

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9228 - L2 Version 2  
Chandra X-Ray Center

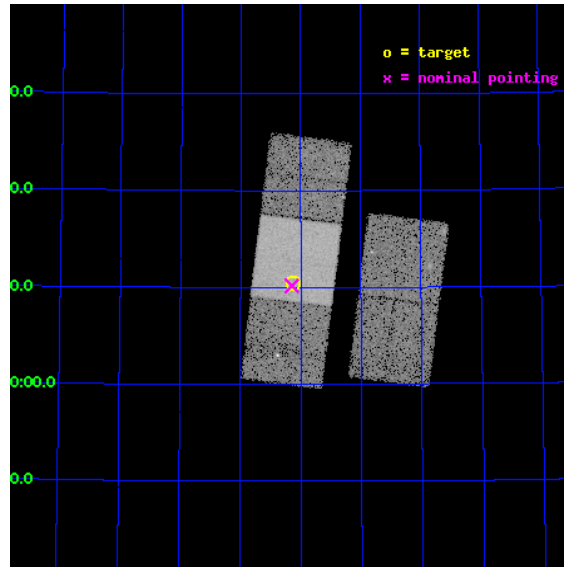
L2 Processing Date : May 16 2012

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# 1 Front

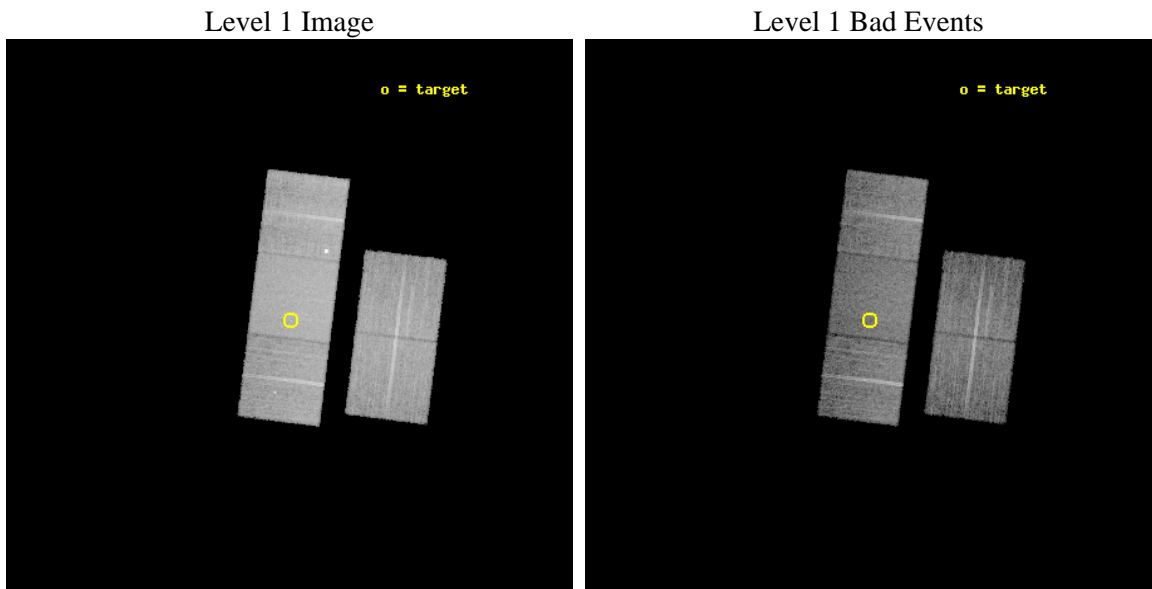
seq_num	701669	Sequence number
obs_id	9228	Observation id
title	Deconstructing the Accretion Disk Wind in Quasars	Proposal title
observer	Dr. Gordon Richards	Principal investigator
object	SDSS J1029+6510	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	157.279583	Observer's specified target RA [deg]
dec_targ	65.1735	Observer's specified target Dec [deg]
ra_nom	157.28681708031	Nominal RA [deg]
dec_nom	65.169718089059	Nominal Dec [deg]
roll_nom	277.07929161602	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10778.700082898	Sum of GTIs [s]
livetime	10637.868431152	Livetime [s]
ontime2	10775.559122562	Sum of GTIs [s]
ontime3	10778.700082898	Sum of GTIs [s]
ontime6	10778.700082898	Sum of GTIs [s]
ontime7	10778.700082898	Sum of GTIs [s]
ontime8	10778.700082898	Sum of GTIs [s]
l2events	101823	Number of level 2 events



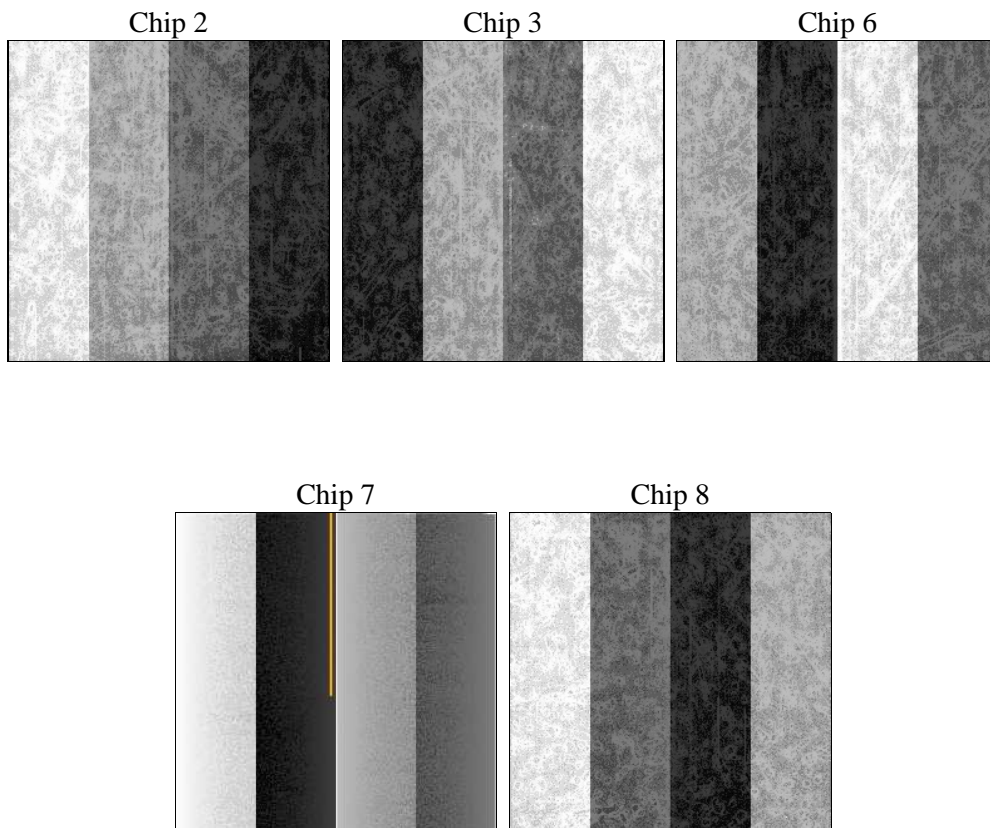
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10600.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	10778.700082898	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime2	10775.559122562	Sum of GTIs [s]
date	2012-05-16T14:35:37	Date and time of file creation	ontime3	10778.700082898	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	10778.700082898	Sum of GTIs [s]
			ontime7	10778.700082898	Sum of GTIs [s]
			ontime8	10778.700082898	Sum of GTIs [s]
			l1events	577320	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	97867	98756	103968	143089	133640
rejected events	85821	86481	90986	84536	101234
rejected %	87%	87%	87%	59%	75%

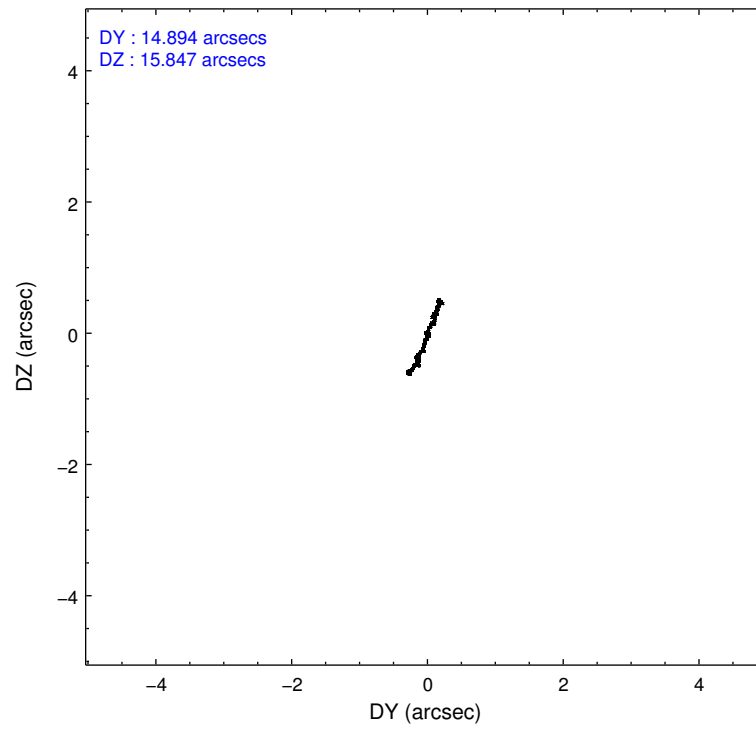
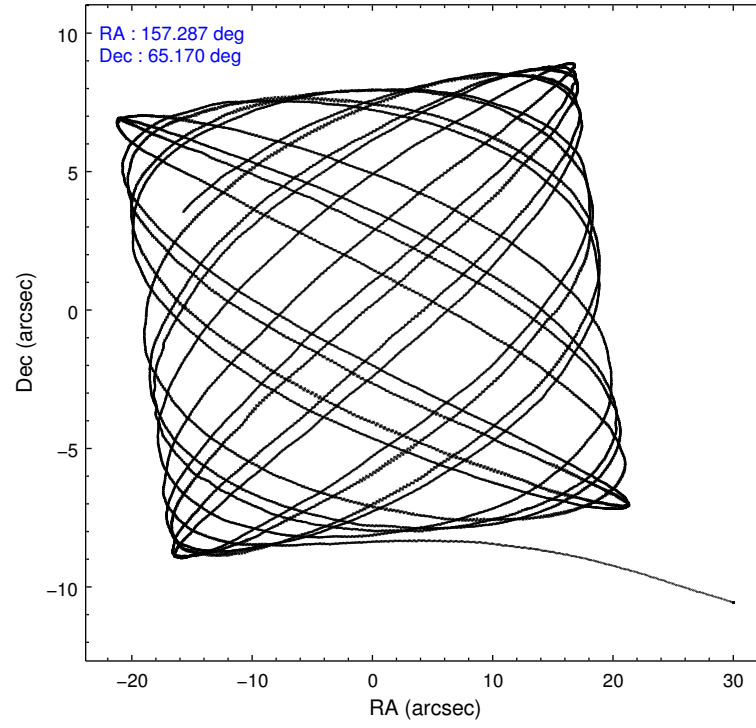
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	5373	5477	5137	5079	12609
	5%	5%	4%	3%	9%
grade 1 events	49	68	62	162	107
	0%	0%	0%	0%	0%
grade 2 events	2549	2419	2894	11897	6545
	2%	2%	2%	8%	4%
grade 3 events	1095	1190	1238	4988	3150
	1%	1%	1%	3%	2%
grade 4 events	1088	1094	1232	4891	2824
	1%	1%	1%	3%	2%
grade 5 events	3989	4824	4978	13468	6650
	4%	4%	4%	9%	4%
grade 6 events	2009	2175	2560	32055	7491
	2%	2%	2%	22%	5%
grade 7 events	81715	81509	85867	70549	94264
	83%	82%	82%	49%	70%

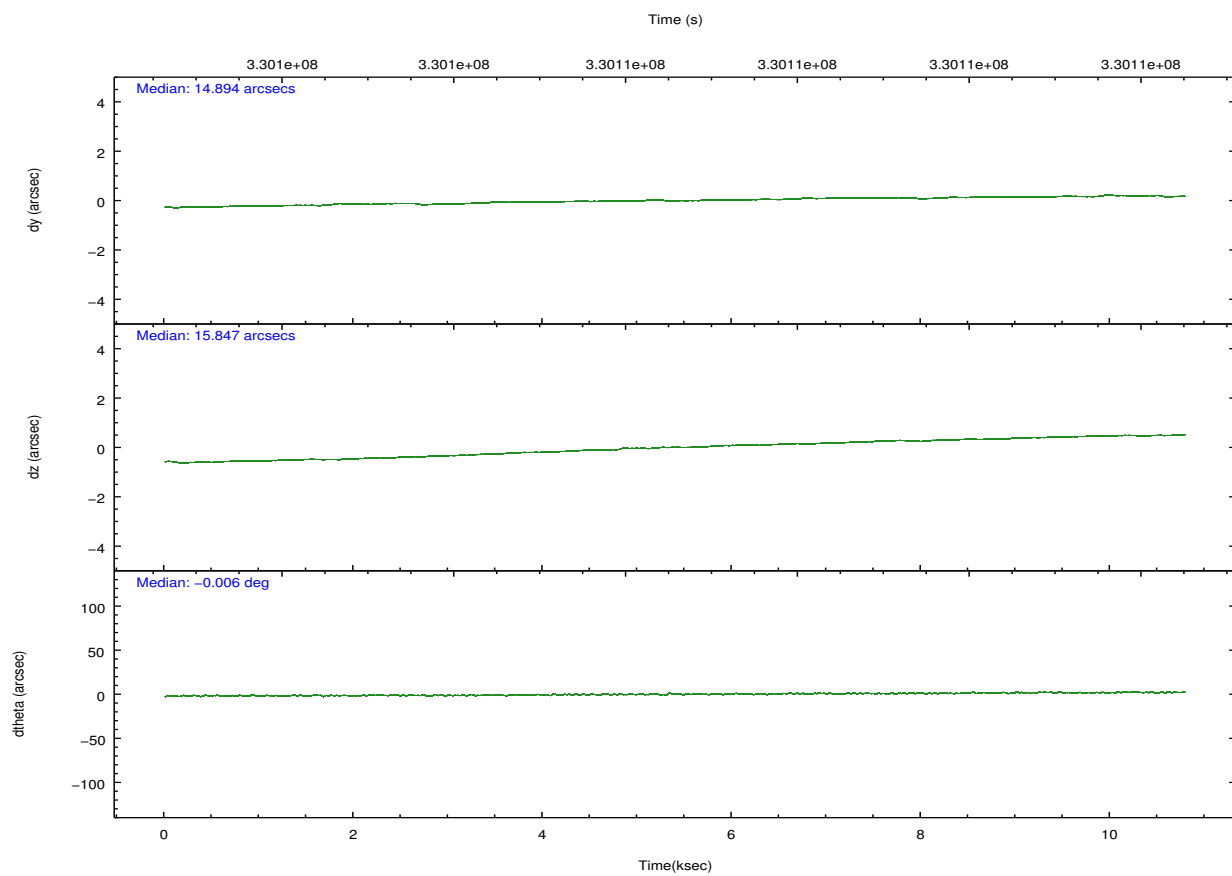
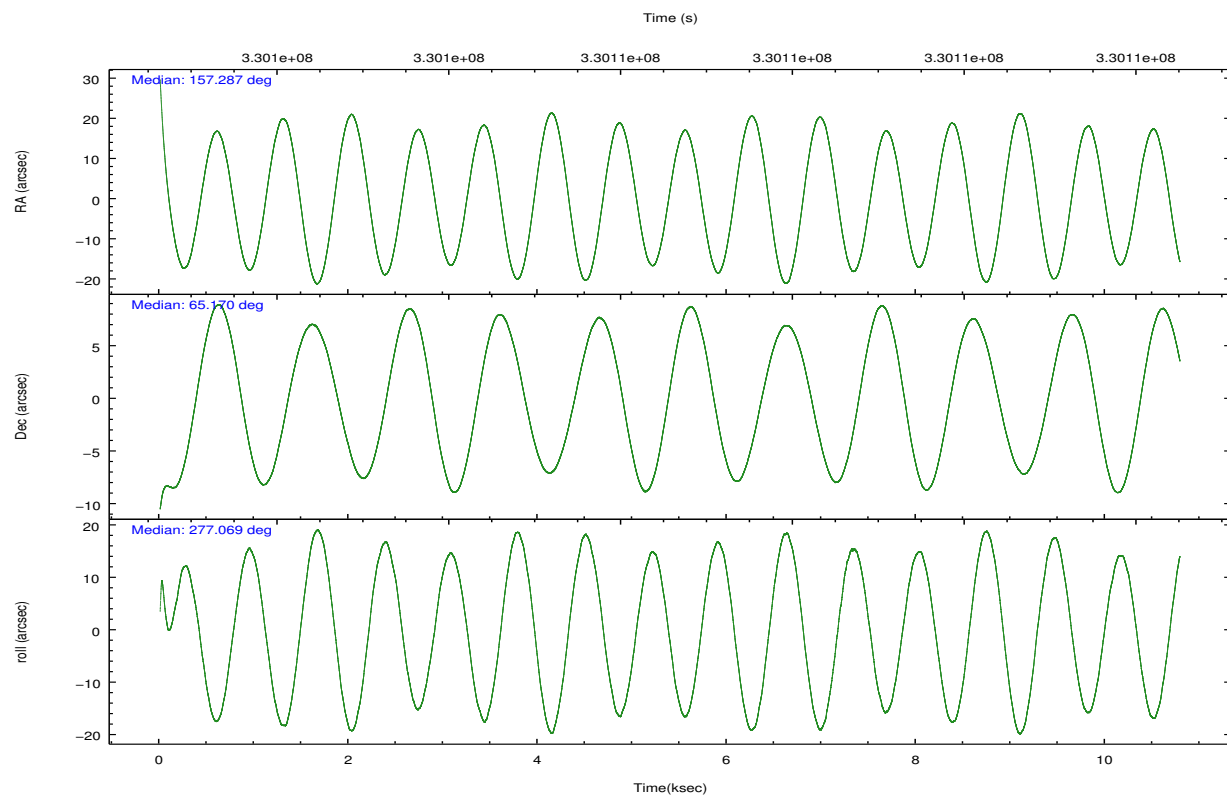


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	157.246812	157.2868170803052	CCD I2 on	O1	Y
[deg] Pointing Dec	65.191310	65.16971808905947	CCD I3 on	Y	Y
[deg] Pointing Roll	276.958932	277.0792916160204	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	330101383.184000	330100351.949	CCD S5 on	N	N
Observation start date	2008-06-17T14:48:38	2008-06-17T14:32:31	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	330111983.184000	330113012.74962	On-chip summing requested	N	N
Observation end date	2008-06-17T17:45:18	2008-06-17T18:03:32	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect



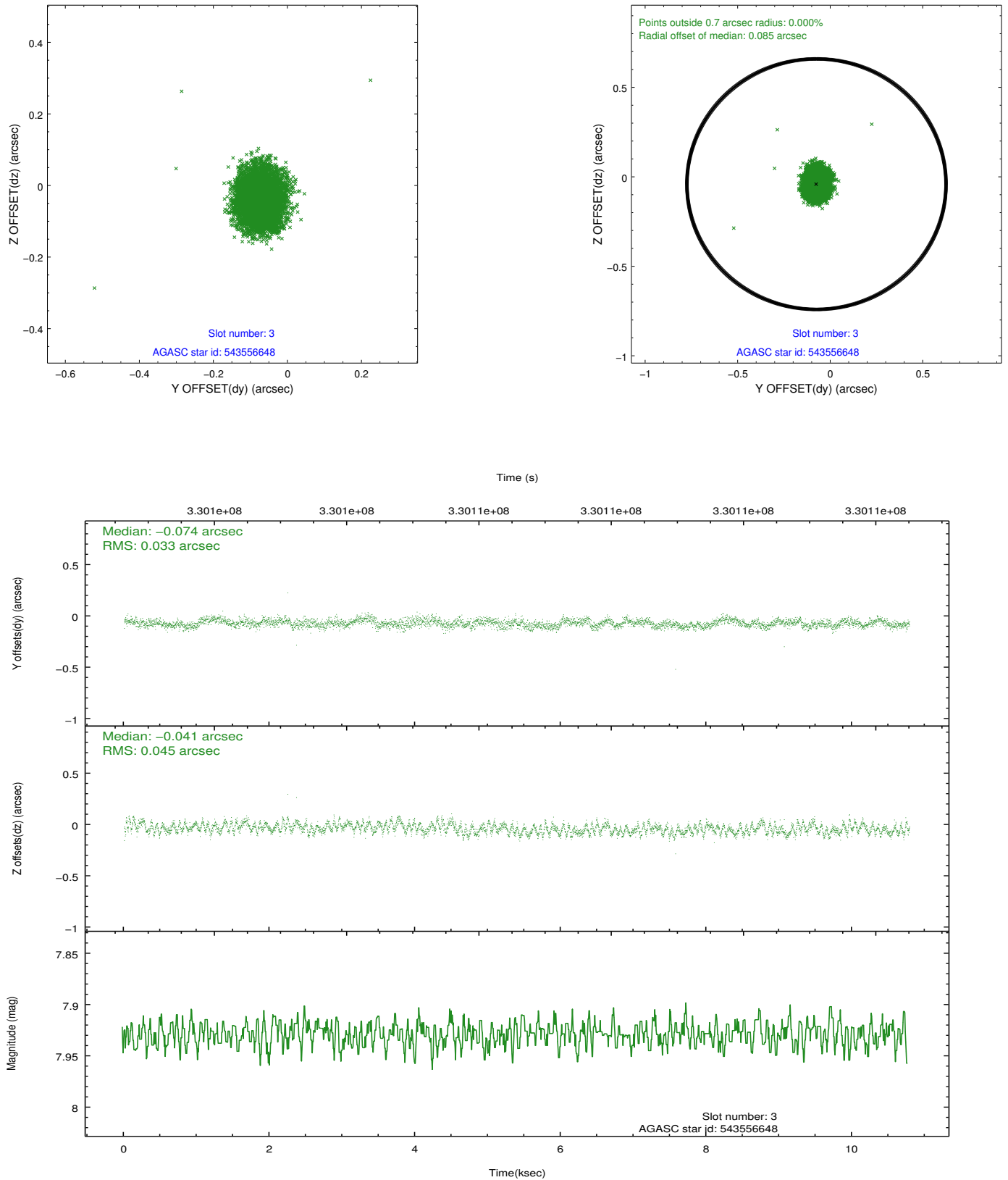


### Slot Statistics

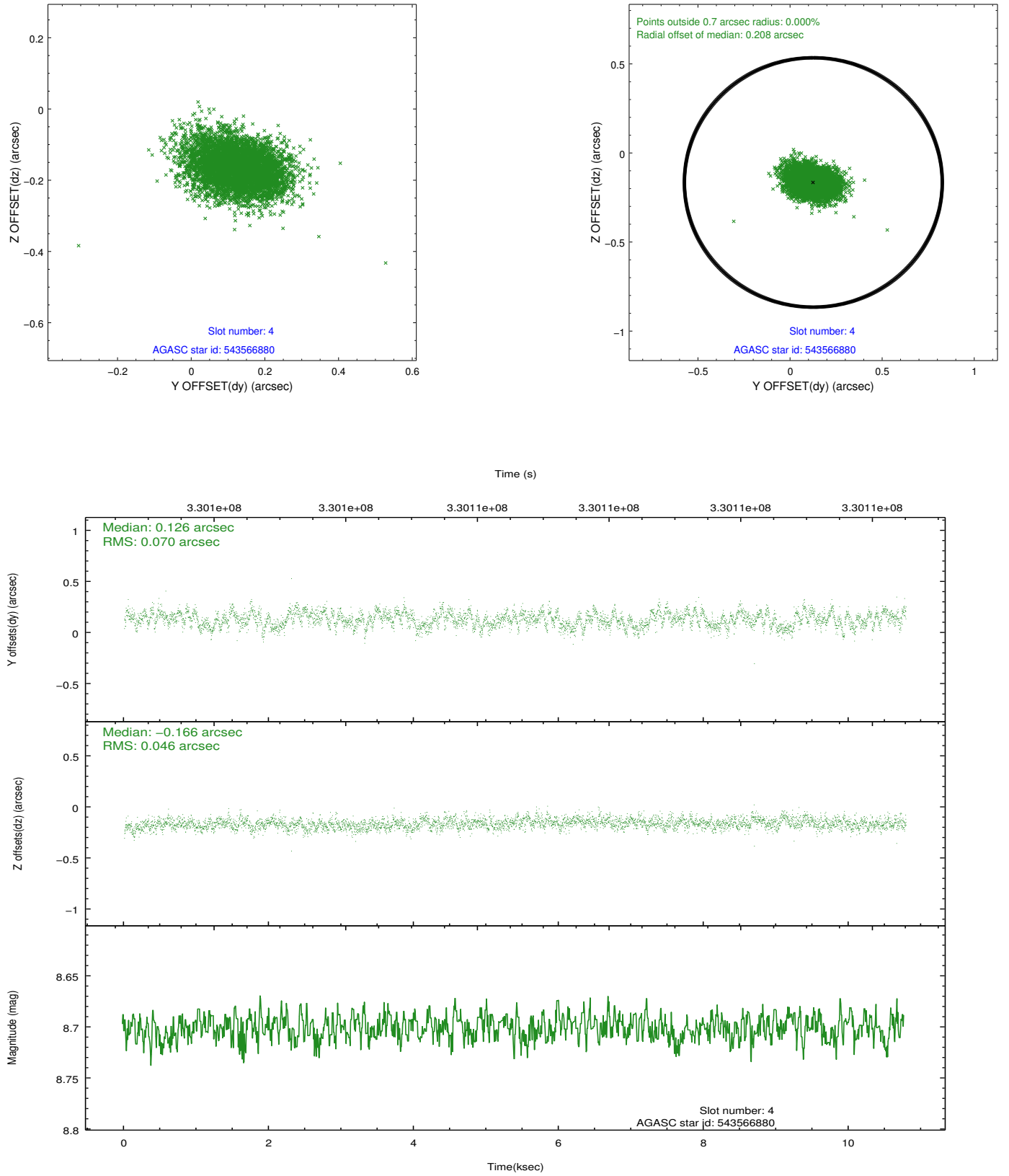
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.95	2631	0.047	-0.053	0.013	0.020	0.000000	0.000000	928.23	-1732.89
1	FID	ACIS-S-5	6.99	2631	-0.113	0.021	0.013	0.019	0.000000	0.000000	-1820.66	164.24
2	FID	ACIS-S-6	7.09	2630	0.046	0.042	0.016	0.022	0.000000	0.000000	393.27	808.76
3	GUIDE	543556648	7.93	5260	-0.074	-0.041	0.060	0.094	158.874274	64.856635	1465.67	2328.91
4	GUIDE	543566880	8.70	5256	0.126	-0.166	0.088	0.147	156.010958	64.487231	2266.45	-2206.26
5	GUIDE	543953784	8.70	5261	0.007	0.036	0.077	0.124	158.521089	65.005629	879.02	1844.88
6	GUIDE	543958672	8.12	5262	-0.016	0.042	0.061	0.099	158.244470	65.452847	-765.49	1596.54
7	GUIDE	543559272	7.80	5261	-0.042	0.126	0.066	0.104	155.716621	64.958222	522.99	-2411.99

## 2.4 Star Slots

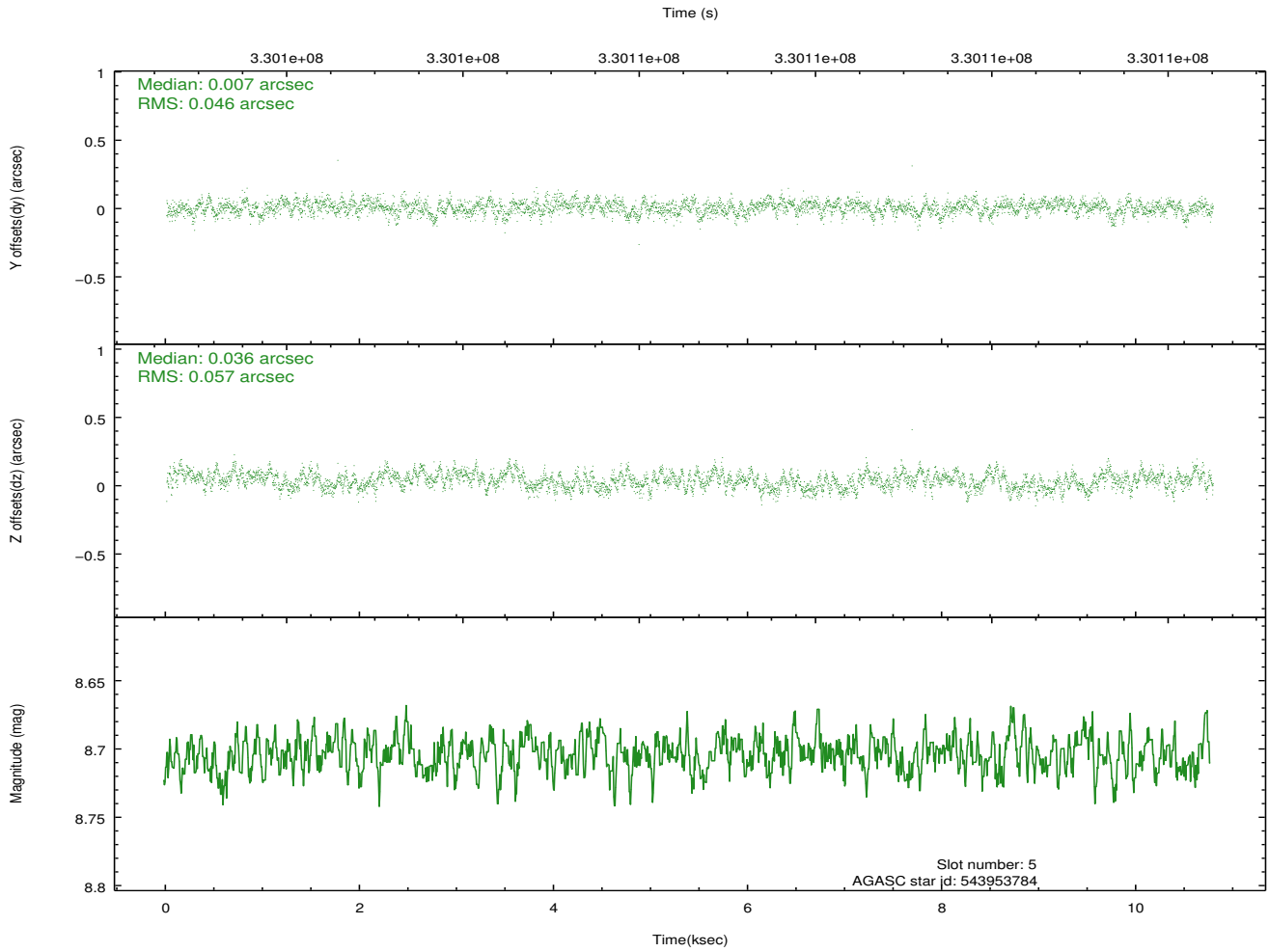
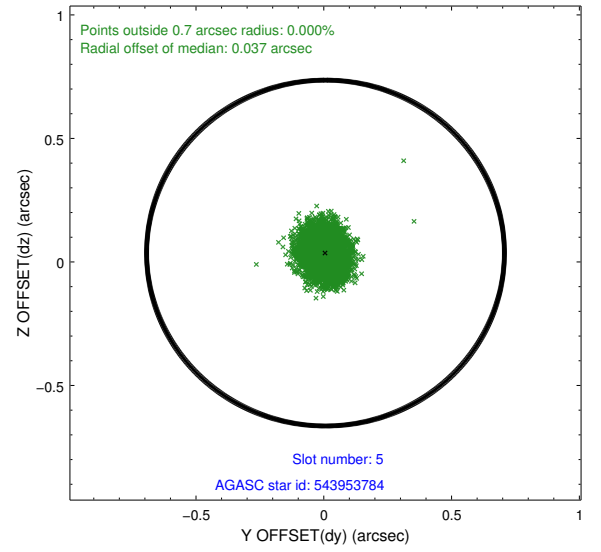
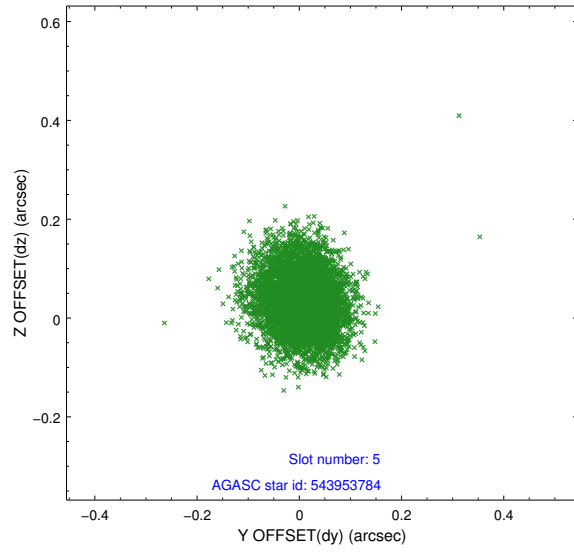
### 2.4.1 Slot 3



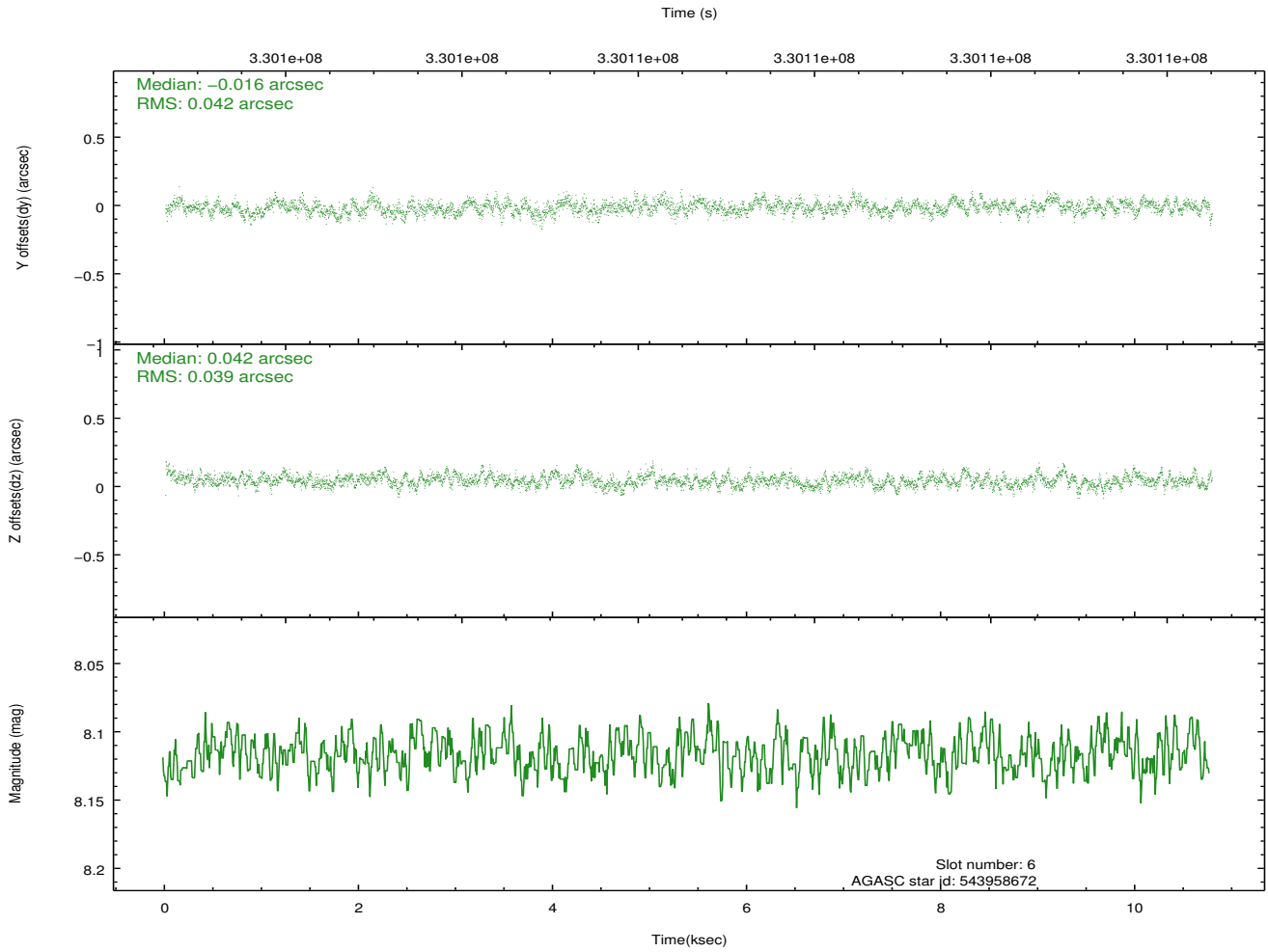
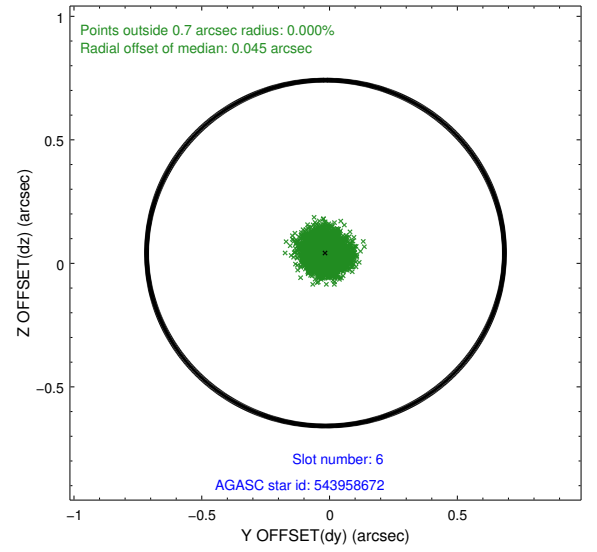
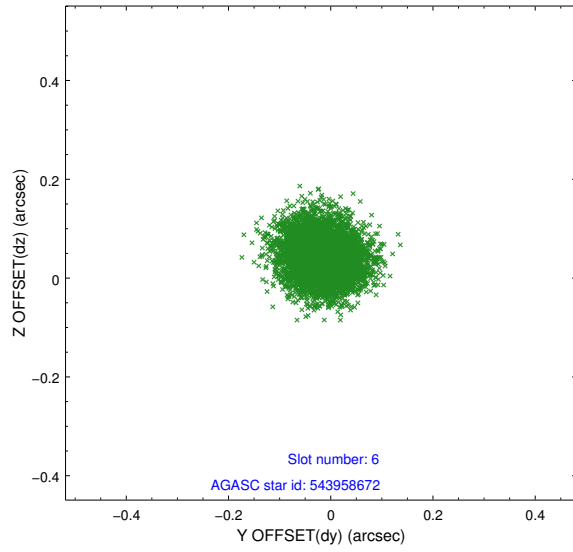
## 2.4.2 Slot 4



### 2.4.3 Slot 5

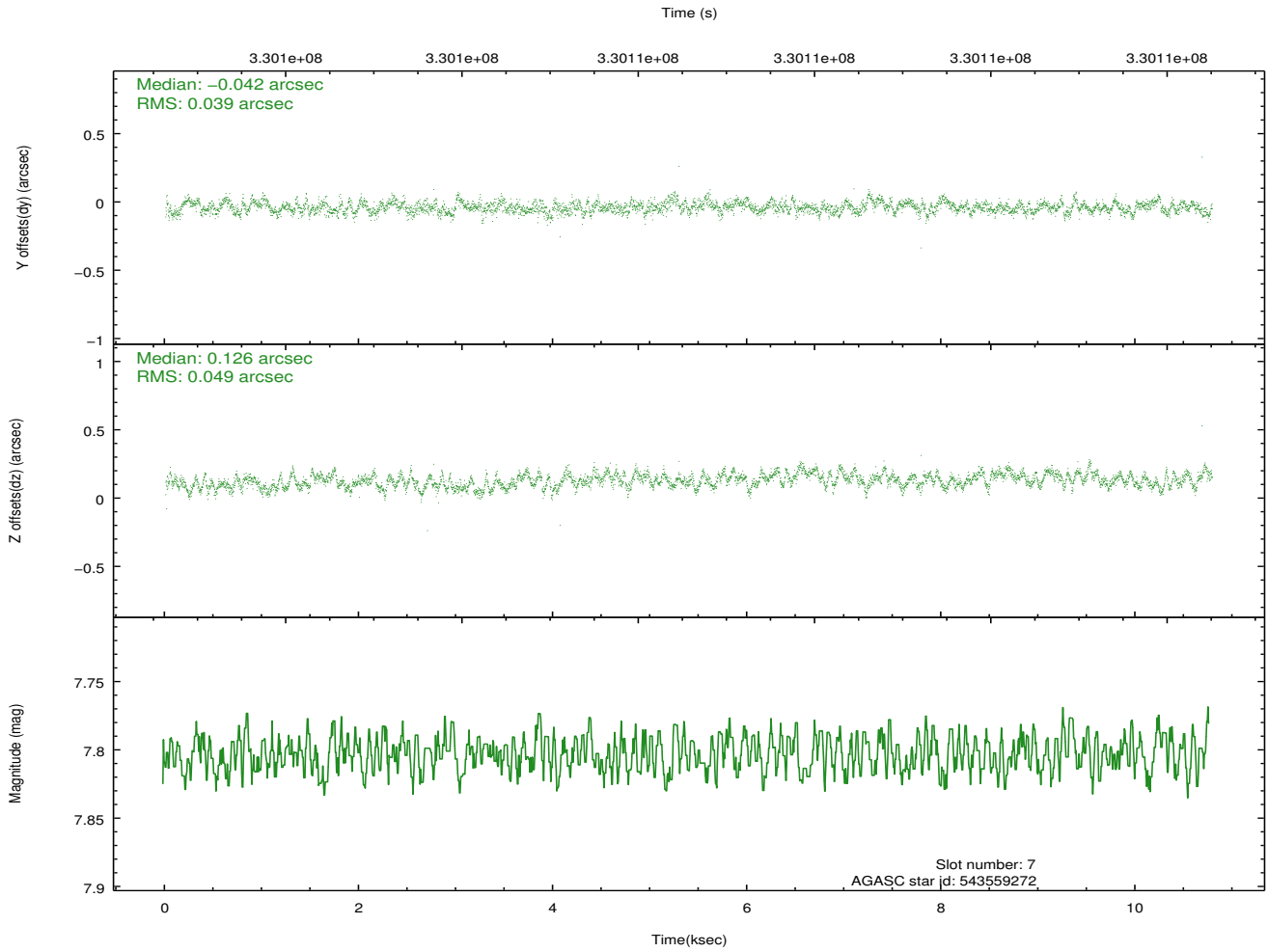
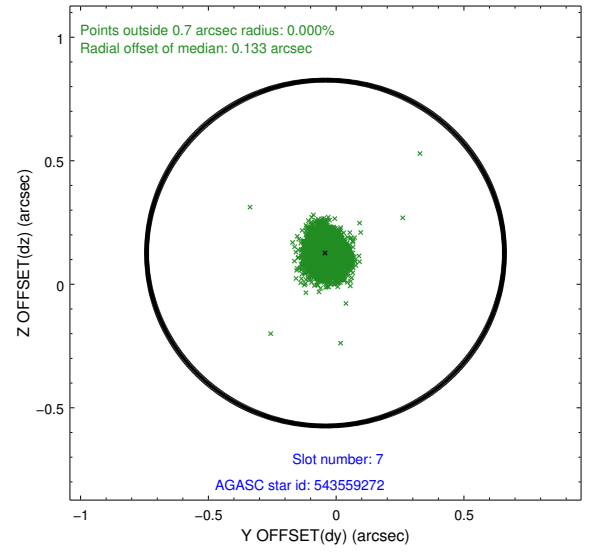
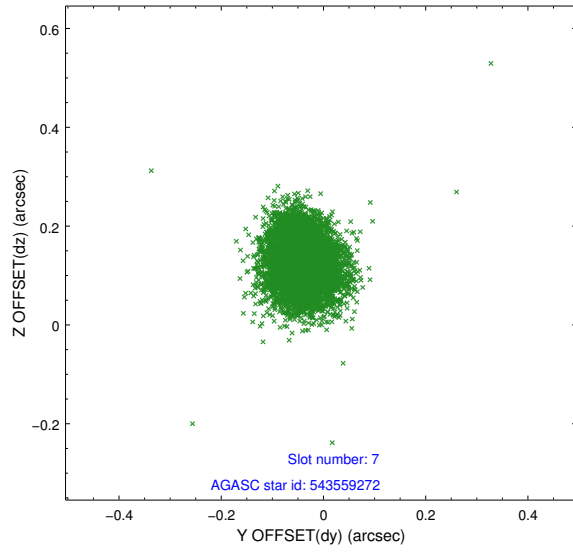


## 2.4.4 Slot 6



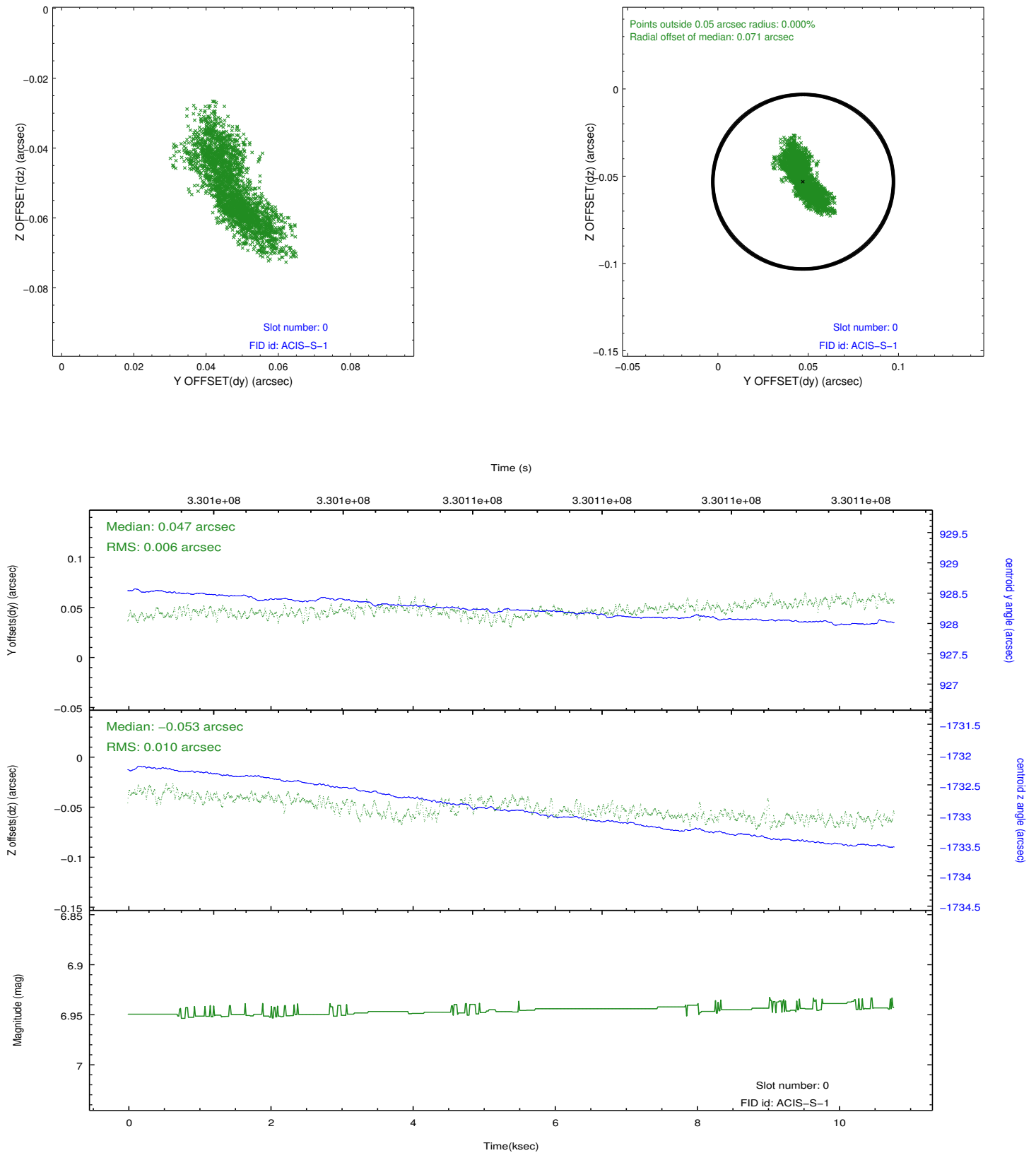


## 2.4.5 Slot 7

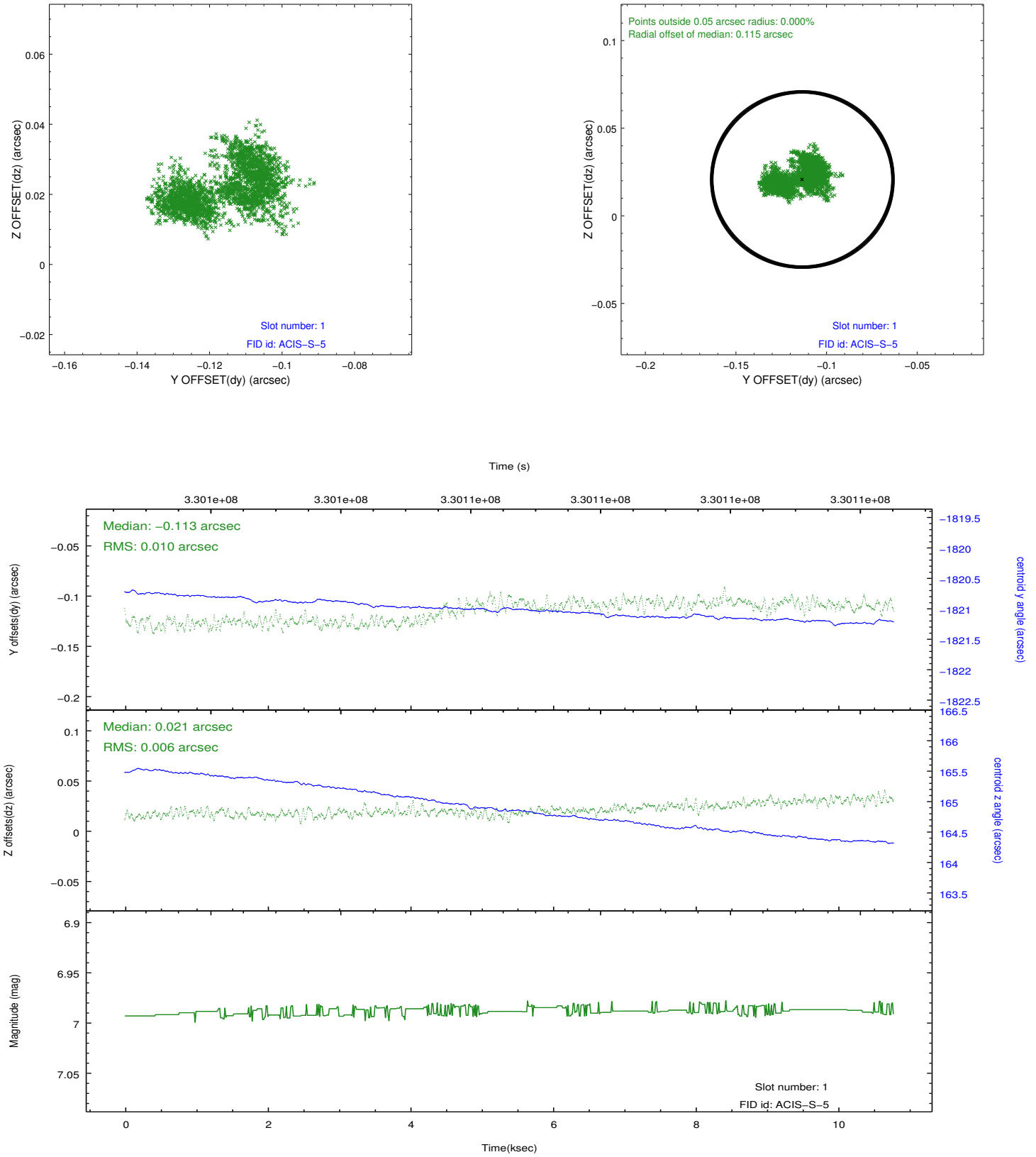


## 2.5 FID Slots

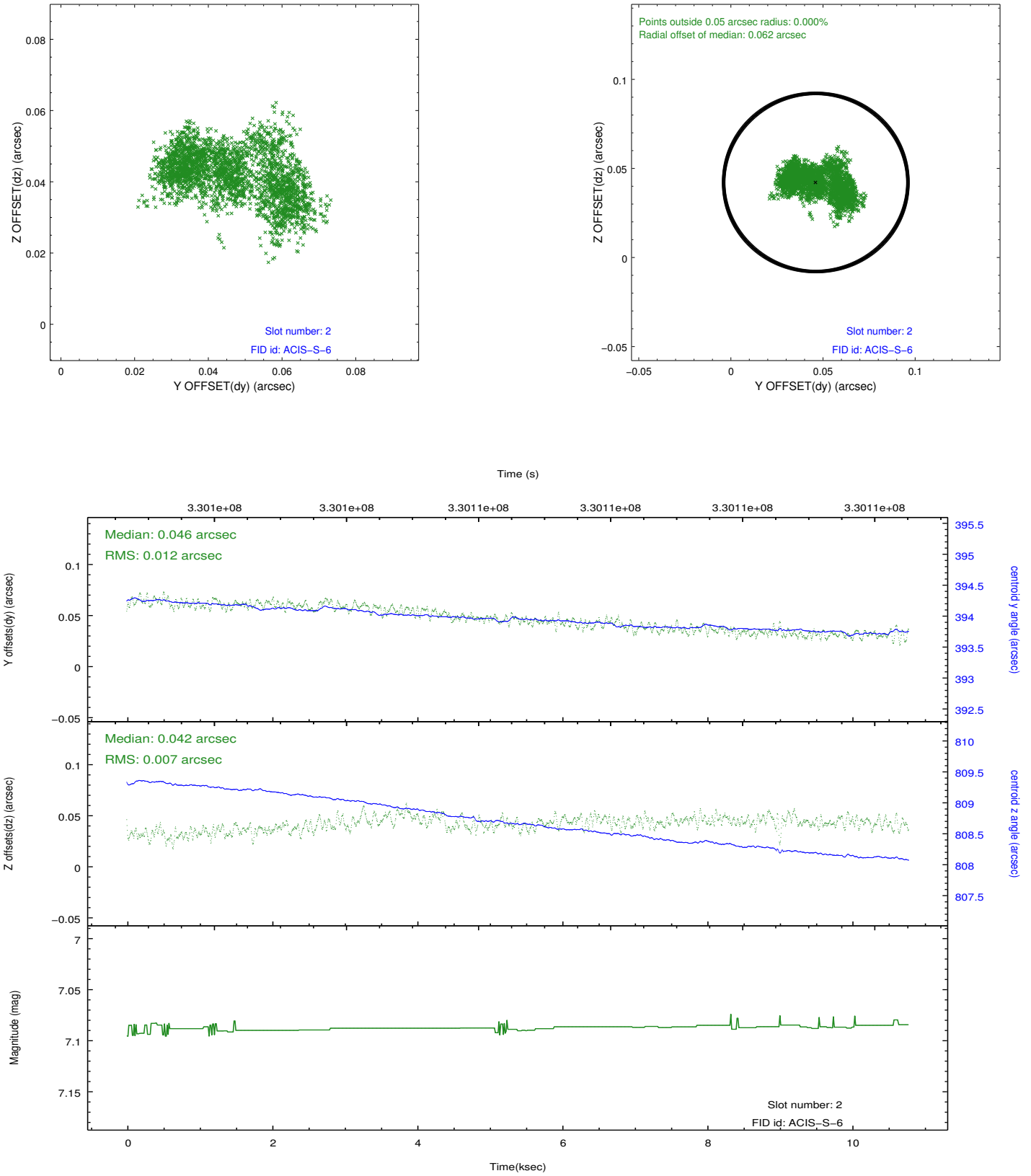
### 2.5.1 Slot 0



## 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)	2012.05.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.7787

### A.2 Comments