

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3335 - L2 Version 3  
Chandra X-Ray Center

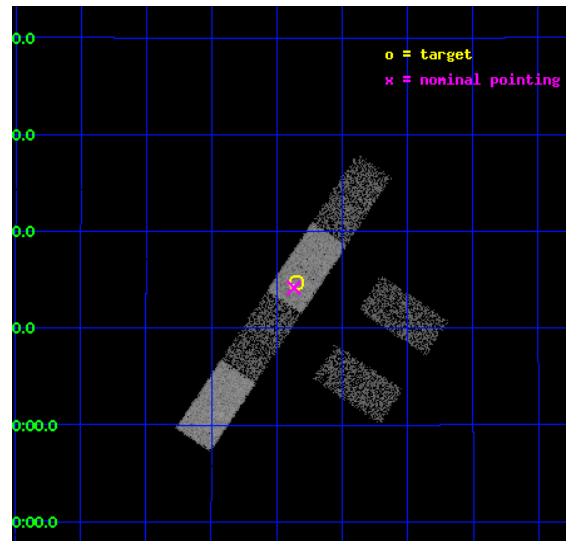
L2 Processing Date : Oct 15 2012

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# 1 Front

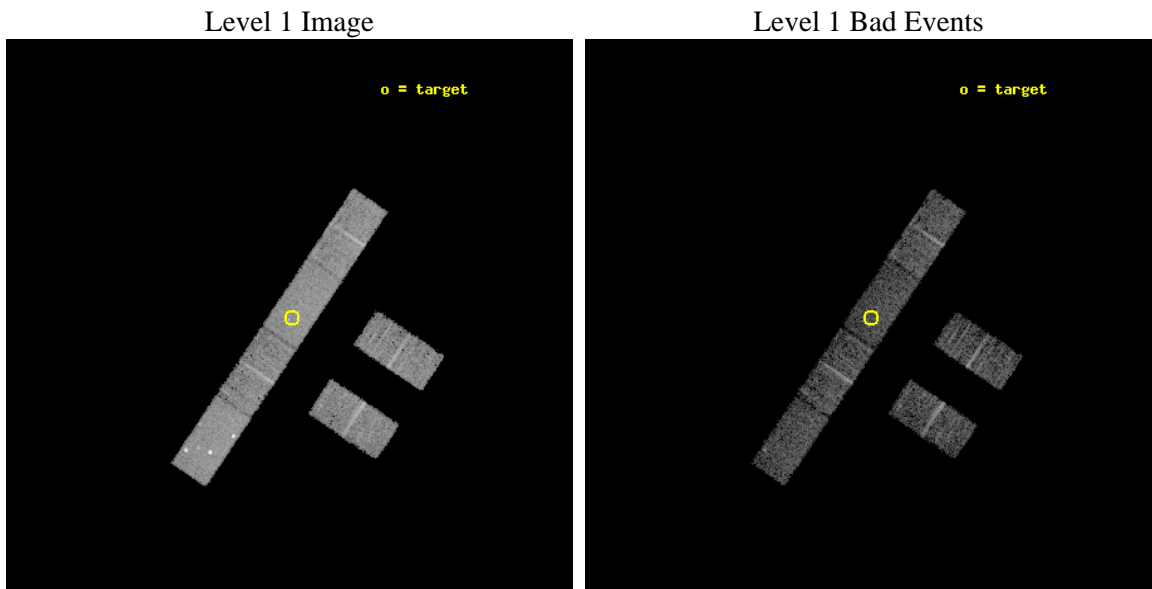
seq_num	900174	Sequence number
obs_id	3335	Observation id
title	THE SHEEP SURVEY: WHAT KIND OF OBJECTS MAKE THE X-RAY BACKGROUND?	&#160
observer	Prof Kirpal Nandra	Principal investigator
object	AX J1531.8+2414	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	232.962917	Observer's specified target RA [deg]
dec_targ	24.245278	Observer's specified target Dec [deg]
ra_nom	232.96725191513	Nominal RA [deg]
dec_nom	24.236314302291	Nominal Dec [deg]
roll_nom	303.81145010906	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5583.6000369787	Sum of GTIs [s]
livetime	5459.1318312268	Livetime [s]
ontime2	5583.6000369787	Sum of GTIs [s]
ontime3	5583.6000369787	Sum of GTIs [s]
ontime5	5583.6000369787	Sum of GTIs [s]
ontime6	5583.6000369787	Sum of GTIs [s]
ontime7	5583.6000369787	Sum of GTIs [s]
ontime8	5583.6000369787	Sum of GTIs [s]
l2events	30917	Number of level 2 events



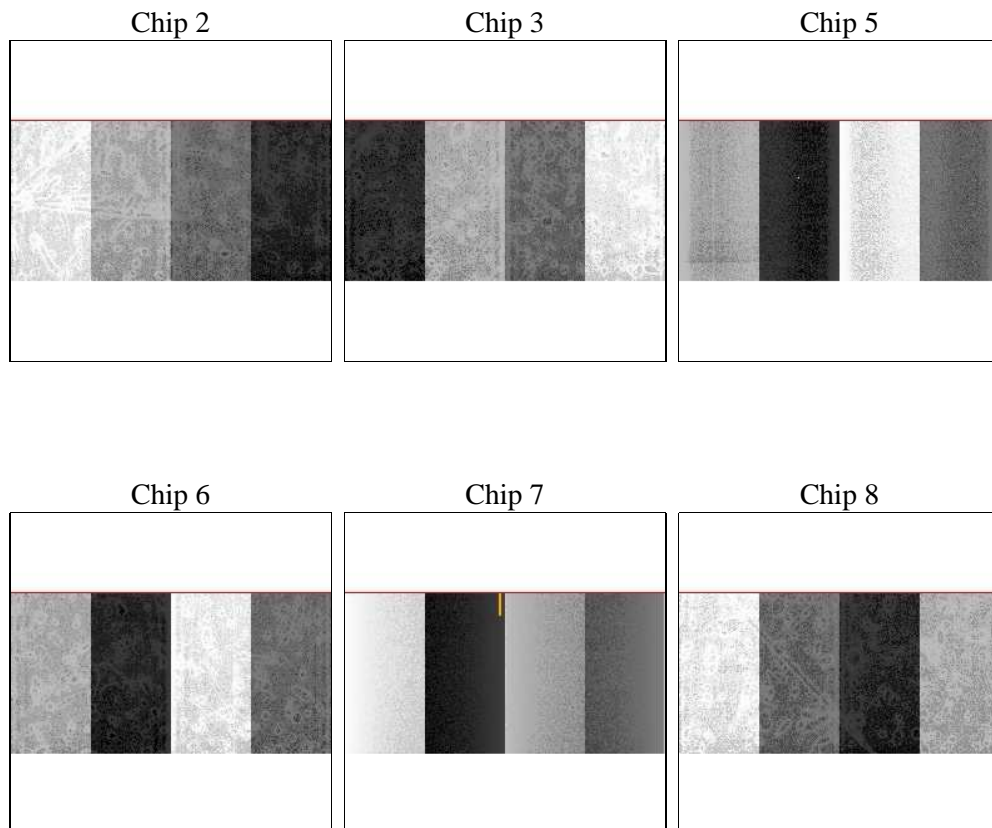
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5583.6000369787	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	5583.6000369787	Sum of GTIs [s]
date	2012-10-15T12:47:43	Date and time of file creation	ontime3	5583.6000369787	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5583.6000369787	Sum of GTIs [s]
			ontime6	5583.6000369787	Sum of GTIs [s]
			ontime7	5583.6000369787	Sum of GTIs [s]
			ontime8	5583.6000369787	Sum of GTIs [s]
			l1events	144747	Number of level 1 events

### 2.1.4 Events

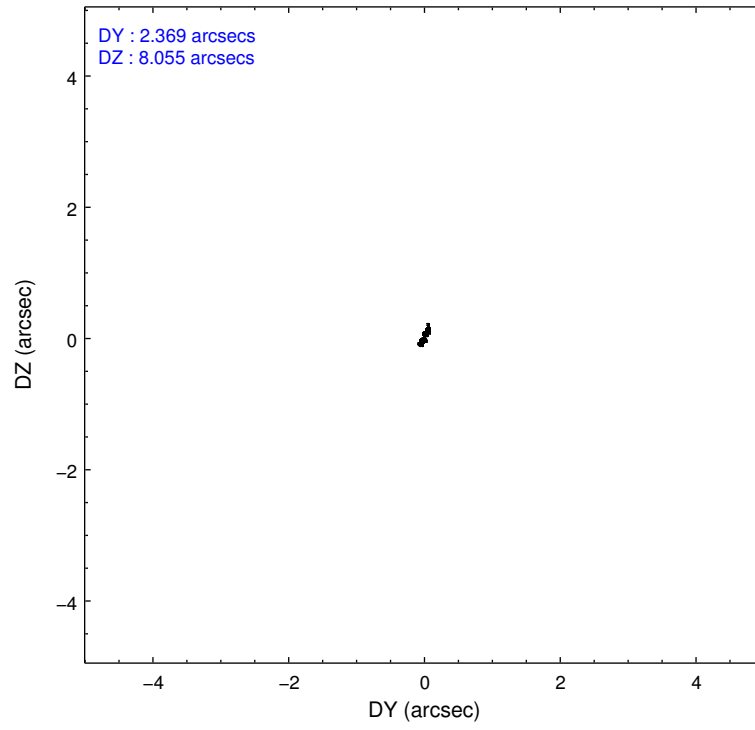
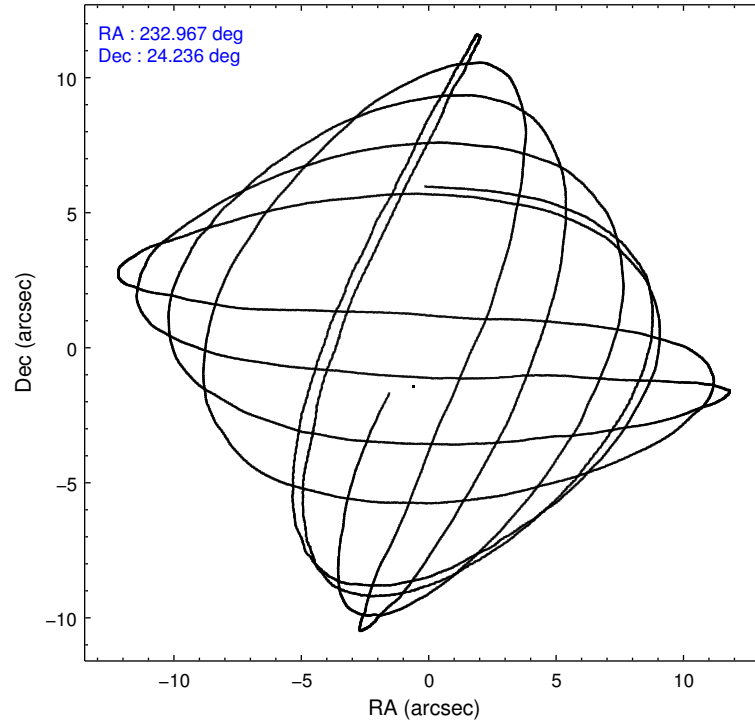
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	19893	20189	32773	20138	25888	25866	grade 0 events	996	845	5944	862	1257	1607
rejected events	17542	18098	14986	17839	14681	20787		5%	4%	18%	4%	4%	6%
rejected %	88%	89%	45%	88%	56%	80%	grade 1 events	9	10	160	6	21	8
								0%	0%	0%	0%	0%	0%
							grade 2 events	455	387	4109	462	2357	1082
								2%	1%	12%	2%	9%	4%
							grade 3 events	279	282	704	257	1079	503
								1%	1%	2%	1%	4%	1%
							grade 4 events	265	247	634	256	1085	543
								1%	1%	1%	1%	4%	2%
							grade 5 events	739	757	2215	882	2395	1031
								3%	3%	6%	4%	9%	3%
							grade 6 events	369	341	6458	470	5464	1348
								1%	1%	19%	2%	21%	5%
							grade 7 events	16781	17320	12549	16943	12230	19744
								84%	85%	38%	84%	47%	76%

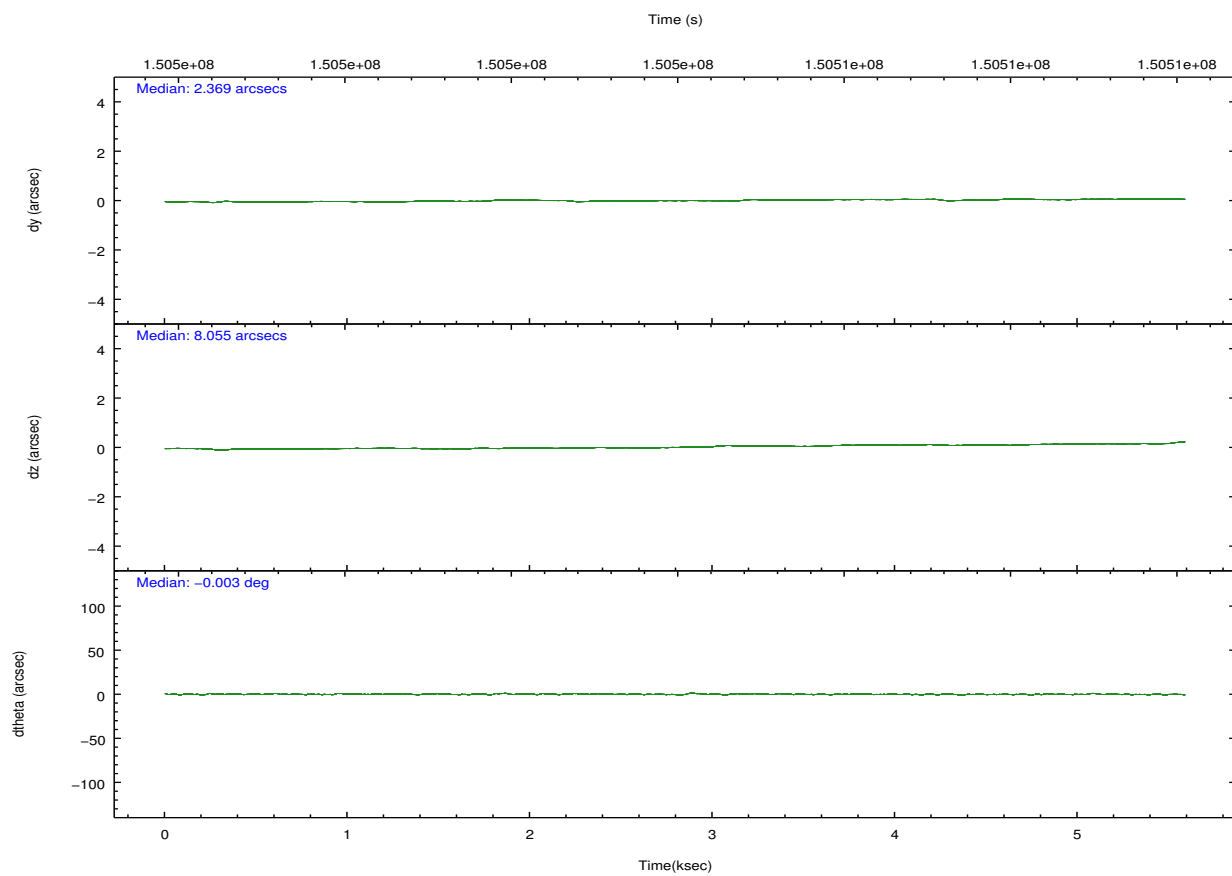
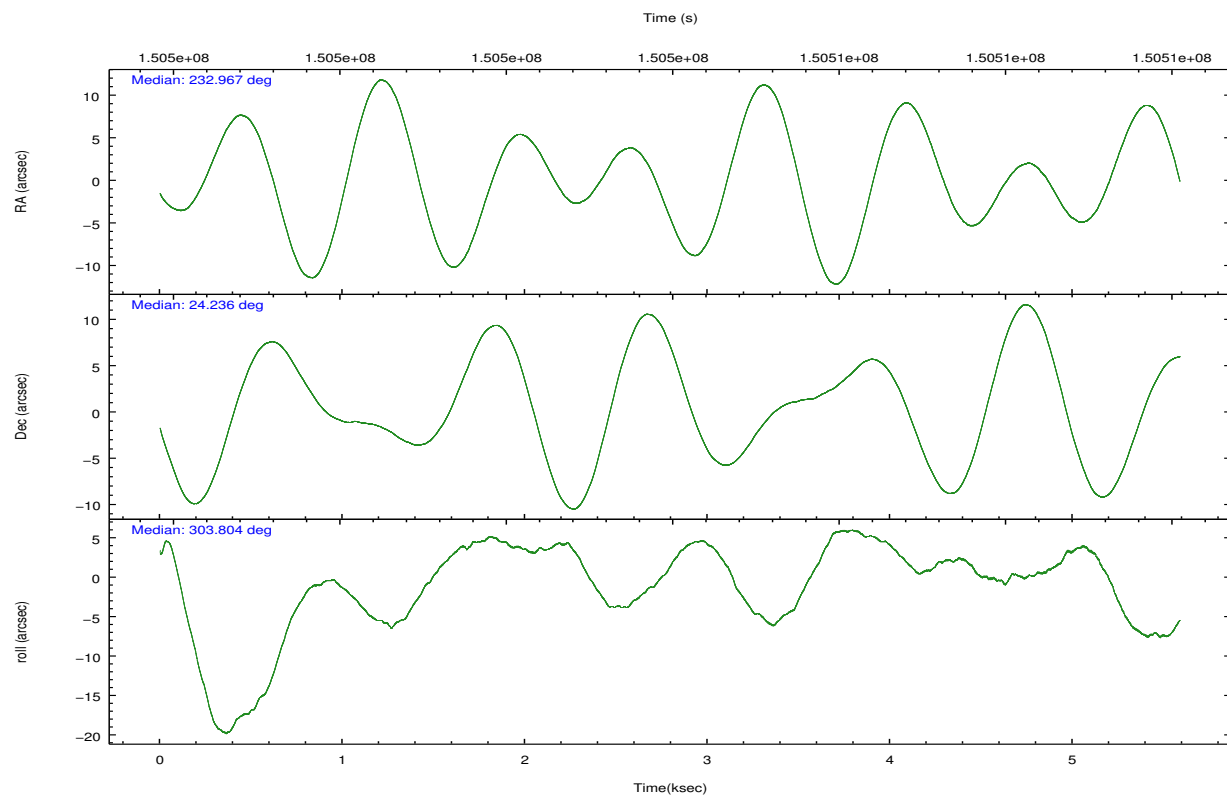


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	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
[deg] Pointing RA	232.940204	232.9672519151313	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	24.248102	24.23631430229107	Subarray start row	257	257
[deg] Pointing Roll	303.665927	303.8114501090606	Subarray row count	512	512
[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	1.8
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	150502584.184000	150501516.56483			
Observation start date	2002-10-08T22:15:20	2002-10-08T21:58:36			
[s] Observation end time (MET)	150507784.184000	150508173.94011			
Observation end date	2002-10-08T23:42:00	2002-10-08T23:49:33			
Read mode	TIMED	TIMED			

## 2.3 Aspect



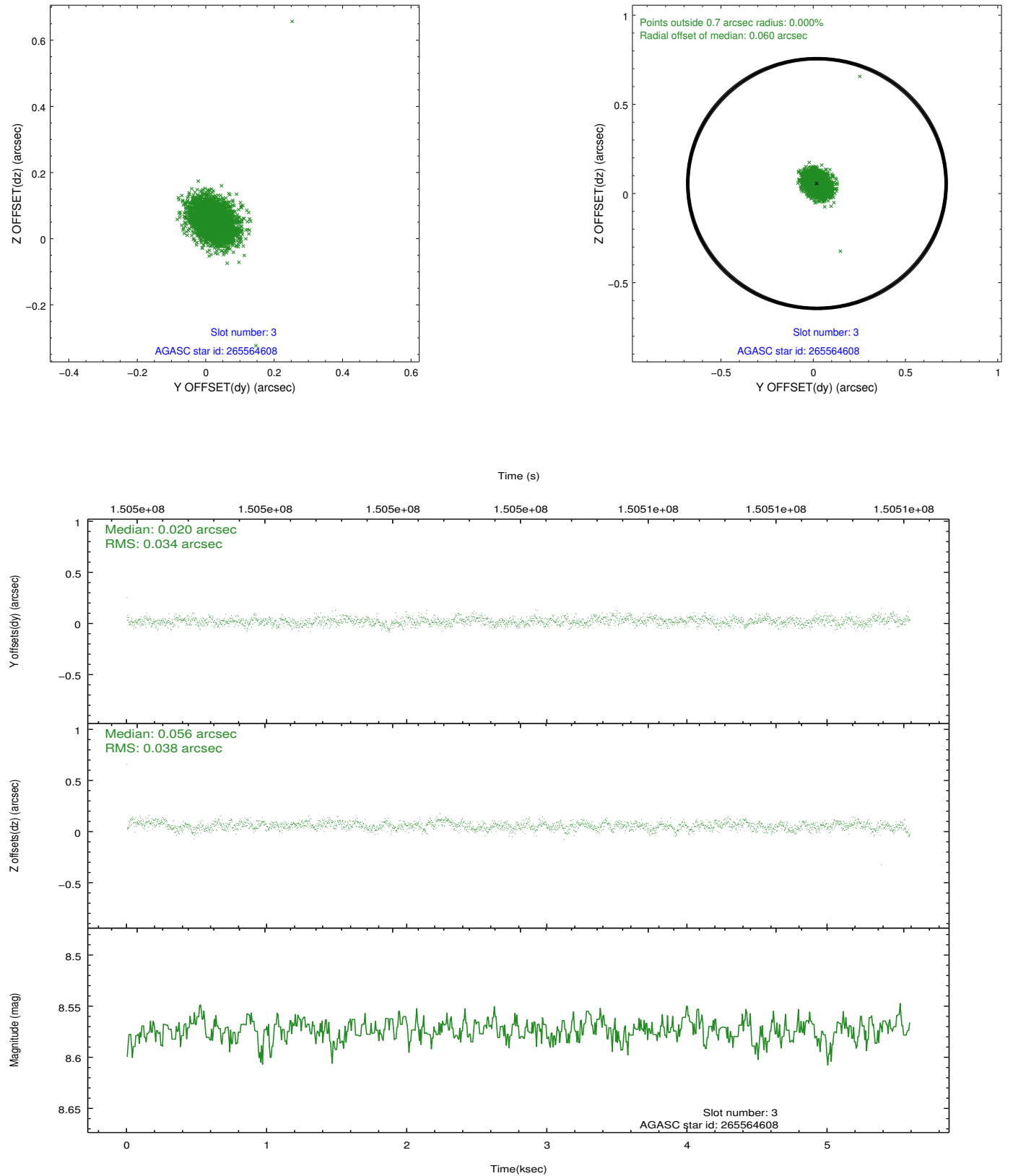


### Slot Statistics

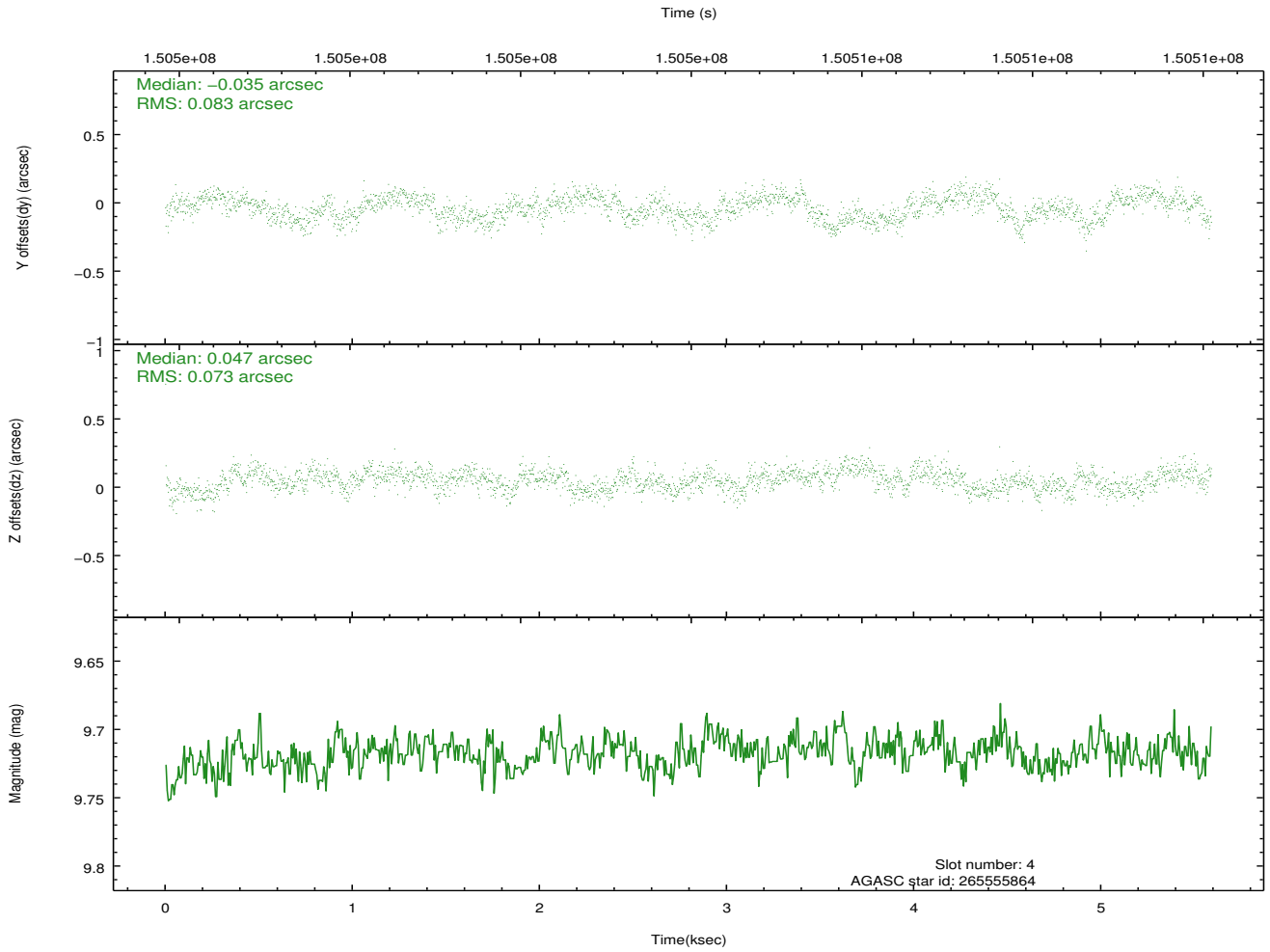
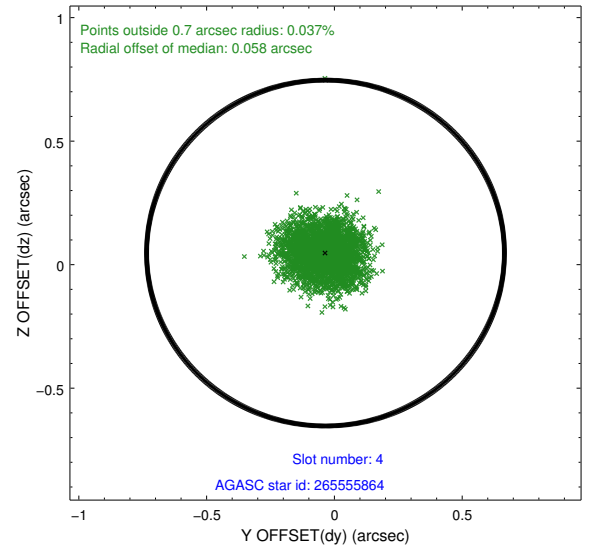
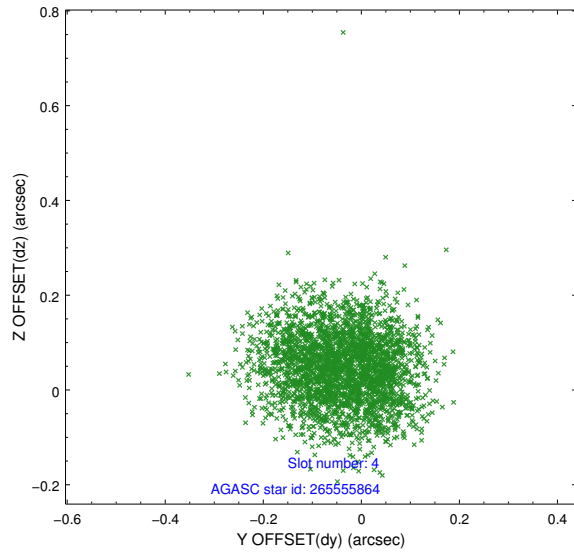
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1363	-0.009	0.004	0.007	0.011	0.000000	0.000000	-755.03	-1729.26
1	FID	ACIS-S-4	7.20	1363	-0.039	0.003	0.006	0.010	0.000000	0.000000	2157.76	178.08
2	FID	ACIS-S-5	7.24	1363	0.016	0.002	0.007	0.011	0.000000	0.000000	-1806.44	173.02
3	GUIDE	265564608	8.57	2727	0.020	0.056	0.053	0.086	233.145057	23.882493	1469.19	-167.96
4	GUIDE	265555864	9.72	2724	-0.035	0.047	0.119	0.185	233.574285	23.968561	1990.78	1180.94
5	GUIDE	265559904	10.05	2720	0.067	0.046	0.120	0.195	233.501135	24.275645	935.84	1589.58
6	GUIDE	265560536	8.06	2726	0.030	-0.129	0.068	0.113	232.543821	23.755517	751.51	-2068.62
7	GUIDE	265561672	8.43	2726	-0.078	-0.019	0.081	0.127	233.051219	23.521427	2381.21	-1145.74

## 2.4 Star Slots

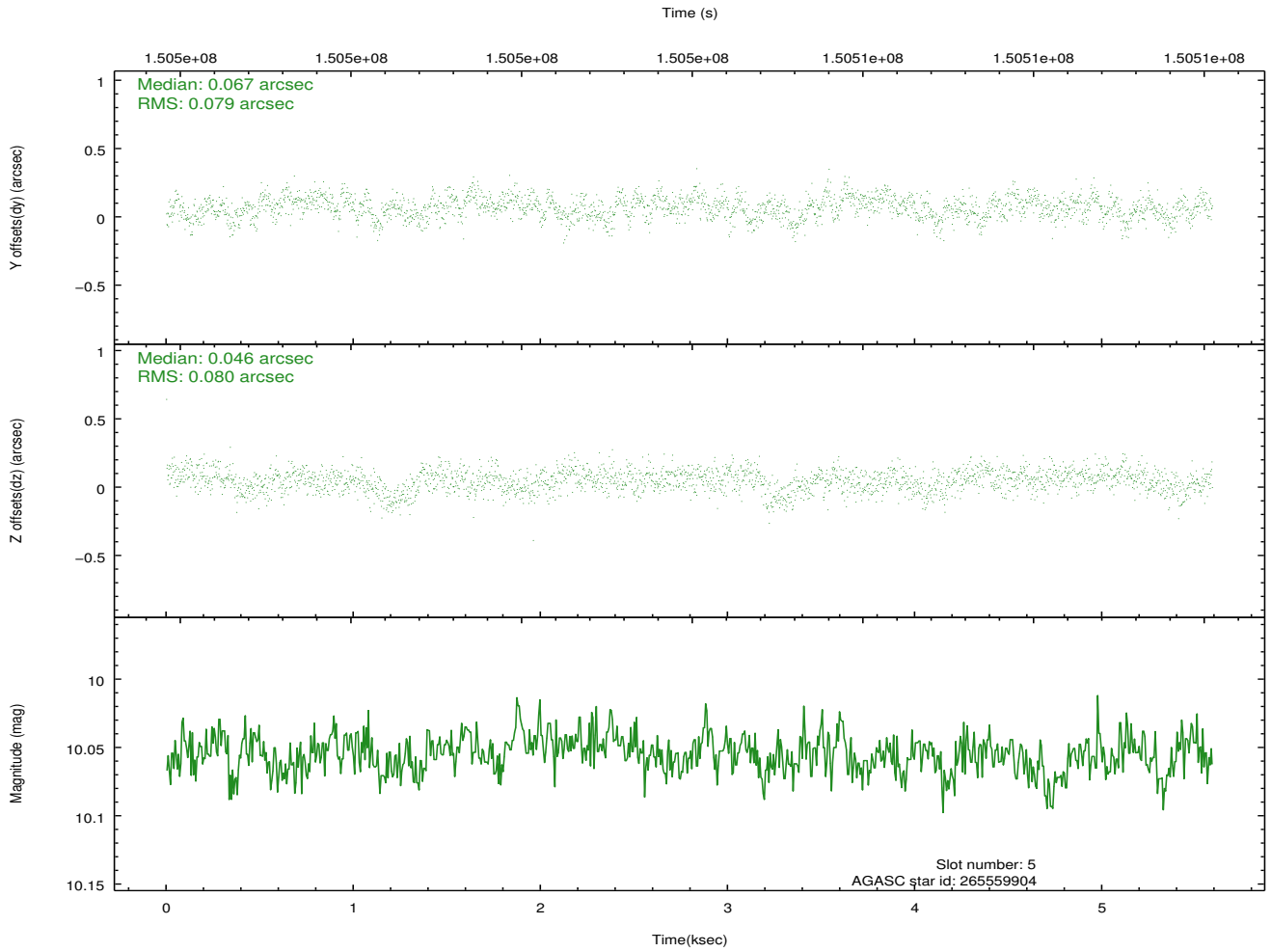
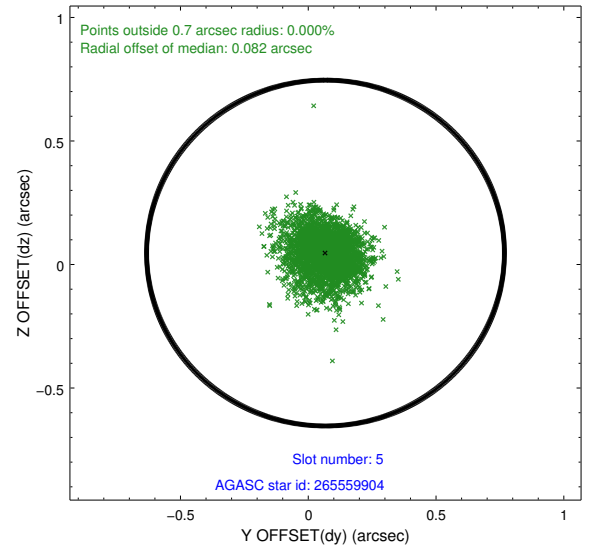
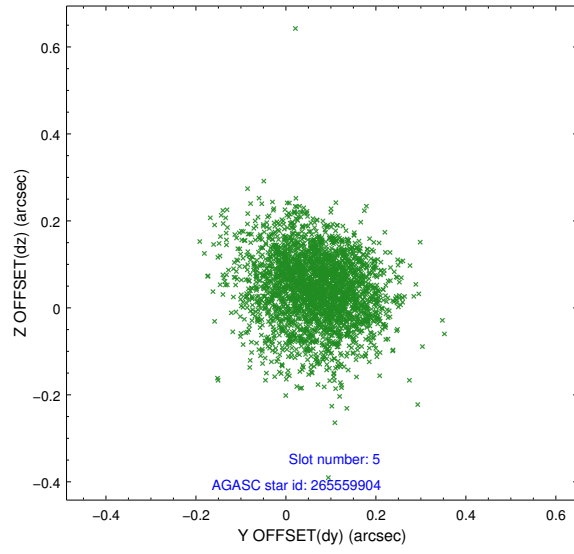
### 2.4.1 Slot 3



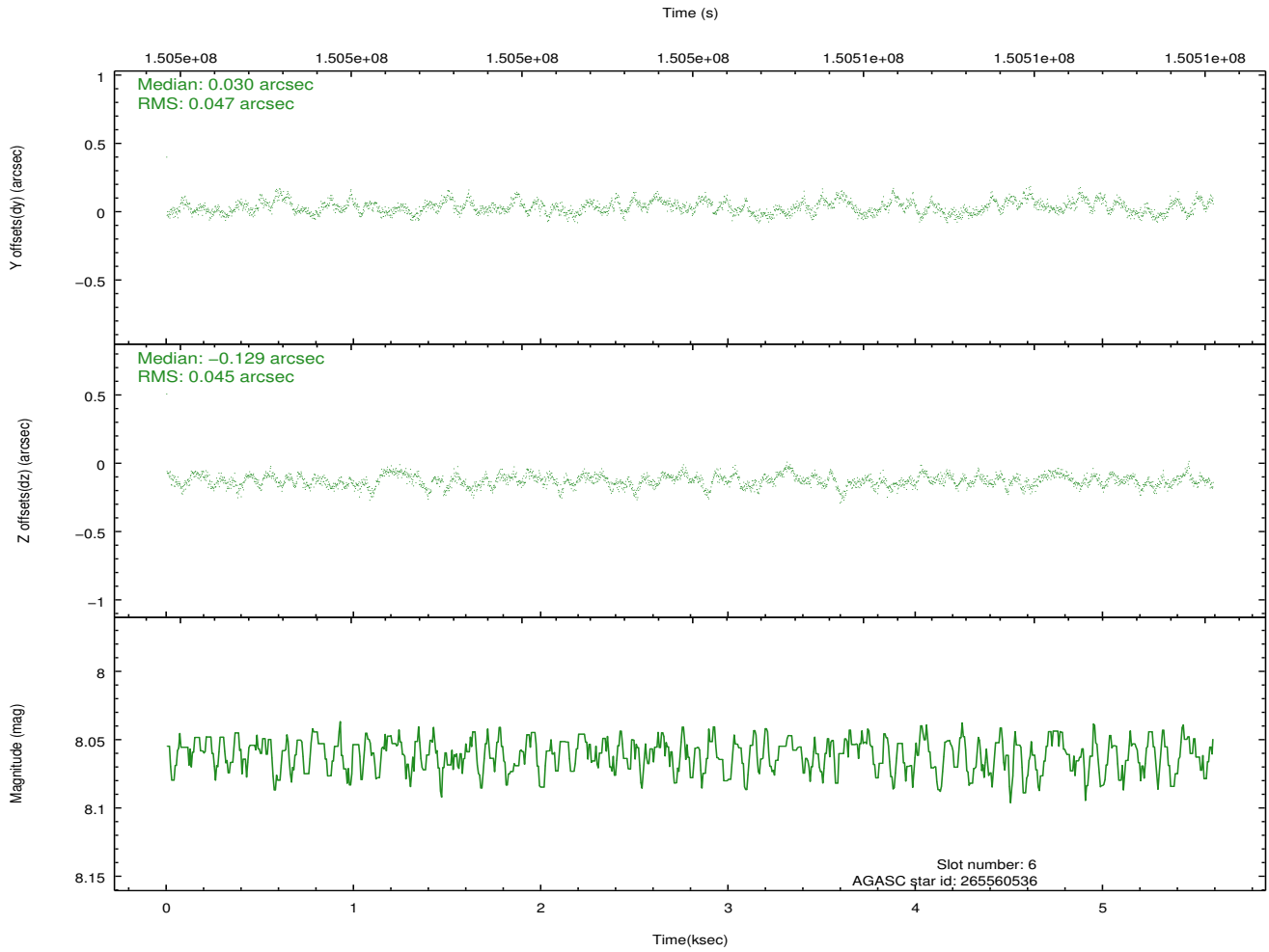
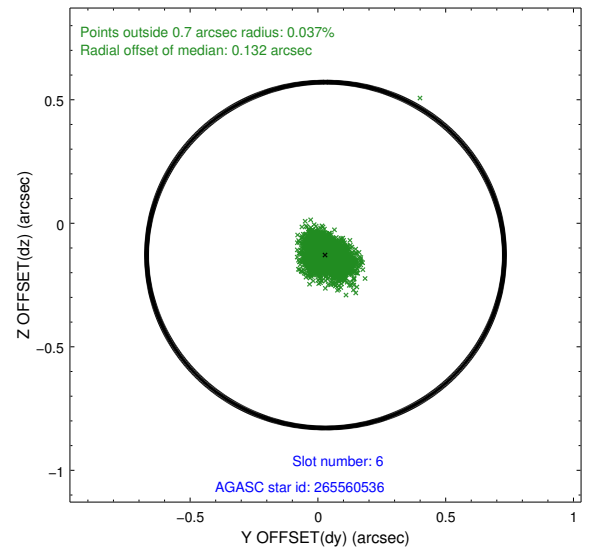
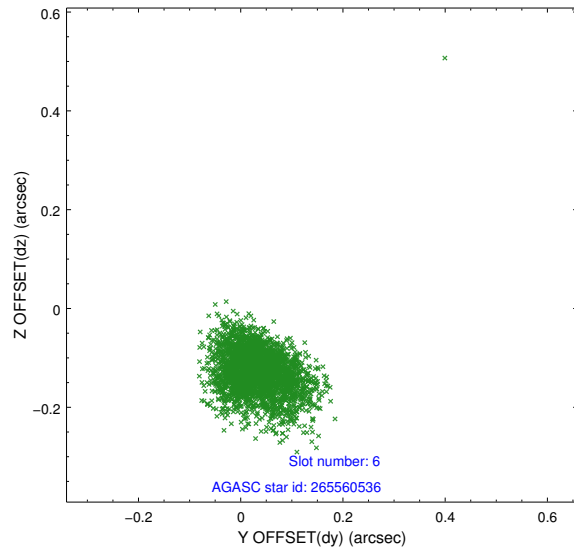
## 2.4.2 Slot 4



### 2.4.3 Slot 5

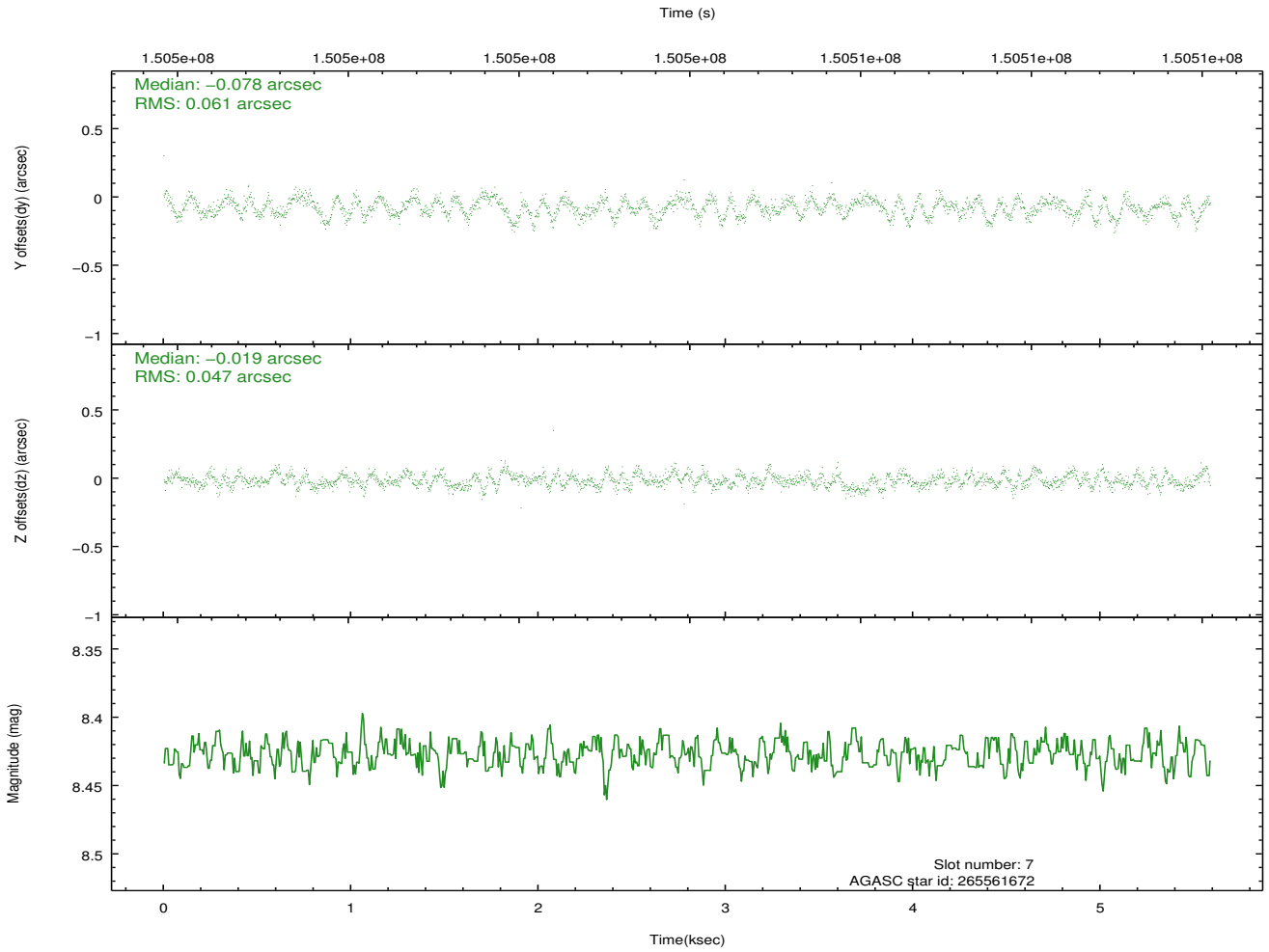
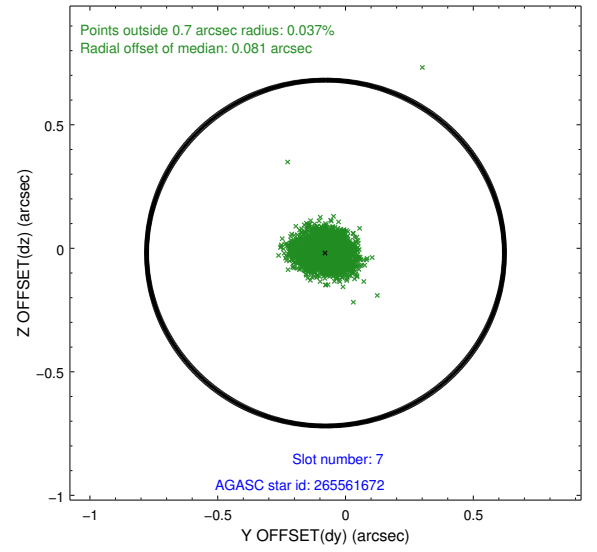
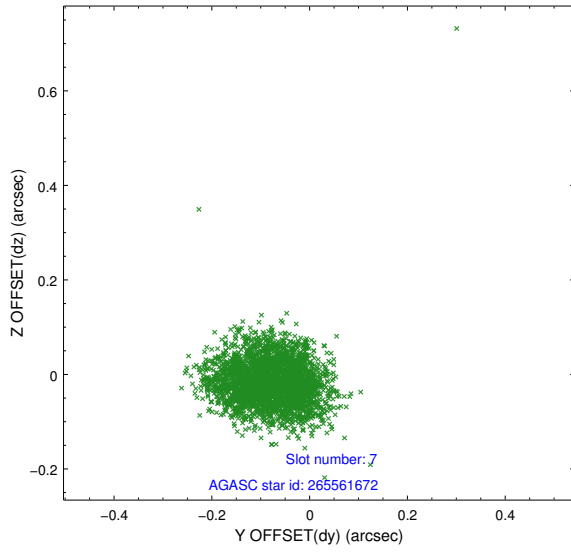


## 2.4.4 Slot 6



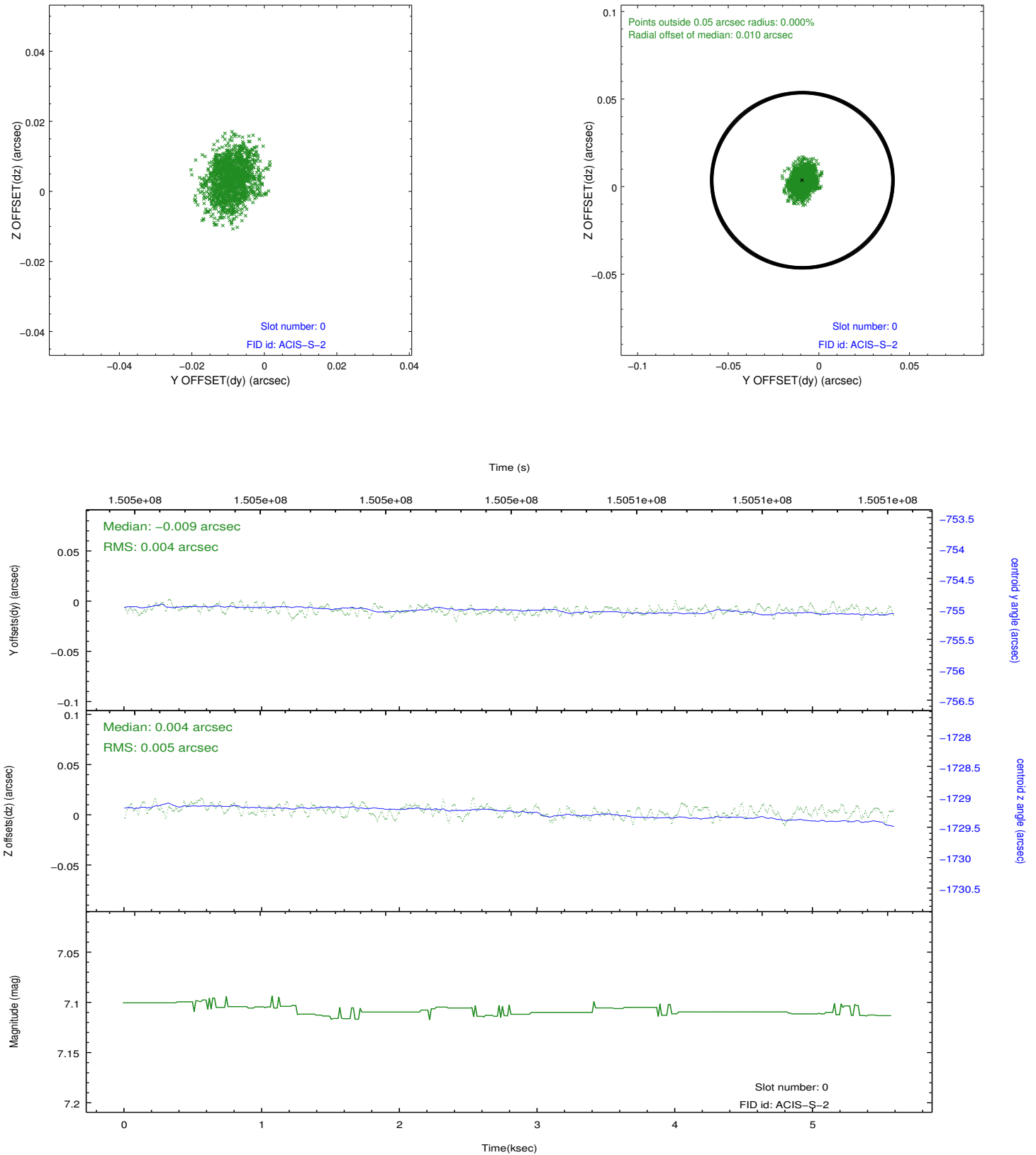


## 2.4.5 Slot 7

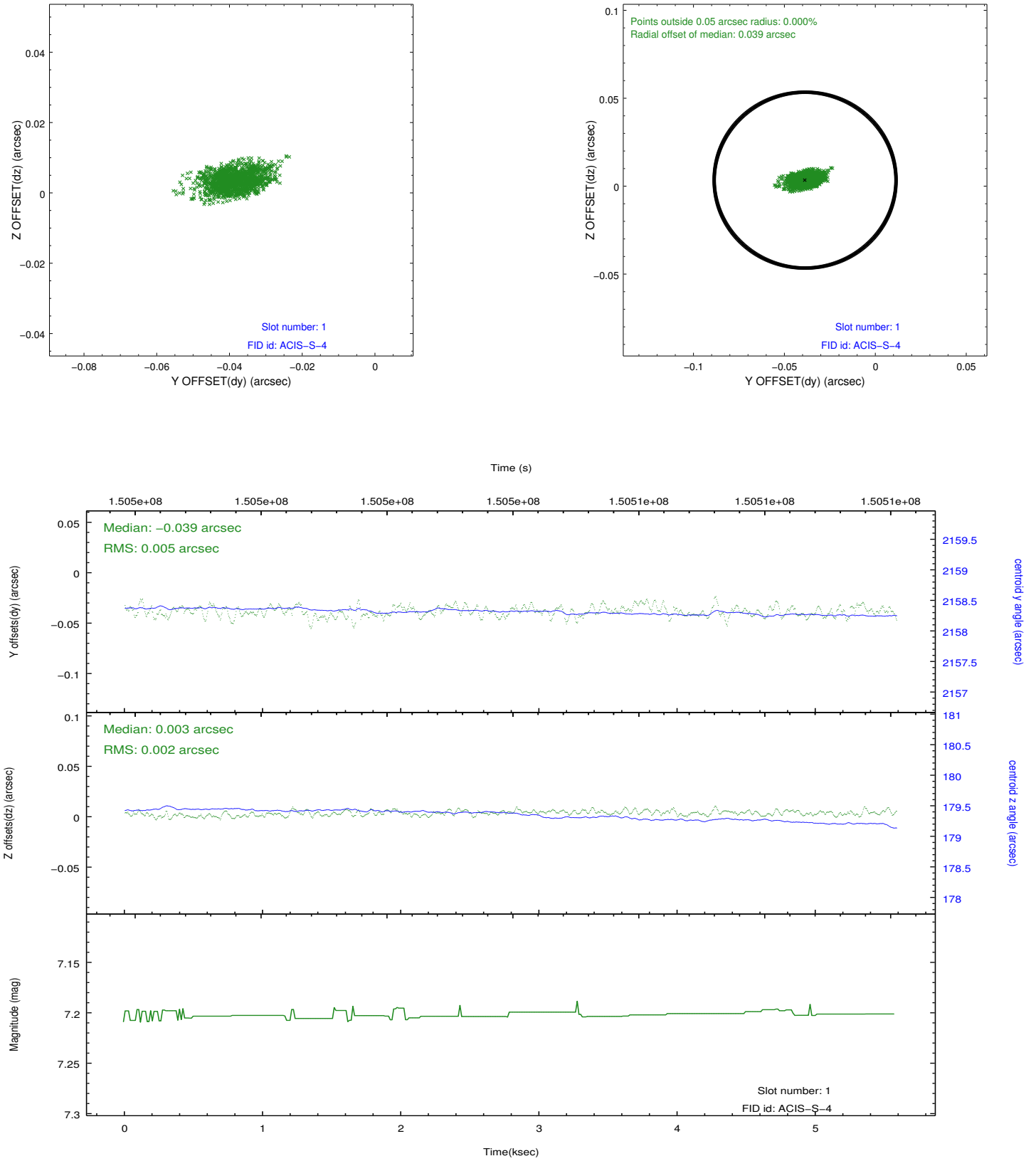


## 2.5 FID Slots

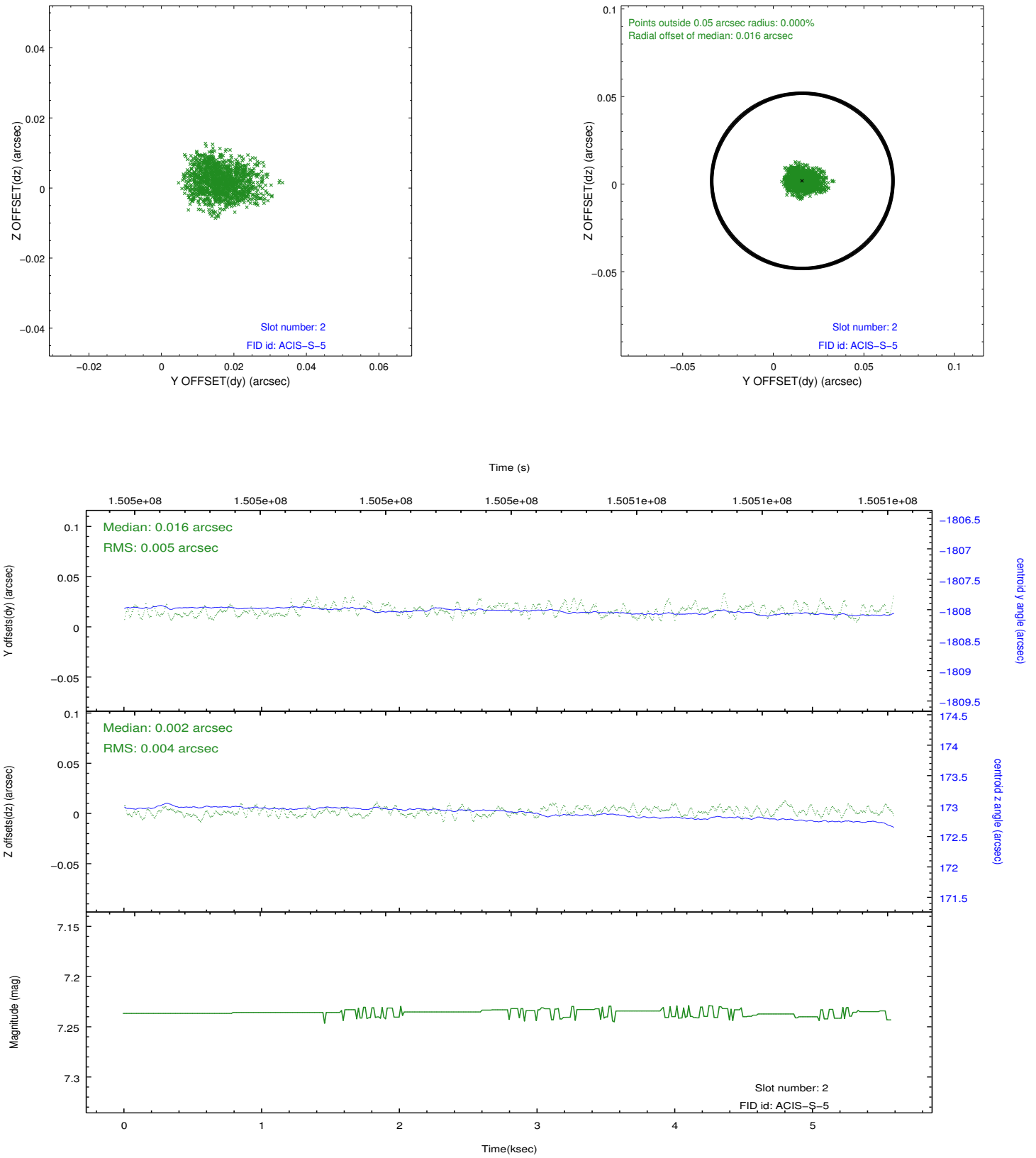
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.10.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.583

## A.2 Comments

Joint Proposal: NOAO