

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 14967 - L2 Version 3  
Chandra X-Ray Center

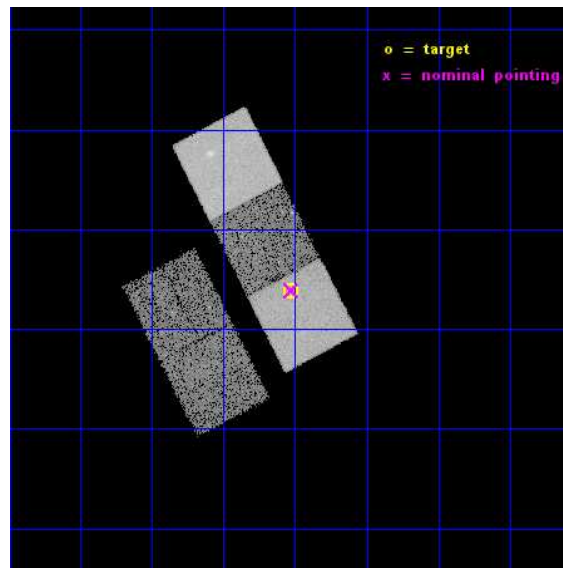
L2 Processing Date : Nov 29 2014

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# 1 Front

seq_num	702776	Sequence number
obs_id	14967	Observation id
title	X-ray Confirmation of Optically Selected Kpc-Scale Binary AGNs	Pro
observer	Dr. Xin Liu	Principal investigator
object	SDSSJ1330-0036	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	202.633333	Observer's specified target RA [deg]
dec_targ	-0.60375	Observer's specified target Dec [deg]
ra_nom	202.63146528975	Nominal RA [deg]
dec_nom	-0.6018677994003	Nominal Dec [deg]
roll_nom	62.587627650683	Nominal Roll [deg]
revision	3	Processing version of data
ontime	15068.92566359	Sum of GTIs [s]
livetime	14872.039056214	Livetime [s]
ontime2	15068.761503577	Sum of GTIs [s]
ontime3	15068.802543581	Sum of GTIs [s]
ontime5	15068.884623587	Sum of GTIs [s]
ontime6	15068.843583584	Sum of GTIs [s]
ontime7	15068.92566359	Sum of GTIs [s]
l2events	131161	Number of level 2 events

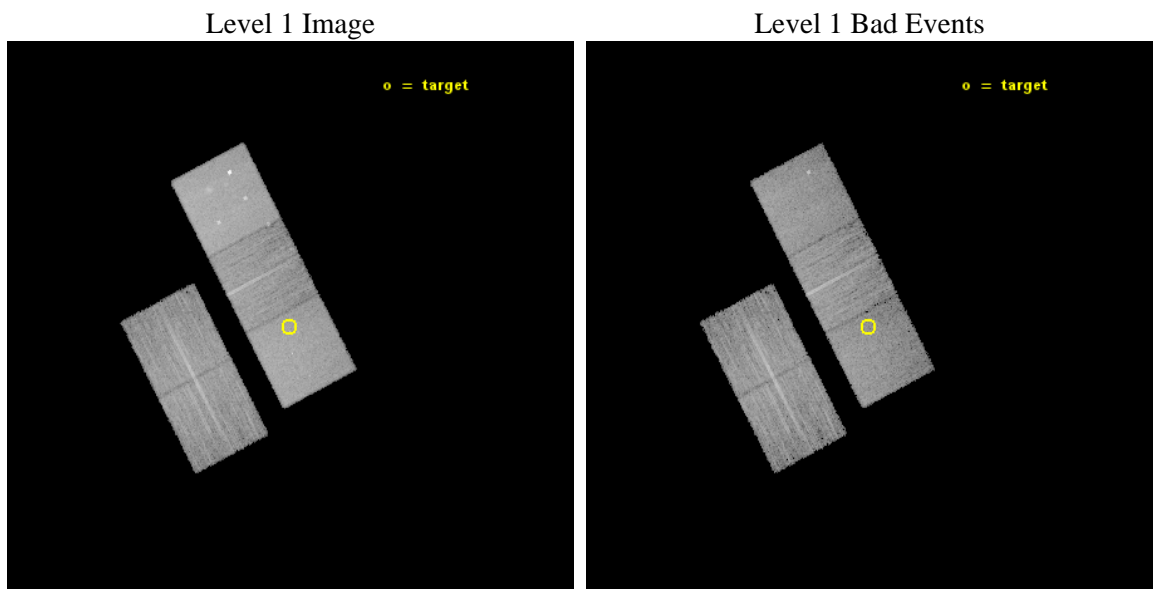




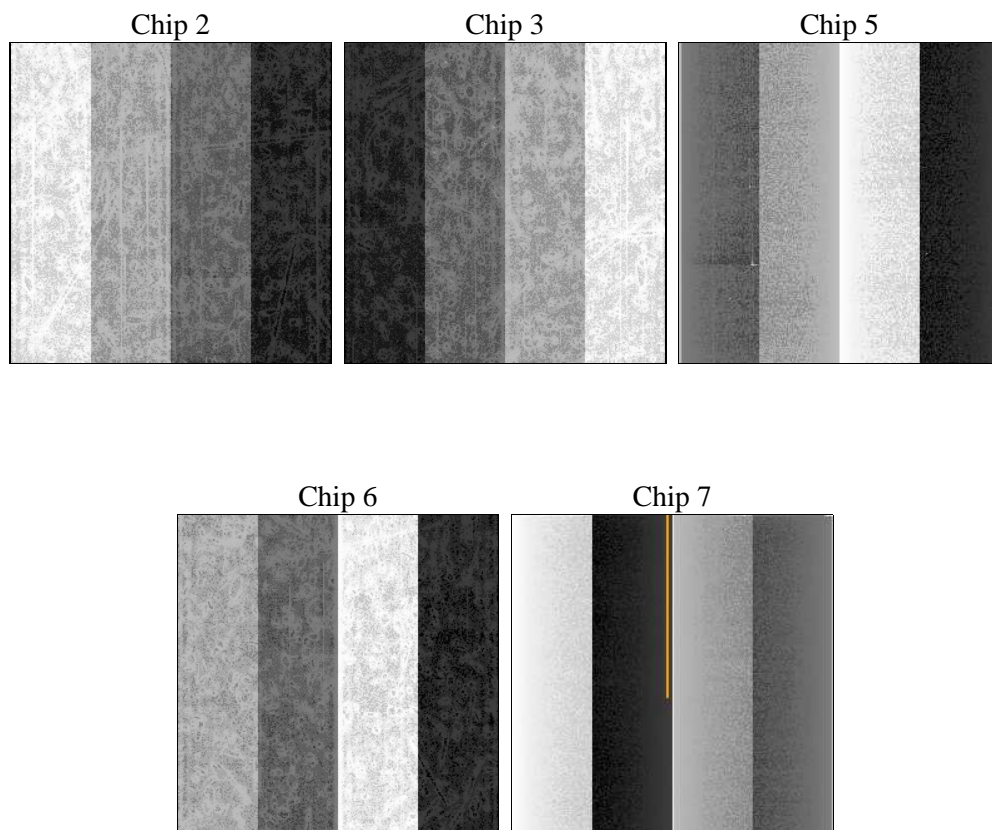
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	15068.92566359	Sum of GTIs [s]
caldsver	4.6.4	&#160	ontime2	15068.761503577	Sum of GTIs [s]
date	2014-11-30T02:35:27	Date and time of file creation	ontime3	15068.802543581	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	15068.884623587	Sum of GTIs [s]
			ontime6	15068.843583584	Sum of GTIs [s]
			ontime7	15068.92566359	Sum of GTIs [s]
			l1events	481796	Number of level 1 events

### 2.1.4 Events

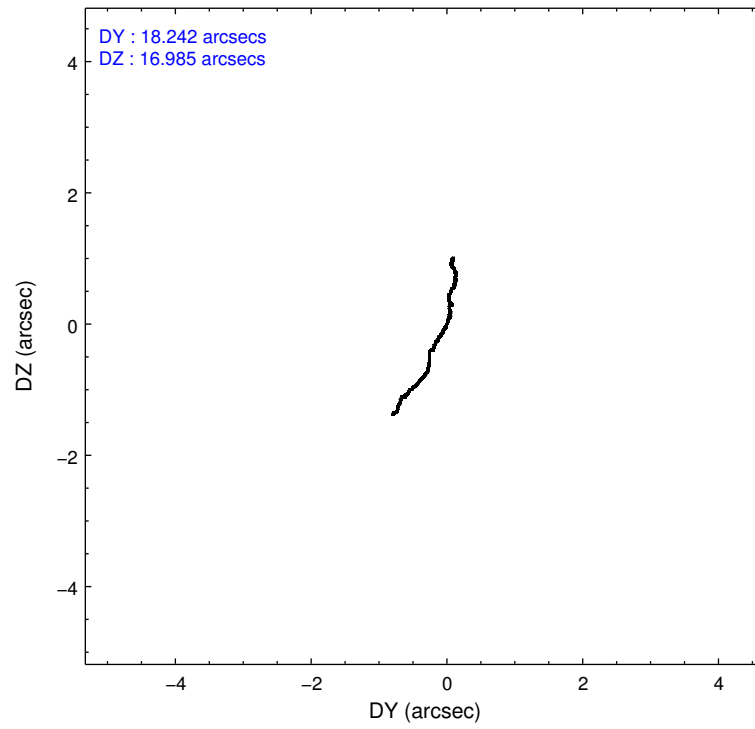
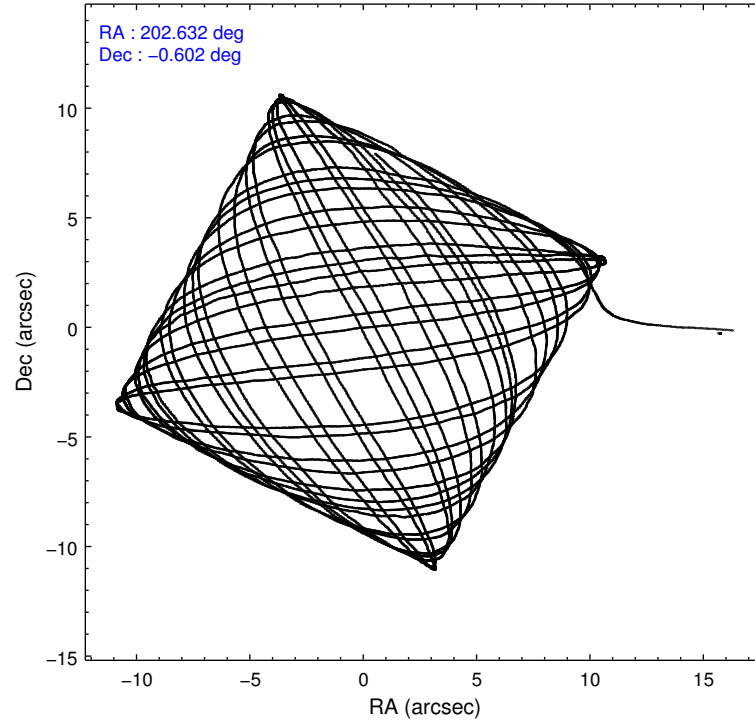
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	79273	77683	135751	81235	107854
rejected events	70147	68821	68561	71261	60704
rejected %	88%	88%	50%	87%	56%

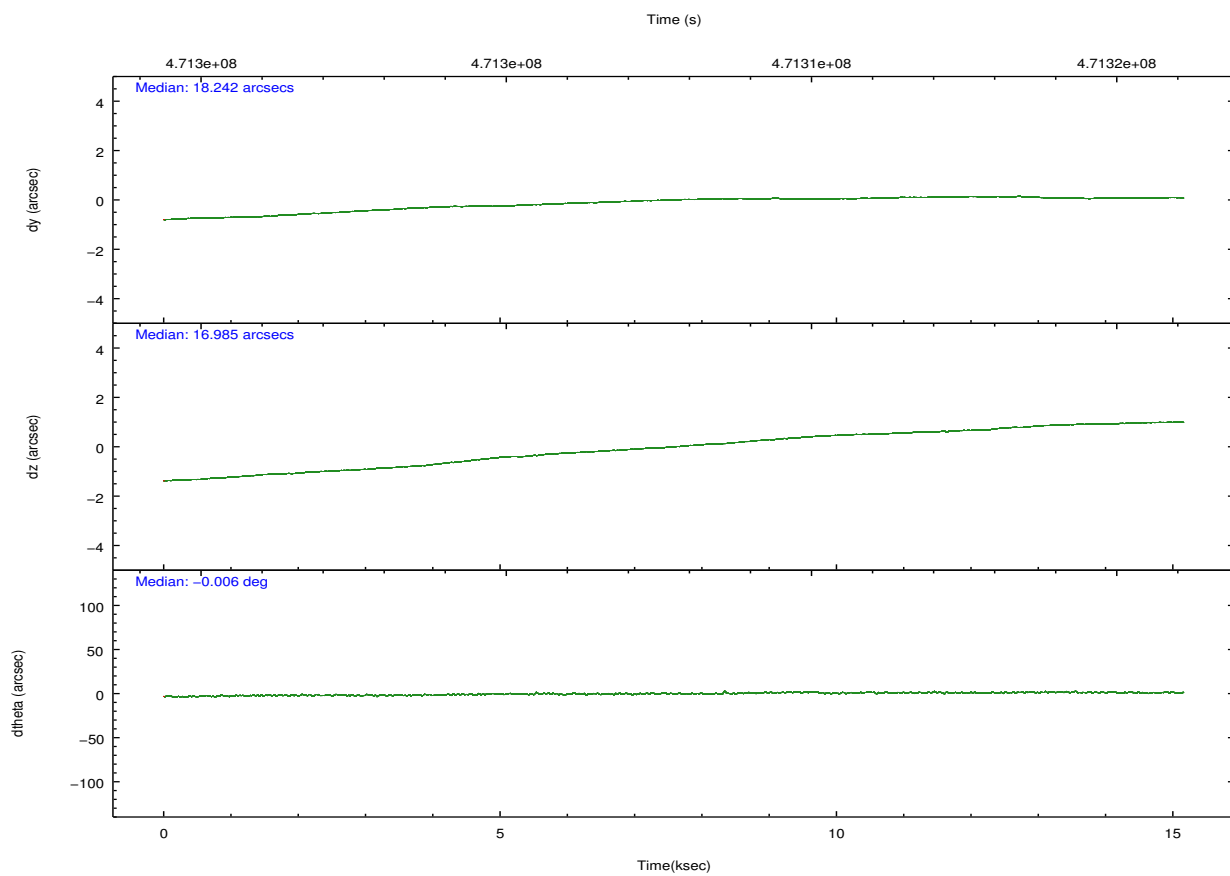
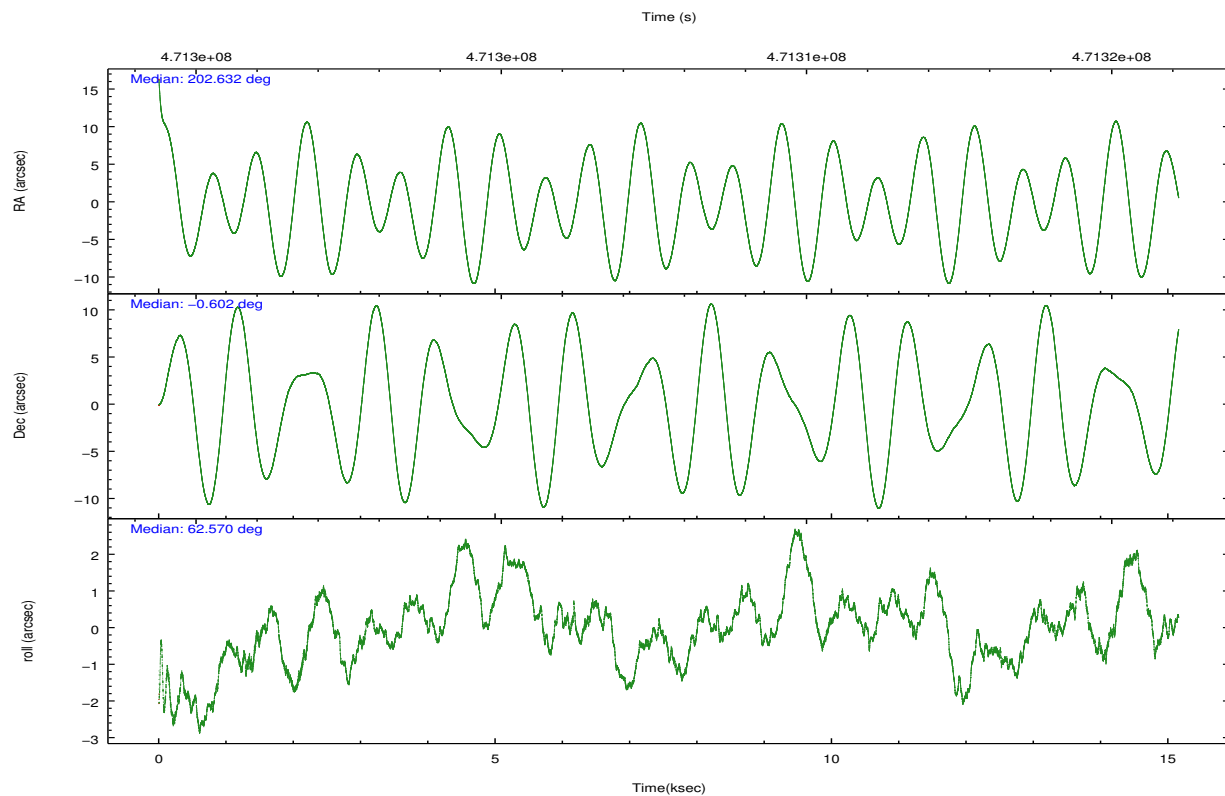
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	3211	3160	7671	3477	4363
	4%	4%	5%	4%	4%
grade 1 events	44	41	477	50	133
	0%	0%	0%	0%	0%
grade 2 events	2228	1937	20795	2240	9560
	2%	2%	15%	2%	8%
grade 3 events	960	914	2364	973	4079
	1%	1%	1%	1%	3%
grade 4 events	951	992	2212	1041	4119
	1%	1%	1%	1%	3%
grade 5 events	3352	4131	9758	4080	10937
	4%	5%	7%	5%	10%
grade 6 events	1779	1862	34177	2249	25055
	2%	2%	25%	2%	23%
grade 7 events	66748	64646	58297	67125	49608
	84%	83%	42%	82%	45%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	202.633031	202.6314652897549	CCD I2 on	Y	Y
[deg] Pointing Dec	-0.629163	-0.6018677994003011	CCD I3 on	Y	Y
[deg] Pointing Roll	62.431022	62.58762765068341	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	N	N
[s] Observation start time (MET)	471300321.184000	471299379.44139	CCD S5 on	N	N
Observation start date	2012-12-07T20:44:14	2012-12-07T20:29:39	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	471315321.184000	471316823.40483	On-chip summing requested	N	N
Observation end date	2012-12-08T00:54:14	2012-12-08T01:20:23	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



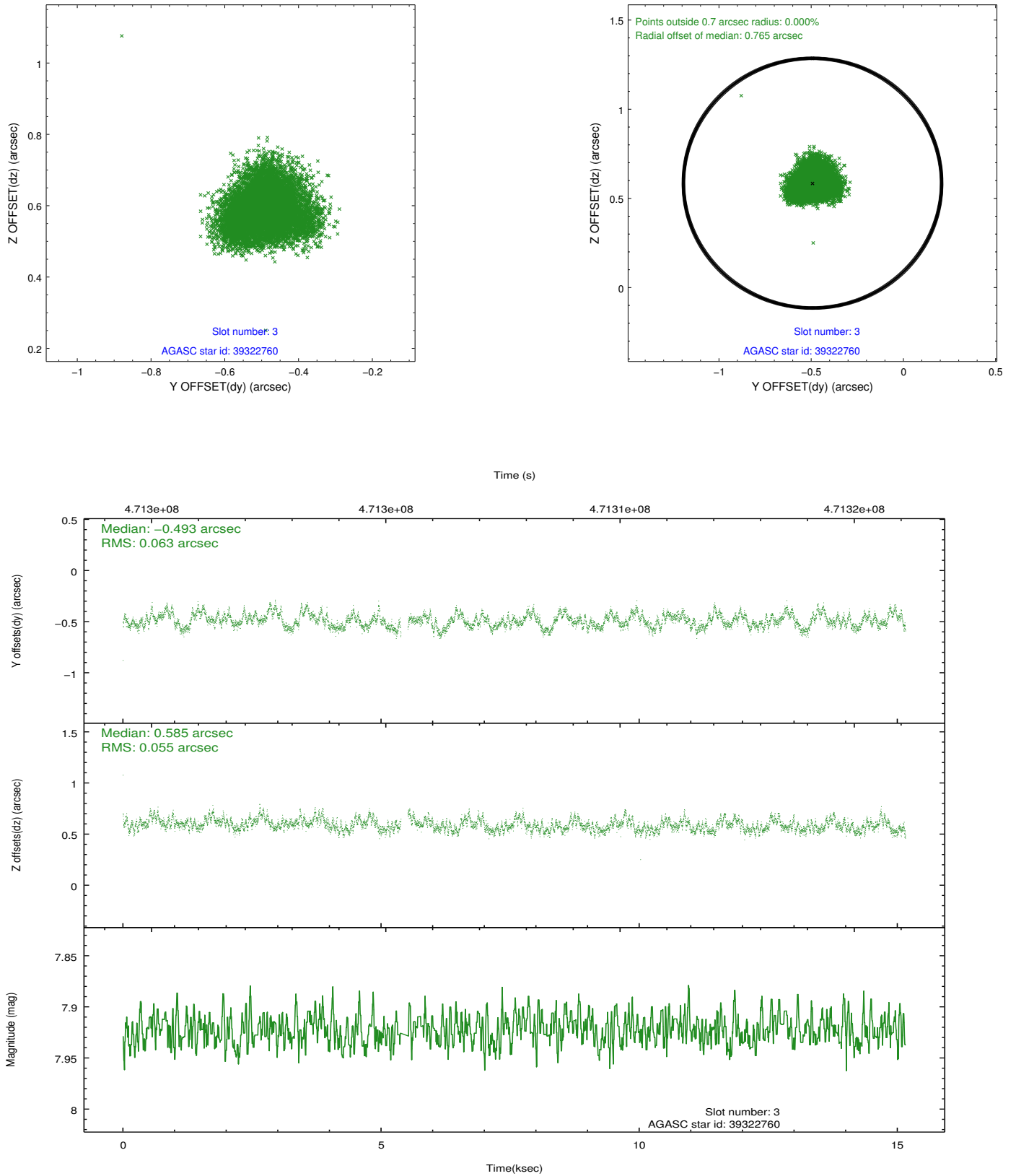


### Slot Statistics

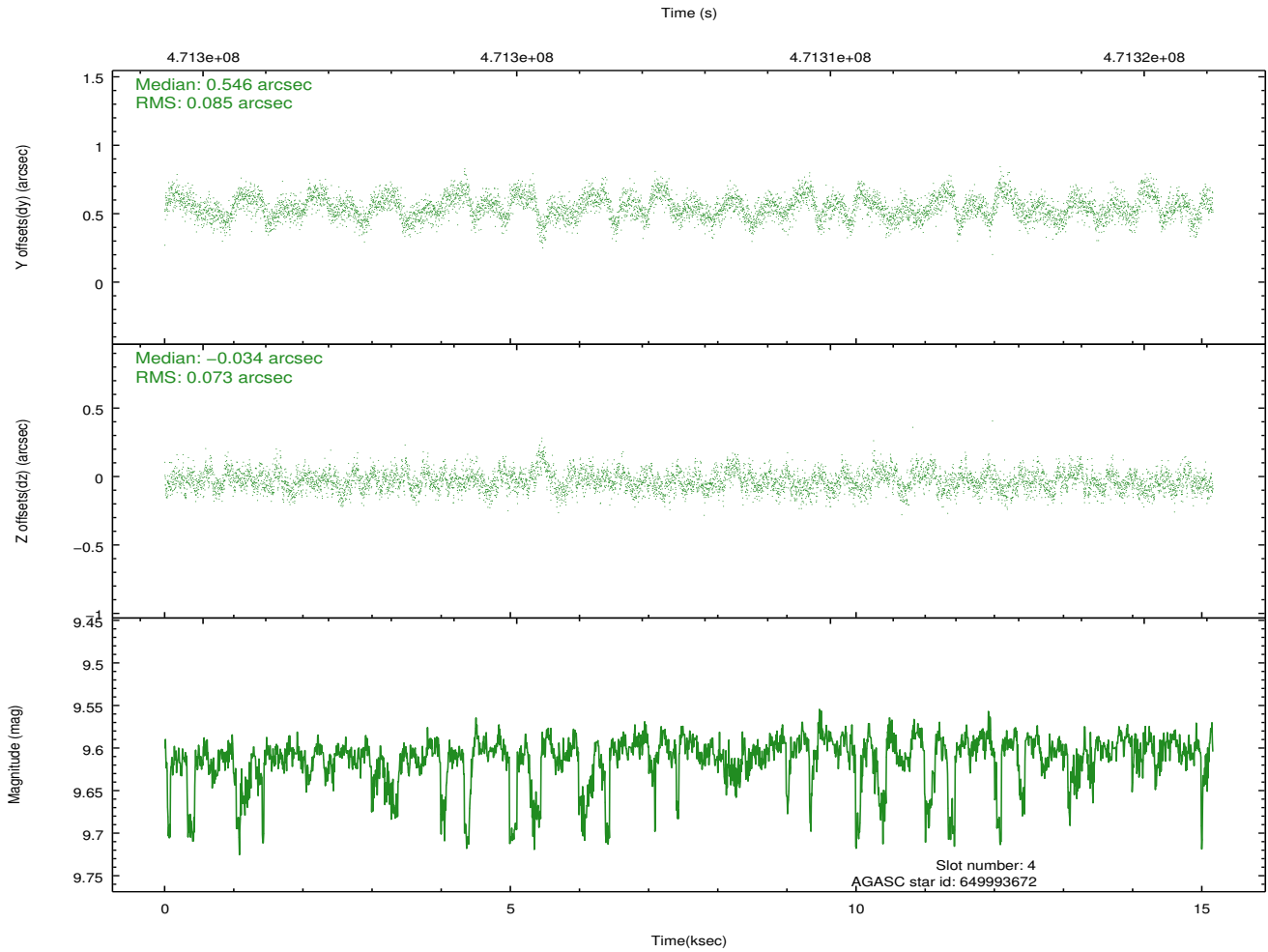
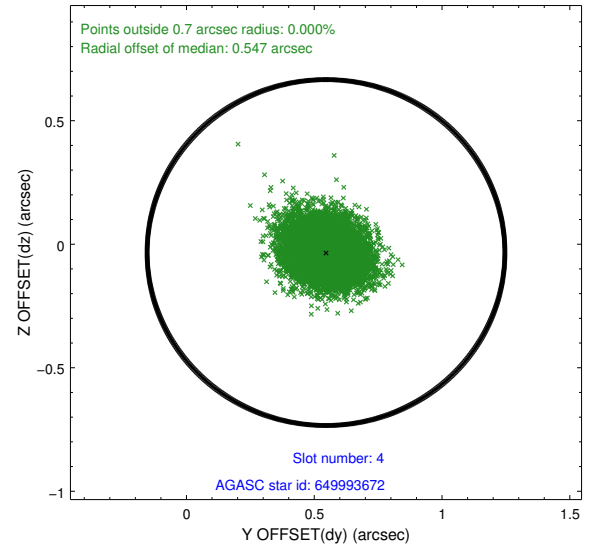
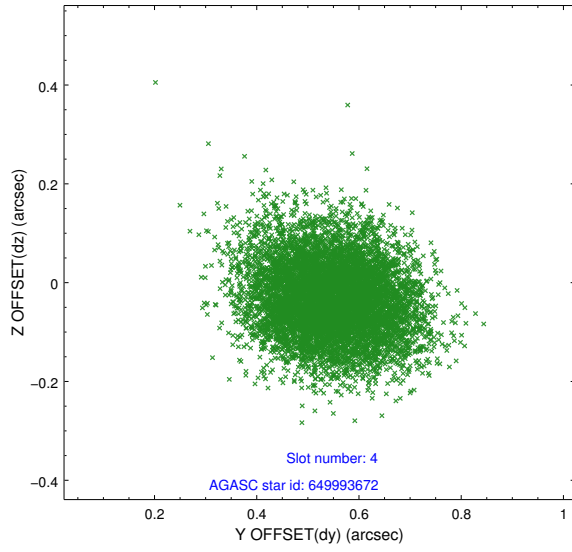
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.06	3698	-0.017	-0.076	0.036	0.066	0.000000	0.000000	924.88	-1733.99
1	FID		ACIS-S-4	7.05	3698	0.101	0.004	0.015	0.023	0.000000	0.000000	2142.55	169.94
2	FID		ACIS-S-6	7.19	3698	-0.108	0.082	0.025	0.047	0.000000	0.000000	391.09	807.69
3	GUIDE	used	39322760	7.92	7327	-0.493	0.585	0.090	0.140	202.302214	0.119195	1835.70	2304.64
4	GUIDE	used	649993672	9.61	7365	0.546	-0.034	0.120	0.192	202.335104	-1.070917	-1905.52	215.23
5	GUIDE	used	649994624	7.51	7392	0.673	-0.298	0.067	0.111	202.077953	-0.840187	-1601.76	1414.58
6	GUIDE	used	650904504	7.96	7395	-0.555	0.035	0.068	0.110	202.937627	-1.239362	-1440.27	-1988.01
7	GUIDE	used	650905640	9.01	7364	-0.171	-0.299	0.106	0.186	203.048628	-0.499239	1106.84	-1109.23

## 2.4 Star Slots

### 2.4.1 Slot 3

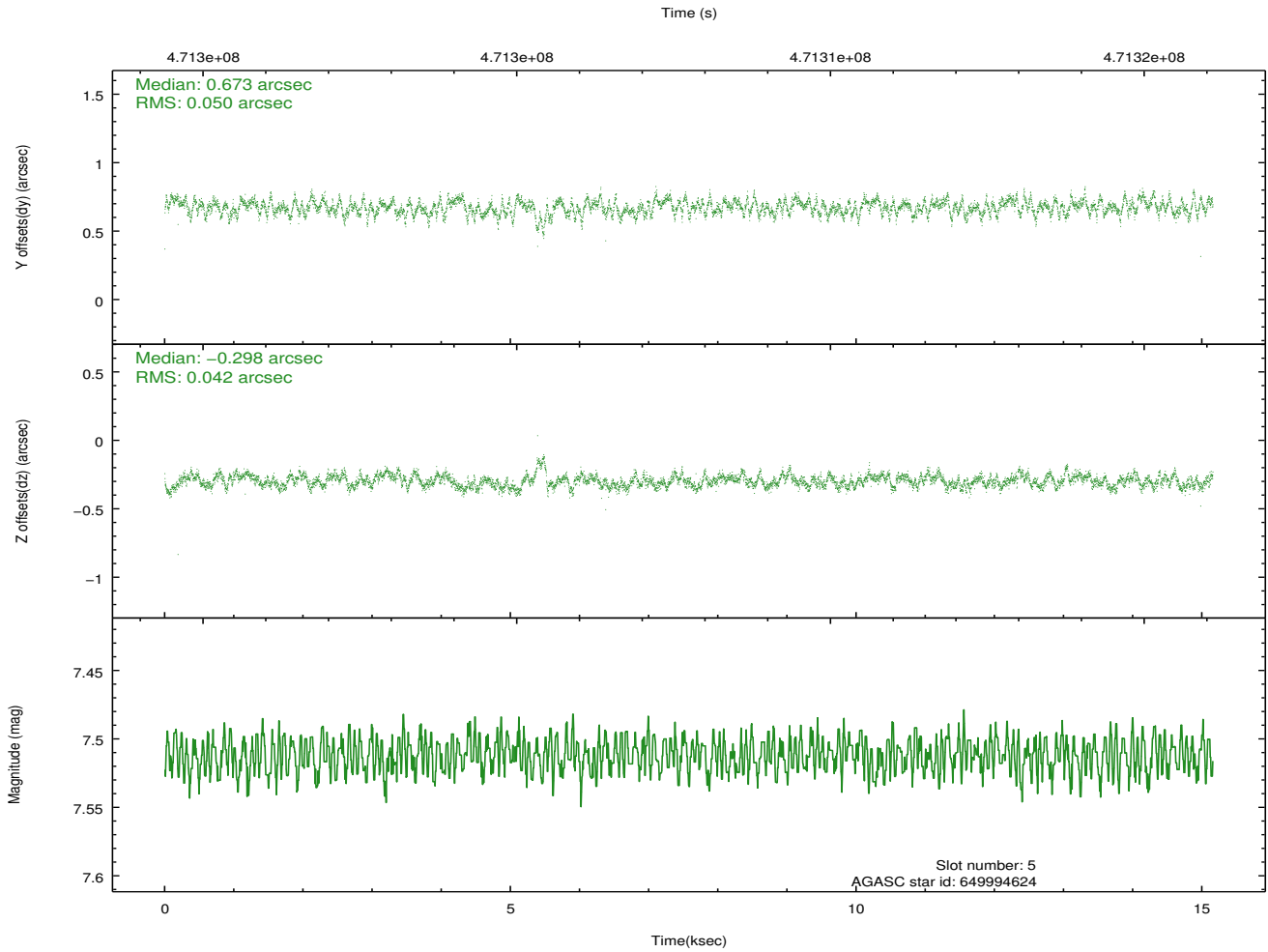
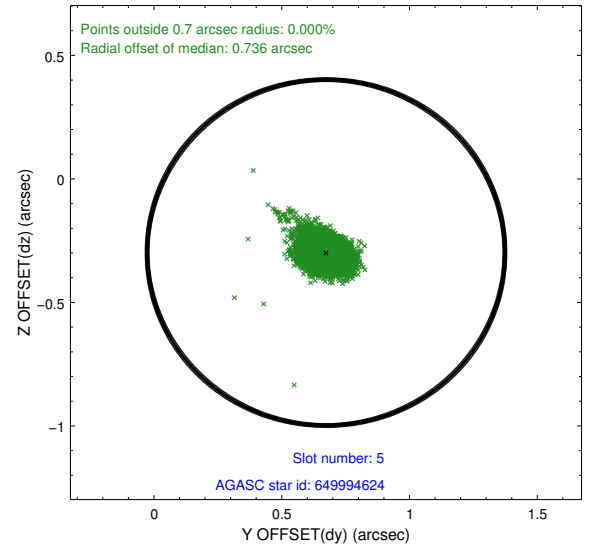
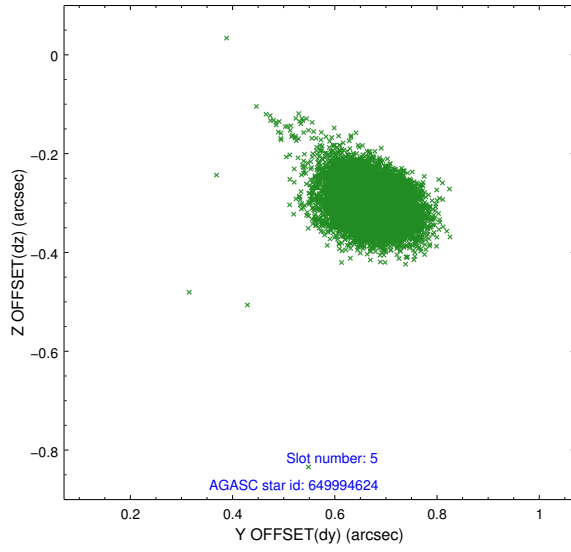


## 2.4.2 Slot 4

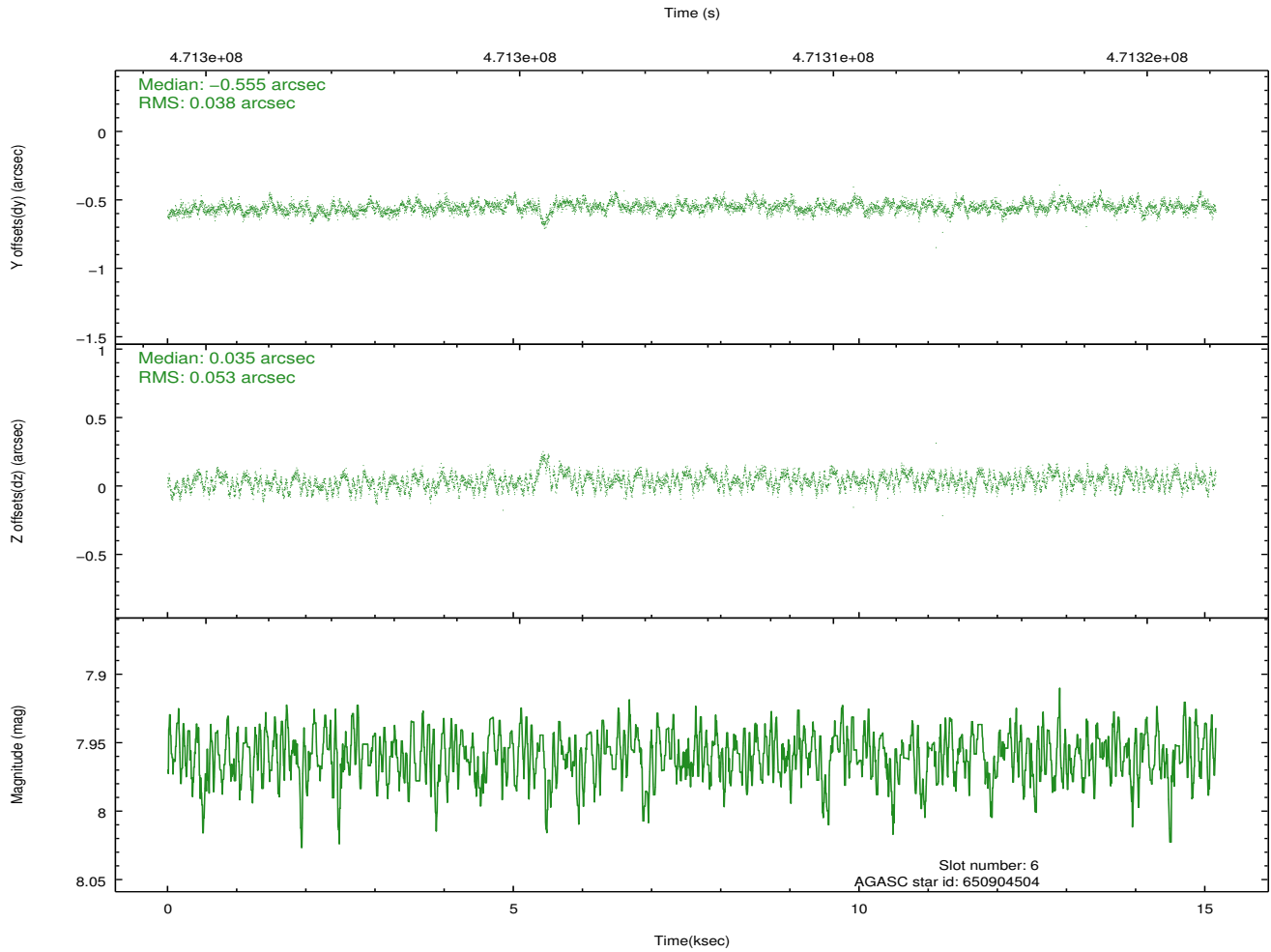
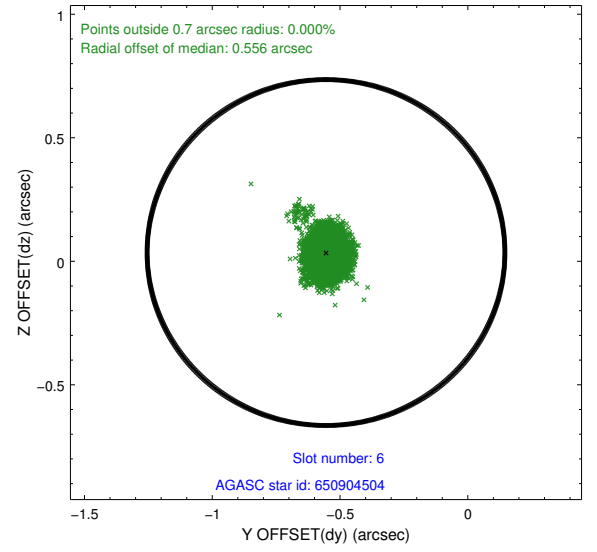
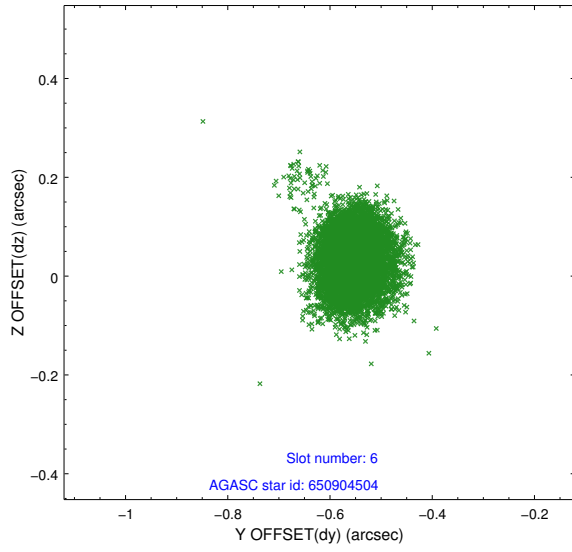




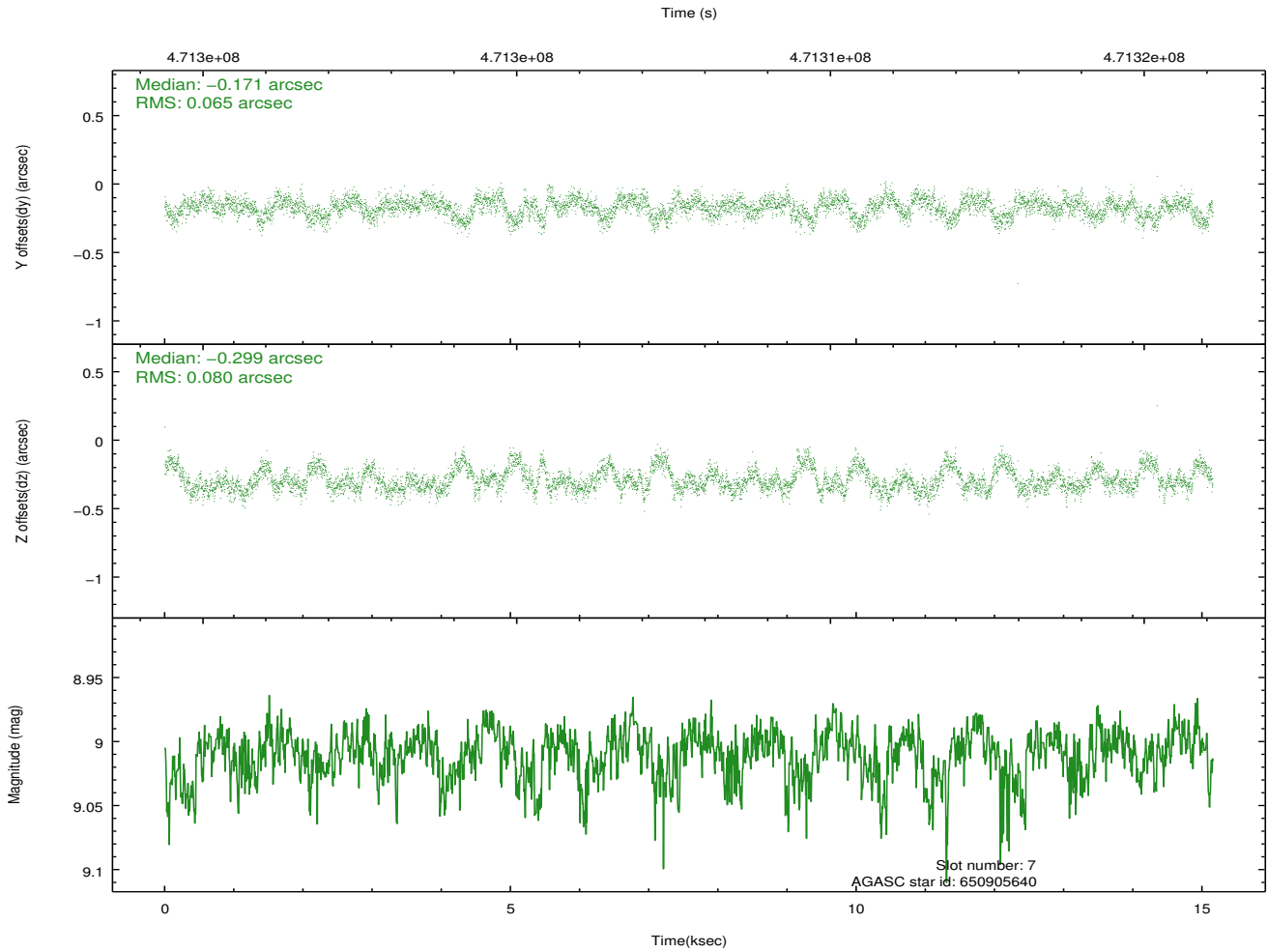
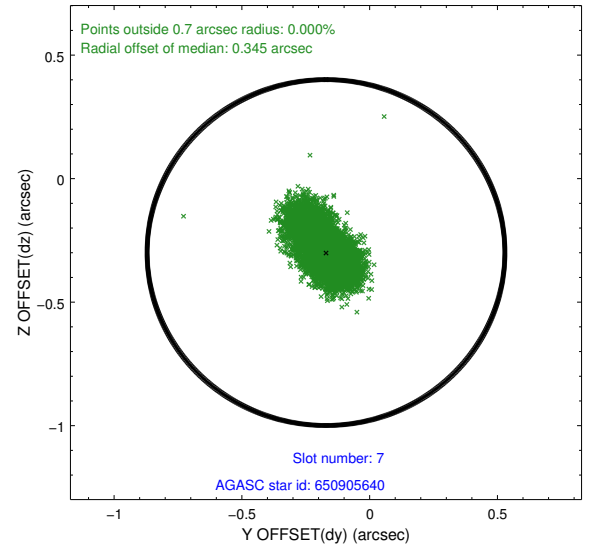
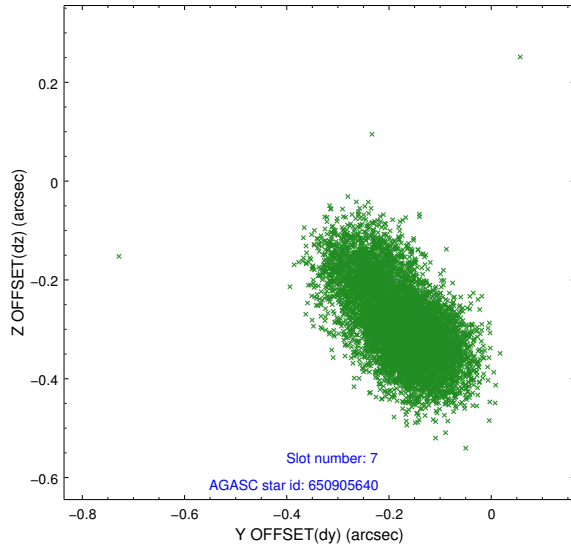
### 2.4.3 Slot 5



## 2.4.4 Slot 6

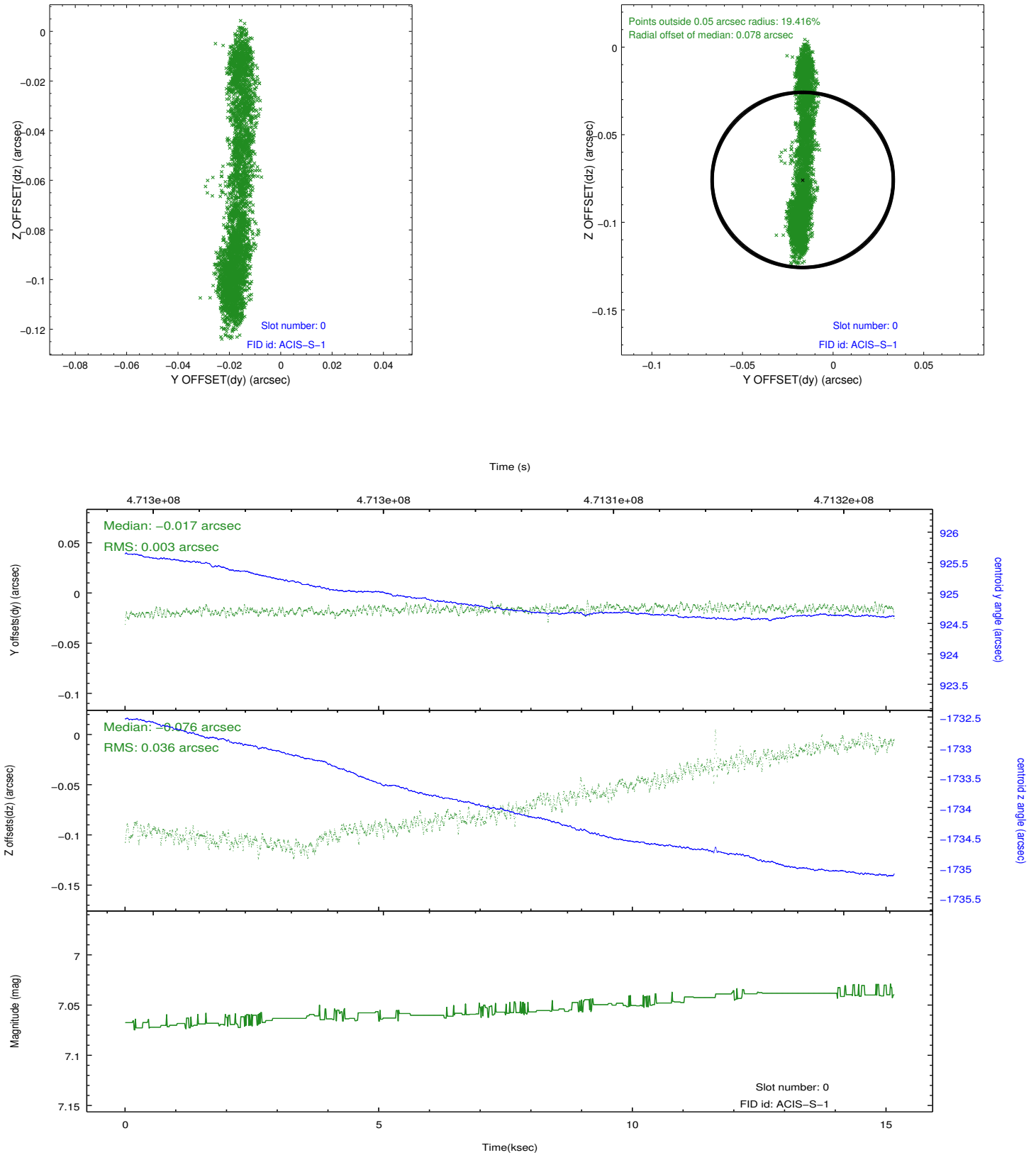


## 2.4.5 Slot 7

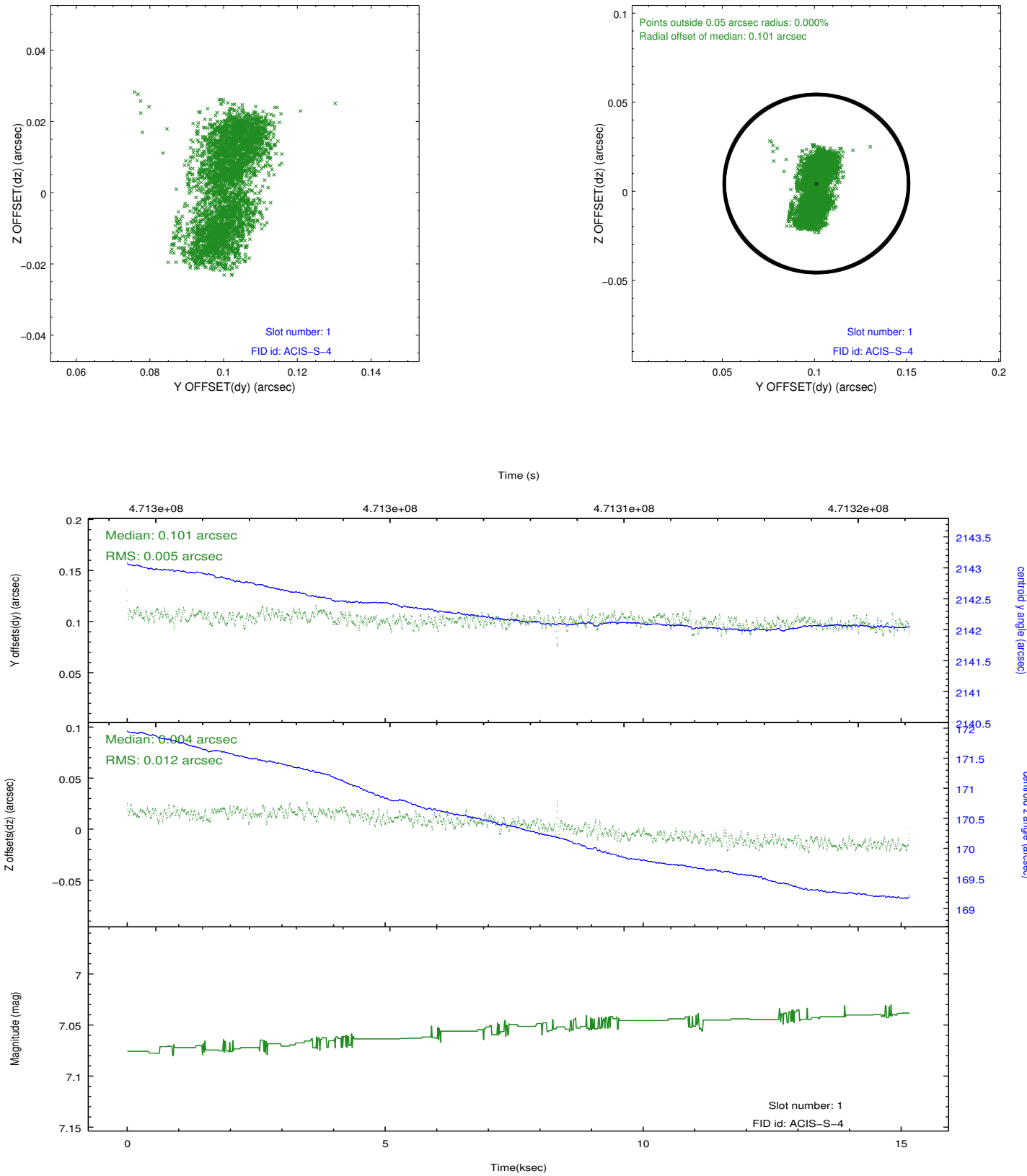


## 2.5 FID Slots

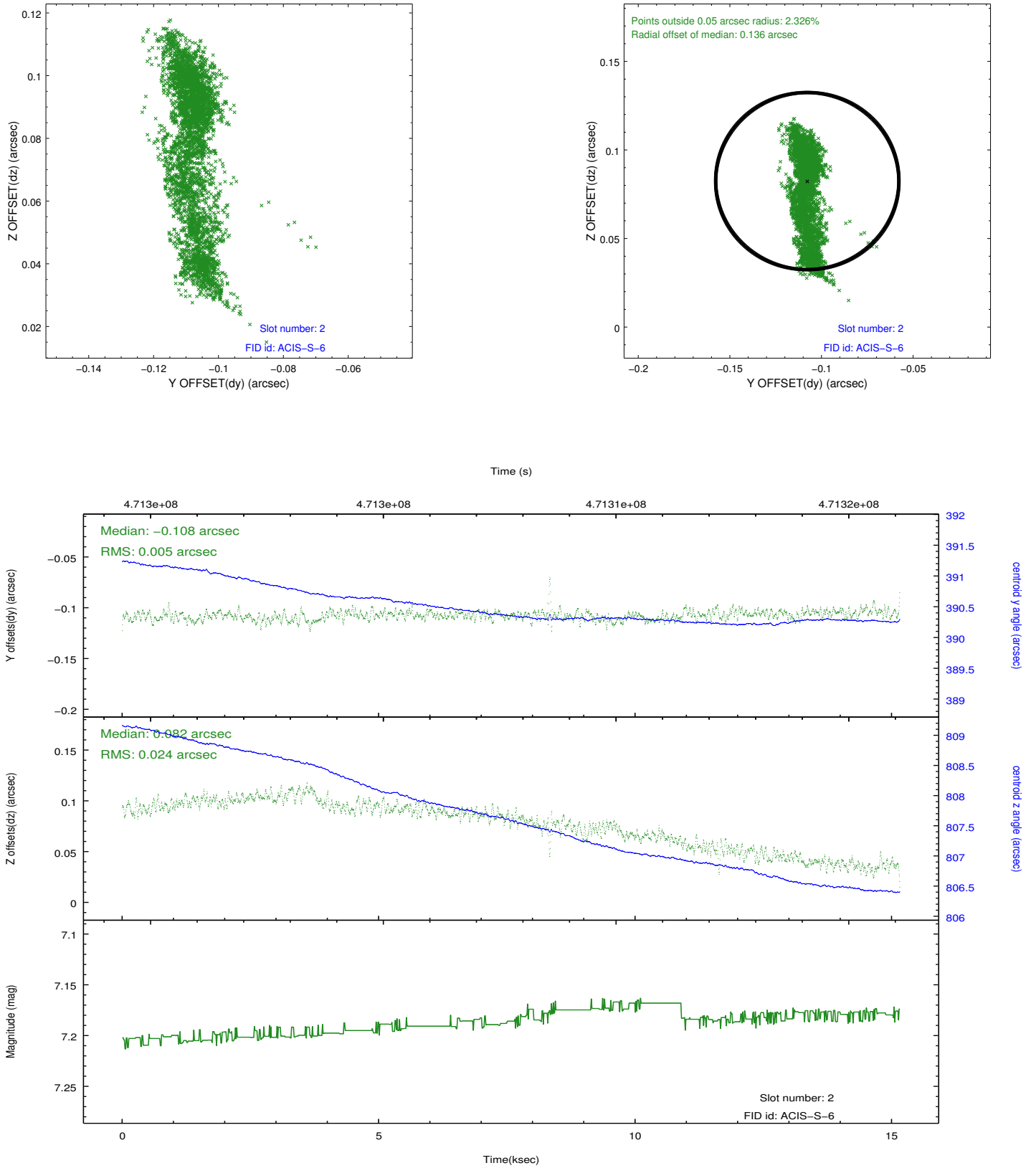
### 2.5.1 Slot 0



## 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)	2014.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.06892566359

## 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.