

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 669 - L2 Version 3  
Chandra X-Ray Center

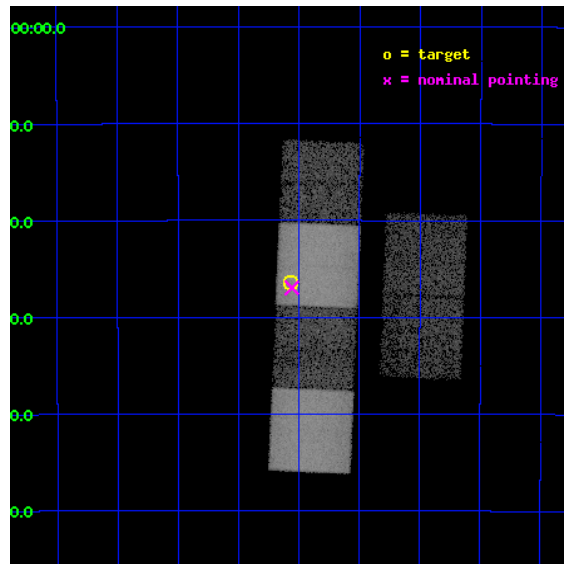
L2 Processing Date : Sep 1 2012

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# 1 Front

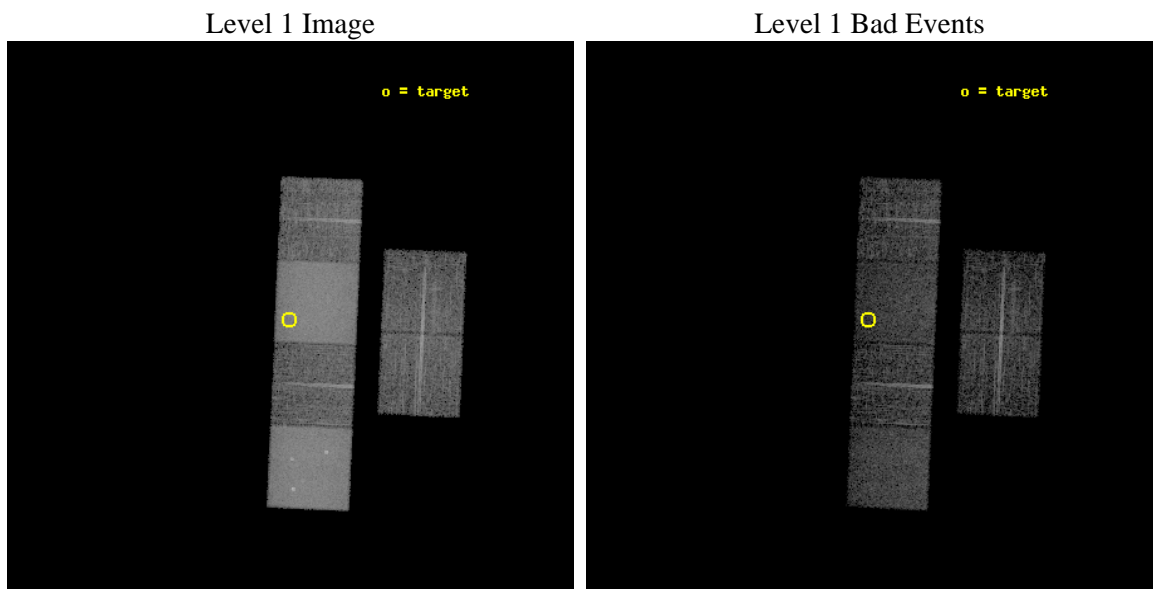
seq_num	400036	Sequence number
obs_id	669	Observation id
title	THE FAINTEST 'FIELD' LOW-MASS X-RAY BINARIES	Proposal title
observer	PROF MICHIEL VAN DER KLIS	Principal investigator
object	1746.7-3224	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.51625	Observer's specified target RA [deg]
dec_targ	-32.439583	Observer's specified target Dec [deg]
ra_nom	267.51467659383	Nominal RA [deg]
dec_nom	-32.449443140174	Nominal Dec [deg]
roll_nom	272.46443636709	Nominal Roll [deg]
revision	3	Processing version of data
ontime	6801.4627606869	Sum of GTIs [s]
livetime	6715.3385438619	Livetime [s]
ontime2	5897.2693636417	Sum of GTIs [s]
ontime3	5958.6841760427	Sum of GTIs [s]
ontime5	6827.3493226767	Sum of GTIs [s]
ontime6	5994.3761972487	Sum of GTIs [s]
ontime7	6801.4627606869	Sum of GTIs [s]
ontime8	6004.0170579851	Sum of GTIs [s]
l2events	175823	Number of level 2 events



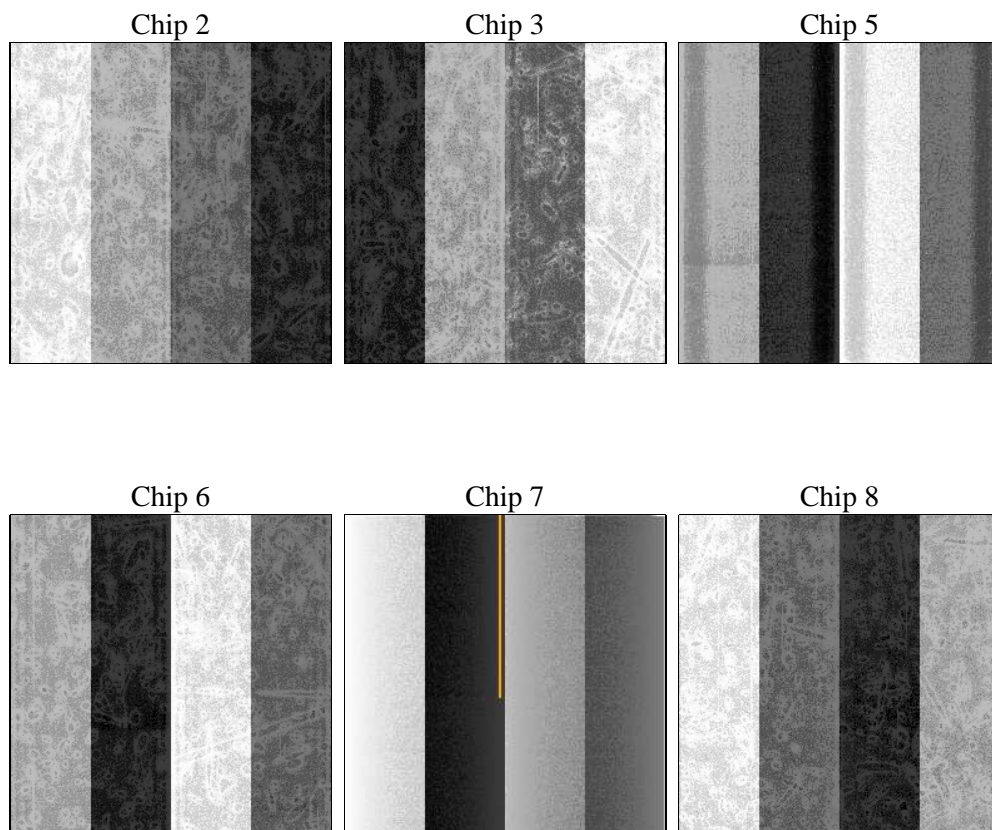
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6975.976000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	6801.4627606869	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime2	5897.2693636417	Sum of GTIs [s]
date	2012-09-01T03:42:51	Date and time of file creation	ontime3	5958.6841760427	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	6827.3493226767	Sum of GTIs [s]
			ontime6	5994.3761972487	Sum of GTIs [s]
			ontime7	6801.4627606869	Sum of GTIs [s]
			ontime8	6004.0170579851	Sum of GTIs [s]
			l1events	386983	Number of level 1 events

### 2.1.4 Events

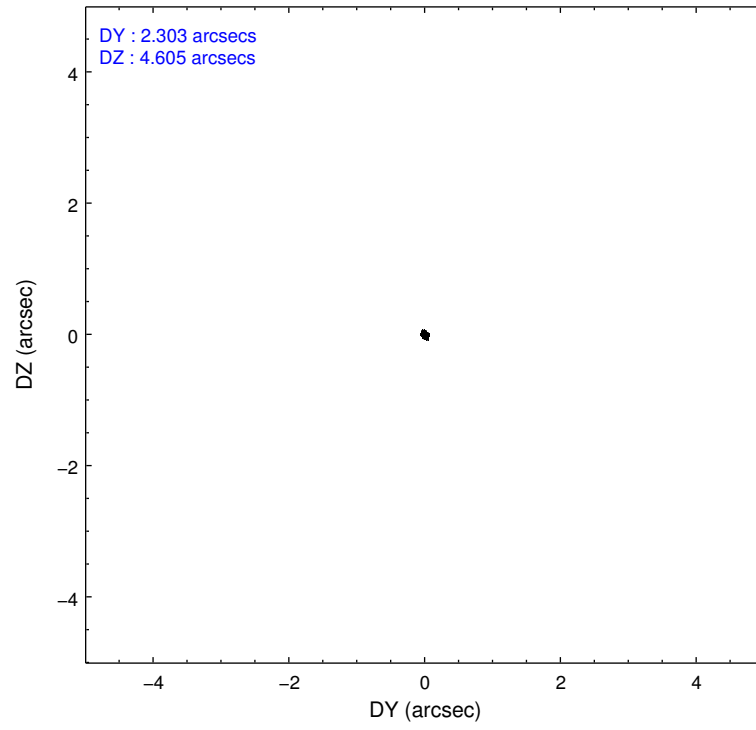
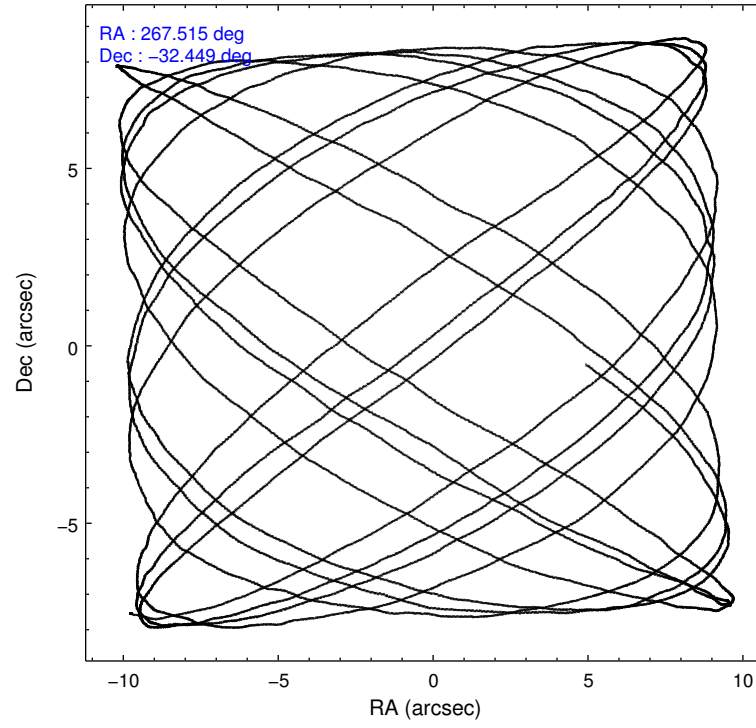
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	39357	37091	109679	41253	111145	48458	grade 0 events	3218	3454	12675	5596	9188	5978
rejected events	33479	31004	34787	32513	32075	36377		8%	9%	11%	13%	8%	12%
rejected %	85%	83%	31%	78%	28%	75%	grade 1 events	22	19	119	26	91	36
								0%	0%	0%	0%	0%	0%
							grade 2 events	1112	1095	20640	1330	14185	2181
								2%	2%	18%	3%	12%	4%
							grade 3 events	451	432	4291	482	6428	933
								1%	1%	3%	1%	5%	1%
							grade 4 events	388	378	4303	452	6590	857
								0%	1%	3%	1%	5%	1%
							grade 5 events	1263	1338	4883	1497	5308	1884
								3%	3%	4%	3%	4%	3%
							grade 6 events	713	728	33055	886	42744	2138
								1%	1%	30%	2%	38%	4%
							grade 7 events	32190	29647	29713	30984	26611	34451
								81%	79%	27%	75%	23%	71%

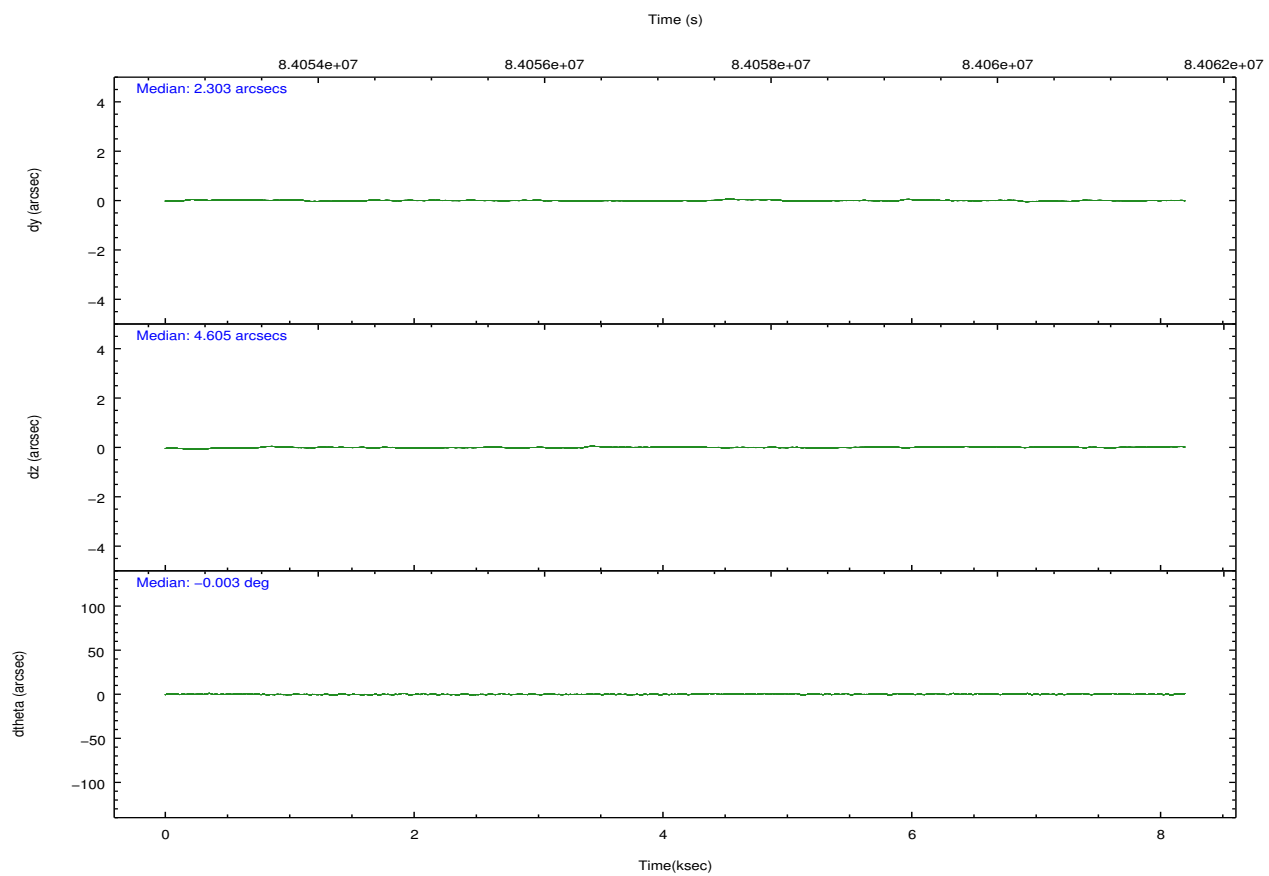
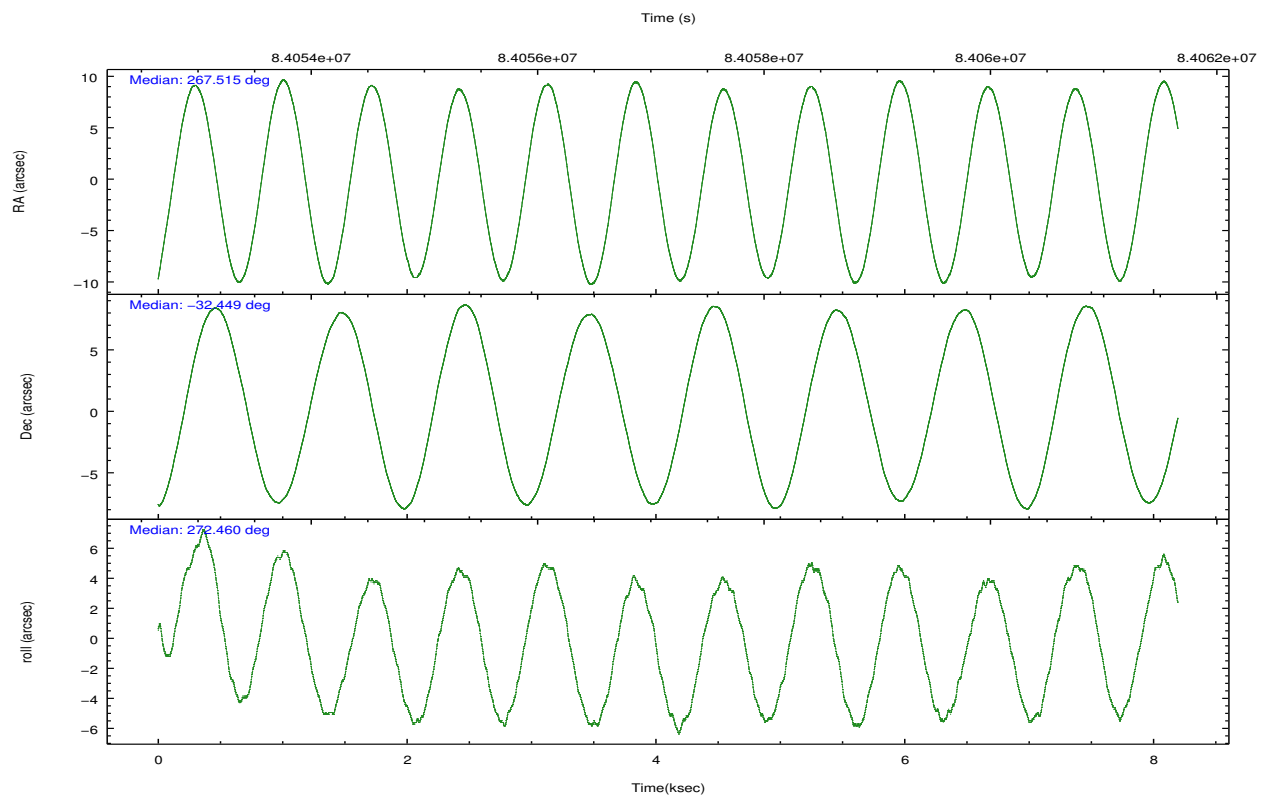


## 2.2 Compared Parameters

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	267.497044	267.5146765938341	Subarray requested	NONE	NONE
[deg] Pointing Dec	-32.426383	-32.44944314017383	Alternating exposures requested	N	N
[deg] Pointing Roll	272.298346	272.4644363670851	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-182.132523	-182.1370004450064			
[mm] SIM translation stage offset	-8	-7.995522138001405			
[s] Observation start time (MET)	84054277.184000	84052802.147808			
Observation start date	2000-08-30T20:23:33	2000-08-30T20:00:02			
[s] Observation end time (MET)	84061253.184000	84061566.92313699			
Observation end date	2000-08-30T22:19:49	2000-08-30T22:26:06			
Read mode	TIMED	TIMED			

## 2.3 Aspect



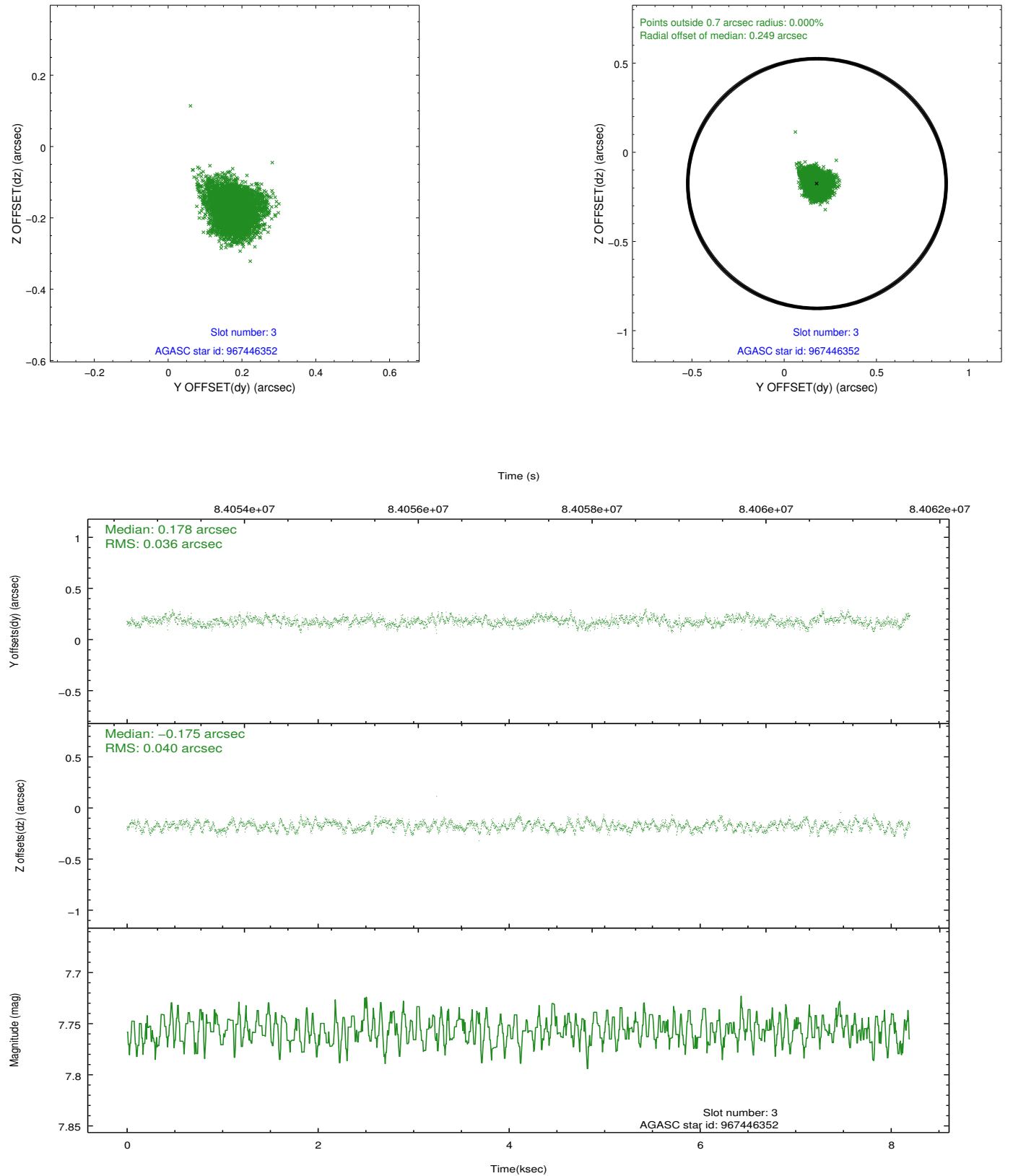


### Slot Statistics

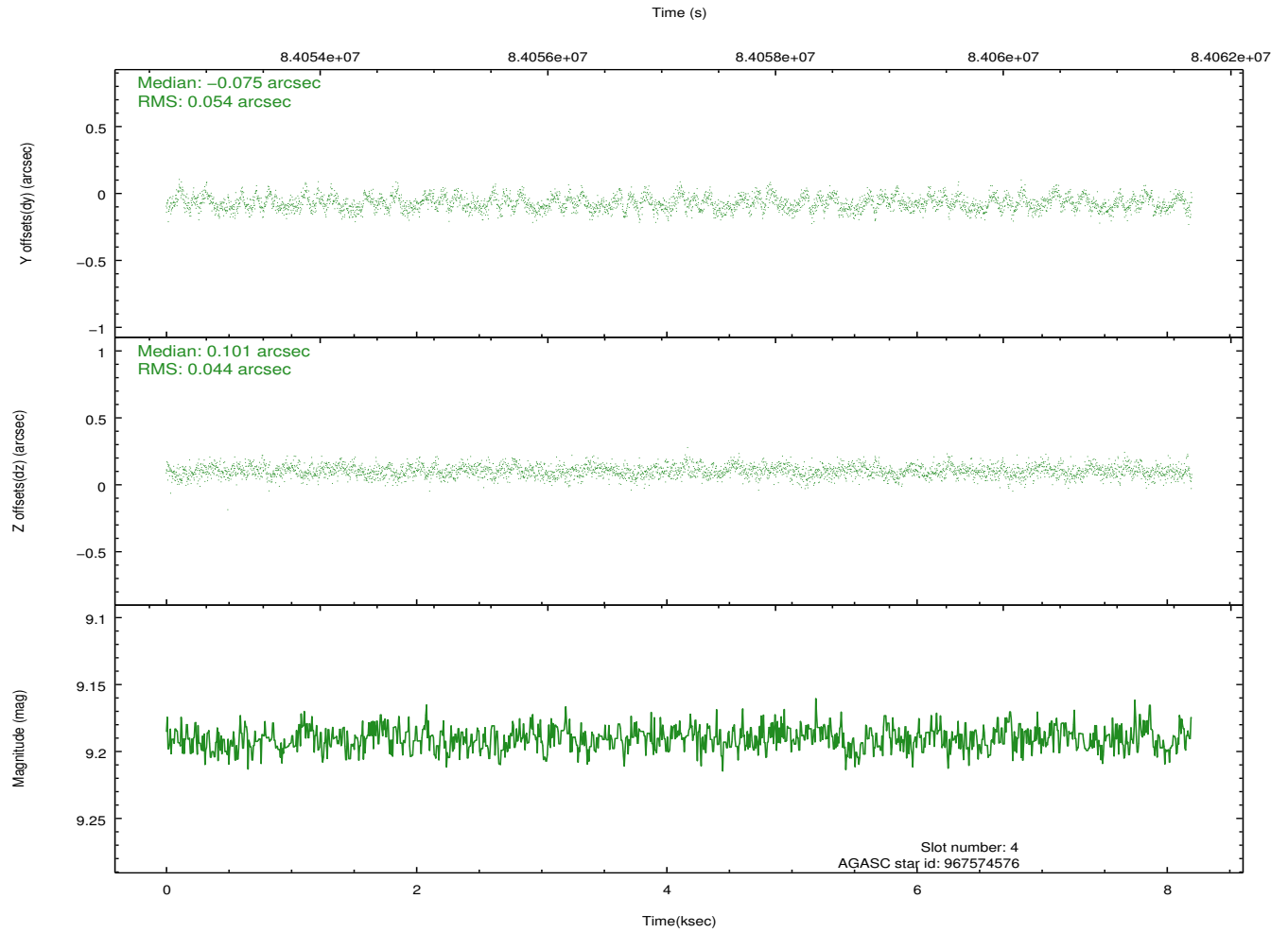
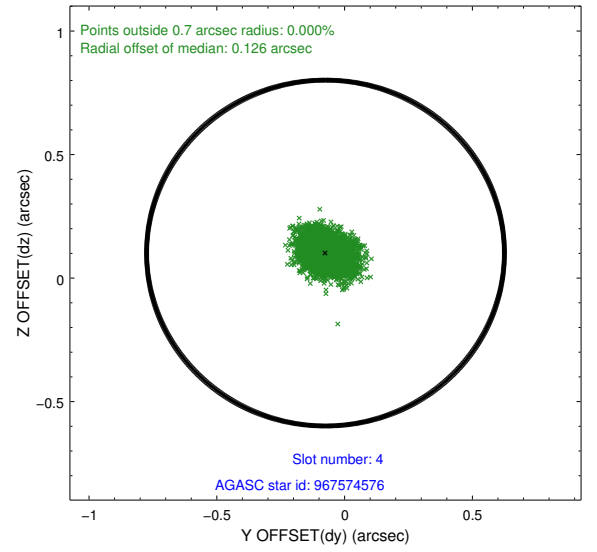
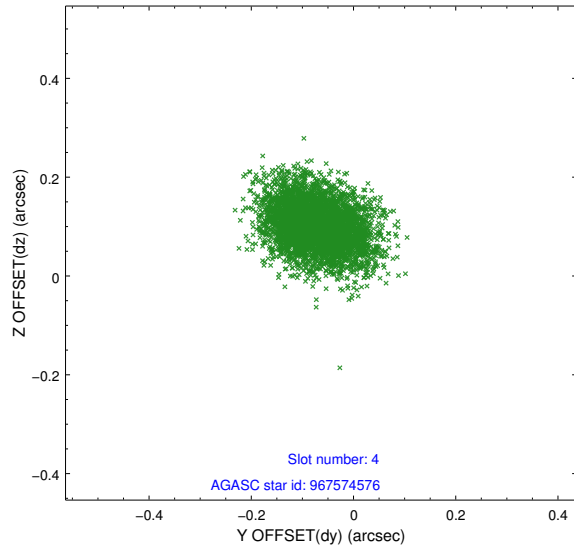
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-3	7.35	2000	-0.067	-0.024	0.008	0.013	0.000000	0.000000	58.74	-2019.50
1	FID	ACIS-S-4	7.18	2000	0.067	0.047	0.006	0.010	0.000000	0.000000	2159.09	17.20
2	FID	ACIS-S-5	7.23	2000	-0.029	-0.014	0.007	0.012	0.000000	0.000000	-1806.34	11.74
3	GUIDE	967446352	7.76	3999	0.178	-0.175	0.058	0.091	267.069988	-32.671157	832.84	-1328.99
4	GUIDE	967574576	9.19	3998	-0.075	0.101	0.074	0.123	267.763701	-32.375199	-149.18	816.90
5	GUIDE	967574992	9.12	3998	0.091	0.175	0.068	0.110	268.024577	-32.877886	1693.32	1528.57
6	GUIDE	967573664	9.26	3999	0.016	0.049	0.068	0.113	267.778533	-32.307665	-389.86	872.98
7	GUIDE	967442904	9.67	3999	-0.209	-0.148	0.111	0.175	266.669977	-31.962290	-1759.79	-2457.87

## 2.4 Star Slots

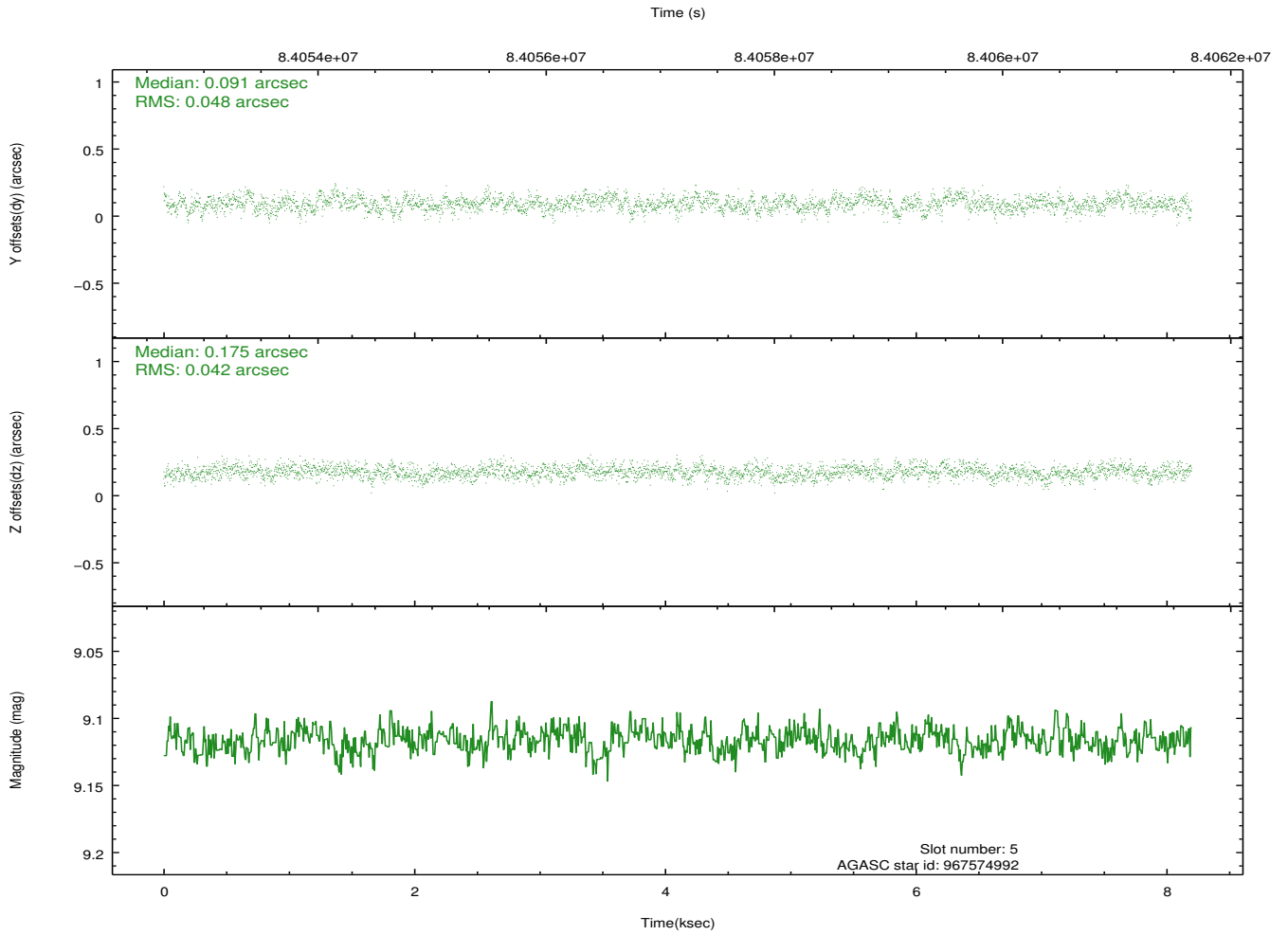
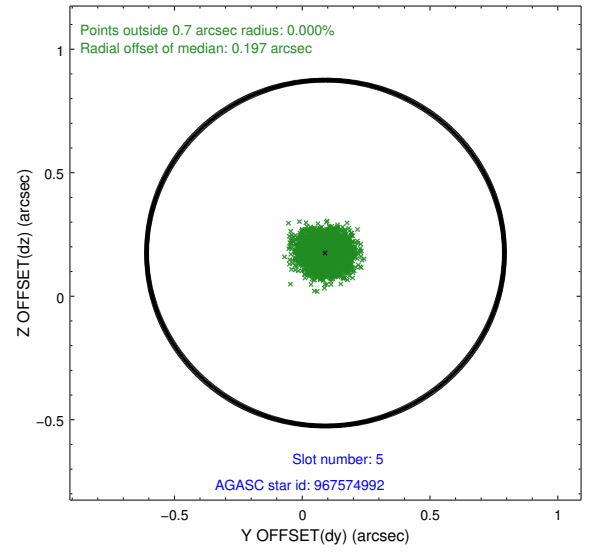
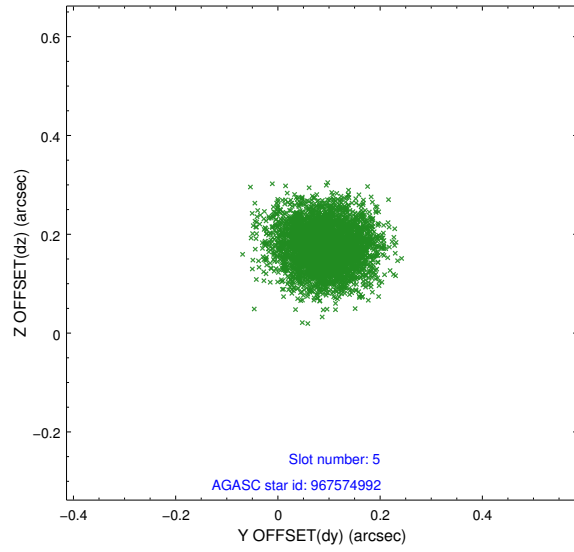
### 2.4.1 Slot 3



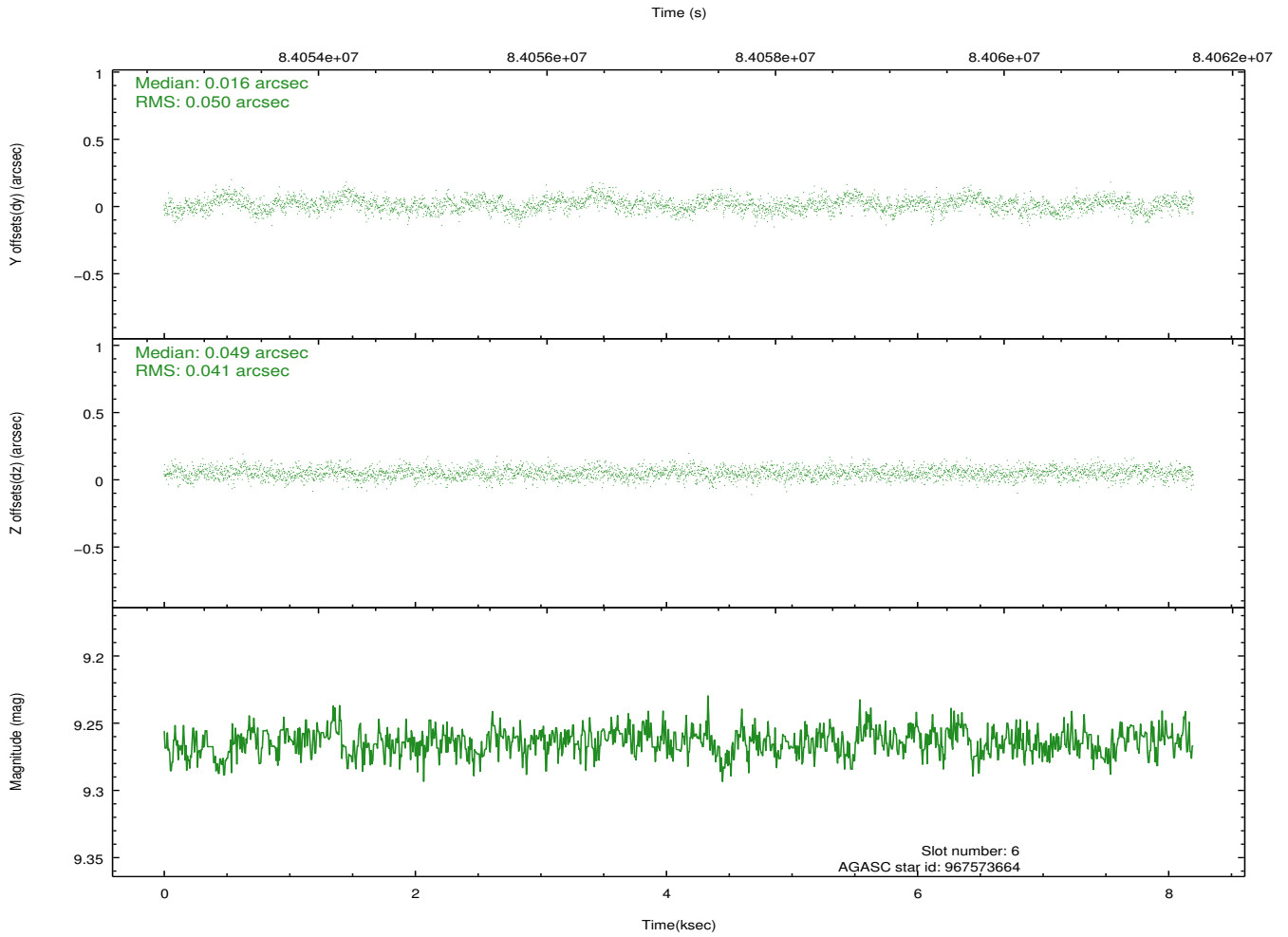
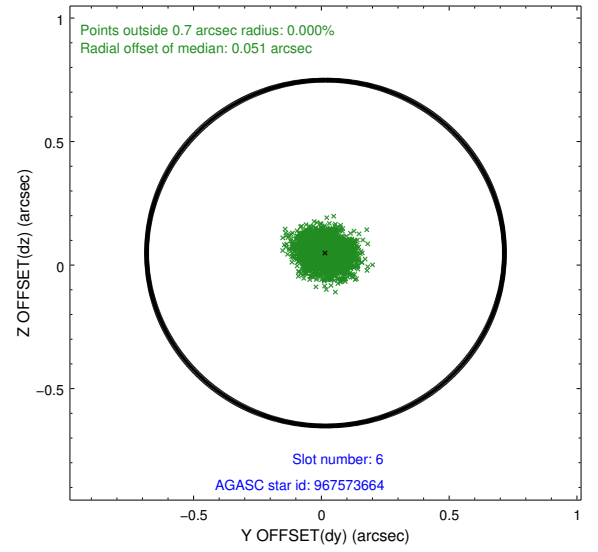
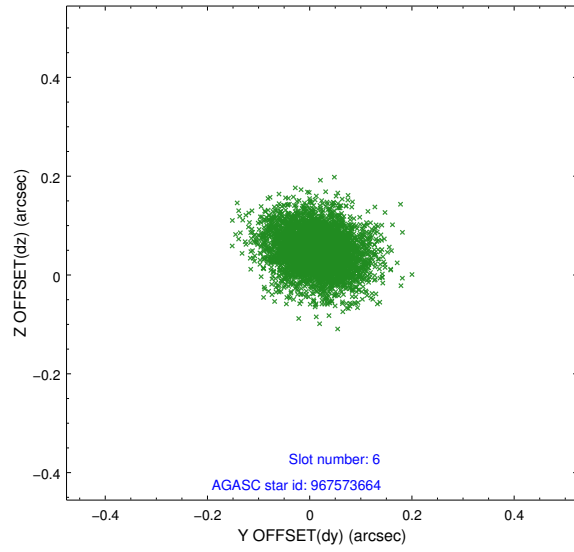
## 2.4.2 Slot 4



### 2.4.3 Slot 5

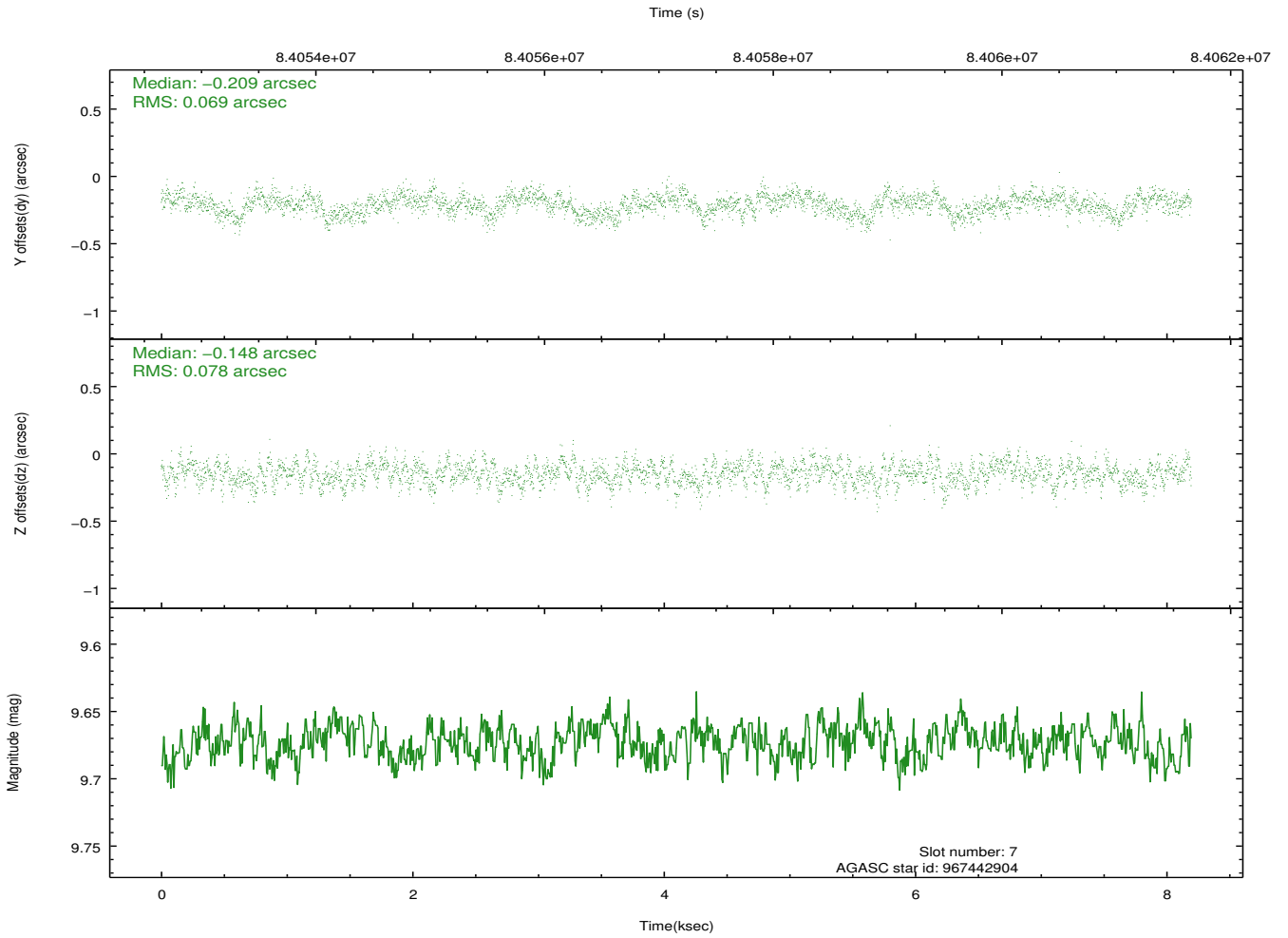
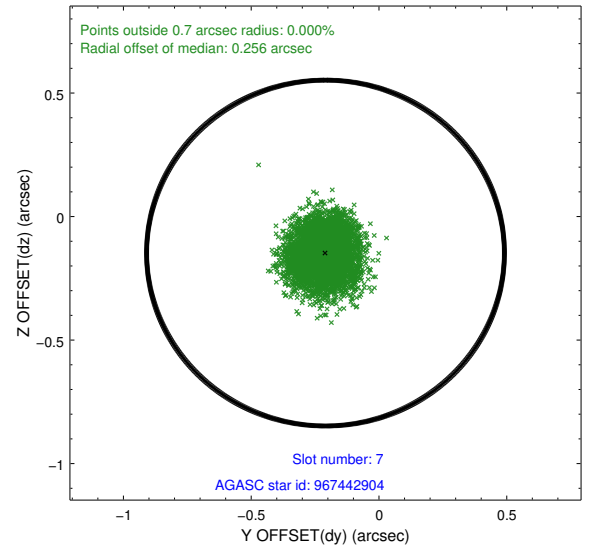
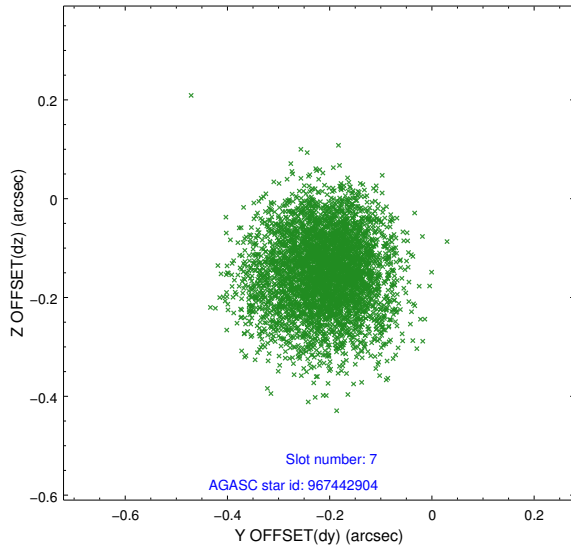


## 2.4.4 Slot 6



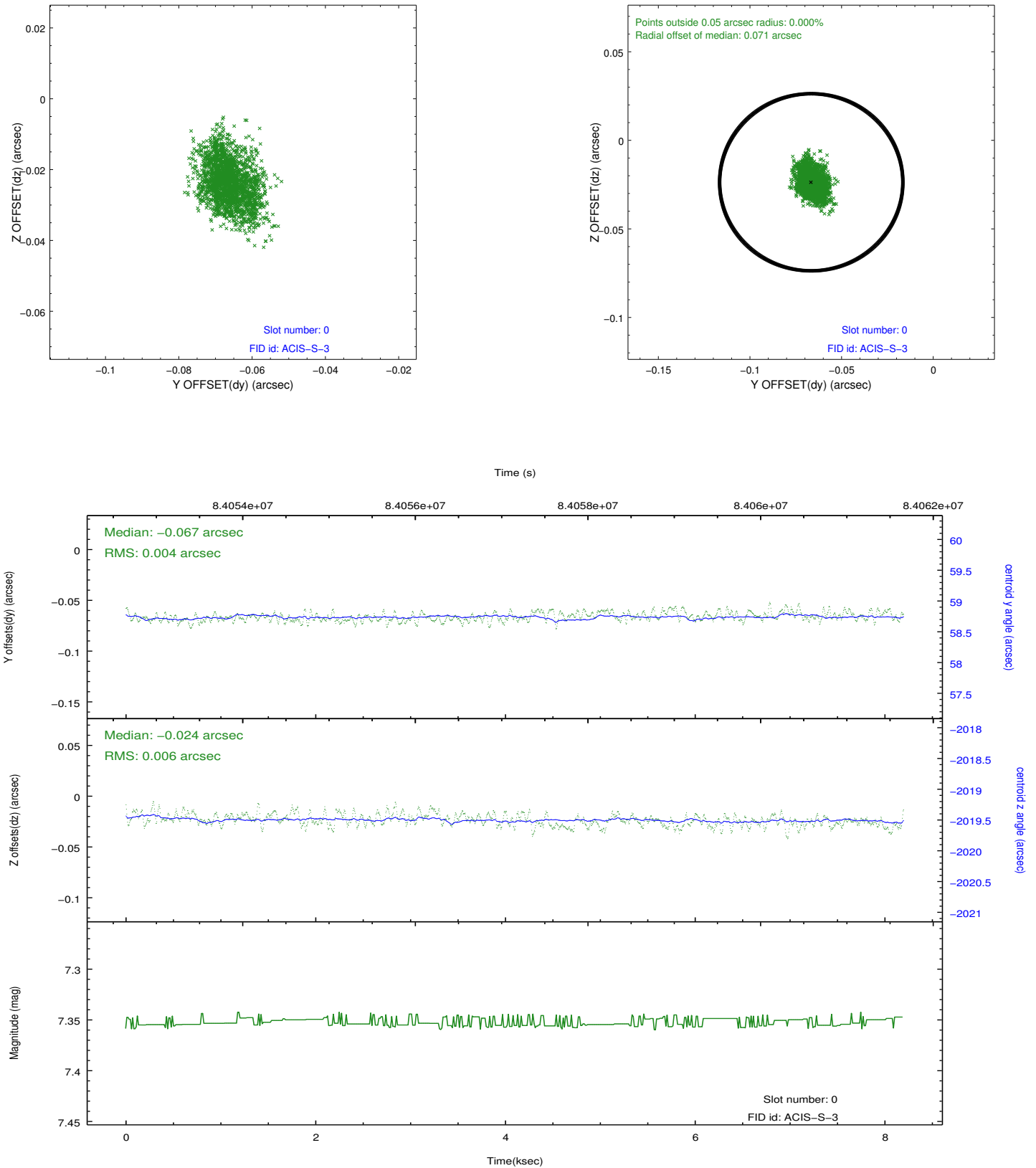


## 2.4.5 Slot 7

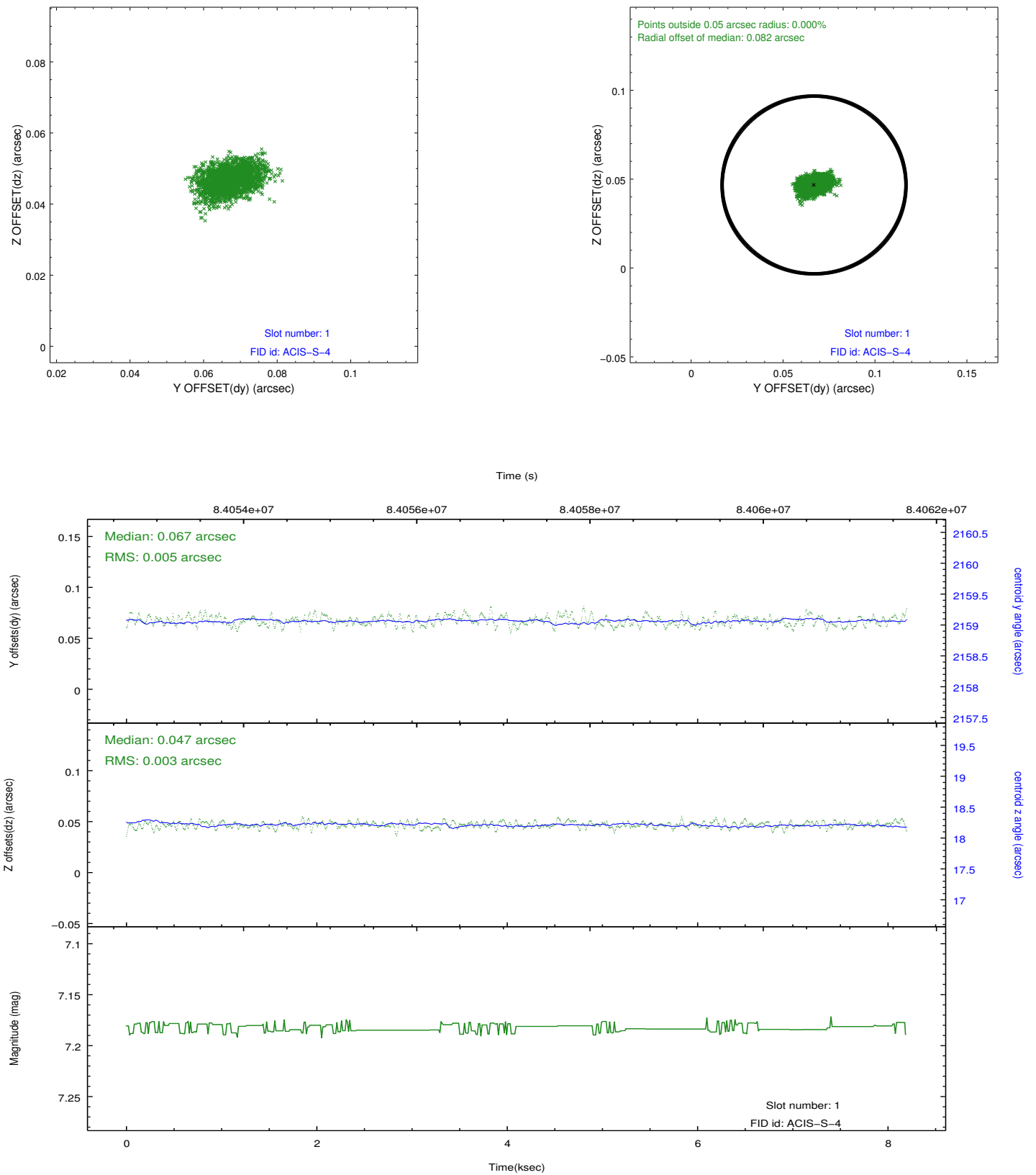


## 2.5 FID Slots

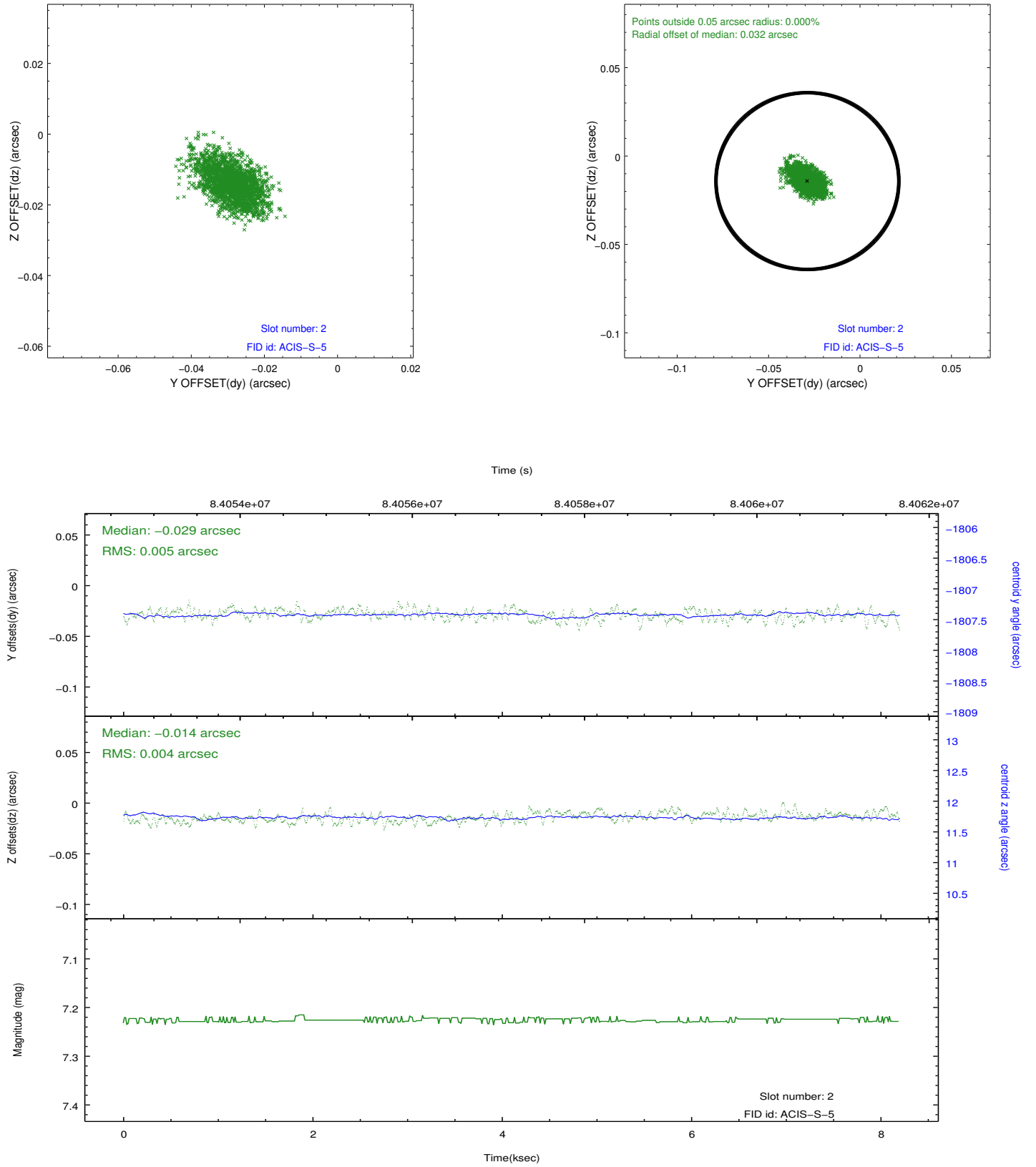
### 2.5.1 Slot 0



## 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)	2012.09.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.803

## A.2 Comments

Spike in count rate from about 10 counts per second to about 50 counts per second between 4 and 6 ksec into the observation. Most of this time period is not included in the good time interval, and therefore is not in the Level 2 data products.