

# V&V Reference Report

## L2 ASCDS Version : 8.1.1

Observation 407 - L2 Version 4

Chandra X-Ray Center

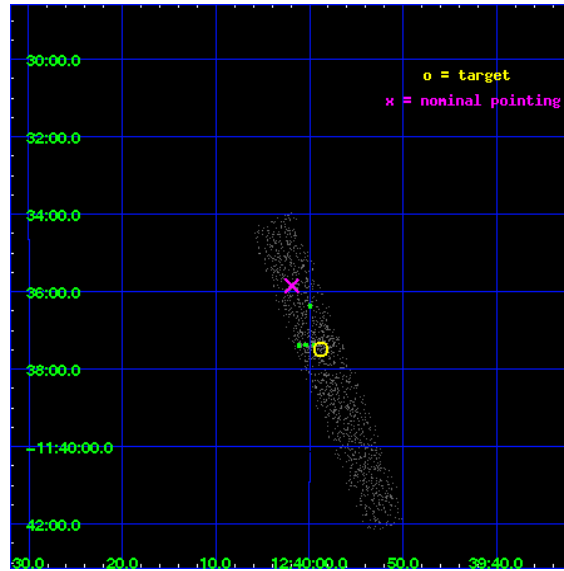
L2 Processing Date : Nov 26 2009

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# 1 Front

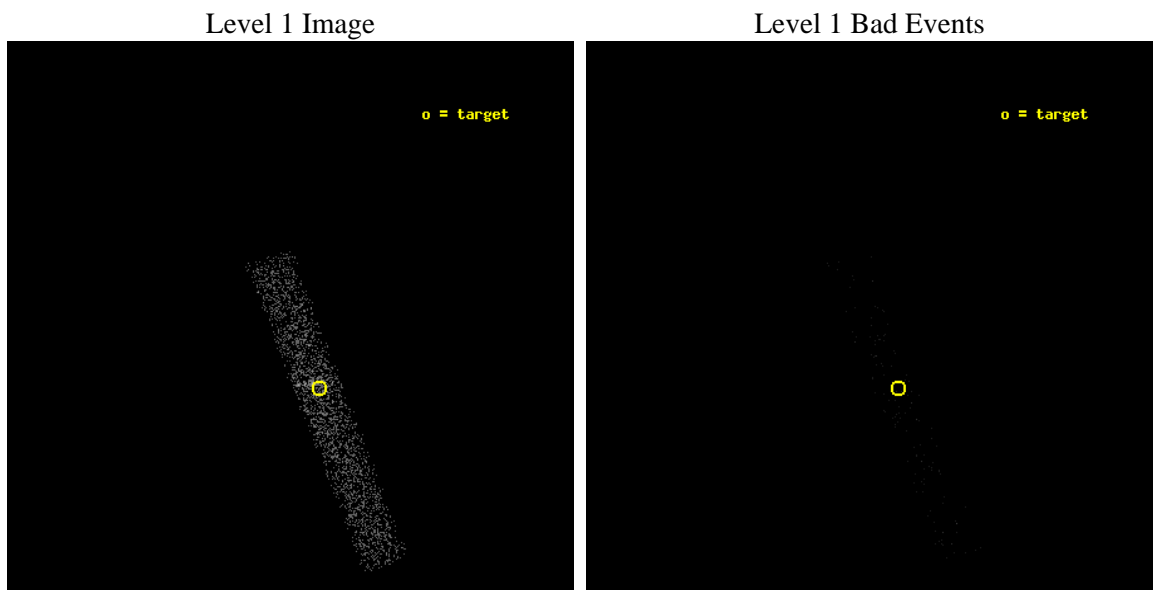
seq_num	700079	Sequence number
obs_id	407	Observation id
title	LOW-LUMINOSITY ACTIVE GALACTIC NUCLEI IN NEARBY GALAXIES	Proposal
observer	Prof Gordon Garmire	Principal investigator
object	NGC 4594	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	189.995	Observer's specified target RA
dec_targ	-11.624444	Observer's specified target Dec
ra_nom	190.00787763879	Nominal RA
dec_nom	-11.597556520569	Nominal Dec
roll_nom	68.753528487926	Nominal Roll
revision	4	Processing version of data
ontime	1947.1999927387	Sum of GTIs [s]
livetime	1766.007611771	Livetime [s]
ontime7	1947.1999927387	Sum of GTIs [s]
l2events	2156	Number of level 2 events



## 2 OBI

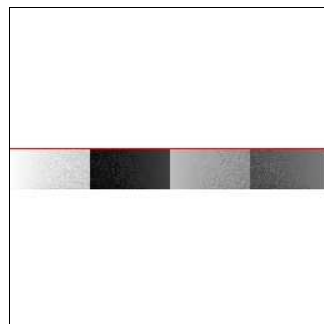
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	Scheduled observation exposure time
ascdsver	8.1.1	ASCDS version number	ontime	1947.1999927387	Sum of GTIs [s]
caldbver	4.1.4	&#160	ontime7	1947.1999927387	Sum of GTIs [s]
date	2009-11-26T07:02:15	Date and time of file creation	l1events	3513	Number of level 1 events
revision	3	Processing version of data			

### 2.1.4 Events

	<b>ccd 7</b>
level 1 events	3513
rejected events	1315
rejected %	37%

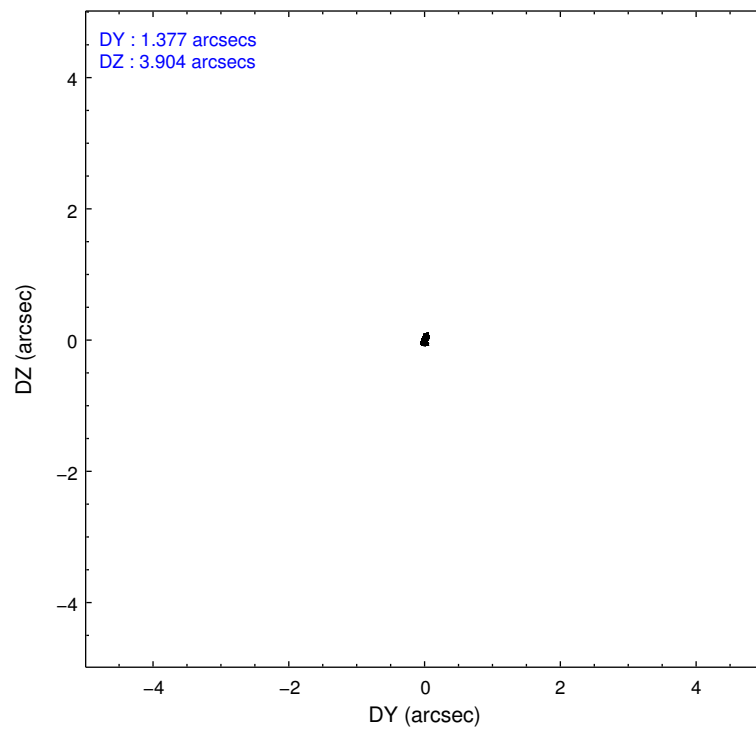
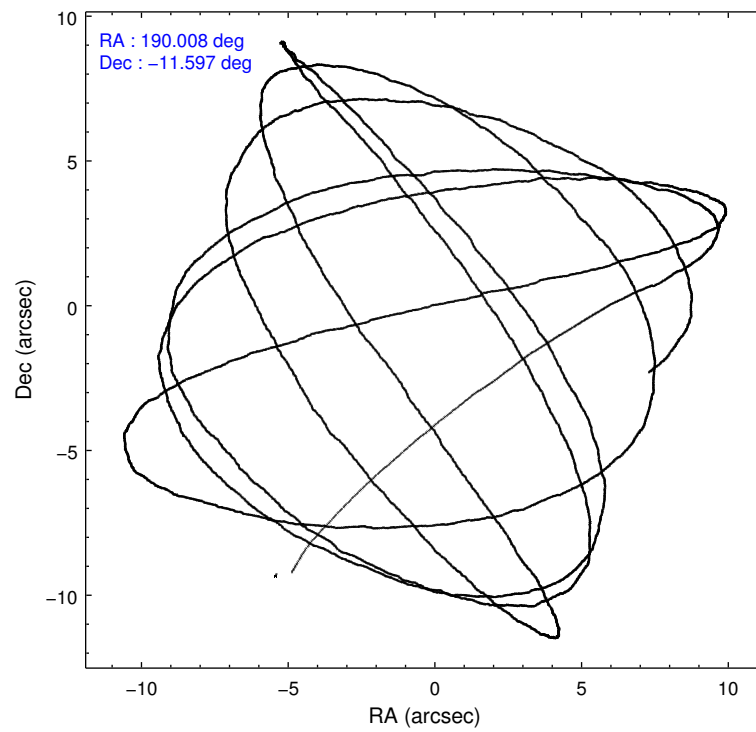
	<b>ccd 7</b>
grade 0 events	415
	11%
grade 1 events	2
	0%
grade 2 events	471
	13%
grade 3 events	250
	7%
grade 4 events	218
	6%
grade 5 events	146
	4%
grade 6 events	844
	24%
grade 7 events	1167
	33%

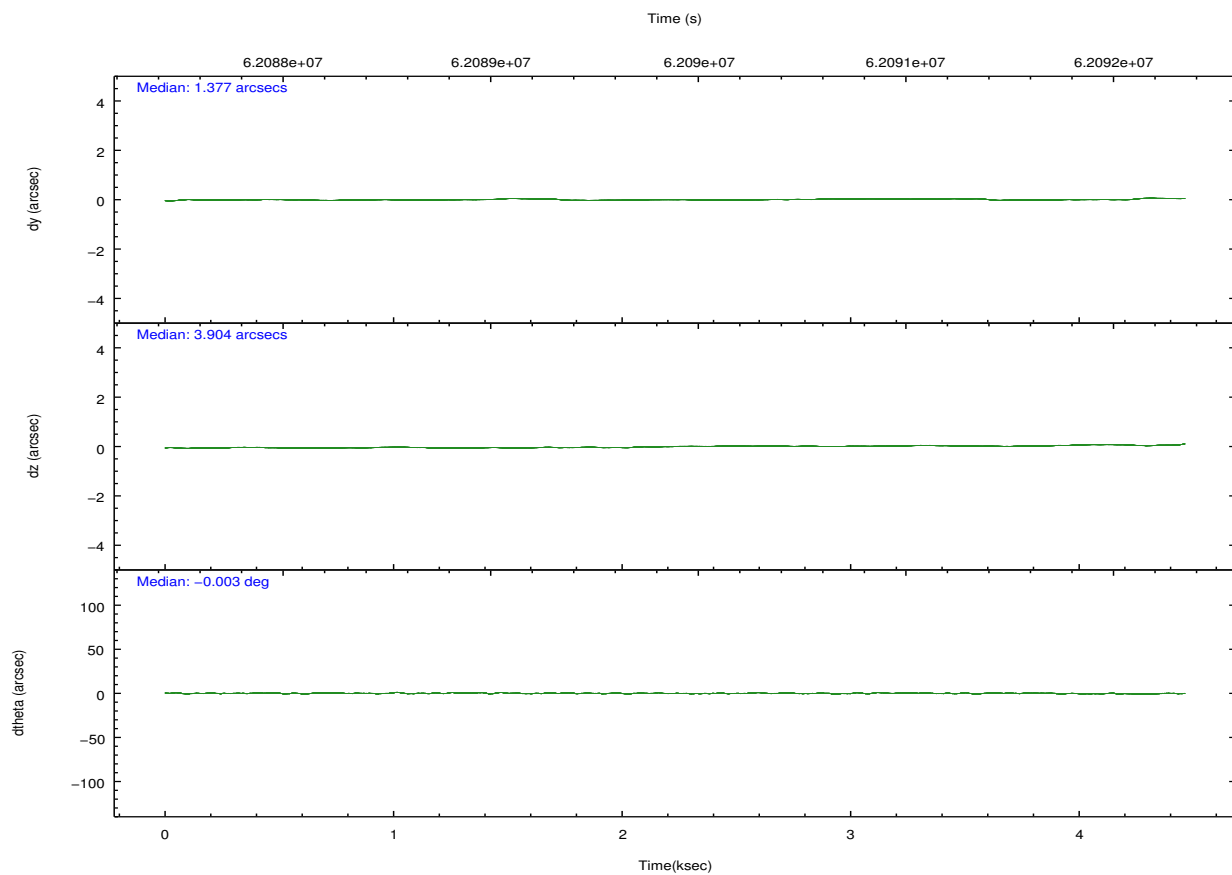
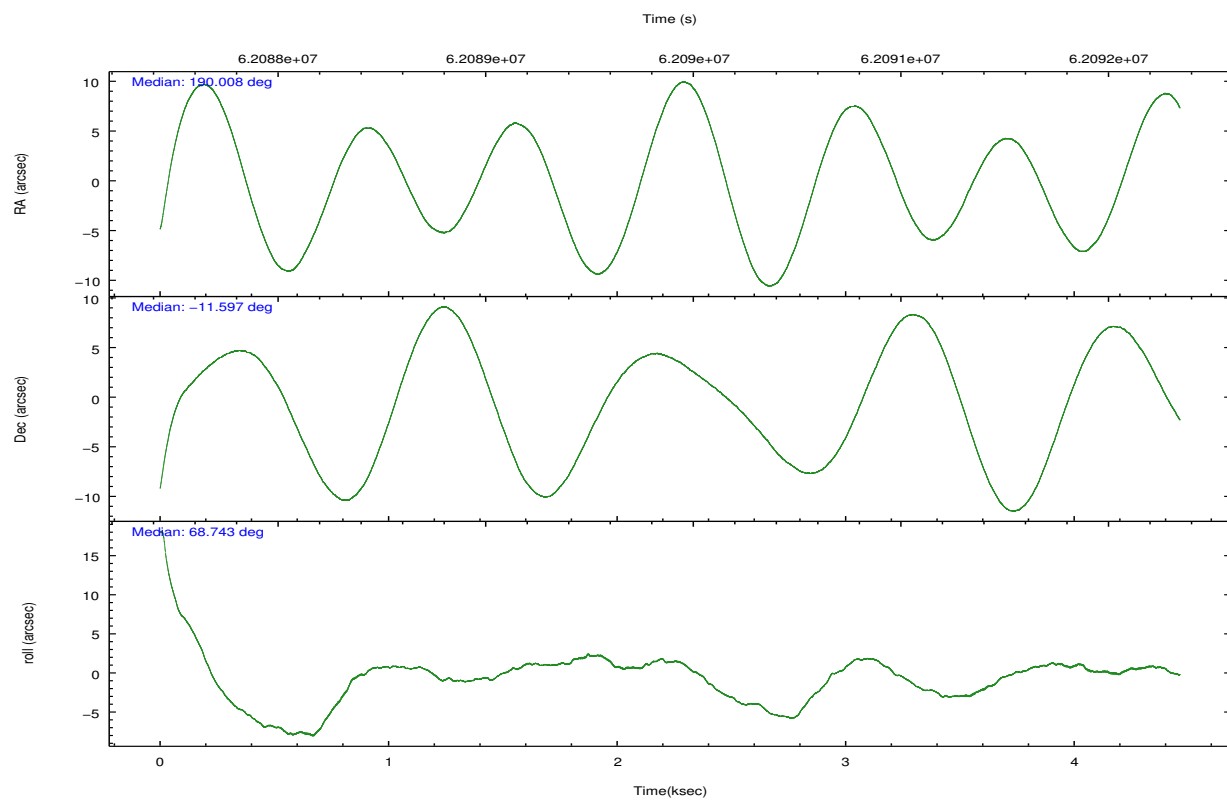


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-7	ACIS-7	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
Pointing RA	190.012007	190.0078776387905	Subarray requested	CUSTOM	1/8
Pointing Dec	-11.624880	-11.5975565205693	Subarray start row	448	448
Pointing Roll	68.597694	68.75352848792576	Subarray row count	128	128
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
SIM defocus (mm)	0	0.001444936568705701	Primary exposure time	0.000000	0.4
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	62088156.184000	62087030.274698			
Observation start date	1999-12-20T14:41:32	1999-12-20T14:23:50			
Observation end time	62090156.184000	62092974.762414			
Observation end date	1999-12-20T15:14:52	1999-12-20T16:02:54			
Read mode	TIMED	TIMED			

## 2.3 Aspect



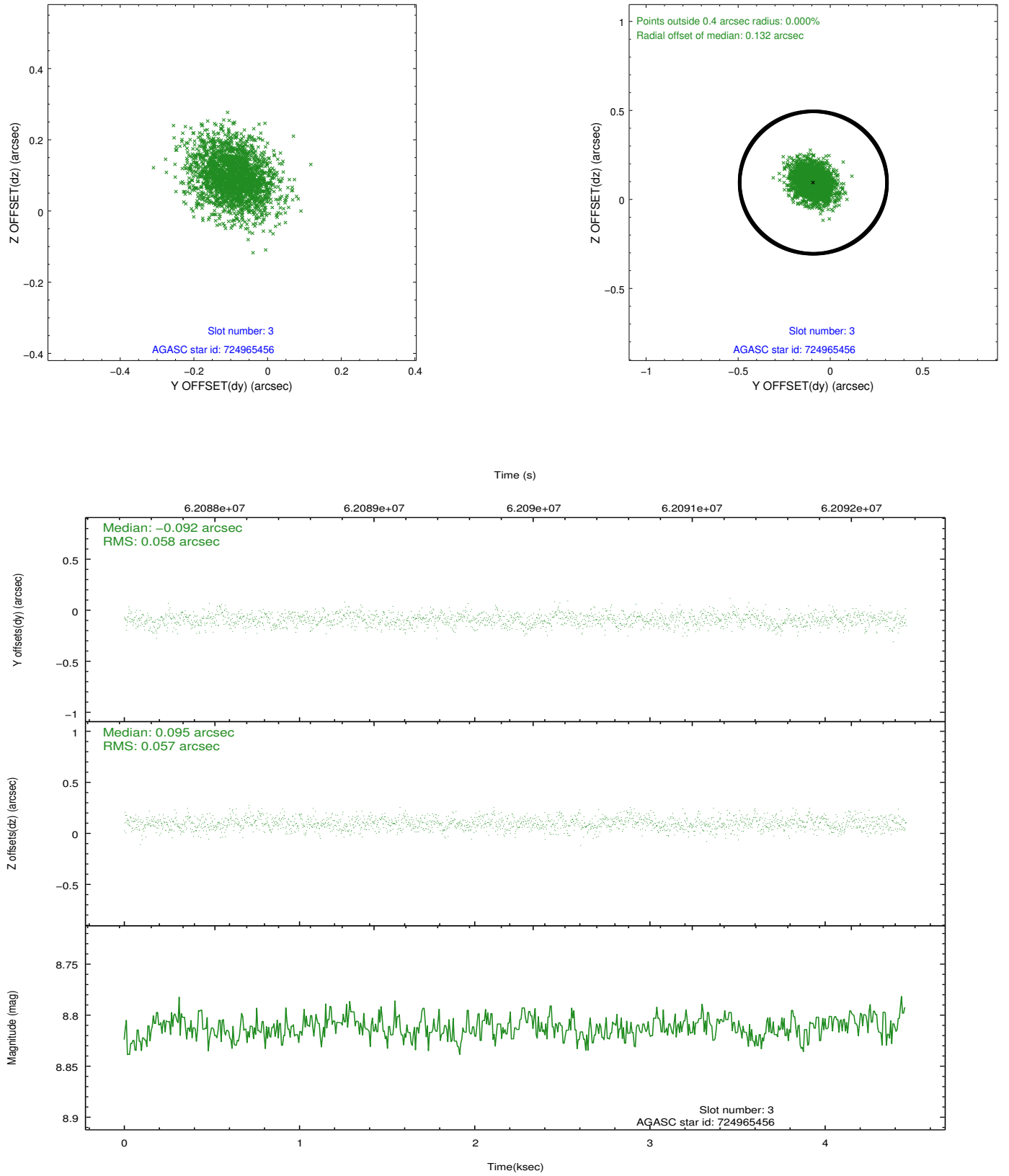


Slot Statistics

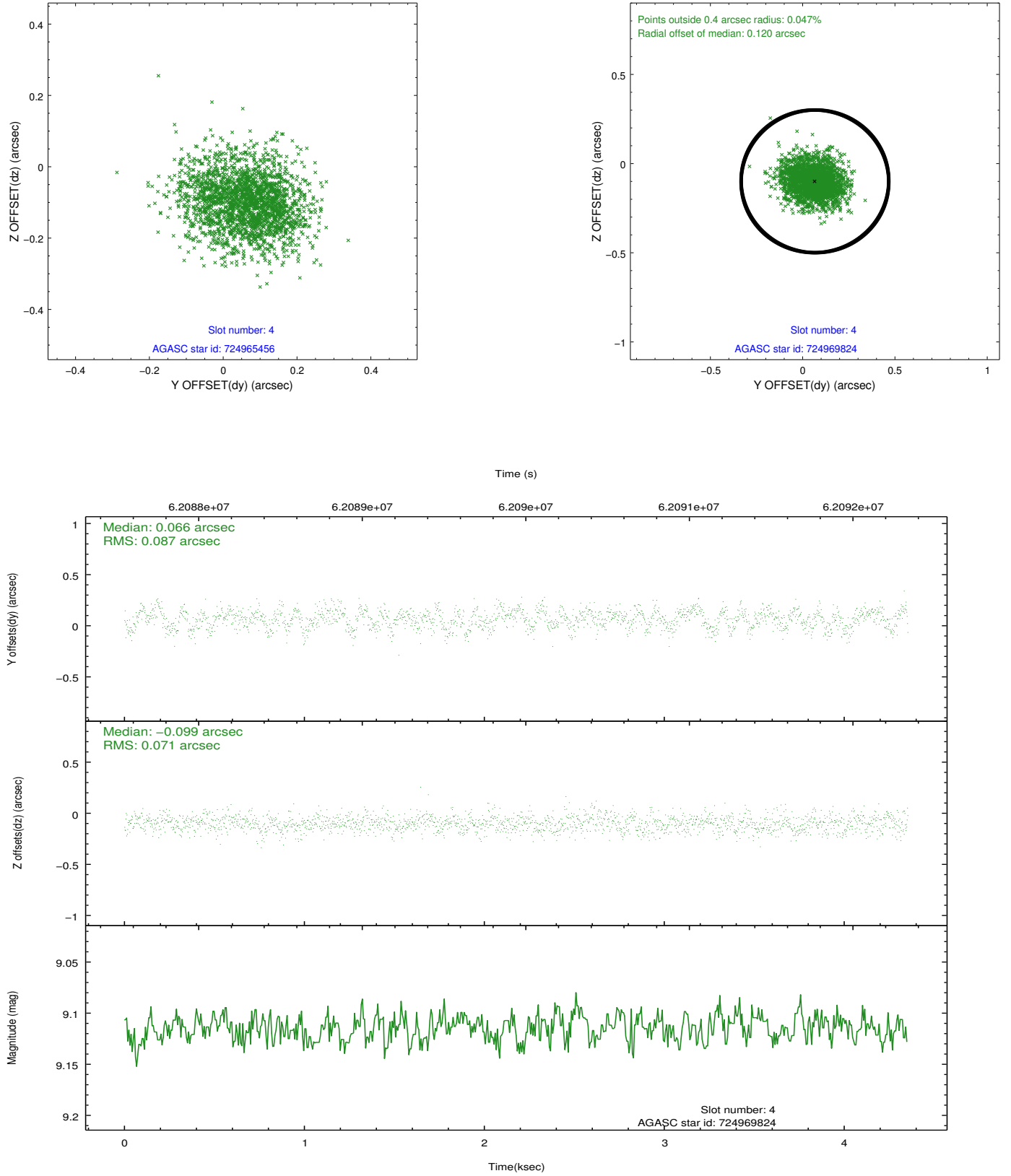
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.13	2177	-0.006	-0.062	0.006	0.009	0.000000	0.000000	-754.02	-1725.02
1	FID	ACIS-S-4	7.22	2177	0.011	0.019	0.004	0.008	0.000000	0.000000	2159.04	182.85
2	FID	ACIS-S-5	7.26	2177	-0.037	0.051	0.005	0.009	0.000000	0.000000	-1806.06	177.34
3	GUIDE	724965456	8.81	2176	-0.092	0.095	0.084	0.142	190.440222	-11.591595	660.94	-1361.86
4	GUIDE	724969824	9.11	2124	0.066	-0.099	0.120	0.190	189.639630	-11.538037	-189.74	1336.43
5	GUIDE	724970568	9.25	2177	0.003	0.051	0.107	0.174	190.273943	-11.584336	471.86	-805.59
6	GUIDE	724961848	9.35	2177	0.128	0.125	0.116	0.182	190.046652	-11.830135	-643.81	-383.06
7	GUIDE	724959992	9.53	2173	-0.101	-0.177	0.135	0.220	189.551265	-11.351404	320.43	1873.19

## 2.4 Star Slots

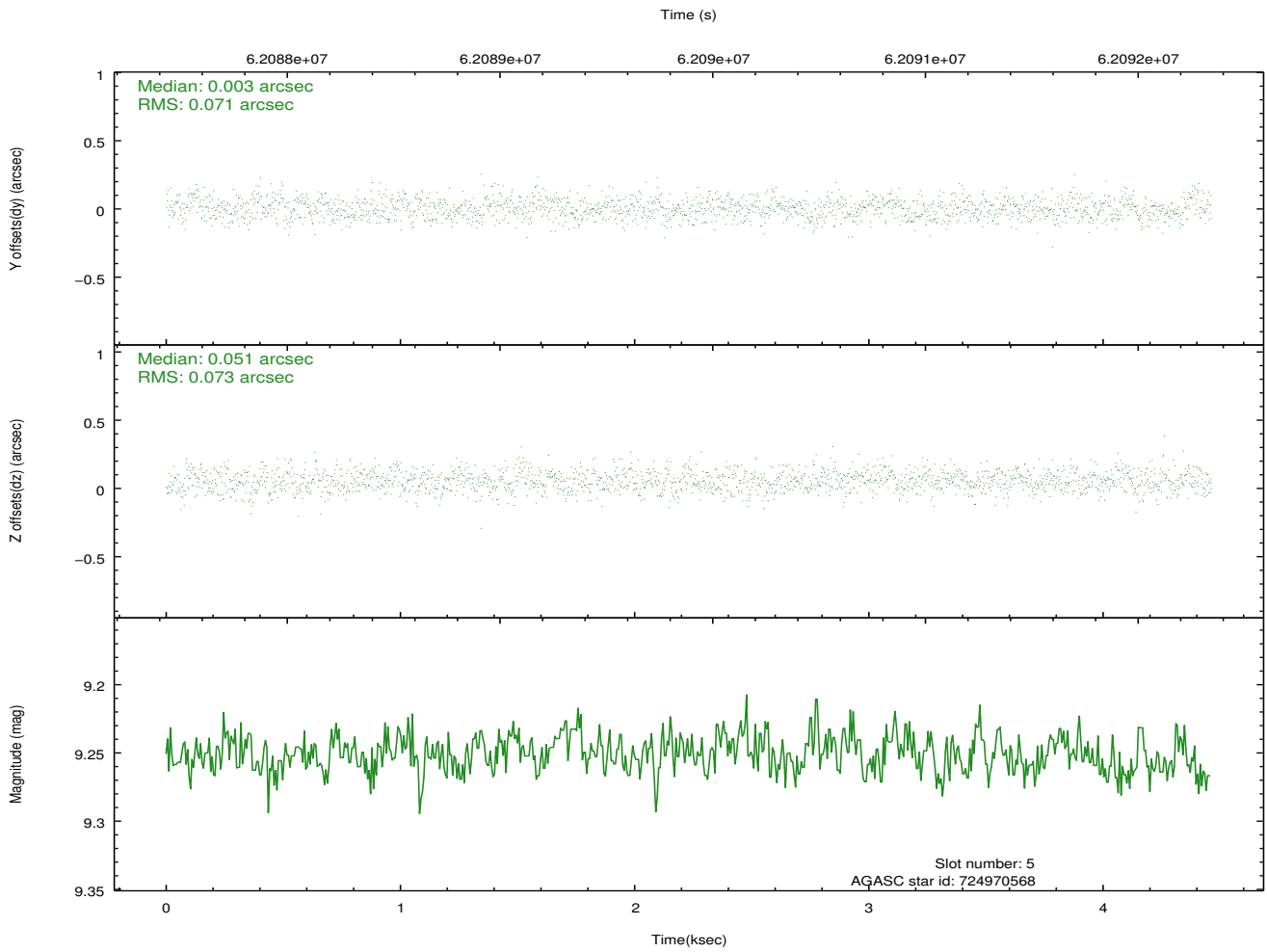
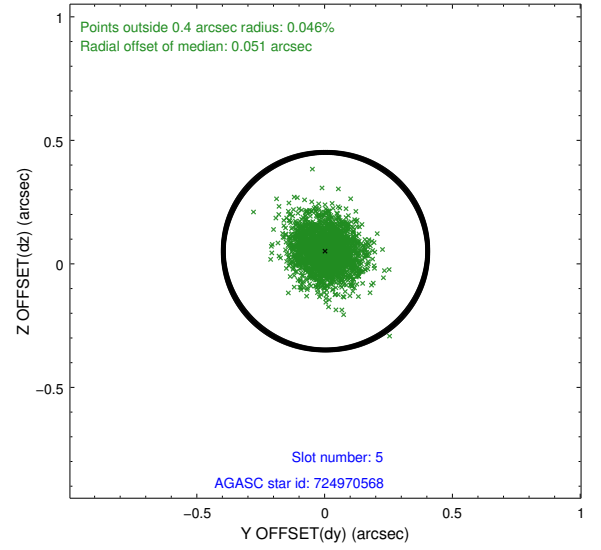
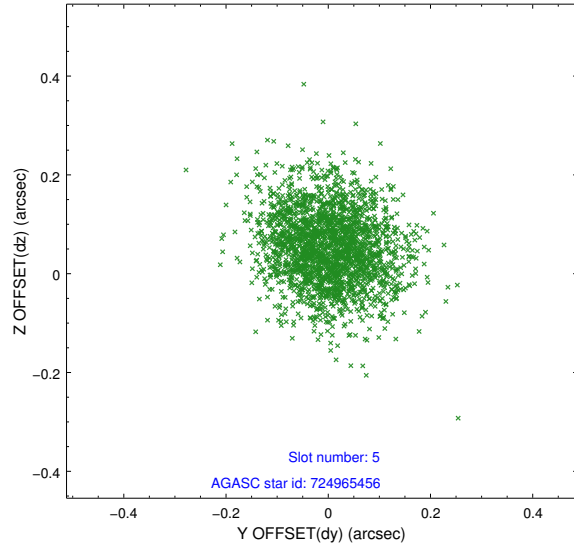
### 2.4.1 Slot 3



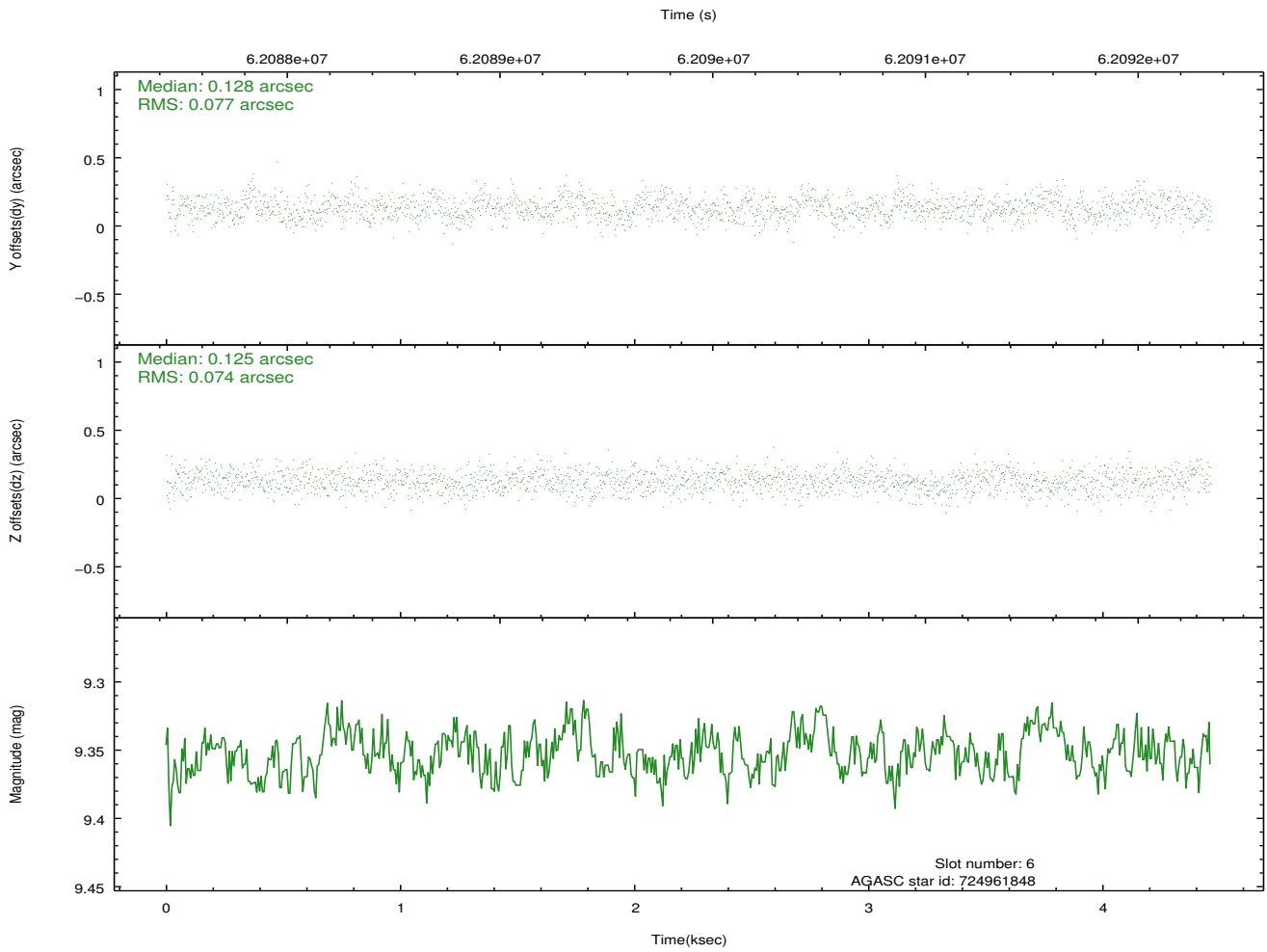
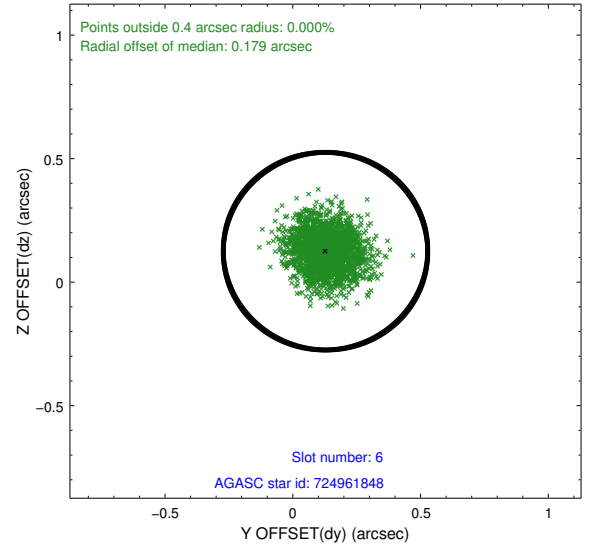
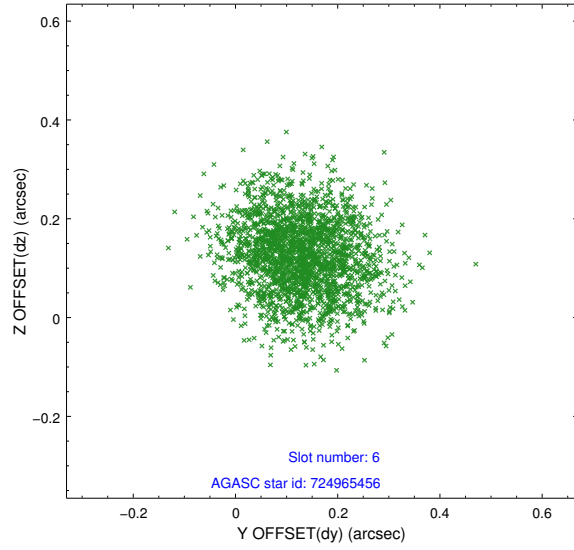
## 2.4.2 Slot 4



### 2.4.3 Slot 5

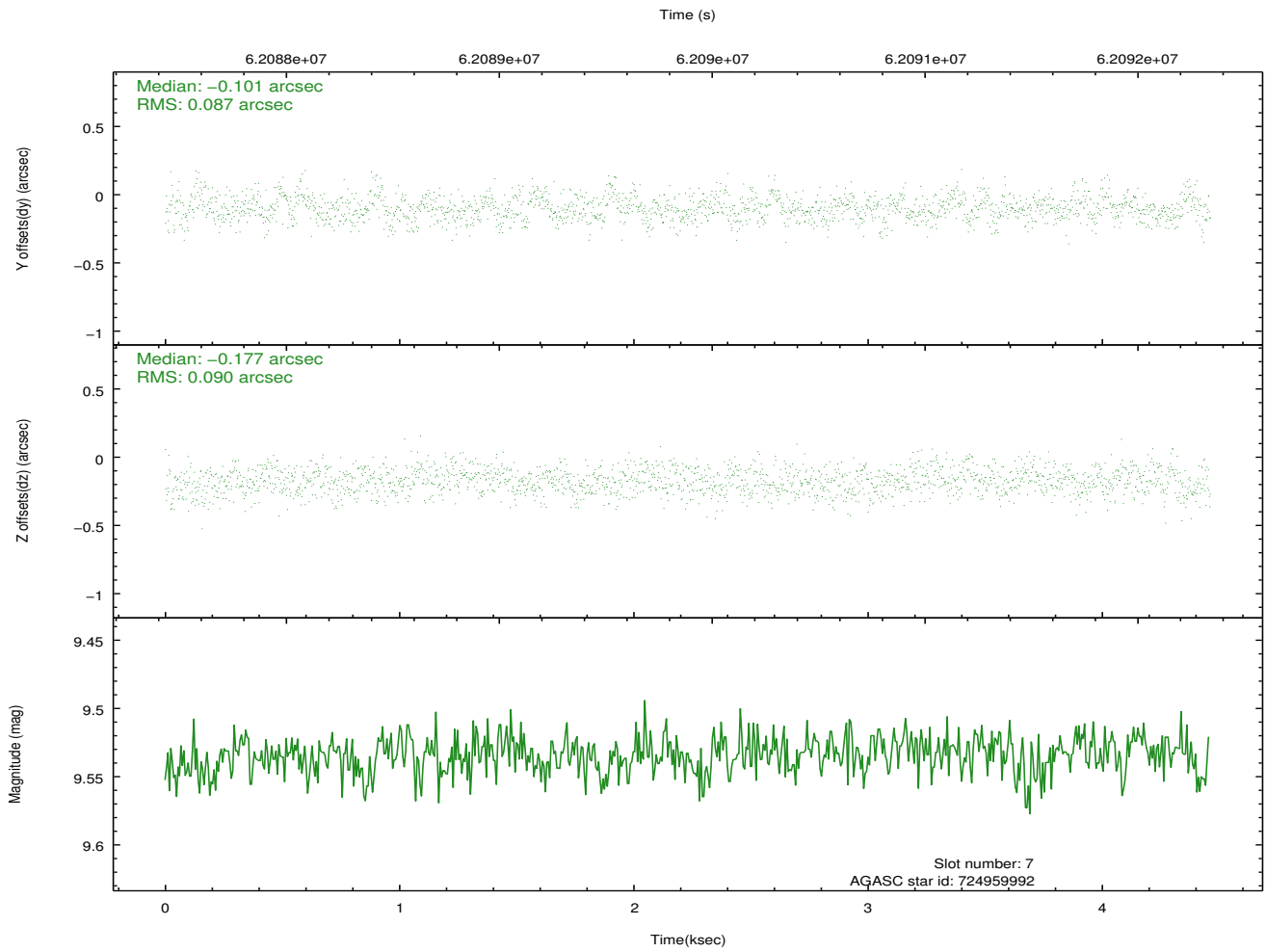
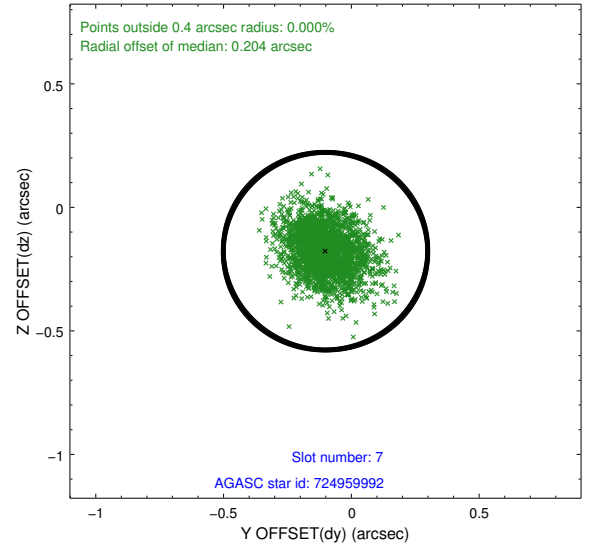
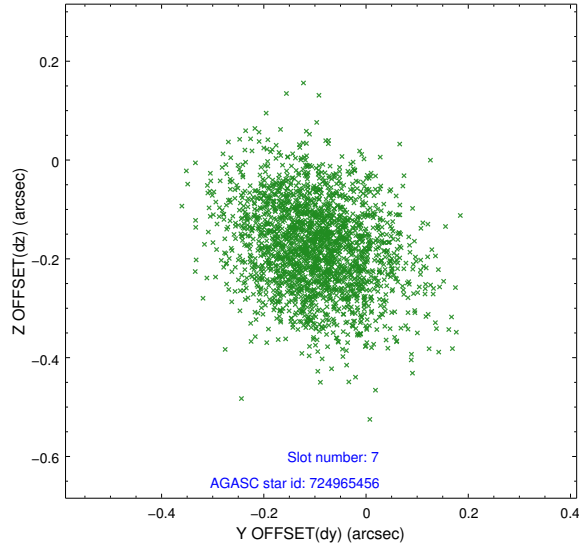


## 2.4.4 Slot 6



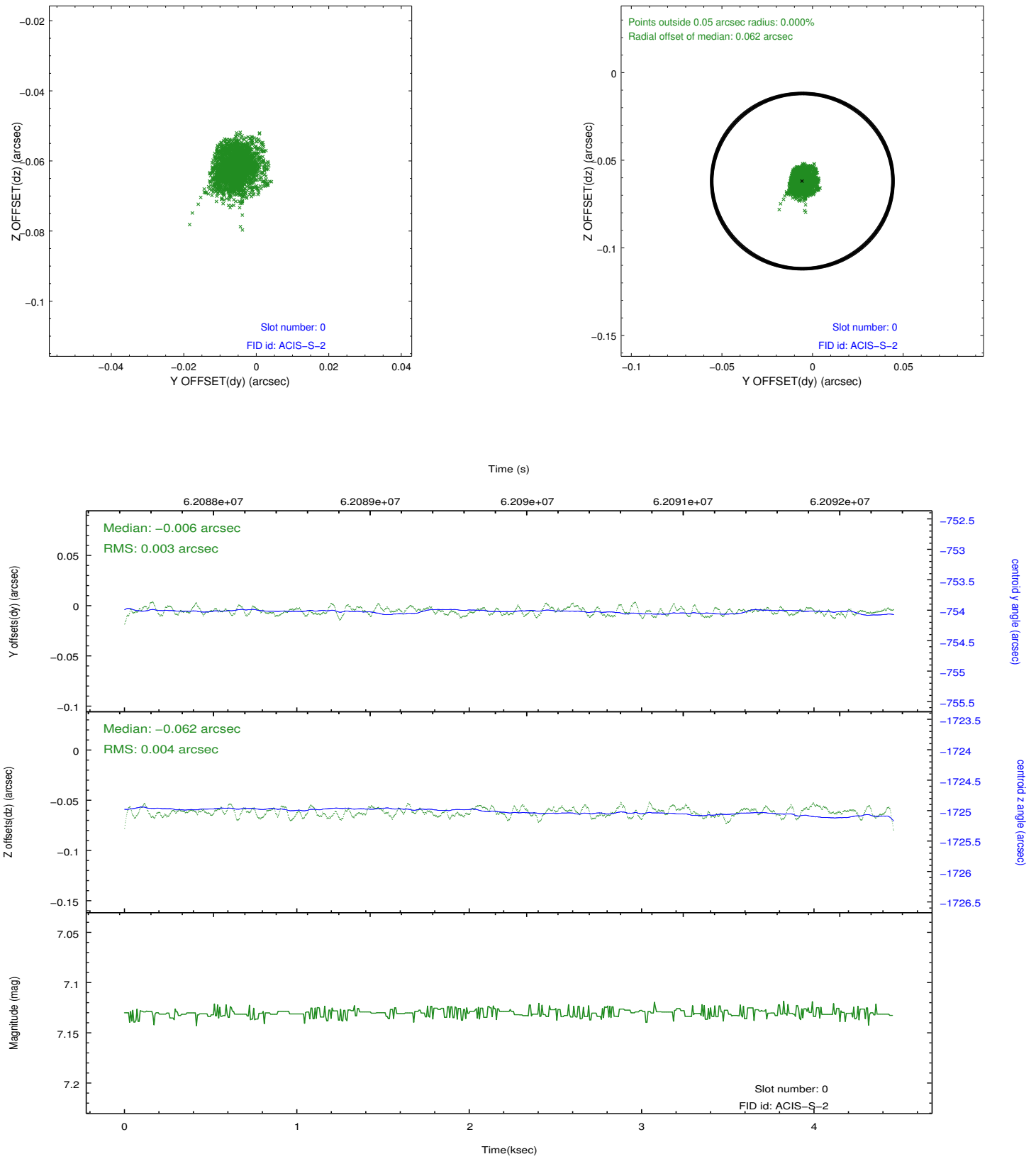


## 2.4.5 Slot 7

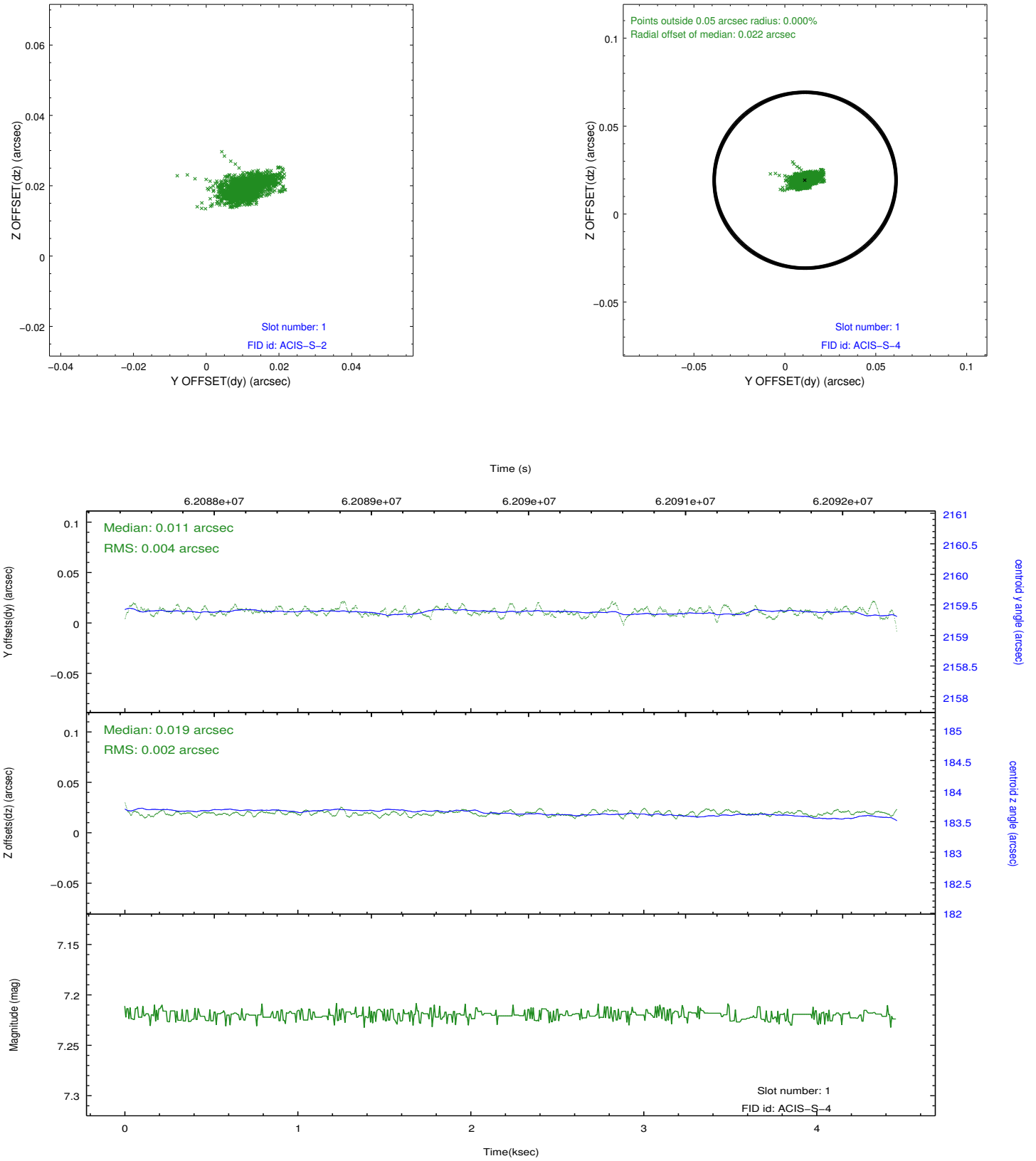


## 2.5 FID Slots

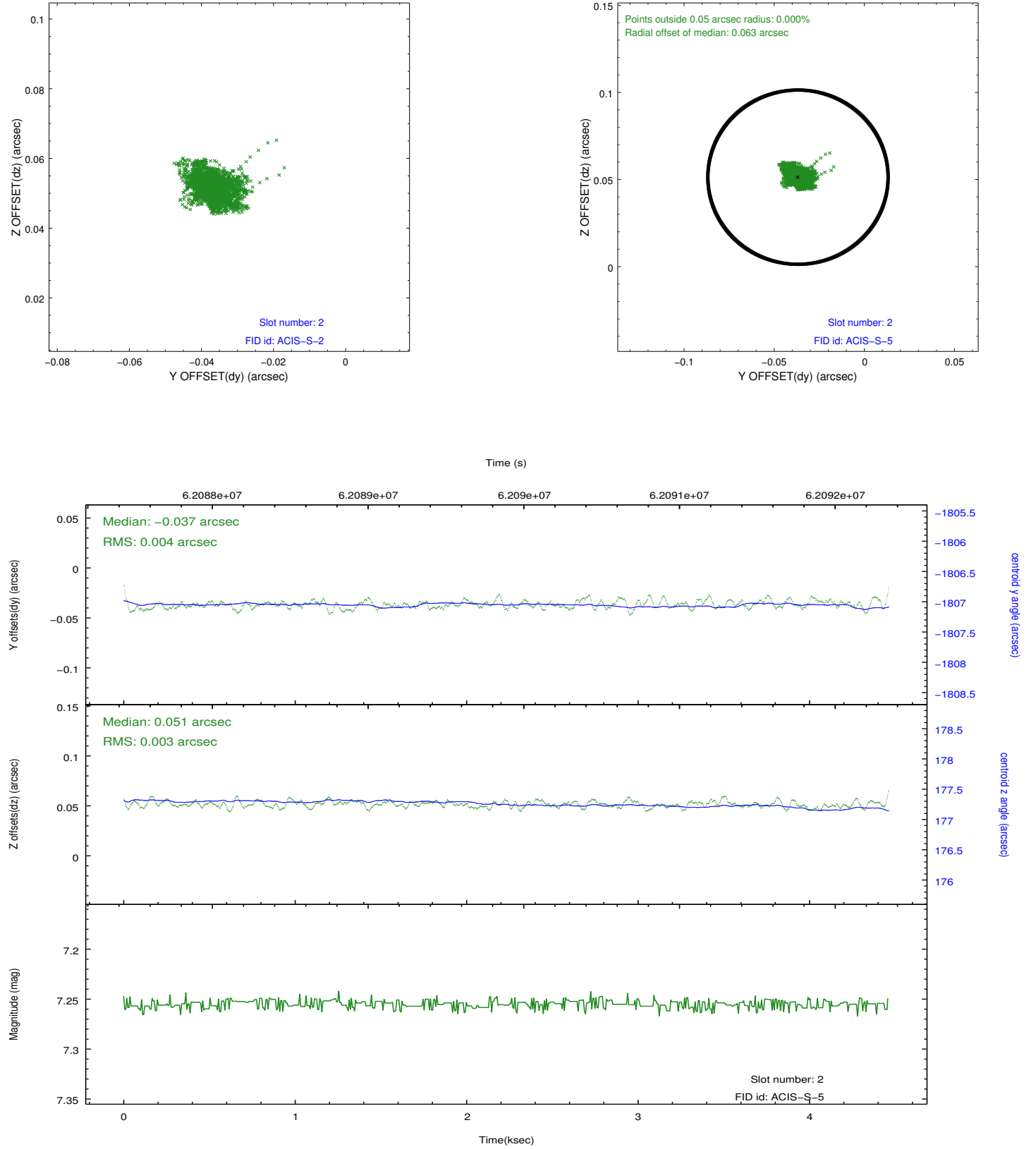
### 2.5.1 Slot 0



## 2.5.2 Slot 1



## 2.5.3 Slot 2



### 3 Point Sources

# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.02.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.947

## A.2 Comments

The focal plane temperature is approximately -110 C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present.

The ACIS CTI correction has not been calibrated at this temperature, because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front and back illuminated chips are affected. However a T\_GAIN correction has been applied to the BI chips (ACIS-5 and ACIS-7) data included here.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.