

# V&V Reference Report

## L2 ASCDS Version : 10

Observation 15338 - L2 Version 2  
Chandra X-Ray Center

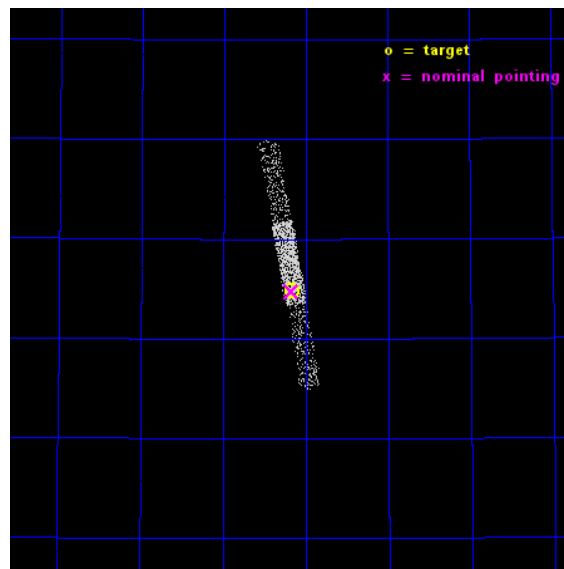
L2 Processing Date : Dec 4 2014

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# 1 Front

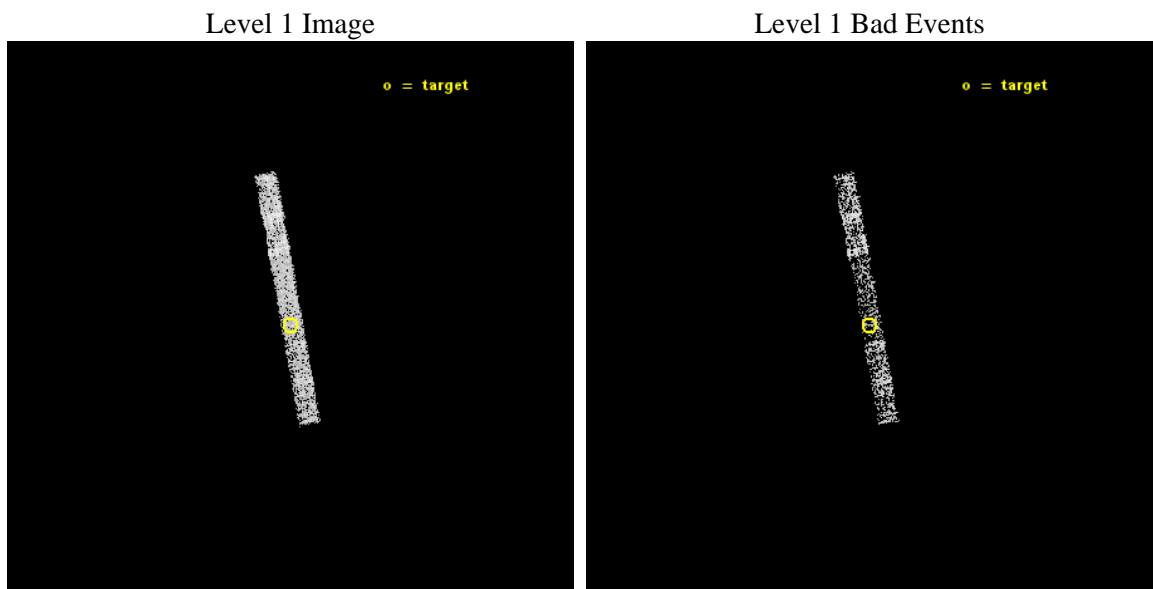
seq_num	702898	Sequence number
obs_id	15338	Observation id
title	Clarifying the Nature of Weak-Line Quasars with Chandra Spectroscopy and Snapshots	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	SDSS J1328+5454	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	202.04	Observer's specified target RA [deg]
dec_targ	54.914667	Observer's specified target Dec [deg]
ra_nom	202.04391914609	Nominal RA [deg]
dec_nom	54.912745480409	Nominal Dec [deg]
roll_nom	259.56690643537	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2093.3999445438	Sum of GTIs [s]
livetime	2002.1040020503	Livetime [s]
ontime6	2093.3999445438	Sum of GTIs [s]
ontime7	2093.3999445438	Sum of GTIs [s]
ontime8	2093.3999445438	Sum of GTIs [s]
l2events	1948	Number of level 2 events



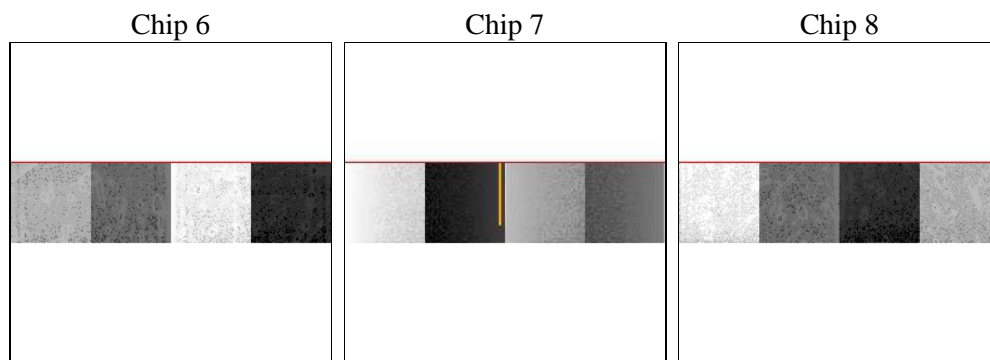
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	2093.3999445438	Sum of GTIs [s]
caldsver	4.6.4	&#160	ontime6	2093.3999445438	Sum of GTIs [s]
date	2014-12-04T19:05:16	Date and time of file creation	ontime7	2093.3999445438	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	2093.3999445438	Sum of GTIs [s]
			l1events	9761	Number of level 1 events

### 2.1.4 Events

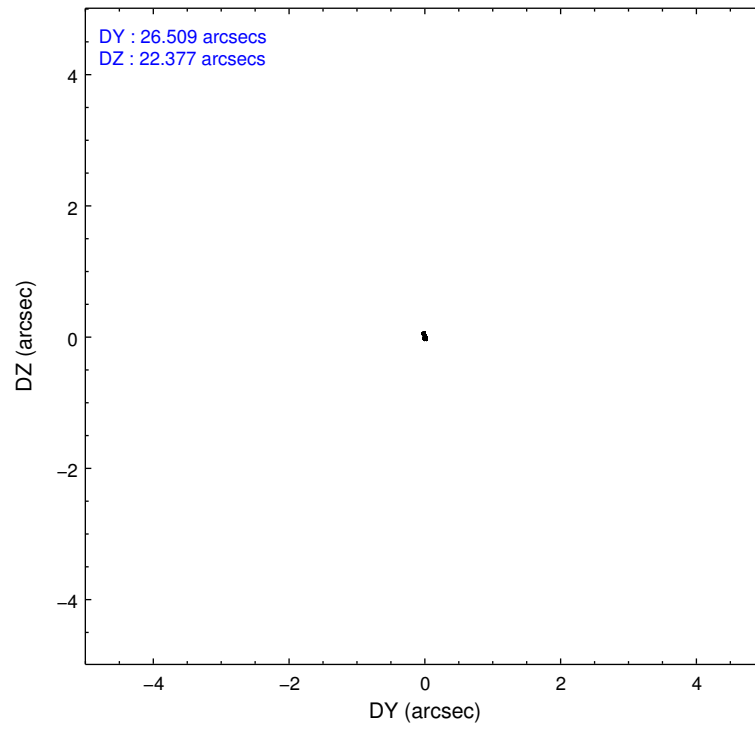
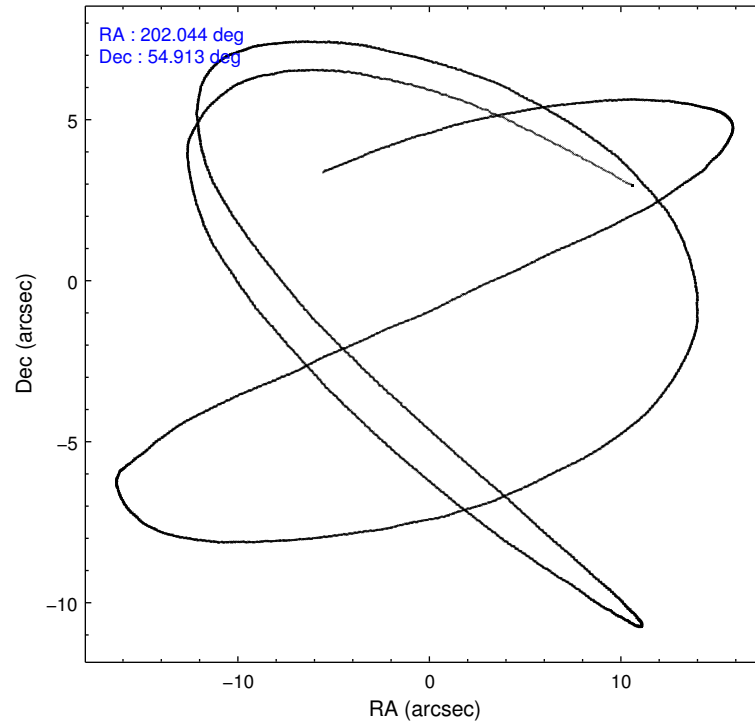
	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
level 1 events	2683	2887	4191
rejected events	2362	1420	3114
rejected %	88%	49%	74%

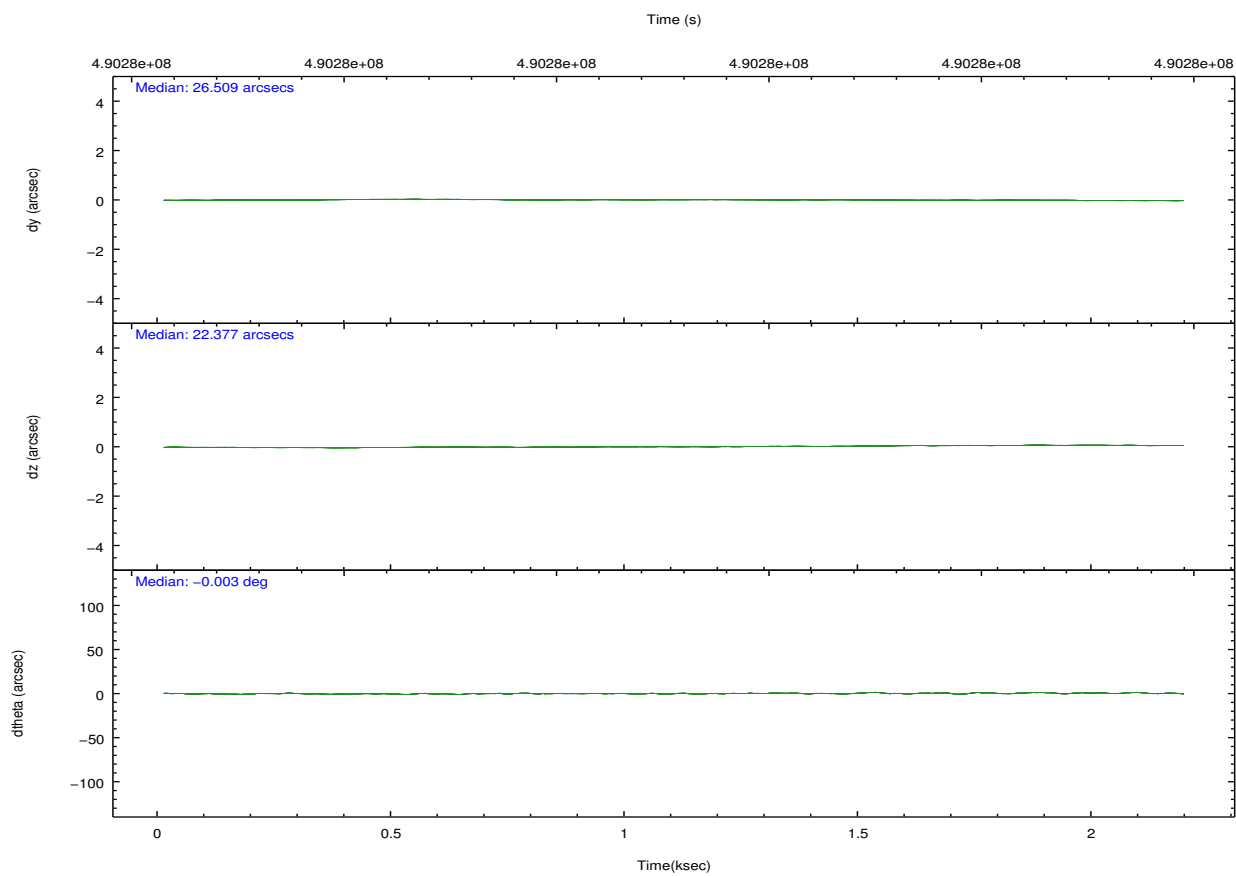
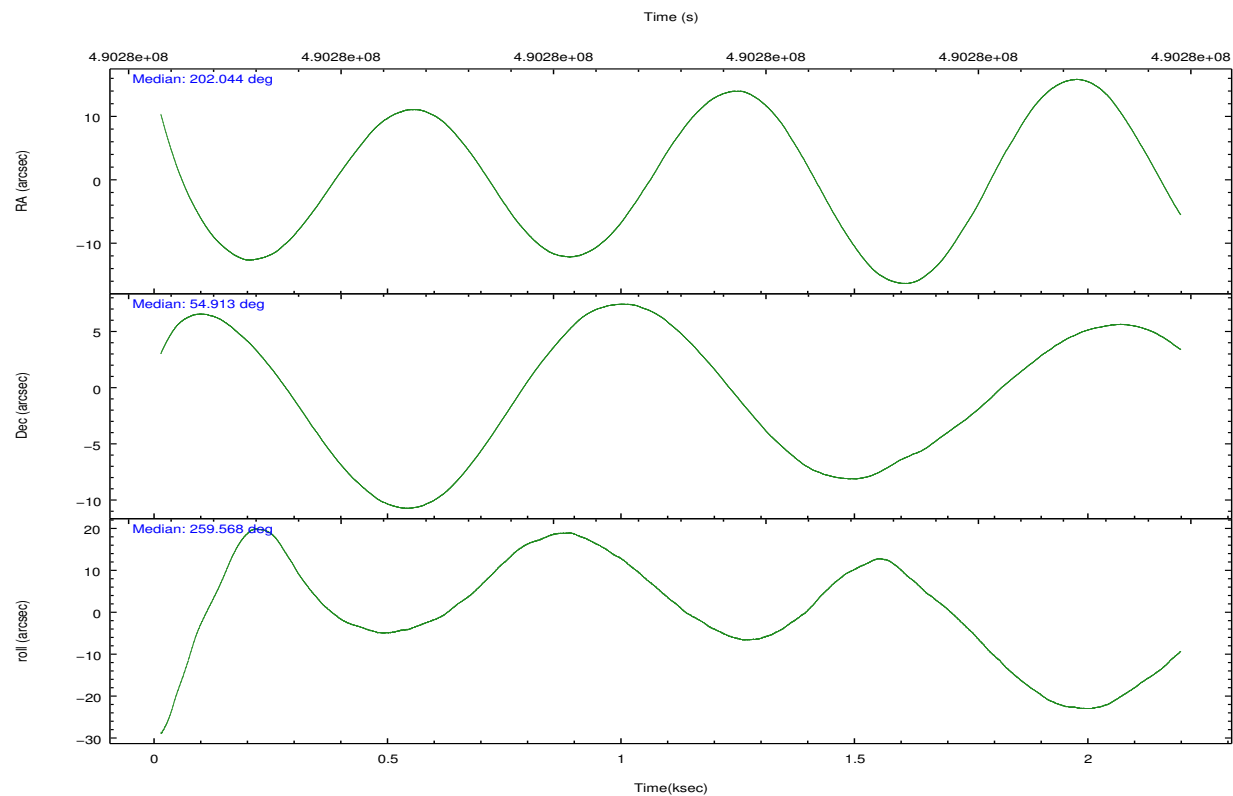
	<b>ccd 6</b>	<b>ccd 7</b>	<b>ccd 8</b>
grade 0 events	104	144	271
	3%	4%	6%
grade 1 events	1	4	0
	0%	0%	0%
grade 2 events	64	298	264
	2%	10%	6%
grade 3 events	53	167	116
	1%	5%	2%
grade 4 events	44	163	106
	1%	5%	2%
grade 5 events	110	276	179
	4%	9%	4%
grade 6 events	56	696	321
	2%	24%	7%
grade 7 events	2251	1139	2934
	83%	39%	70%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	202.027309	202.043919146086	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	54.938244	54.91274548040884	Subarray start row	385	385
[deg] Pointing Roll	259.423957	259.5669064353696	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	0.9
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	490276871.184000	490275976.78064			
Observation start date	2013-07-15T12:00:04	2013-07-15T11:46:16			
[s] Observation end time (MET)	490278871.184000	490279840.00585			
Observation end date	2013-07-15T12:33:24	2013-07-15T12:50:40			
Read mode	TIMED	TIMED			

## 2.3 Aspect





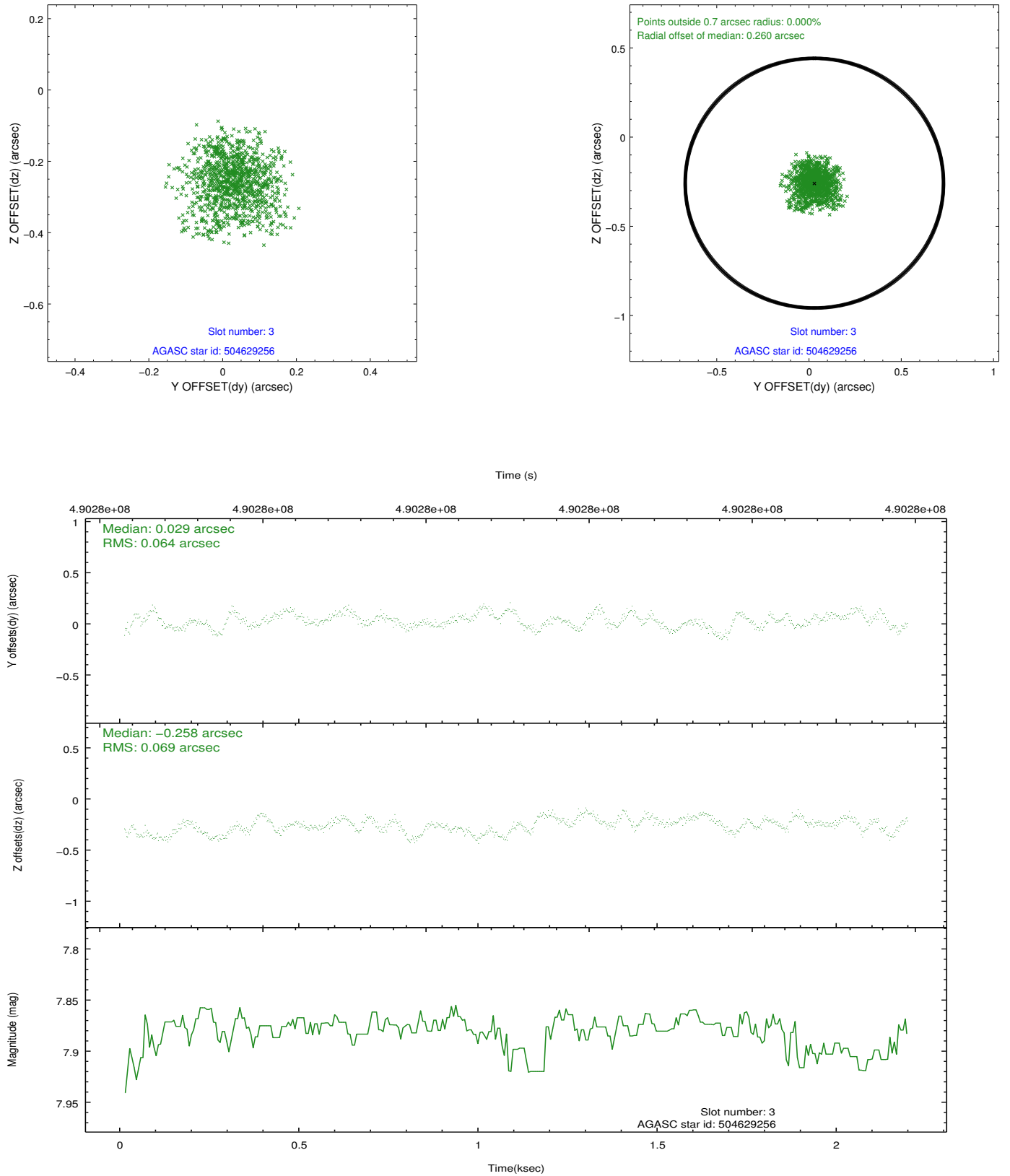
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.87	533	-0.134	-0.020	0.006	0.010	0.000000	0.000000	-779.95	-1743.92
1	FID		ACIS-S-4	6.97	533	0.287	0.070	0.005	0.008	0.000000	0.000000	2132.39	161.50
2	FID		ACIS-S-5	7.00	534	-0.185	-0.042	0.006	0.010	0.000000	0.000000	-1829.02	158.51
3	GUIDE	used	504629256	7.88	1067	0.029	-0.258	0.103	0.161	201.216039	54.897465	444.26	-1625.52
4	GUIDE	used	504630992	9.04	1066	-0.158	-0.024	0.223	0.292	201.094365	54.672163	1286.88	-1736.77
5	GUIDE	used	504631584	9.02	1067	-0.061	0.070	0.118	0.188	201.215766	54.567810	1615.25	-1423.64
6	GUIDE	used	505025648	9.59	1062	0.203	0.260	0.230	0.350	200.935395	55.117681	-236.81	-2332.35
7	GUIDE	used	504627240	9.28	1063	0.003	-0.014	0.124	0.217	201.188760	54.585944	1559.02	-1490.29

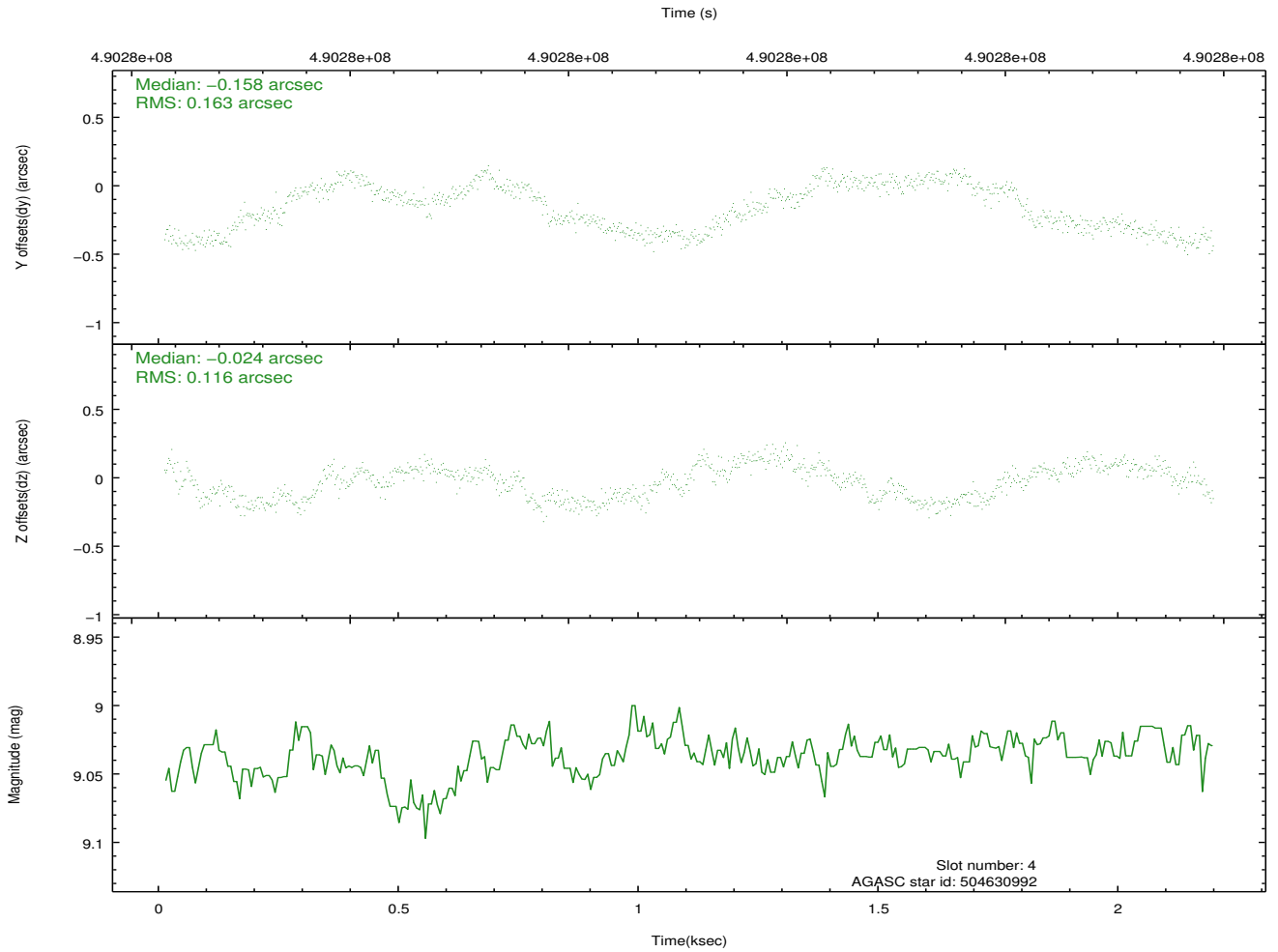
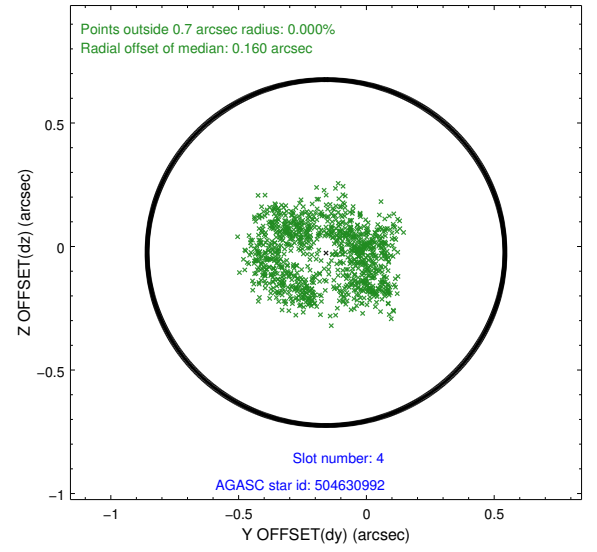
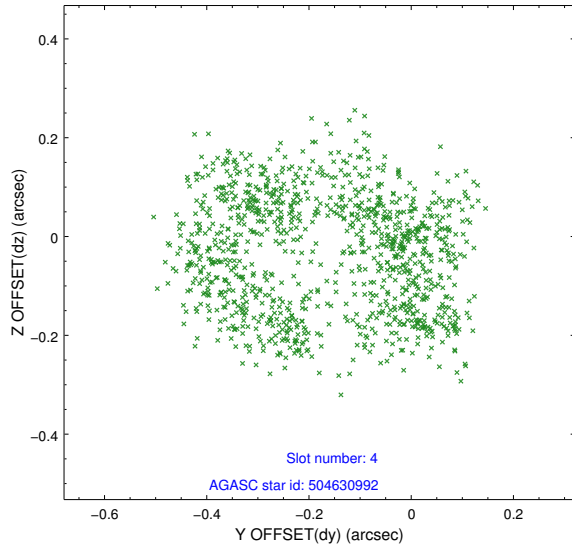


## 2.4 Star Slots

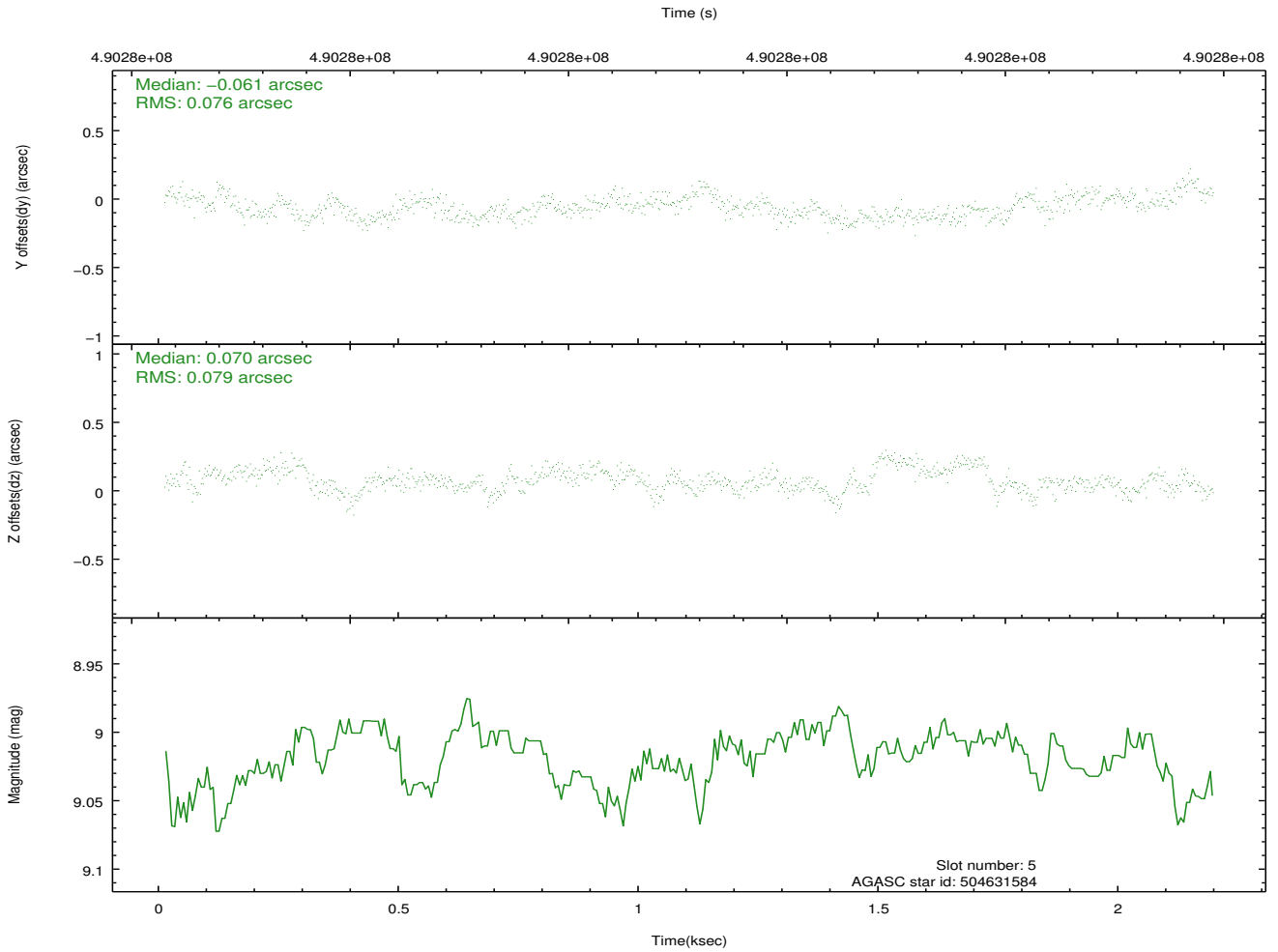
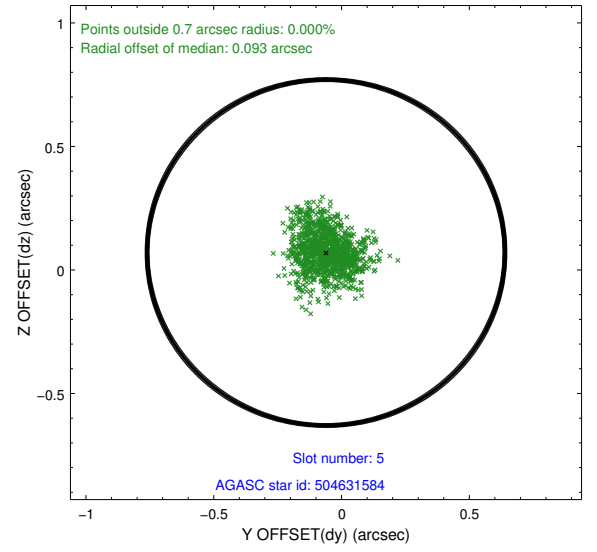
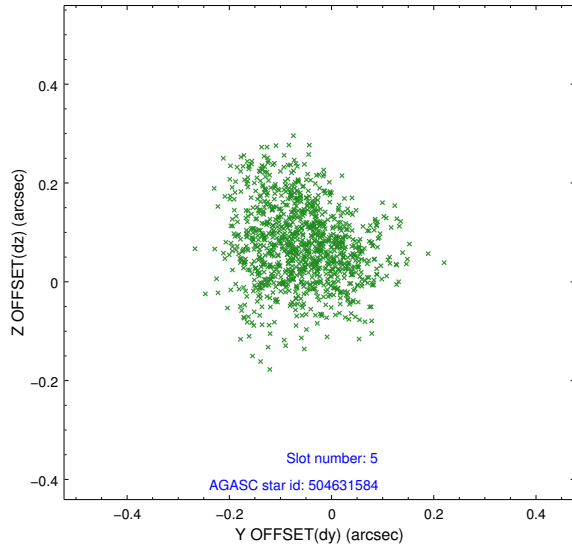
### 2.4.1 Slot 3



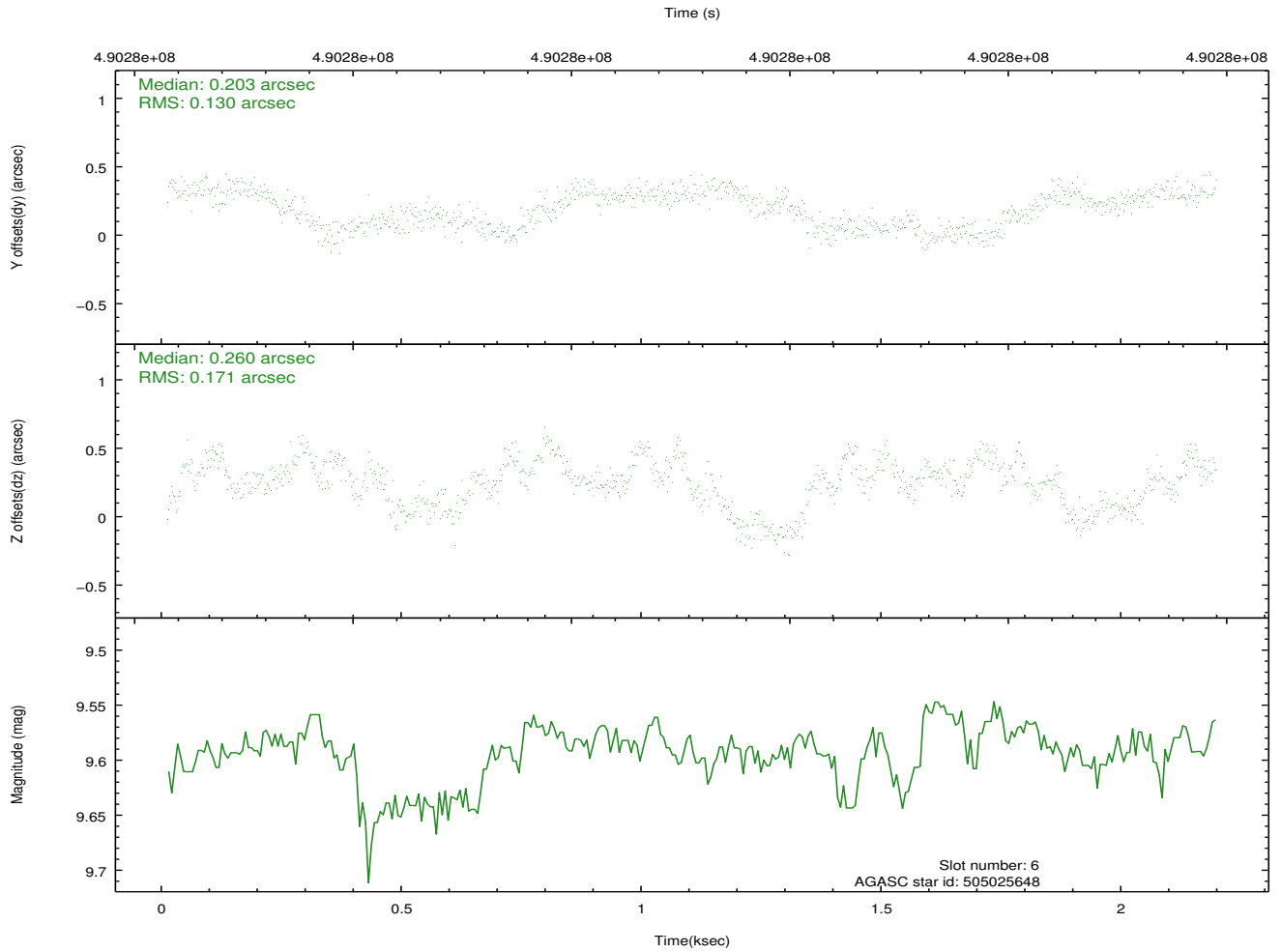
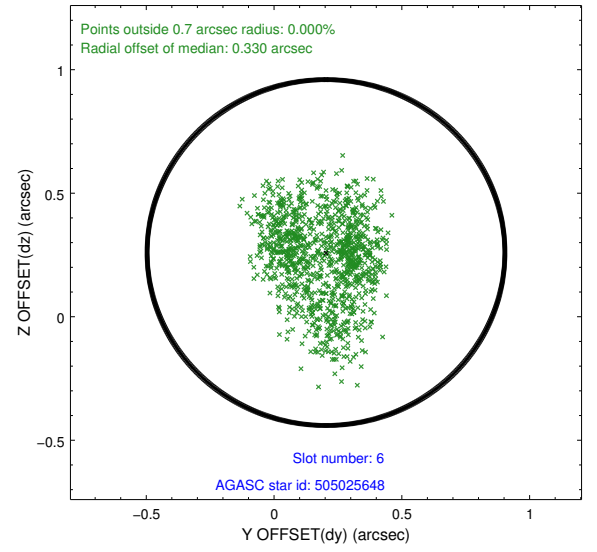
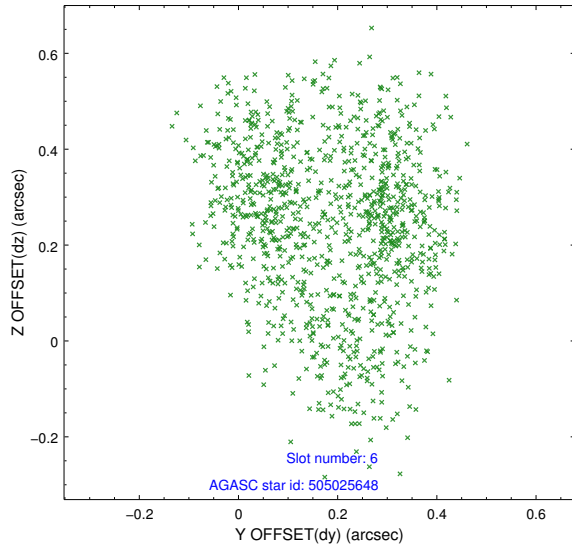
## 2.4.2 Slot 4



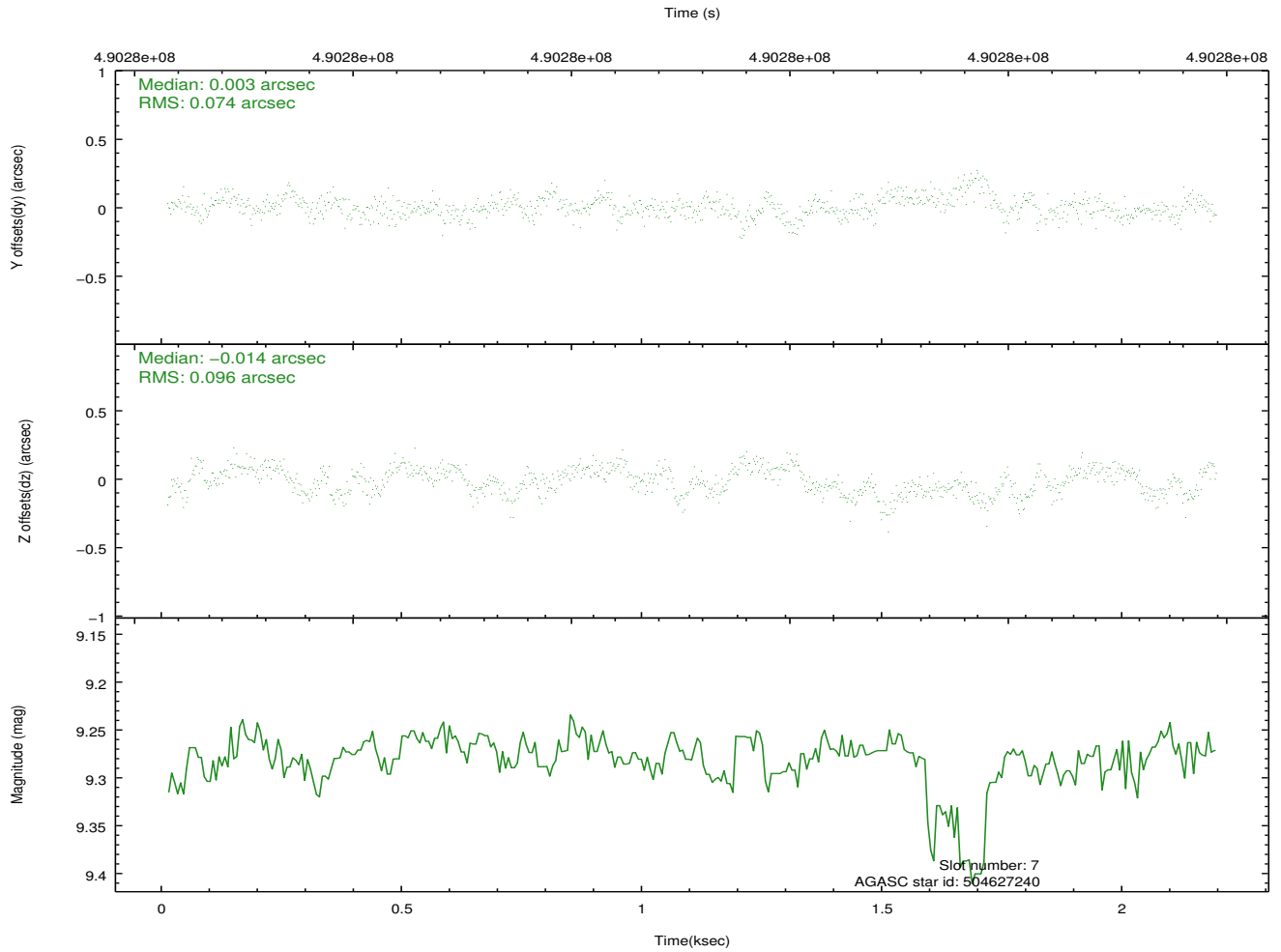
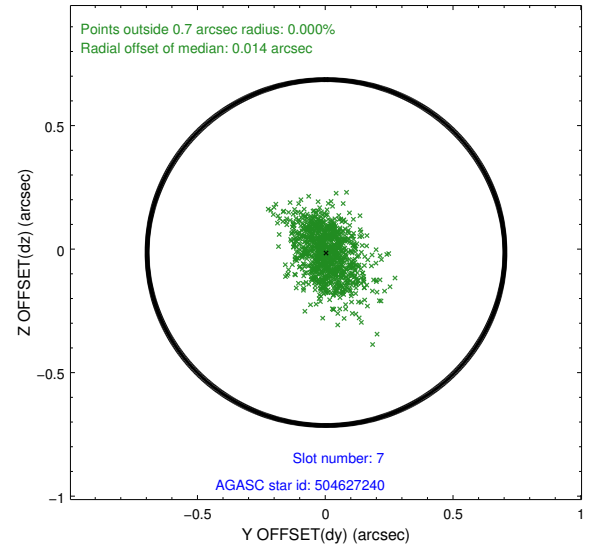
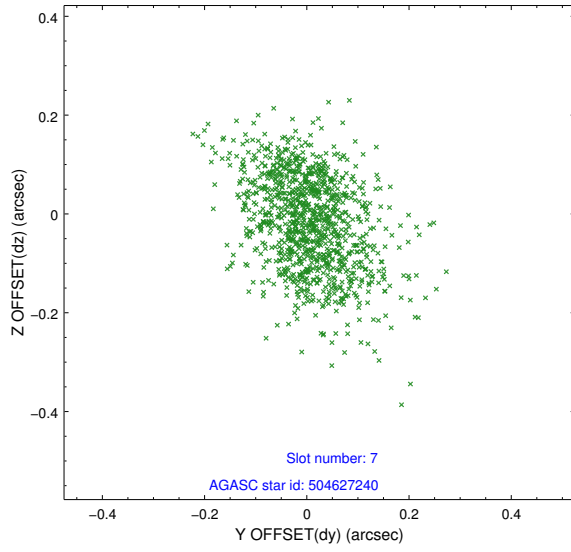
### 2.4.3 Slot 5



## 2.4.4 Slot 6

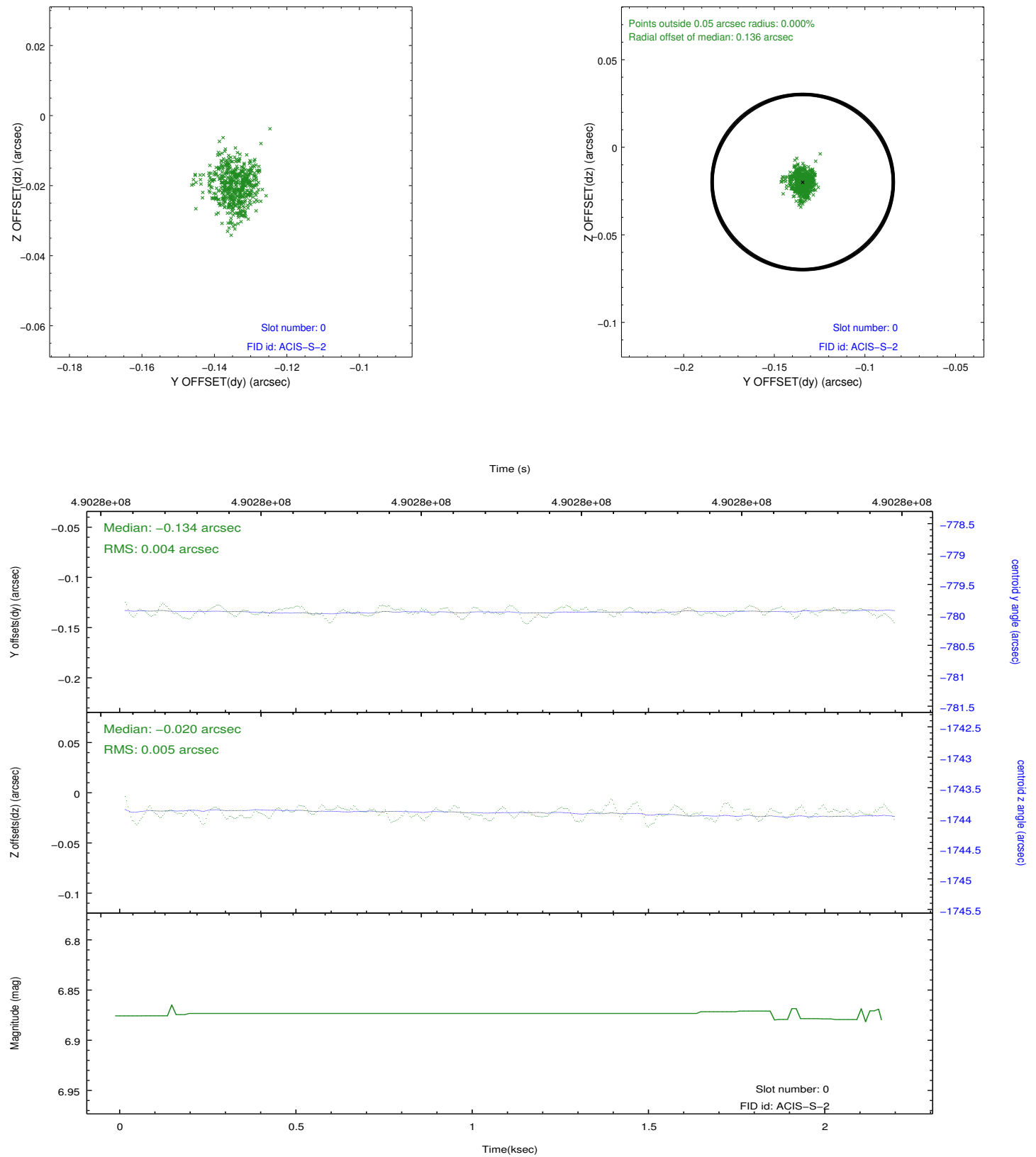


## 2.4.5 Slot 7

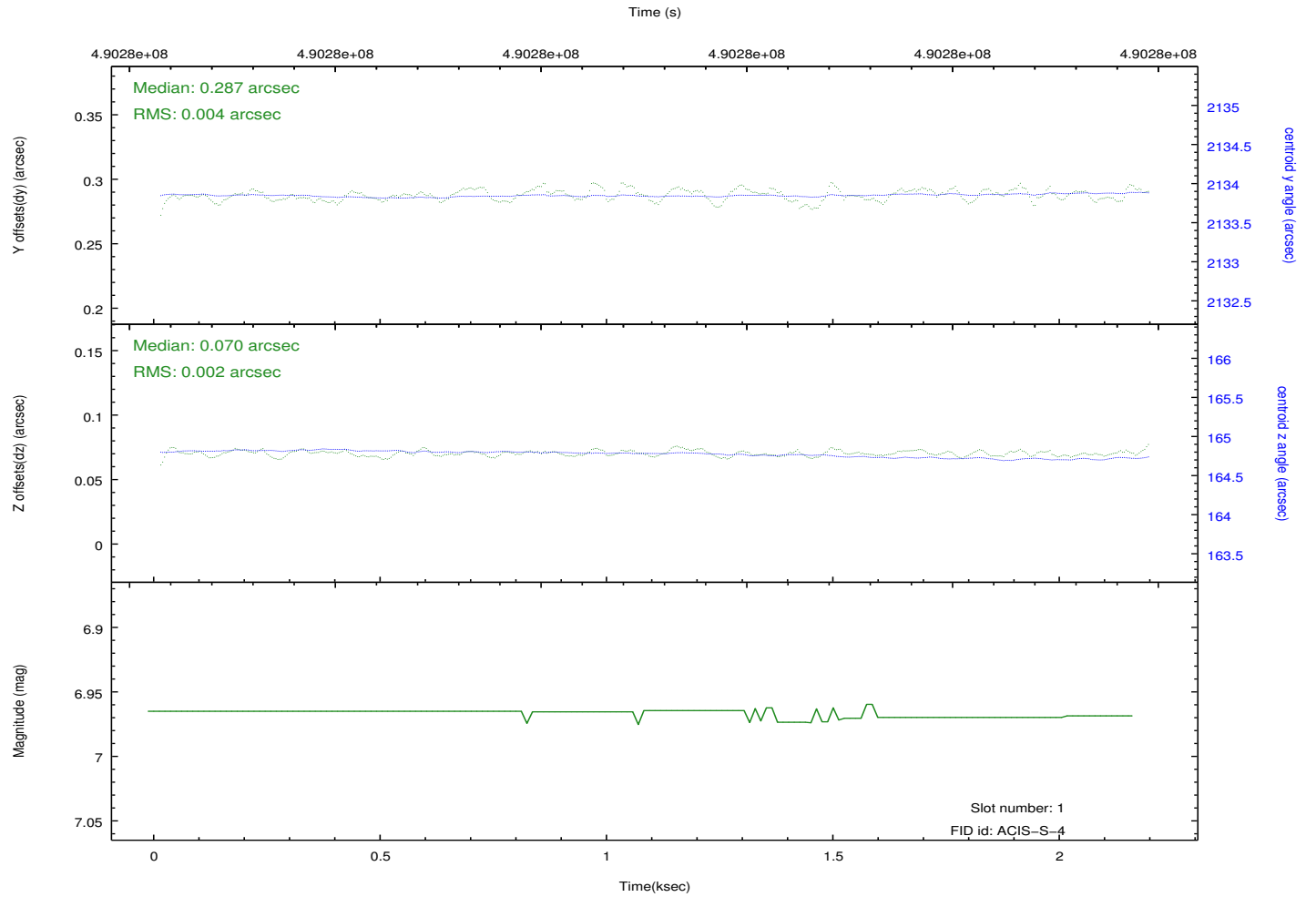
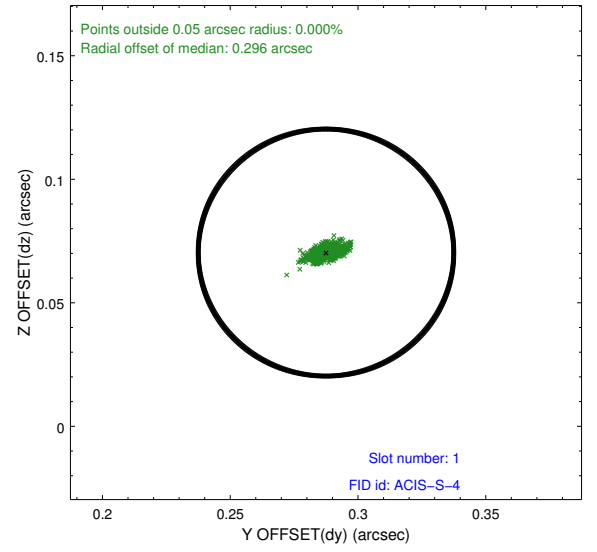
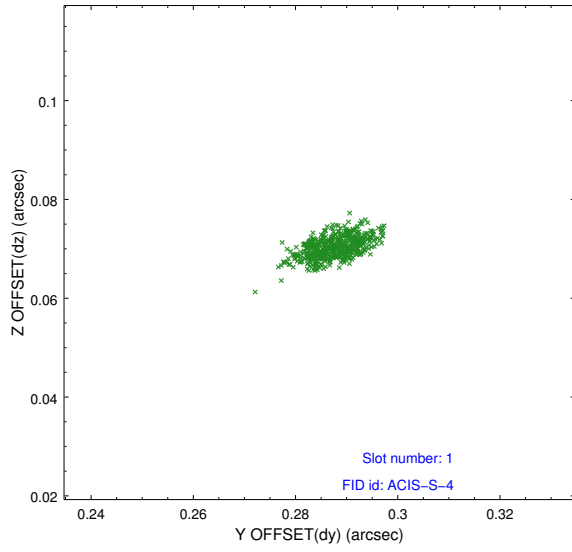


## 2.5 FID Slots

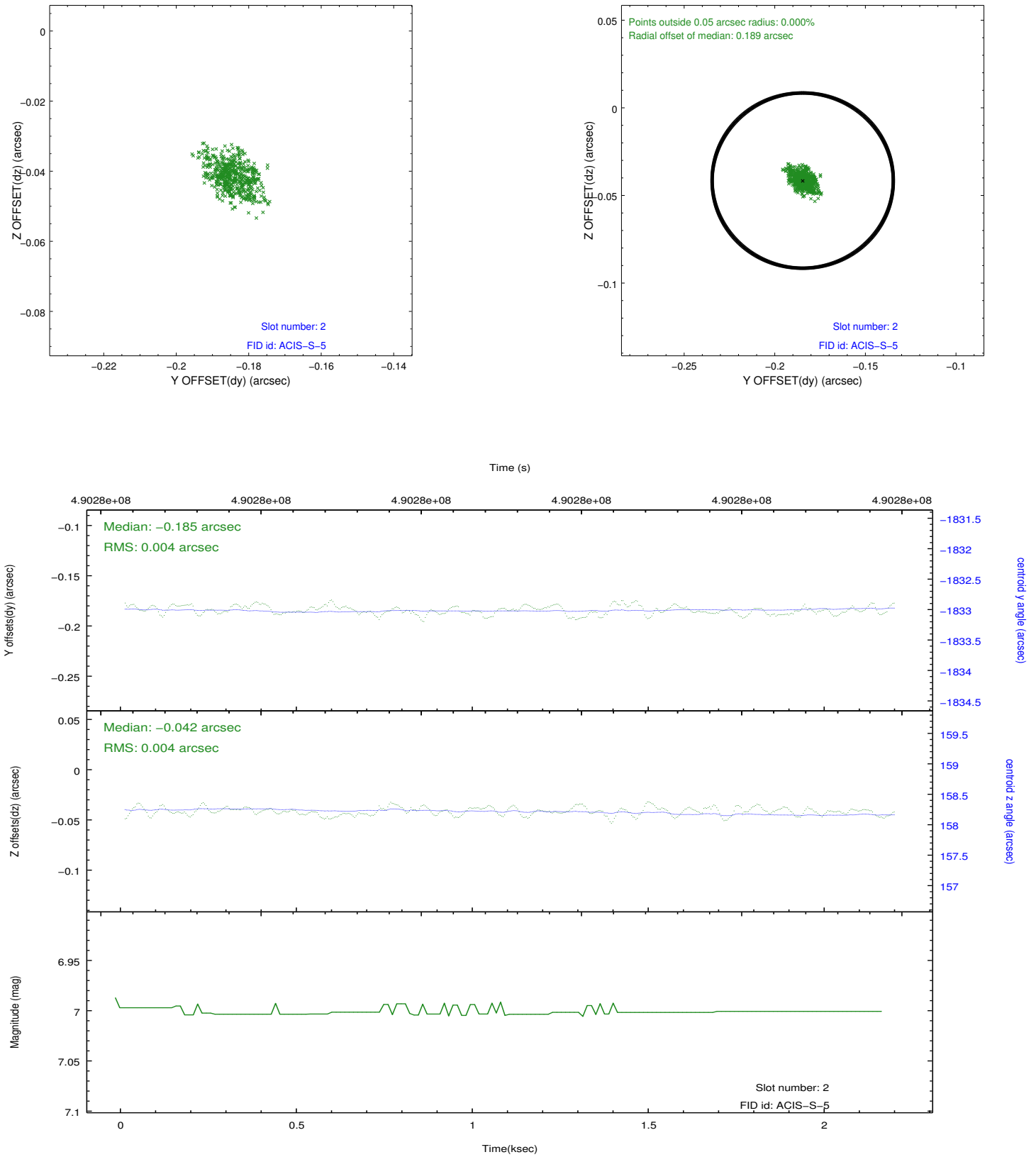
### 2.5.1 Slot 0



## 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)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.0933999445438

## A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.