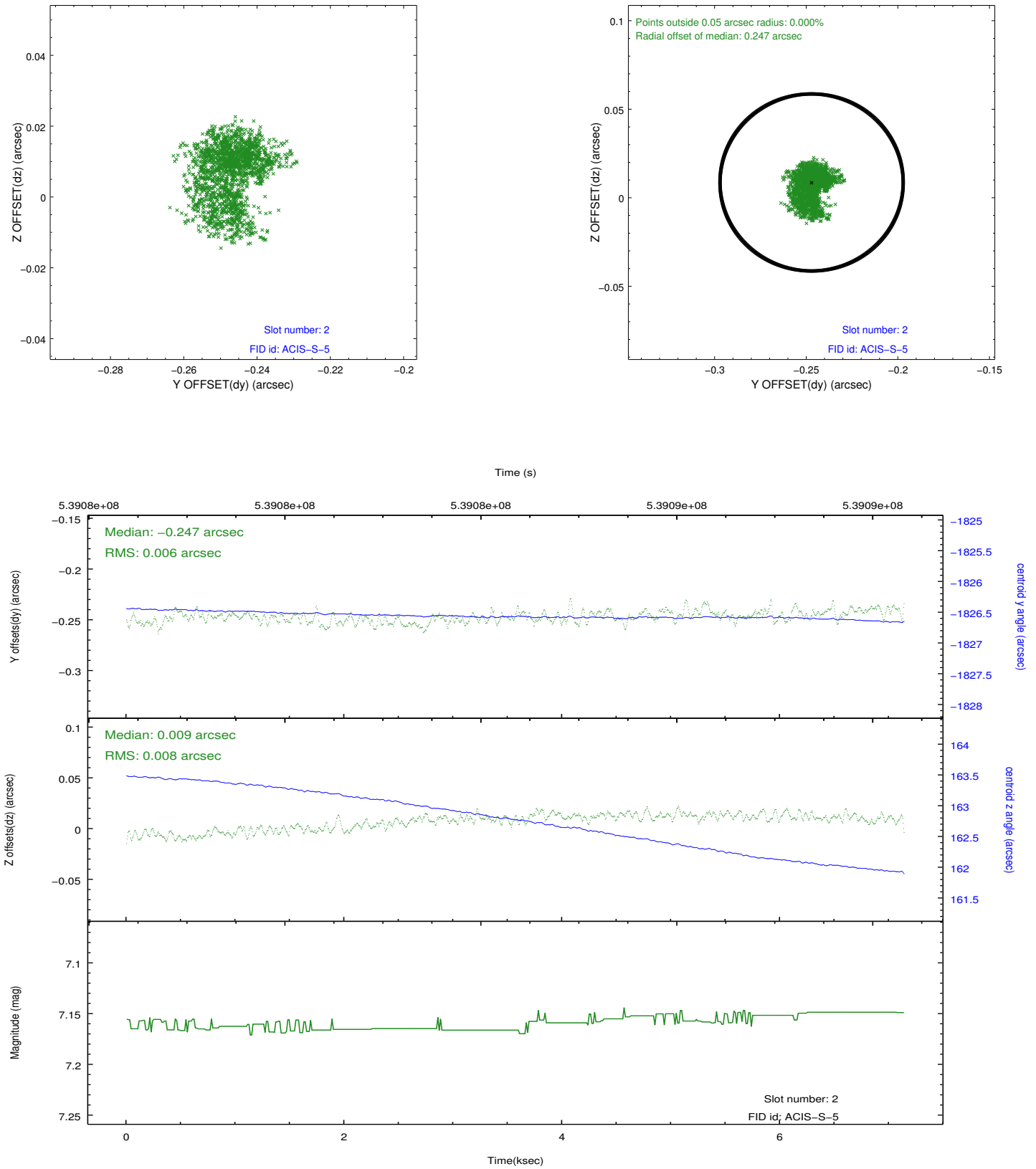
### 2.5.1 Slot 0



## 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)	2015.02.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.0607995791435

### A.2 Comments